

COMMITTENTE:



ALTA SORVEGLIANZA:



GENERAL CONTRACTOR:

Cepav due



INFRASTRUTTURE FERROVIARIE STRATEGICHE DEFINITE DALLA LEGGE OBIETTIVO N. 443/01

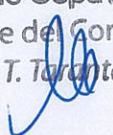
LINEA A.V. /A.C. TORINO – VENEZIA Tratta MILANO – VERONA
Lotto funzionale Brescia-Verona

PROGETTO ESECUTIVO

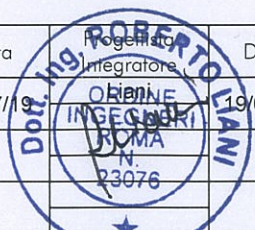

GA27 - GALLERIA ARTIFICIALE BRESCIA EST

DA PK 105+814 A PK 106+304

OPERE DI SOSTEGNO DEGLI SCAVI – TABULATI DI CALCOLO

GENERAL CONTRACTOR	DIRETTORE LAVORI
Consorzio Cepav due Data: <u>29 MAG 2020</u>	Consorzio Cepav due Il Direttore del Consorzio (Ing. T. Tarantola)  Data: _____

COMMESSA	LOTTO	FASE	ENTE	TIPODOC	OPERA/DISCIPLINA	PROGR	REV
I N O R	1 2	E	E 2	C L	G A 2 7 0 1	0 0 2	A

PROGETTAZIONE						IL PROGETTISTA	
Rev.	Descrizione	Redatto	Data	Verificato	Data	Progettista	Data
A	Emissione	Masani	19/07/19	C. Beltrami	19/07/19	 Dott. Ing. Roberto Ianni Roma N. 23076	 Dott. Ing. Carlo M.A. Beltrami Ordine Ingegneri Milano N. 421904 5) Industrie dell'informazione Data: 19/07/19
B							
C							

CIG. 751447334A

File: INOR12EE2CLGA2701002A_10.docx



Progetto cofinanziato dalla Unione Europea

Stampato dal Service di plottaggio ITALFERR S.p.A. ALBA s.r.l.

CUP: F81H91000000008

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Doc. N.

Progetto
INORLotto
12Codifica Documento
E E2 CL GA 270 1 002Rev.
AFoglio
2 di 1221**INDICE**

1.	SEZIONE 1 – PARATIA DI PALI.....	4
1.1.	DESIGN ASSUMPTION : NOMINAL - FILE DI PARATIE - FILE DI INPUT (.D)	4
1.2.	DESIGN ASSUMPTION : NOMINAL - FILE DI PARATIE - FILE DI OUTPUT (.OUT)	5
1.3.	DESIGN ASSUMPTION : SLE (RARA) - FILE DI PARATIE - FILE DI INPUT (.D).....	80
1.4.	DESIGN ASSUMPTION : SLE (RARA) - FILE DI PARATIE - FILE DI OUTPUT (.OUT).....	82
1.5.	DESIGN ASSUMPTION : A1+M1+R1 - FILE DI PARATIE - FILE DI INPUT (.D).....	160
1.6.	DESIGN ASSUMPTION : A1+M1+R1 - FILE DI PARATIE - FILE DI OUTPUT (.OUT)	162
1.7.	DESIGN ASSUMPTION : A2+M2+R1 - FILE DI PARATIE - FILE DI INPUT (.D).....	240
1.8.	DESIGN ASSUMPTION : A2+M2+R1 - FILE DI PARATIE - FILE DI OUTPUT (.OUT)	242
2.	SEZIONE 2 – PARATIA DI PALI.....	321
2.1.	DESIGN ASSUMPTION : NOMINAL - FILE DI PARATIE - FILE DI INPUT (.D)	321
2.2.	DESIGN ASSUMPTION : NOMINAL - FILE DI PARATIE - FILE DI OUTPUT (.OUT)	322
2.3.	DESIGN ASSUMPTION : SLE (RARA) - FILE DI PARATIE - FILE DI INPUT (.D).....	405
2.4.	DESIGN ASSUMPTION : SLE (RARA) - FILE DI PARATIE - FILE DI OUTPUT (.OUT).....	407
2.5.	DESIGN ASSUMPTION : A1+M1+R1 - FILE DI PARATIE - FILE DI INPUT (.D).....	489
2.6.	DESIGN ASSUMPTION : A1+M1+R1 - FILE DI PARATIE - FILE DI OUTPUT (.OUT)	491
2.7.	DESIGN ASSUMPTION : A2+M2+R1 - FILE DI PARATIE - FILE DI INPUT (.D).....	573
2.8.	DESIGN ASSUMPTION : A2+M2+R1 - FILE DI PARATIE - FILE DI OUTPUT (.OUT)	575
3.	SEZIONE 3 – PARATIA DI PALI.....	659
3.1.	DESIGN ASSUMPTION : NOMINAL - FILE DI PARATIE - FILE DI INPUT (.D)	659
3.2.	DESIGN ASSUMPTION : NOMINAL - FILE DI PARATIE - FILE DI OUTPUT (.OUT)	660
3.3.	DESIGN ASSUMPTION : SLE (RARA) - FILE DI PARATIE - FILE DI INPUT (.D).....	716
3.4.	DESIGN ASSUMPTION : SLE (RARA) - FILE DI PARATIE - FILE DI OUTPUT (.OUT).....	717
3.5.	DESIGN ASSUMPTION : A1+M1+R1 - FILE DI PARATIE - FILE DI INPUT (.D).....	773
3.6.	DESIGN ASSUMPTION : A1+M1+R1 - FILE DI PARATIE - FILE DI OUTPUT (.OUT)	775
3.7.	DESIGN ASSUMPTION : A2+M2+R1 - FILE DI PARATIE - FILE DI INPUT (.D).....	830
3.8.	DESIGN ASSUMPTION : A2+M2+R1 - FILE DI PARATIE - FILE DI OUTPUT (.OUT)	831

GENERAL CONTRACTOR

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Doc. N.

Progetto
INORLotto
12Codifica Documento
E E2 CL GA 2701 002Rev.
AFoglio
3 di 1221

4.	PARATIA DI PALI – SEZIONE 4.....	890
4.1.	DESIGN ASSUMPTION : NOMINAL - FILE DI PARATIE - FILE DI INPUT (.D)	890
4.2.	DESIGN ASSUMPTION : NOMINAL - FILE DI PARATIE - FILE DI OUTPUT (.OUT)	891
4.3.	DESIGN ASSUMPTION : SLE (RARA) - FILE DI PARATIE - FILE DI INPUT (.D).....	941
4.4.	DESIGN ASSUMPTION : SLE (RARA) - FILE DI PARATIE - FILE DI OUTPUT (.OUT).....	943
4.5.	DESIGN ASSUMPTION : A1+M1+R1 - FILE DI PARATIE - FILE DI INPUT (.D).....	994
4.6.	DESIGN ASSUMPTION : A1+M1+R1 - FILE DI PARATIE - FILE DI OUTPUT (.OUT).....	995
4.7.	DESIGN ASSUMPTION : A2+M2+R1 - FILE DI PARATIE - FILE DI INPUT (.D).....	1047
4.8.	DESIGN ASSUMPTION : A2+M2+R1 - FILE DI PARATIE - FILE DI OUTPUT (.OUT).....	1049
5.	BERLINESE DI MICROPALI.....	1102
5.1.	DESIGN ASSUMPTION : NOMINAL - FILE DI PARATIE - FILE DI INPUT (.D)	1102
5.2.	DESIGN ASSUMPTION : NOMINAL - FILE DI PARATIE - FILE DI OUTPUT (.OUT).....	1103
5.3.	DESIGN ASSUMPTION : SLE (RARA) - FILE DI PARATIE - FILE DI INPUT (.D).....	1131
5.4.	DESIGN ASSUMPTION : SLE (RARA) - FILE DI PARATIE - FILE DI OUTPUT (.OUT).....	1133
5.5.	DESIGN ASSUMPTION : A1+M1+R1 - FILE DI PARATIE - FILE DI INPUT (.D).....	1161
5.6.	DESIGN ASSUMPTION : A1+M1+R1 - FILE DI PARATIE - FILE DI OUTPUT (.OUT).....	1163
5.7.	DESIGN ASSUMPTION : A2+M2+R1 - FILE DI PARATIE - FILE DI INPUT (.D).....	1191
5.8.	DESIGN ASSUMPTION : A2+M2+R1 - FILE DI PARATIE - FILE DI OUTPUT (.OUT).....	1192

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
4 di 1221

1. SEZIONE 1 – PARATIA DI PALI

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

* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: Nominal

* Time:lunedì 29 luglio 2019 17:58:37

* 1: Defining general settings

UNIT m kN

TITLE New Project

DELTA 0.2

option param itemax 100

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)

WALL LeftWall_32 0 -18 0 1

* 3: Defining surfaces for wall(s)

SOIL 0_L LeftWall_32 -18 0 1 0

SOIL 0_R LeftWall_32 -18 0 2 180

* 4: Defining soil layers

*

* Soil Profile (Strato1_2_8_L_0)

*

LDATA Strato1_2_8_L_0 0 LeftWall_32

ATREST 0.53 1 1

WEIGHT 19 9 10

PERMEABILITY 1E-06

RESISTANCE 0 29

YOUNG 2E+04 6E+04

ENDL

*

* Soil Profile (Strato2_3095_82743_L_0)

*

LDATA Strato2_3095_82743_L_0 -12.6 LeftWall_32

ATREST 0.5 0.5 1

WEIGHT 20 10 10

PERMEABILITY 0.0001

RESISTANCE 20 35

YOUNG 5E+04 1.5E+05

ENDL

* 5: Defining structural materials

* Steel material: 108 Name=Fe360 E=206000200 kPa

MATERIAL Fe360_108 2.06E+08

* Concrete material: 104 Name=C25/30 E=31475800 kPa

MATERIAL C2530_104 3.148E+07

* Rebar material: 124 Name=acciaio armonico E=200100000 kPa

MATERIAL acciaioarmonico_124 2.001E+08

* Concrete material: 103 Name=C20/25 E=29962000 kPa

MATERIAL C2025_103 2.996E+07

* 6: Defining structural elements

* 6.1: Beams and combined Wall Elements

BEAM WallElement_33 LeftWall_32 -18 0 C2530_104 0.6848 00 00 0

* 6.2: Supports

WIRE Tirante1_429 LeftWall_32 -3 acciaioarmonico_124 1.316E-05 93.94 15 0 0

WIRE Tirante2_1507 LeftWall_32 -8.2 acciaioarmonico_124 2.106E-05 166.7 15 0 0

* 6.3: Strips

STRIP LeftWall_32 2 6 0 40 0 15.2 45

STRIP LeftWall_32 2 6 0 40 0 10 30

* 7: Defining Steps

STEP Stage1_31

CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32

CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32

CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32

CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32

CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32

CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32

CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32

CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32

CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32

CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32

CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32

CHANGE Strato2_3095_82743_L_0 U-COHE=20 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
5 di 1221

```

SETWALL LeftWall_32
GEOM 0 0
WATER -26 0 -18 0 0
ADD WallElement_33
ENDSTEP

STEP Stage2_158
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -3.5
WATER -26 0 -18 0 0
ENDSTEP

STEP Stage3_617
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -3.5
WATER -26 0 -18 0 0
ADD Tirante1_429
ENDSTEP

STEP Stage4_714
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -8.7
WATER -26 0 -18 0 0
ENDSTEP

STEP Stage5_1682
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -8.7
SURCHARGE 10 0 0 -9
WATER -26 0 -18 0 0
ADD Tirante2_1507
ENDSTEP

STEP Stage6_1779
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -12.6
SURCHARGE 0 0 0 0
WATER -26 0 -18 0 0
ENDSTEP
    
```

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

```

+-----+
|          PARATIEPLUS (TM)   NLS ENGINE RELEASE   2017.1   FULL VERSION   *Build date:Jul 11, 2017*   |
|          |          |          |          |          |          |          |          |          |          |
|          |          |          |          |          |          |          |          |          |          |
|          |          |          |          |          |          |          |          |          |          |
|          |          |          |          |          |          |          |          |          |          |
|          |          |          |          |          |          |          |          |          |          |
|          |          |          |          |          |          |          |          |          |          |
|          |          |          |          |          |          |          |          |          |          |
+-----+
    
```

```

*****
*
*   PARATIE PLUS Non-Linear Spring Engine
*
*   AN ELASTOPLASTIC FINITE ELEMENT PROGRAM
*   FOR FLEXIBLE EARTH-RETAINING STRUCTURES
*
*   Written by Ce.A.S. s.r.l. (ITALY)
*   with the scientific supervision of
*   Roberto Nova - full professor SOIL MECHANICS
*   at Politecnico di Milano (ITALY)
*
*
    
```

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 6 di 1221
---------	------------------	-------------	---	-----------	---------------------

```

*****
*
*  RELEASE    2017.1      *Build date:Jul 11, 2017*
*
*
*  Ce.A.S.    S.R.L  CENTRO DI ANALISI STRUTTURALE
*              VIALE  GIUSTINIANO 10
*              20129  M I L A N O  (ITALIA)
*  TEL.      +39 02 2020221  (+39 035 23 67 19)
*  FAX       +39 02 29512533 (+39 035 42285 49)
*  email     bruno.becci@ceas.it
*  Web Page  www.ceas.it
*****

```

```

JOB : NewProject.BaseDesignSection_28.Nominal_63
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL_STRESS >
ACCEPTED <PARAM ITEMEX 100 >
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  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                    |
|          NewProject.BaseDesignSection_28.Nominal_63 |
|          Exe Time :29 July 2019  17:58:38 |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 91
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 182
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 5
NO. OF SOLUTION STEPS (NSTE)..... 6
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 102
NO. OF LONG NAMES (LASTNAME) ..... 24
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH..... 1
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.

```

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
7 di 1221

```
-----+-----
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      17:58:38                             |
|-----+-----
```

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 102

```
1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 100
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -18 0 1
7 : SOIL 0_L LeftWall_32 -18 0 1 0
8 : SOIL 0_R LeftWall_32 -18 0 2 180
9 : LDATA Strato1_2_8_L_0 0 LeftWall_32
10 : ATREST 0.53 1 1
11 : WEIGHT 19 9 10
12 : PERMEABILITY 1E-06
13 : RESISTANCE 0 29
14 : YOUNG 2E+04 6E+04
15 : ENDL
16 : LDATA Strato2_3095_82743_L_0 -12.6 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 20 10 10
19 : PERMEABILITY 0.0001
20 : RESISTANCE 20 35
21 : YOUNG 5E+04 1.5E+05
22 : ENDL
23 : MATERIAL Fe360_108 2.06E+08
24 : MATERIAL C2530_104 3.148E+07
25 : MATERIAL acciaioarmonico_124 2.001E+08
26 : MATERIAL C2025_103 2.996E+07
27 : BEAM WallElement_33 LeftWall_32 -18 0 C2530_104 0.6848 00 00 0
28 : WIRE Tirante1_429 LeftWall_32 -3 acciaioarmonico_124 1.316E-05 93.94 15 0 0
29 : WIRE Tirante2_1507 LeftWall_32 -8.2 acciaioarmonico_124 2.106E-05 166.7 15 0 0
30 : STRIP LeftWall_32 2 6 0 40 0 15.2 45
31 : STRIP LeftWall_32 2 6 0 40 0 10 30
32 : STEP Stage1_31
33 : CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32
34 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
35 : CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32
36 : CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32
37 : CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32
38 : CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32
39 : CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32
40 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
41 : CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32
42 : CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32
43 : CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32
44 : CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32
45 : CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
46 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
47 : CHANGE Strato2_3095_82743_L_0 U-COHE=20 LeftWall_32
48 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
49 : SETWALL LeftWall_32
50 : GEOM 0 0
51 : WATER -26 0 -18 0 0
52 : ADD WallElement_33
53 : ENDSTEP
54 : STEP Stage2_158
55 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
56 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
57 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
58 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
59 : SETWALL LeftWall_32
60 : GEOM 0 -3.5
61 : WATER -26 0 -18 0 0
62 : ENDSTEP
63 : STEP Stage3_617
64 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
65 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
66 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
67 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
68 : SETWALL LeftWall_32
69 : GEOM 0 -3.5
70 : WATER -26 0 -18 0 0
71 : ADD Tirante1_429
72 : ENDSTEP
```

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 8 di 1221
---------	------------------	-------------	---	-----------	---------------------

```

73 : STEP Stage4_714
74 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
75 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
76 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
77 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
78 : SETWALL LeftWall_32
79 : GEOM 0 -8.7
80 : WATER -26 0 -18 0 0
81 : ENDSTEP
82 : STEP Stage5_1682
83 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
84 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
85 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
86 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
87 : SETWALL LeftWall_32
88 : GEOM 0 -8.7
89 : SURCHARGE 10 0 0 -9
90 : WATER -26 0 -18 0 0
91 : ADD Tirante2_1507
92 : ENDSTEP
93 : STEP Stage6_1779
94 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
95 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
96 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
97 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
98 : SETWALL LeftWall_32
99 : GEOM 0 -12.6
100 : SURCHARGE 0 0 0 0
101 : WATER -26 0 -18 0 0
102 : ENDSTEP

```

```

-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      17:58:38
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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 / NODE
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 -10.000 /	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 /		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      17:58:38
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```

```

ELEMENT GROUP NO. 1
0_L
_5 91 0 1 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0
.....
.....2D PLASTIC SOIL .....
.....

```


GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 9 di 1221
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element group behaviour throughout stage analysis

```

stage  status
-----
1      active
2      active
3      active
4      active
5      active
6      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

```

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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	0.2000	0.000	0.000	0.000	1.000
28	28	1	0.2000	0.000	0.000	0.000	1.000
29	29	1	0.2000	0.000	0.000	0.000	1.000
30	30	1	0.2000	0.000	0.000	0.000	1.000
31	31	1	0.2000	0.000	0.000	0.000	1.000
32	32	1	0.2000	0.000	0.000	0.000	1.000
33	33	1	0.2000	0.000	0.000	0.000	1.000
34	34	1	0.2000	0.000	0.000	0.000	1.000
35	35	1	0.2000	0.000	0.000	0.000	1.000
36	36	1	0.2000	0.000	0.000	0.000	1.000
37	37	1	0.2000	0.000	0.000	0.000	1.000
38	38	1	0.2000	0.000	0.000	0.000	1.000
39	39	1	0.2000	0.000	0.000	0.000	1.000
40	40	1	0.2000	0.000	0.000	0.000	1.000
41	41	1	0.2000	0.000	0.000	0.000	1.000
42	42	1	0.2000	0.000	0.000	0.000	1.000
43	43	1	0.2000	0.000	0.000	0.000	1.000
44	44	1	0.2000	0.000	0.000	0.000	1.000
45	45	1	0.2000	0.000	0.000	0.000	1.000
46	46	1	0.2000	0.000	0.000	0.000	1.000
47	47	1	0.2000	0.000	0.000	0.000	1.000
48	48	1	0.2000	0.000	0.000	0.000	1.000
49	49	1	0.2000	0.000	0.000	0.000	1.000
50	50	1	0.2000	0.000	0.000	0.000	1.000
51	51	1	0.2000	0.000	0.000	0.000	1.000
52	52	1	0.2000	0.000	0.000	0.000	1.000
53	53	1	0.2000	0.000	0.000	0.000	1.000
54	54	1	0.2000	0.000	0.000	0.000	1.000
55	55	1	0.2000	0.000	0.000	0.000	1.000
56	56	1	0.2000	0.000	0.000	0.000	1.000
57	57	1	0.2000	0.000	0.000	0.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 10 di 1221
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58	58	1	0.2000	0.000	0.000	0.000	1.000
59	59	1	0.2000	0.000	0.000	0.000	1.000
60	60	1	0.2000	0.000	0.000	0.000	1.000
61	61	1	0.2000	0.000	0.000	0.000	1.000
62	62	1	0.2000	0.000	0.000	0.000	1.000
63	63	1	0.2000	0.000	0.000	0.000	1.000
64	64	1	0.2000	0.000	0.000	0.000	1.000
65	65	2	0.2000	0.000	0.000	0.000	1.000
66	66	2	0.2000	0.000	0.000	0.000	1.000
67	67	2	0.2000	0.000	0.000	0.000	1.000
68	68	2	0.2000	0.000	0.000	0.000	1.000
69	69	2	0.2000	0.000	0.000	0.000	1.000
70	70	2	0.2000	0.000	0.000	0.000	1.000
71	71	2	0.2000	0.000	0.000	0.000	1.000
72	72	2	0.2000	0.000	0.000	0.000	1.000
73	73	2	0.2000	0.000	0.000	0.000	1.000
74	74	2	0.2000	0.000	0.000	0.000	1.000
75	75	2	0.2000	0.000	0.000	0.000	1.000
76	76	2	0.2000	0.000	0.000	0.000	1.000
77	77	2	0.2000	0.000	0.000	0.000	1.000
78	78	2	0.2000	0.000	0.000	0.000	1.000
79	79	2	0.2000	0.000	0.000	0.000	1.000
80	80	2	0.2000	0.000	0.000	0.000	1.000
81	81	2	0.2000	0.000	0.000	0.000	1.000
82	82	2	0.2000	0.000	0.000	0.000	1.000
83	83	2	0.2000	0.000	0.000	0.000	1.000
84	84	2	0.2000	0.000	0.000	0.000	1.000
85	85	2	0.2000	0.000	0.000	0.000	1.000
86	86	2	0.2000	0.000	0.000	0.000	1.000
87	87	2	0.2000	0.000	0.000	0.000	1.000
88	88	2	0.2000	0.000	0.000	0.000	1.000
89	89	2	0.2000	0.000	0.000	0.000	1.000
90	90	2	0.2000	0.000	0.000	0.000	1.000
91	91	2	0.1000	0.000	0.000	0.000	1.000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      17:58:38
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```

ELEMENT GROUP NO.  2

O_R      :
5 91  0  1  0  0  0  0  0  0  0  0  0  0  0  0  2  0  0  0  0  0
.....
.....2D PLASTIC SOIL .....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
1      active
2      active
3      active
4      active
5      active
6      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

```

```

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

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.								Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 11 di 1221
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	1	0.2000	0.000	0.000	0.000	2.000					
22	22	1	0.2000	0.000	0.000	0.000	2.000					
23	23	1	0.2000	0.000	0.000	0.000	2.000					
24	24	1	0.2000	0.000	0.000	0.000	2.000					
25	25	1	0.2000	0.000	0.000	0.000	2.000					
26	26	1	0.2000	0.000	0.000	0.000	2.000					
27	27	1	0.2000	0.000	0.000	0.000	2.000					
28	28	1	0.2000	0.000	0.000	0.000	2.000					
29	29	1	0.2000	0.000	0.000	0.000	2.000					
30	30	1	0.2000	0.000	0.000	0.000	2.000					
31	31	1	0.2000	0.000	0.000	0.000	2.000					
32	32	1	0.2000	0.000	0.000	0.000	2.000					
33	33	1	0.2000	0.000	0.000	0.000	2.000					
34	34	1	0.2000	0.000	0.000	0.000	2.000					
35	35	1	0.2000	0.000	0.000	0.000	2.000					
36	36	1	0.2000	0.000	0.000	0.000	2.000					
37	37	1	0.2000	0.000	0.000	0.000	2.000					
38	38	1	0.2000	0.000	0.000	0.000	2.000					
39	39	1	0.2000	0.000	0.000	0.000	2.000					
40	40	1	0.2000	0.000	0.000	0.000	2.000					
41	41	1	0.2000	0.000	0.000	0.000	2.000					
42	42	1	0.2000	0.000	0.000	0.000	2.000					
43	43	1	0.2000	0.000	0.000	0.000	2.000					
44	44	1	0.2000	0.000	0.000	0.000	2.000					
45	45	1	0.2000	0.000	0.000	0.000	2.000					
46	46	1	0.2000	0.000	0.000	0.000	2.000					
47	47	1	0.2000	0.000	0.000	0.000	2.000					
48	48	1	0.2000	0.000	0.000	0.000	2.000					
49	49	1	0.2000	0.000	0.000	0.000	2.000					
50	50	1	0.2000	0.000	0.000	0.000	2.000					
51	51	1	0.2000	0.000	0.000	0.000	2.000					
52	52	1	0.2000	0.000	0.000	0.000	2.000					
53	53	1	0.2000	0.000	0.000	0.000	2.000					
54	54	1	0.2000	0.000	0.000	0.000	2.000					
55	55	1	0.2000	0.000	0.000	0.000	2.000					
56	56	1	0.2000	0.000	0.000	0.000	2.000					
57	57	1	0.2000	0.000	0.000	0.000	2.000					
58	58	1	0.2000	0.000	0.000	0.000	2.000					
59	59	1	0.2000	0.000	0.000	0.000	2.000					
60	60	1	0.2000	0.000	0.000	0.000	2.000					
61	61	1	0.2000	0.000	0.000	0.000	2.000					
62	62	1	0.2000	0.000	0.000	0.000	2.000					
63	63	1	0.2000	0.000	0.000	0.000	2.000					
64	64	1	0.2000	0.000	0.000	0.000	2.000					
65	65	2	0.2000	0.000	0.000	0.000	2.000					
66	66	2	0.2000	0.000	0.000	0.000	2.000					
67	67	2	0.2000	0.000	0.000	0.000	2.000					
68	68	2	0.2000	0.000	0.000	0.000	2.000					
69	69	2	0.2000	0.000	0.000	0.000	2.000					
70	70	2	0.2000	0.000	0.000	0.000	2.000					
71	71	2	0.2000	0.000	0.000	0.000	2.000					
72	72	2	0.2000	0.000	0.000	0.000	2.000					
73	73	2	0.2000	0.000	0.000	0.000	2.000					
74	74	2	0.2000	0.000	0.000	0.000	2.000					
75	75	2	0.2000	0.000	0.000	0.000	2.000					
76	76	2	0.2000	0.000	0.000	0.000	2.000					
77	77	2	0.2000	0.000	0.000	0.000	2.000					
78	78	2	0.2000	0.000	0.000	0.000	2.000					
79	79	2	0.2000	0.000	0.000	0.000	2.000					
80	80	2	0.2000	0.000	0.000	0.000	2.000					
81	81	2	0.2000	0.000	0.000	0.000	2.000					
82	82	2	0.2000	0.000	0.000	0.000	2.000					
83	83	2	0.2000	0.000	0.000	0.000	2.000					
84	84	2	0.2000	0.000	0.000	0.000	2.000					
85	85	2	0.2000	0.000	0.000	0.000	2.000					
86	86	2	0.2000	0.000	0.000	0.000	2.000					
87	87	2	0.2000	0.000	0.000	0.000	2.000					
88	88	2	0.2000	0.000	0.000	0.000	2.000					
89	89	2	0.2000	0.000	0.000	0.000	2.000					
90	90	2	0.2000	0.000	0.000	0.000	2.000					
91	91	2	0.1000	0.000	0.000	0.000	2.000					



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 12 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      17:58:38                             |
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```

ELEMENT GROUP NO. 3

WallElement_33 :

2 90 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
4	active
5	active
6	active

material set no. 1

prop(1) young modulus 0.314800E+08

prop(2) modification time 0.00000

prop(3) new young modulus 0.00000

prop(4) poisson ratio 0.00000

prop(5) future0.280300E-43

no. of step variable items: 1

step	inertia multiplier
1	1.000
2	1.000
3	1.000
4	1.000
5	1.000
6	1.000

element data

el	na	nb	mat	erc1	erc2	thick	by-i	by-j
1	1	2	1	0.000	0.000	0.6848	0.000	0.000
2	2	3	1	0.000	0.000	0.6848	0.000	0.000
3	3	4	1	0.000	0.000	0.6848	0.000	0.000
4	4	5	1	0.000	0.000	0.6848	0.000	0.000
5	5	6	1	0.000	0.000	0.6848	0.000	0.000
6	6	7	1	0.000	0.000	0.6848	0.000	0.000
7	7	8	1	0.000	0.000	0.6848	0.000	0.000
8	8	9	1	0.000	0.000	0.6848	0.000	0.000
9	9	10	1	0.000	0.000	0.6848	0.000	0.000
10	10	11	1	0.000	0.000	0.6848	0.000	0.000
11	11	12	1	0.000	0.000	0.6848	0.000	0.000
12	12	13	1	0.000	0.000	0.6848	0.000	0.000
13	13	14	1	0.000	0.000	0.6848	0.000	0.000
14	14	15	1	0.000	0.000	0.6848	0.000	0.000
15	15	16	1	0.000	0.000	0.6848	0.000	0.000
16	16	17	1	0.000	0.000	0.6848	0.000	0.000
17	17	18	1	0.000	0.000	0.6848	0.000	0.000
18	18	19	1	0.000	0.000	0.6848	0.000	0.000
19	19	20	1	0.000	0.000	0.6848	0.000	0.000
20	20	21	1	0.000	0.000	0.6848	0.000	0.000
21	21	22	1	0.000	0.000	0.6848	0.000	0.000
22	22	23	1	0.000	0.000	0.6848	0.000	0.000
23	23	24	1	0.000	0.000	0.6848	0.000	0.000
24	24	25	1	0.000	0.000	0.6848	0.000	0.000
25	25	26	1	0.000	0.000	0.6848	0.000	0.000
26	26	27	1	0.000	0.000	0.6848	0.000	0.000
27	27	28	1	0.000	0.000	0.6848	0.000	0.000
28	28	29	1	0.000	0.000	0.6848	0.000	0.000
29	29	30	1	0.000	0.000	0.6848	0.000	0.000
30	30	31	1	0.000	0.000	0.6848	0.000	0.000
31	31	32	1	0.000	0.000	0.6848	0.000	0.000
32	32	33	1	0.000	0.000	0.6848	0.000	0.000
33	33	34	1	0.000	0.000	0.6848	0.000	0.000
34	34	35	1	0.000	0.000	0.6848	0.000	0.000
35	35	36	1	0.000	0.000	0.6848	0.000	0.000
36	36	37	1	0.000	0.000	0.6848	0.000	0.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
13 di 1221

37	37	38	1	0.000	0.000	0.6848	0.000	0.000
38	38	39	1	0.000	0.000	0.6848	0.000	0.000
39	39	40	1	0.000	0.000	0.6848	0.000	0.000
40	40	41	1	0.000	0.000	0.6848	0.000	0.000
41	41	42	1	0.000	0.000	0.6848	0.000	0.000
42	42	43	1	0.000	0.000	0.6848	0.000	0.000
43	43	44	1	0.000	0.000	0.6848	0.000	0.000
44	44	45	1	0.000	0.000	0.6848	0.000	0.000
45	45	46	1	0.000	0.000	0.6848	0.000	0.000
46	46	47	1	0.000	0.000	0.6848	0.000	0.000
47	47	48	1	0.000	0.000	0.6848	0.000	0.000
48	48	49	1	0.000	0.000	0.6848	0.000	0.000
49	49	50	1	0.000	0.000	0.6848	0.000	0.000
50	50	51	1	0.000	0.000	0.6848	0.000	0.000
51	51	52	1	0.000	0.000	0.6848	0.000	0.000
52	52	53	1	0.000	0.000	0.6848	0.000	0.000
53	53	54	1	0.000	0.000	0.6848	0.000	0.000
54	54	55	1	0.000	0.000	0.6848	0.000	0.000
55	55	56	1	0.000	0.000	0.6848	0.000	0.000
56	56	57	1	0.000	0.000	0.6848	0.000	0.000
57	57	58	1	0.000	0.000	0.6848	0.000	0.000
58	58	59	1	0.000	0.000	0.6848	0.000	0.000
59	59	60	1	0.000	0.000	0.6848	0.000	0.000
60	60	61	1	0.000	0.000	0.6848	0.000	0.000
61	61	62	1	0.000	0.000	0.6848	0.000	0.000
62	62	63	1	0.000	0.000	0.6848	0.000	0.000
63	63	64	1	0.000	0.000	0.6848	0.000	0.000
64	64	65	1	0.000	0.000	0.6848	0.000	0.000
65	65	66	1	0.000	0.000	0.6848	0.000	0.000
66	66	67	1	0.000	0.000	0.6848	0.000	0.000
67	67	68	1	0.000	0.000	0.6848	0.000	0.000
68	68	69	1	0.000	0.000	0.6848	0.000	0.000
69	69	70	1	0.000	0.000	0.6848	0.000	0.000
70	70	71	1	0.000	0.000	0.6848	0.000	0.000
71	71	72	1	0.000	0.000	0.6848	0.000	0.000
72	72	73	1	0.000	0.000	0.6848	0.000	0.000
73	73	74	1	0.000	0.000	0.6848	0.000	0.000
74	74	75	1	0.000	0.000	0.6848	0.000	0.000
75	75	76	1	0.000	0.000	0.6848	0.000	0.000
76	76	77	1	0.000	0.000	0.6848	0.000	0.000
77	77	78	1	0.000	0.000	0.6848	0.000	0.000
78	78	79	1	0.000	0.000	0.6848	0.000	0.000
79	79	80	1	0.000	0.000	0.6848	0.000	0.000
80	80	81	1	0.000	0.000	0.6848	0.000	0.000
81	81	82	1	0.000	0.000	0.6848	0.000	0.000
82	82	83	1	0.000	0.000	0.6848	0.000	0.000
83	83	84	1	0.000	0.000	0.6848	0.000	0.000
84	84	85	1	0.000	0.000	0.6848	0.000	0.000
85	85	86	1	0.000	0.000	0.6848	0.000	0.000
86	86	87	1	0.000	0.000	0.6848	0.000	0.000
87	87	88	1	0.000	0.000	0.6848	0.000	0.000
88	88	89	1	0.000	0.000	0.6848	0.000	0.000
89	89	90	1	0.000	0.000	0.6848	0.000	0.000
90	90	91	1	0.000	0.000	0.6848	0.000	0.000

```

-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                     |
|                                                                                                     |
|          NewProject.BaseDesignSection_28.Nominal_63                                             |
|          Exe Time :29 July 2019      17:58:38                                                    |
|                                                                                                     |
-----

```

```

ELEMENT GROUP NO.  4

Tirantel_429      :
6 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0
.....
.....2D POST-TENSION ANCHOR....
.....

element group behaviour throughout stage analysis

stage  status
-----
1  inactive
2  inactive
3  active
4  active
5  active
6  active

material set no.  1

```




Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 14 di 1221
---------	------------------	-------------	---	-----------	----------------------

```
prop( 1) angle          15.0000
prop( 2) young modulus  0.200100E+09
prop( 3) modification time 0.000000
prop( 4) new young modulus 0.000000
```

```
no. of step variable items: 2
step  -ve lim  +ve lim
```

step	-ve lim	+ve lim
1	0.000	0.000
2	0.000	0.000
3	0.000	0.000
4	0.000	0.000
5	0.000	0.000
6	0.000	0.000

element data

el	n	mat	a/l	pinit	yieldc	yieldt
1	16	1	0.1316E-04	93.94	0.000	0.000

```
-----+-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019   17:58:38                               |
|-----+-----
```

ELEMENT GROUP NO. 5

```
Tirante2_1507      :
6  1  0  1  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  2  0
```

.....2D POST-TENSION ANCHOR.....

element group behaviour throughout stage analysis

stage	status
1	inactive
2	inactive
3	inactive
4	inactive
5	active
6	active

material set no. 1

```
prop( 1) angle          15.0000
prop( 2) young modulus  0.200100E+09
prop( 3) modification time 0.000000
prop( 4) new young modulus 0.000000
```

```
no. of step variable items: 2
step  -ve lim  +ve lim
```

step	-ve lim	+ve lim
1	0.000	0.000
2	0.000	0.000
3	0.000	0.000
4	0.000	0.000
5	0.000	0.000
6	0.000	0.000

element data

el	n	mat	a/l	pinit	yieldc	yieldt
1	42	1	0.2106E-04	166.7	0.000	0.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
15 di 1221

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63 |
|          Exe Time :29 July 2019      17:58:38      |
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```

```

NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 12
MAXIMUM POINTS/LCURVE (NPTM)..... 5

```

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63 |
|          Exe Time :29 July 2019      17:58:38      |
+-----+

```

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
7.00000        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
7.00000        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
7.00000        0.0000E+00

```

```

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

```

```

TIME VALUE        FUNCTION
0.00000        0.0000E+00
3.80000        0.0000E+00
4.00000        0.1000E+01
4.20000        0.0000E+00
7.00000        0.0000E+00

```

```

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 5

```

```

TIME VALUE        FUNCTION

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
16 di 1221

0.00000 0.0000E+00
4.80000 0.0000E+00
5.00000 0.1000E+01
5.20000 0.0000E+00
7.00000 0.0000E+00

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 5

TIME VALUE FUNCTION

0.00000 0.0000E+00
5.80000 0.0000E+00
6.00000 0.1000E+01
6.20000 0.0000E+00
7.00000 0.0000E+00

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000 0.0000E+00
0.80000 0.0000E+00
1.00000 0.1000E+01
7.00000 0.1000E+01

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000 0.0000E+00
1.80000 0.0000E+00
2.00000 0.1000E+01
7.00000 0.1000E+01

LOAD FUNCTION NUMBER = 9
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000 0.0000E+00
2.80000 0.0000E+00
3.00000 0.1000E+01
7.00000 0.1000E+01

LOAD FUNCTION NUMBER = 10
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000 0.0000E+00
3.80000 0.0000E+00
4.00000 0.1000E+01
7.00000 0.1000E+01

LOAD FUNCTION NUMBER = 11
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000 0.0000E+00
4.80000 0.0000E+00
5.00000 0.1000E+01
7.00000 0.1000E+01

LOAD FUNCTION NUMBER = 12
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 17 di 1221
---------	------------------	-------------	---	-----------	----------------------

0.00000 0.0000E+00
 5.80000 0.0000E+00
 6.00000 0.1000E+01
 7.00000 0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63 |
|          Exe Time :29 July 2019      17:58:38      |
+-----+

```

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
STEP	4	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	4	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	6	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	6	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63 |
|          Exe Time :29 July 2019      17:58:38      |
+-----+

```

NO. OF LAYERS 2
 NO. OF DATA PER LAYER..... 100

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63 |
|          Exe Time :29 July 2019      17:58:38      |
+-----+

```

LAYER DESCRIPTORS FOR STEP NO. 1

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

ITEM NO.	1<NAME	>= 16.000	(BOTH WALLS)
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)
ITEM NO.	3<LEVEL	>= 0.0000	(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.	9<U-FRICT	>= 29.000	(BOTH WALLS)
ITEM NO.	10<U-KA	>= 0.30400	WALL NO. 1
ITEM NO.	11<U-KP	>= 4.0410	WALL NO. 1
ITEM NO.	12<K0-NC	>= 0.53000	(BOTH WALLS)
ITEM NO.	13<NEXP	>= 1.0000	(BOTH WALLS)
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)
ITEM NO.	17<EVC	>= 20000.	(BOTH WALLS)

GENERAL CONTRACTOR



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GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 18 di 1221
---------	------------------	-------------	---	-----------	----------------------

ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.600 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.600 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 19 di 1221
---------	------------------	-------------	---	-----------	----------------------

ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.600 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 20 di 1221
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ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.600 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 5

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 5

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.600 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 21 di 1221
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ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 6

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 6

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 6

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.600 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 12 VALUES



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 22 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019  17:58:38  |
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PHASE DESCRIPTORS

STEP NO.	1	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-3.500	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
23 di 1221

=====end of step 2

STEP NO.	3	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-3.500	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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

STEP NO.	4	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-8.700	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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 4

STEP NO.	5	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-8.700	0.000

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 24 di 1221
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Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	10.00	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-9.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-18.00	-18.00
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 5

STEP NO.	6		
		LEFT WALL	RIGHT WALL
Y	0.000	0.000	-0.9990E+30
Z-PC	0.000	0.000	0.000
Z-EXCAVATION	-12.60	0.000	
Z-WATER_TABLE	-26.00	-0.9990E+30	
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000	
ZQ	0.000	0.000	
DZW_OF_THE_WATER_TABLE	0.000	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	-18.00	-18.00	
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 6

LEFT-HAND WALL

LOWER LEVEL	-18.00000
UPPER LEVEL	0.00000

RIGHT-HAND WALL

LOWER LEVEL	-18.00000
UPPER LEVEL	0.00000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
25 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      17:58:38                             |
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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 2

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

ACTIVATION TIME 2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 6.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 0.0000000000000000E+000
FOUNDATION WIDTH (B) 40.000000000000000
ZETA-F..... 0.0000000000000000E+000
Q-F 15.200000000000000
BETA 45.000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.0000000000000000E+000

INPUT DATA FOR INITIAL STRESS SET NO. 2
PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

ACTIVATION TIME 2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 6.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 0.0000000000000000E+000
FOUNDATION WIDTH (B) 40.000000000000000
ZETA-F..... 0.0000000000000000E+000
Q-F 10.000000000000000
BETA 30.000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.0000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION 4412

NO. OF D.P.W FOR THIS AREA 10847
MAX NO. OF D.P.W. AVAILABLE 81920
** MAX NO OF ITERATIONS SET TO 100

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ITER    0  RNORM = 0.000    RMNORM= 0.000
         RINORM=0.7339E+05 RIMNOR= 0.000
         RENORM= 0.000    REMNOR= 0.000    RATIO = 0.000    TOLER =0.1000E-03    CONVERGED !
         RFMAX = 34.34    RMMAX = 0.000
         RTSMAL=0.1000E-03 RMSMAL= 0.000
         RDT =0.7339E+05 RDR = 0.000
         RATIOT= 0.000    RATIOR= 0.000
         MAX UN= 0.000    IEQ= 182 NODE    91 DOF    2    X-ROT. F
         MIN UN= 0.000    IEQ= 1 NODE        1 DOF    1    Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    1  RNORM = 0.000    RMNORM= 0.000
         RINORM=0.7339E+05 RIMNOR= 0.000
         RENORM= 0.000    REMNOR= 0.000    RATIO = 0.000    TOLER =0.1000E-03    CONVERGED !
         RFMAX = 34.34    RMMAX = 0.000
         RTSMAL=0.1000E-03 RMSMAL= 0.000
         RDT =0.7339E+05 RDR = 0.000
         RATIOT= 0.000    RATIOR= 0.000
         MAX UN= 0.000    IEQ= 182 NODE    91 DOF    2    X-ROT. F
         MIN UN= 0.000    IEQ= 1 NODE        1 DOF    1    Y-DISPL.F
         NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    2  RNORM = 0.000    RMNORM= 0.000
         RINORM=0.7339E+05 RIMNOR= 0.000
         RENORM= 0.000    REMNOR= 0.000    RATIO = 0.000    TOLER =0.1000E-03    CONVERGED !
         RFMAX = 34.34    RMMAX = 0.000
         RTSMAL=0.1000E-03 RMSMAL= 0.000
         RDT =0.7339E+05 RDR = 0.000

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 27 di 1221						
20 D	7.653	0.000	72.20 38.27	72.20	38.27	V-C	1.4147E+04	-3.800	0.000	1.000	1.000
38.27	0.000	0.000	Stratol_2_8_L_0								
21 D	8.056	0.000	76.00 40.28	76.00	40.28	V-C	1.4147E+04	-4.000	0.000	1.000	1.000
40.28	0.000	0.000	Stratol_2_8_L_0								
22 D	8.459	0.000	79.80 42.29	79.80	42.29	V-C	1.4147E+04	-4.200	0.000	1.000	1.000
42.29	0.000	0.000	Stratol_2_8_L_0								
23 D	8.862	0.000	83.60 44.31	83.60	44.31	V-C	1.4147E+04	-4.400	0.000	1.000	1.000
44.31	0.000	0.000	Stratol_2_8_L_0								
24 D	9.264	0.000	87.40 46.32	87.40	46.32	V-C	1.4147E+04	-4.600	0.000	1.000	1.000
46.32	0.000	0.000	Stratol_2_8_L_0								
25 D	9.667	0.000	91.20 48.34	91.20	48.34	V-C	1.4147E+04	-4.800	0.000	1.000	1.000
48.34	0.000	0.000	Stratol_2_8_L_0								
26 D	10.07	0.000	95.00 50.35	95.00	50.35	V-C	1.4147E+04	-5.000	0.000	1.000	1.000
50.35	0.000	0.000	Stratol_2_8_L_0								
27 D	10.47	0.000	98.80 52.36	98.80	52.36	V-C	1.4147E+04	-5.200	0.000	1.000	1.000
52.36	0.000	0.000	Stratol_2_8_L_0								
28 D	10.88	0.000	102.6 54.38	102.6	54.38	V-C	1.4147E+04	-5.400	0.000	1.000	1.000
54.38	0.000	0.000	Stratol_2_8_L_0								
29 D	11.28	0.000	106.4 56.39	106.4	56.39	V-C	1.4147E+04	-5.600	0.000	1.000	1.000
56.39	0.000	0.000	Stratol_2_8_L_0								
30 D	11.68	0.000	110.2 58.41	110.2	58.41	V-C	1.4147E+04	-5.800	0.000	1.000	1.000
58.41	0.000	0.000	Stratol_2_8_L_0								
31 D	12.08	0.000	114.0 60.42	114.0	60.42	V-C	1.4147E+04	-6.000	0.000	1.000	1.000
60.42	0.000	0.000	Stratol_2_8_L_0								
32 D	12.49	0.000	117.8 62.43	117.8	62.43	V-C	1.4147E+04	-6.200	0.000	1.000	1.000
62.43	0.000	0.000	Stratol_2_8_L_0								
33 D	12.89	0.000	121.6 64.45	121.6	64.45	V-C	1.4147E+04	-6.400	0.000	1.000	1.000
64.45	0.000	0.000	Stratol_2_8_L_0								
34 D	13.29	0.000	125.4 66.46	125.4	66.46	V-C	1.4147E+04	-6.600	0.000	1.000	1.000
66.46	0.000	0.000	Stratol_2_8_L_0								
35 D	13.70	0.000	129.2 68.48	129.2	68.48	V-C	1.4147E+04	-6.800	0.000	1.000	1.000
68.48	0.000	0.000	Stratol_2_8_L_0								
36 D	14.10	0.000	133.0 70.49	133.0	70.49	V-C	1.4147E+04	-7.000	0.000	1.000	1.000
70.49	0.000	0.000	Stratol_2_8_L_0								
37 D	14.50	0.000	136.8 72.50	136.8	72.50	V-C	1.4147E+04	-7.200	0.000	1.000	1.000
72.50	0.000	0.000	Stratol_2_8_L_0								
38 D	14.90	0.000	140.6 74.52	140.6	74.52	V-C	1.4147E+04	-7.400	0.000	1.000	1.000
74.52	0.000	0.000	Stratol_2_8_L_0								
39 D	15.31	0.000	144.4 76.53	144.4	76.53	V-C	1.4147E+04	-7.600	0.000	1.000	1.000
76.53	0.000	0.000	Stratol_2_8_L_0								
40 D	15.71	0.000	148.2 78.55	148.2	78.55	V-C	1.4147E+04	-7.800	0.000	1.000	1.000
78.55	0.000	0.000	Stratol_2_8_L_0								
41 D	16.11	0.000	152.0 80.56	152.0	80.56	V-C	1.4147E+04	-8.000	0.000	1.000	1.000
80.56	0.000	0.000	Stratol_2_8_L_0								
42 D	16.51	0.000	155.8 82.57	155.8	82.57	V-C	1.4147E+04	-8.200	0.000	1.000	1.000
82.57	0.000	0.000	Stratol_2_8_L_0								
43 D	16.92	0.000	159.6 84.59	159.6	84.59	V-C	1.4147E+04	-8.400	0.000	1.000	1.000
84.59	0.000	0.000	Stratol_2_8_L_0								
44 D	17.32	0.000	163.4 86.60	163.4	86.60	V-C	1.4147E+04	-8.600	0.000	1.000	1.000
86.60	0.000	0.000	Stratol_2_8_L_0								
45 D	17.72	0.000	167.2 88.62	167.2	88.62	V-C	1.4147E+04	-8.800	0.000	1.000	1.000
88.62	0.000	0.000	Stratol_2_8_L_0								
46 D	18.13	0.000	171.0 90.63	171.0	90.63	V-C	1.4147E+04	-9.000	0.000	1.000	1.000
90.63	0.000	0.000	Stratol_2_8_L_0								
47 D	18.53	0.000	174.8 92.64	174.8	92.64	V-C	1.4147E+04	-9.200	0.000	1.000	1.000
92.64	0.000	0.000	Stratol_2_8_L_0								
48 D	18.93	0.000	178.6 94.66	178.6	94.66	V-C	1.4147E+04	-9.400	0.000	1.000	1.000
94.66	0.000	0.000	Stratol_2_8_L_0								
49 D	19.33	0.000	182.4 96.67	182.4	96.67	V-C	1.4147E+04	-9.600	0.000	1.000	1.000
96.67	0.000	0.000	Stratol_2_8_L_0								
50 D	19.74	0.000	186.2 98.69	186.2	98.69	V-C	1.4147E+04	-9.800	0.000	1.000	1.000
98.69	0.000	0.000	Stratol_2_8_L_0								
51 D	20.14	0.000	190.0 100.7	190.0	100.7	V-C	1.4147E+04	-10.00	0.000	1.000	1.000
100.7	0.000	0.000	Stratol_2_8_L_0								
52 D	20.54	0.000	193.8 102.7	193.8	102.7	V-C	1.4147E+04	-10.20	0.000	1.000	1.000
102.7	0.000	0.000	Stratol_2_8_L_0								
53 D	20.95	0.000	197.6 104.7	197.6	104.7	V-C	1.4147E+04	-10.40	0.000	1.000	1.000
104.7	0.000	0.000	Stratol_2_8_L_0								
54 D	21.35	0.000	201.4 106.7	201.4	106.7	V-C	1.4147E+04	-10.60	0.000	1.000	1.000
106.7	0.000	0.000	Stratol_2_8_L_0								
55 D	21.75	0.000	205.2 108.8	205.2	108.8	V-C	1.4147E+04	-10.80	0.000	1.000	1.000
108.8	0.000	0.000	Stratol_2_8_L_0								
56 D	22.15	0.000	209.0 110.8	209.0	110.8	V-C	1.4147E+04	-11.00	0.000	1.000	1.000
110.8	0.000	0.000	Stratol_2_8_L_0								
57 D	22.56	0.000	212.8 112.8	212.8	112.8	V-C	1.4147E+04	-11.20	0.000	1.000	1.000
112.8	0.000	0.000	Stratol_2_8_L_0								
58 D	22.96	0.000	216.6 114.8	216.6	114.8	V-C	1.4147E+04	-11.40	0.000	1.000	1.000
114.8	0.000	0.000	Stratol_2_8_L_0								
59 D	23.36	0.000	220.4 116.8	220.4	116.8	V-C	1.4147E+04	-11.60	0.000	1.000	1.000
116.8	0.000	0.000	Stratol_2_8_L_0								
60 D	23.77	0.000	224.2 118.8	224.2	118.8	V-C	1.4147E+04	-11.80	0.000	1.000	1.000
118.8	0.000	0.000	Stratol_2_8_L_0								
61 D	24.17	0.000	228.0 120.8	228.0	120.8	V-C	1.4147E+04	-12.00	0.000	1.000	1.000
120.8	0.000	0.000	Stratol_2_8_L_0								
62 D	24.57	0.000	231.8 122.9	231.8	122.9	V-C	1.4147E+04	-12.20	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 30 di 1221						
43 D	16.92	0.000	159.6 84.59	159.6	84.59	V-C	9817.	-8.400	0.000	1.000	1.000
84.59	0.000	0.000	Strato1_2_8_L_0								
44 D	17.32	0.000	163.4 86.60	163.4	86.60	V-C	9817.	-8.600	0.000	1.000	1.000
86.60	0.000	0.000	Strato1_2_8_L_0								
45 D	17.72	0.000	167.2 88.62	167.2	88.62	V-C	9817.	-8.800	0.000	1.000	1.000
88.62	0.000	0.000	Strato1_2_8_L_0								
46 D	18.13	0.000	171.0 90.63	171.0	90.63	V-C	9817.	-9.000	0.000	1.000	1.000
90.63	0.000	0.000	Strato1_2_8_L_0								
47 D	18.53	0.000	174.8 92.64	174.8	92.64	V-C	9817.	-9.200	0.000	1.000	1.000
92.64	0.000	0.000	Strato1_2_8_L_0								
48 D	18.93	0.000	178.6 94.66	178.6	94.66	V-C	9817.	-9.400	0.000	1.000	1.000
94.66	0.000	0.000	Strato1_2_8_L_0								
49 D	19.33	0.000	182.4 96.67	182.4	96.67	V-C	9817.	-9.600	0.000	1.000	1.000
96.67	0.000	0.000	Strato1_2_8_L_0								
50 D	19.74	0.000	186.2 98.69	186.2	98.69	V-C	9817.	-9.800	0.000	1.000	1.000
98.69	0.000	0.000	Strato1_2_8_L_0								
51 D	20.14	0.000	190.0 100.7	190.0	100.7	V-C	9817.	-10.00	0.000	1.000	1.000
100.7	0.000	0.000	Strato1_2_8_L_0								
52 D	20.54	0.000	193.8 102.7	193.8	102.7	V-C	9817.	-10.20	0.000	1.000	1.000
102.7	0.000	0.000	Strato1_2_8_L_0								
53 D	20.95	0.000	197.6 104.7	197.6	104.7	V-C	9817.	-10.40	0.000	1.000	1.000
104.7	0.000	0.000	Strato1_2_8_L_0								
54 D	21.35	0.000	201.4 106.7	201.4	106.7	V-C	9817.	-10.60	0.000	1.000	1.000
106.7	0.000	0.000	Strato1_2_8_L_0								
55 D	21.75	0.000	205.2 108.8	205.2	108.8	V-C	9817.	-10.80	0.000	1.000	1.000
108.8	0.000	0.000	Strato1_2_8_L_0								
56 D	22.15	0.000	209.0 110.8	209.0	110.8	V-C	9817.	-11.00	0.000	1.000	1.000
110.8	0.000	0.000	Strato1_2_8_L_0								
57 D	22.56	0.000	212.8 112.8	212.8	112.8	V-C	9817.	-11.20	0.000	1.000	1.000
112.8	0.000	0.000	Strato1_2_8_L_0								
58 D	22.96	0.000	216.6 114.8	216.6	114.8	V-C	9817.	-11.40	0.000	1.000	1.000
114.8	0.000	0.000	Strato1_2_8_L_0								
59 D	23.36	0.000	220.4 116.8	220.4	116.8	V-C	9817.	-11.60	0.000	1.000	1.000
116.8	0.000	0.000	Strato1_2_8_L_0								
60 D	23.77	0.000	224.2 118.8	224.2	118.8	V-C	9817.	-11.80	0.000	1.000	1.000
118.8	0.000	0.000	Strato1_2_8_L_0								
61 D	24.17	0.000	228.0 120.8	228.0	120.8	V-C	9817.	-12.00	0.000	1.000	1.000
120.8	0.000	0.000	Strato1_2_8_L_0								
62 D	24.57	0.000	231.8 122.9	231.8	122.9	V-C	9817.	-12.20	0.000	1.000	1.000
122.9	0.000	0.000	Strato1_2_8_L_0								
63 D	24.97	0.000	235.6 124.9	235.6	124.9	V-C	9817.	-12.40	0.000	1.000	1.000
124.9	0.000	0.000	Strato1_2_8_L_0								
64 D	23.94	0.000	239.4 119.7	239.4	119.7	V-C	2.1690E+04	-12.60	0.000	1.000	1.000
119.7	0.000	0.000	Strato2_3095_82743_L_0								
65 D	24.34	0.000	243.4 121.7	243.4	121.7	V-C	2.1690E+04	-12.80	0.000	1.000	1.000
121.7	0.000	0.000	Strato2_3095_82743_L_0								
66 D	24.74	0.000	247.4 123.7	247.4	123.7	V-C	2.1690E+04	-13.00	0.000	1.000	1.000
123.7	0.000	0.000	Strato2_3095_82743_L_0								
67 D	25.14	0.000	251.4 125.7	251.4	125.7	V-C	2.1690E+04	-13.20	0.000	1.000	1.000
125.7	0.000	0.000	Strato2_3095_82743_L_0								
68 D	25.54	0.000	255.4 127.7	255.4	127.7	V-C	2.1690E+04	-13.40	0.000	1.000	1.000
127.7	0.000	0.000	Strato2_3095_82743_L_0								
69 D	25.94	0.000	259.4 129.7	259.4	129.7	V-C	2.1690E+04	-13.60	0.000	1.000	1.000
129.7	0.000	0.000	Strato2_3095_82743_L_0								
70 D	26.34	0.000	263.4 131.7	263.4	131.7	V-C	2.1690E+04	-13.80	0.000	1.000	1.000
131.7	0.000	0.000	Strato2_3095_82743_L_0								
71 D	26.74	0.000	267.4 133.7	267.4	133.7	V-C	2.1690E+04	-14.00	0.000	1.000	1.000
133.7	0.000	0.000	Strato2_3095_82743_L_0								
72 D	27.14	0.000	271.4 135.7	271.4	135.7	V-C	2.1690E+04	-14.20	0.000	1.000	1.000
135.7	0.000	0.000	Strato2_3095_82743_L_0								
73 D	27.54	0.000	275.4 137.7	275.4	137.7	V-C	2.1690E+04	-14.40	0.000	1.000	1.000
137.7	0.000	0.000	Strato2_3095_82743_L_0								
74 D	27.94	0.000	279.4 139.7	279.4	139.7	V-C	2.1690E+04	-14.60	0.000	1.000	1.000
139.7	0.000	0.000	Strato2_3095_82743_L_0								
75 D	28.34	0.000	283.4 141.7	283.4	141.7	V-C	2.1690E+04	-14.80	0.000	1.000	1.000
141.7	0.000	0.000	Strato2_3095_82743_L_0								
76 D	28.74	0.000	287.4 143.7	287.4	143.7	V-C	2.1690E+04	-15.00	0.000	1.000	1.000
143.7	0.000	0.000	Strato2_3095_82743_L_0								
77 D	29.14	0.000	291.4 145.7	291.4	145.7	V-C	2.1690E+04	-15.20	0.000	1.000	1.000
145.7	0.000	0.000	Strato2_3095_82743_L_0								
78 D	29.54	0.000	295.4 147.7	295.4	147.7	V-C	2.1690E+04	-15.40	0.000	1.000	1.000
147.7	0.000	0.000	Strato2_3095_82743_L_0								
79 D	29.94	0.000	299.4 149.7	299.4	149.7	V-C	2.1690E+04	-15.60	0.000	1.000	1.000
149.7	0.000	0.000	Strato2_3095_82743_L_0								
80 D	30.34	0.000	303.4 151.7	303.4	151.7	V-C	2.1690E+04	-15.80	0.000	1.000	1.000
151.7	0.000	0.000	Strato2_3095_82743_L_0								
81 D	30.74	0.000	307.4 153.7	307.4	153.7	V-C	2.1690E+04	-16.00	0.000	1.000	1.000
153.7	0.000	0.000	Strato2_3095_82743_L_0								
82 D	31.14	0.000	311.4 155.7	311.4	155.7	V-C	2.1690E+04	-16.20	0.000	1.000	1.000
155.7	0.000	0.000	Strato2_3095_82743_L_0								
83 D	31.54	0.000	315.4 157.7	315.4	157.7	V-C	2.1690E+04	-16.40	0.000	1.000	1.000
157.7	0.000	0.000	Strato2_3095_82743_L_0								
84 D	31.94	0.000	319.4 159.7	319.4	159.7	V-C	2.1690E+04	-16.60	0.000	1.000	1.000
159.7	0.000	0.000	Strato2_3095_82743_L_0								
85 D	32.34	0.000	323.4 161.7	323.4	161.7	V-C	2.1690E+04	-16.80	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 31 di 1221
161.7	0.000	0.000	Strato2_3095_82743_L_0		
86 D	32.74	0.000	327.4 163.7	327.4	163.7
163.7	0.000	0.000	Strato2_3095_82743_L_0		
87 D	33.14	0.000	331.4 165.7	331.4	165.7
165.7	0.000	0.000	Strato2_3095_82743_L_0		
88 D	33.54	0.000	335.4 167.7	335.4	167.7
167.7	0.000	0.000	Strato2_3095_82743_L_0		
89 D	33.94	0.000	339.4 169.7	339.4	169.7
169.7	0.000	0.000	Strato2_3095_82743_L_0		
90 D	34.34	0.000	343.4 171.7	343.4	171.7
171.7	0.000	0.000	Strato2_3095_82743_L_0		
91 D	17.37	0.000	347.4 173.7	347.4	173.7
173.7	0.000	0.000	Strato2_3095_82743_L_0		

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|           PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017*   |
|                                                                           |
|           NewProject.BaseDesignSection_28.Nominal_63   |
|           Exe Time :29 July 2019   17:58:38   |
|                                                                           |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000
31	0.0000	0.0000	0.0000	0.0000
32	0.0000	0.0000	0.0000	0.0000
33	0.0000	0.0000	0.0000	0.0000
34	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000
36	0.0000	0.0000	0.0000	0.0000
37	0.0000	0.0000	0.0000	0.0000
38	0.0000	0.0000	0.0000	0.0000
39	0.0000	0.0000	0.0000	0.0000
40	0.0000	0.0000	0.0000	0.0000
41	0.0000	0.0000	0.0000	0.0000
42	0.0000	0.0000	0.0000	0.0000
43	0.0000	0.0000	0.0000	0.0000
44	0.0000	0.0000	0.0000	0.0000
45	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000
47	0.0000	0.0000	0.0000	0.0000
48	0.0000	0.0000	0.0000	0.0000
49	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 32 di 1221
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50	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	0.0000	0.0000
52	0.0000	0.0000	0.0000	0.0000
53	0.0000	0.0000	0.0000	0.0000
54	0.0000	0.0000	0.0000	0.0000
55	0.0000	0.0000	0.0000	0.0000
56	0.0000	0.0000	0.0000	0.0000
57	0.0000	0.0000	0.0000	0.0000
58	0.0000	0.0000	0.0000	0.0000
59	0.0000	0.0000	0.0000	0.0000
60	0.0000	0.0000	0.0000	0.0000
61	0.0000	0.0000	0.0000	0.0000
62	0.0000	0.0000	0.0000	0.0000
63	0.0000	0.0000	0.0000	0.0000
64	0.0000	0.0000	0.0000	0.0000
65	0.0000	0.0000	0.0000	0.0000
66	0.0000	0.0000	0.0000	0.0000
67	0.0000	0.0000	0.0000	0.0000
68	0.0000	0.0000	0.0000	0.0000
69	0.0000	0.0000	0.0000	0.0000
70	0.0000	0.0000	0.0000	0.0000
71	0.0000	0.0000	0.0000	0.0000
72	0.0000	0.0000	0.0000	0.0000
73	0.0000	0.0000	0.0000	0.0000
74	0.0000	0.0000	0.0000	0.0000
75	0.0000	0.0000	0.0000	0.0000
76	0.0000	0.0000	0.0000	0.0000
77	0.0000	0.0000	0.0000	0.0000
78	0.0000	0.0000	0.0000	0.0000
79	0.0000	0.0000	0.0000	0.0000
80	0.0000	0.0000	0.0000	0.0000
81	0.0000	0.0000	0.0000	0.0000
82	0.0000	0.0000	0.0000	0.0000
83	0.0000	0.0000	0.0000	0.0000
84	0.0000	0.0000	0.0000	0.0000
85	0.0000	0.0000	0.0000	0.0000
86	0.0000	0.0000	0.0000	0.0000
87	0.0000	0.0000	0.0000	0.0000
88	0.0000	0.0000	0.0000	0.0000
89	0.0000	0.0000	0.0000	0.0000
90	0.0000	0.0000	0.0000	0.0000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019      17:58:38        |
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New Project

STRESS RESULTS FOR GROUP NO. 4

```

Tirantel_429      :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
CURRENT TIME IS  1.0000

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POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019      17:58:38        |
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New Project

STRESS RESULTS FOR GROUP NO. 5

```

Tirante2_1507    :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
CURRENT TIME IS  1.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
33 di 1221

EL FORCE d0 EDISPL pl. eps K -ve limit +ve limit

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

ITER 0 RNORM = 0.000      RMNORM= 0.000
      RINORM=0.7367E+05 RIMNOR= 0.000
      RENORM= 1557.      REMNOR= 0.000      RATIO =0.1454      TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 36.09      RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =0.7367E+05 RDR = 0.000
      RATIOT=0.1454      RATIO= 0.000
      MAX UN= 8.691      IEQ= 35 NODE      18 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=0.7367E+05 RIMNOR= 0.000
      RENORM= 103.3      REMNOR=0.2133E-19 RATIO =0.3745E-01 TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 36.09      RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =0.7367E+05 RDR = 0.000
      RATIOT=0.3745E-01 RATIO= 0.000
      MAX UN= 4.055      IEQ= 3 NODE      2 DOF 1 Y-DISPL.F
      MIN UN=-.2147E-09 IEQ= 165 NODE 83 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000      RMNORM= 0.000
      RINORM=0.7367E+05 RIMNOR= 0.000
      RENORM= 114.5      REMNOR=0.1578E-18 RATIO =0.3942E-01 TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 36.09      RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =0.7367E+05 RDR = 0.000
      RATIOT=0.3942E-01 RATIO= 0.000
      MAX UN= 6.019      IEQ= 37 NODE      19 DOF 1 Y-DISPL.F
      MIN UN=-.3039E-08 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000      RMNORM= 0.000
      RINORM=0.7367E+05 RIMNOR= 0.000
      RENORM= 10.34      REMNOR=0.6492E-19 RATIO =0.1185E-01 TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 36.09      RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =0.7367E+05 RDR = 0.000
      RATIOT=0.1185E-01 RATIO= 0.000
      MAX UN= 2.465      IEQ= 55 NODE      28 DOF 1 Y-DISPL.F
      MIN UN=-.2143E-08 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000      RMNORM= 0.000
      RINORM=0.7367E+05 RIMNOR= 0.000
      RENORM=0.5334E-02 REMNOR=0.5492E-19 RATIO =0.2691E-03 TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 36.09      RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =0.7367E+05 RDR = 0.000
      RATIOT=0.2691E-03 RATIO= 0.000
      MAX UN=0.7279E-01 IEQ= 87 NODE      44 DOF 1 Y-DISPL.F
      MIN UN=-.7813E-09 IEQ= 53 NODE      27 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000      RMNORM= 0.000
      RINORM=0.7367E+05 RIMNOR= 0.000
      RENORM=0.1577E-16 REMNOR=0.5331E-19 RATIO =0.1463E-10 TOLER =0.1000E-03 CONVERGED !
      RFMAX = 36.09      RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =0.7367E+05 RDR = 0.000
      RATIOT=0.1463E-10 RATIO= 0.000
      MAX UN=0.1705E-08 IEQ= 19 NODE      10 DOF 1 Y-DISPL.F
      MIN UN=-.1694E-08 IEQ= 17 NODE      9 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
34 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019  17:58:38                               |
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New Project
SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	7.6712020E-03	-1.1433850E-03	
2	7.4425262E-03	-1.1433668E-03	
3	7.2138595E-03	-1.1432844E-03	
4	6.9852206E-03	-1.1430789E-03	
5	6.7566410E-03	-1.1426778E-03	
6	6.5281682E-03	-1.1419953E-03	
7	6.2998681E-03	-1.1409337E-03	
8	6.0718273E-03	-1.1393835E-03	
9	5.8441554E-03	-1.1372237E-03	
10	5.6169872E-03	-1.1343230E-03	
11	5.3904850E-03	-1.1305398E-03	
12	5.1648404E-03	-1.1257208E-03	
13	4.9402767E-03	-1.1197017E-03	
14	4.7170514E-03	-1.1123068E-03	
15	4.4954581E-03	-1.1033491E-03	
16	4.2758291E-03	-1.0926306E-03	
17	4.0585372E-03	-1.0799426E-03	
18	3.8439980E-03	-1.0650657E-03	
19	3.6326722E-03	-1.0477696E-03	
20	3.4250652E-03	-1.0278490E-03	
21	3.2217147E-03	-1.0051969E-03	
22	3.0231666E-03	-9.7984122E-04	
23	2.8299476E-03	-9.5194436E-04	
24	2.6425427E-03	-9.2175384E-04	
25	2.4613823E-03	-8.8953410E-04	
26	2.2868468E-03	-8.5554955E-04	
27	2.1192626E-03	-8.2006400E-04	
28	1.9589036E-03	-7.8334109E-04	
29	1.8059918E-03	-7.4564485E-04	
30	1.6606938E-03	-7.0723929E-04	
31	1.5231257E-03	-6.6838990E-04	
32	1.3933496E-03	-6.2936355E-04	
33	1.2713742E-03	-5.9042838E-04	
34	1.1571553E-03	-5.5183737E-04	
35	1.0506019E-03	-5.1381341E-04	
36	9.5157974E-04	-4.7655052E-04	
37	8.5991977E-04	-4.4021694E-04	
38	7.7542144E-04	-4.0495623E-04	
39	6.9785769E-04	-3.7088940E-04	
40	6.2697972E-04	-3.3811717E-04	
41	5.6251943E-04	-3.0672113E-04	
42	5.0419410E-04	-2.7676537E-04	
43	4.5171275E-04	-2.4829982E-04	
44	4.0477279E-04	-2.2135848E-04	
45	3.6306656E-04	-1.9596279E-04	
46	3.2628394E-04	-1.7212318E-04	
47	2.9411359E-04	-1.4983894E-04	
48	2.6624545E-04	-1.2909837E-04	
49	2.4237289E-04	-1.0987989E-04	
50	2.2219417E-04	-9.2153092E-05	
51	2.0541470E-04	-7.5880593E-05	
52	1.9174776E-04	-6.1018706E-05	
53	1.8091625E-04	-4.7519236E-05	
54	1.7265275E-04	-3.5329578E-05	
55	1.6670078E-04	-2.4394525E-05	
56	1.6281511E-04	-1.4656916E-05	
57	1.6076209E-04	-6.0581132E-06	
58	1.6031991E-04	1.4613498E-06	
59	1.6127865E-04	7.9611786E-06	
60	1.6344037E-04	1.3500820E-05	
61	1.6661889E-04	1.8139015E-05	
62	1.7063970E-04	2.1933195E-05	
63	1.7533962E-04	2.4939168E-05	
64	1.8056644E-04	2.7211118E-05	
65	1.8617991E-04	2.8820719E-05	
66	1.9205640E-04	2.9855399E-05	
67	1.9808921E-04	3.0397206E-05	

GENERAL CONTRACTOR



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GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 36 di 1221							
18 D	4.985	-3.8440E-03	81.99	24.92	81.99	43.45	ACTIVE	0.000	-3.400	0.000	1.000	1.000
24.92	0.000	0.000	Stratol_2_8_L_0									
19 D	5.194	-3.6327E-03	85.43	25.97	85.43	45.28	ACTIVE	0.000	-3.600	0.000	1.000	1.000
25.97	0.000	0.000	Stratol_2_8_L_0									
20 D	5.452	-3.4251E-03	89.67	27.26	89.67	47.53	ACTIVE	0.000	-3.800	0.000	1.000	1.000
27.26	0.000	0.000	Stratol_2_8_L_0									
21 D	5.663	-3.2217E-03	93.15	28.32	93.15	49.37	ACTIVE	0.000	-4.000	0.000	1.000	1.000
28.32	0.000	0.000	Stratol_2_8_L_0									
22 D	5.919	-3.0232E-03	97.35	29.59	97.35	51.59	ACTIVE	0.000	-4.200	0.000	1.000	1.000
29.59	0.000	0.000	Stratol_2_8_L_0									
23 D	6.131	-2.8299E-03	100.8	30.66	100.8	53.45	ACTIVE	0.000	-4.400	0.000	1.000	1.000
30.66	0.000	0.000	Stratol_2_8_L_0									
24 D	6.369	-2.6425E-03	104.8	31.85	104.8	55.52	ACTIVE	0.000	-4.600	0.000	1.000	1.000
31.85	0.000	0.000	Stratol_2_8_L_0									
25 D	6.584	-2.4614E-03	108.3	32.92	108.3	57.39	ACTIVE	0.000	-4.800	0.000	1.000	1.000
32.92	0.000	0.000	Stratol_2_8_L_0									
26 D	6.836	-2.2868E-03	112.4	34.18	112.4	59.59	ACTIVE	0.000	-5.000	0.000	1.000	1.000
34.18	0.000	0.000	Stratol_2_8_L_0									
27 D	7.051	-2.1193E-03	116.0	35.26	116.0	61.47	ACTIVE	0.000	-5.200	0.000	1.000	1.000
35.26	0.000	0.000	Stratol_2_8_L_0									
28 D	7.301	-1.9589E-03	120.1	36.51	120.1	63.65	ACTIVE	0.000	-5.400	0.000	1.000	1.000
36.51	0.000	0.000	Stratol_2_8_L_0									
29 D	7.518	-1.8060E-03	123.7	37.59	123.7	65.53	ACTIVE	0.000	-5.600	0.000	1.000	1.000
37.59	0.000	0.000	Stratol_2_8_L_0									
30 D	7.767	-1.6607E-03	127.7	38.83	127.7	67.70	ACTIVE	0.000	-5.800	0.000	1.000	1.000
38.83	0.000	0.000	Stratol_2_8_L_0									
31 D	7.972	-1.5231E-03	131.1	39.86	131.1	69.50	ACTIVE	0.000	-6.000	0.000	1.000	1.000
39.86	0.000	0.000	Stratol_2_8_L_0									
32 D	8.249	-1.3933E-03	135.2	41.24	135.2	71.66	UL-RL	2.1827E+04	-6.200	0.000	1.000	1.000
41.24	0.000	0.000	Stratol_2_8_L_0									
33 D	9.162	-1.2714E-03	138.8	45.81	138.8	73.56	UL-RL	2.1827E+04	-6.400	0.000	1.000	1.000
45.81	0.000	0.000	Stratol_2_8_L_0									
34 D	10.09	-1.1572E-03	142.9	50.45	142.9	75.71	UL-RL	2.1827E+04	-6.600	0.000	1.000	1.000
50.45	0.000	0.000	Stratol_2_8_L_0									
35 D	10.94	-1.0506E-03	146.5	54.69	146.5	77.62	UL-RL	2.1827E+04	-6.800	0.000	1.000	1.000
54.69	0.000	0.000	Stratol_2_8_L_0									
36 D	11.80	-9.5158E-04	150.5	58.99	150.5	79.76	UL-RL	2.1827E+04	-7.000	0.000	1.000	1.000
58.99	0.000	0.000	Stratol_2_8_L_0									
37 D	12.58	-8.5992E-04	154.1	62.91	154.1	81.68	UL-RL	2.1827E+04	-7.200	0.000	1.000	1.000
62.91	0.000	0.000	Stratol_2_8_L_0									
38 D	13.38	-7.7542E-04	158.1	66.89	158.1	83.81	UL-RL	2.1827E+04	-7.400	0.000	1.000	1.000
66.89	0.000	0.000	Stratol_2_8_L_0									
39 D	14.08	-6.9786E-04	161.6	70.42	161.6	85.65	UL-RL	2.1827E+04	-7.600	0.000	1.000	1.000
70.42	0.000	0.000	Stratol_2_8_L_0									
40 D	14.82	-6.2698E-04	165.6	74.10	165.6	87.78	UL-RL	2.1827E+04	-7.800	0.000	1.000	1.000
74.10	0.000	0.000	Stratol_2_8_L_0									
41 D	15.49	-5.6252E-04	169.3	77.43	169.3	89.71	UL-RL	2.1827E+04	-8.000	0.000	1.000	1.000
77.43	0.000	0.000	Stratol_2_8_L_0									
42 D	16.17	-5.0419E-04	173.3	80.83	173.3	91.83	UL-RL	2.1827E+04	-8.200	0.000	1.000	1.000
80.83	0.000	0.000	Stratol_2_8_L_0									
43 D	16.78	-4.5171E-04	176.9	83.90	176.9	93.76	UL-RL	2.1827E+04	-8.400	0.000	1.000	1.000
83.90	0.000	0.000	Stratol_2_8_L_0									
44 D	17.41	-4.0477E-04	180.9	87.04	180.9	95.88	UL-RL	2.1827E+04	-8.600	0.000	1.000	1.000
87.04	0.000	0.000	Stratol_2_8_L_0									
45 D	17.98	-3.6307E-04	184.5	89.89	184.5	97.81	UL-RL	2.1827E+04	-8.800	0.000	1.000	1.000
89.89	0.000	0.000	Stratol_2_8_L_0									
46 D	18.55	-3.2628E-04	188.4	92.73	188.4	99.86	UL-RL	2.1827E+04	-9.000	0.000	1.000	1.000
92.73	0.000	0.000	Stratol_2_8_L_0									
47 D	19.07	-2.9411E-04	192.1	95.37	192.1	101.8	UL-RL	2.1827E+04	-9.200	0.000	1.000	1.000
95.37	0.000	0.000	Stratol_2_8_L_0									
48 D	19.62	-2.6625E-04	196.0	98.09	196.0	103.9	UL-RL	2.1827E+04	-9.400	0.000	1.000	1.000
98.09	0.000	0.000	Stratol_2_8_L_0									
49 D	20.11	-2.4237E-04	199.7	100.6	199.7	105.8	UL-RL	2.1827E+04	-9.600	0.000	1.000	1.000
100.6	0.000	0.000	Stratol_2_8_L_0									
50 D	20.62	-2.2219E-04	203.7	103.1	203.7	107.9	UL-RL	2.1827E+04	-9.800	0.000	1.000	1.000
103.1	0.000	0.000	Stratol_2_8_L_0									
51 D	21.08	-2.0541E-04	207.3	105.4	207.3	109.9	UL-RL	2.1827E+04	-10.00	0.000	1.000	1.000
105.4	0.000	0.000	Stratol_2_8_L_0									
52 D	21.56	-1.9175E-04	211.3	107.8	211.3	112.0	UL-RL	2.1827E+04	-10.20	0.000	1.000	1.000
107.8	0.000	0.000	Stratol_2_8_L_0									
53 D	22.00	-1.8092E-04	215.0	110.0	215.0	113.9	UL-RL	2.1827E+04	-10.40	0.000	1.000	1.000
110.0	0.000	0.000	Stratol_2_8_L_0									
54 D	22.44	-1.7265E-04	218.8	112.2	218.8	116.0	UL-RL	2.1827E+04	-10.60	0.000	1.000	1.000
112.2	0.000	0.000	Stratol_2_8_L_0									
55 D	22.86	-1.6670E-04	222.5	114.3	222.5	117.9	UL-RL	2.1827E+04	-10.80	0.000	1.000	1.000
114.3	0.000	0.000	Stratol_2_8_L_0									
56 D	23.29	-1.6282E-04	226.5	116.5	226.5	120.0	UL-RL	2.1827E+04	-11.00	0.000	1.000	1.000
116.5	0.000	0.000	Stratol_2_8_L_0									
57 D	23.69	-1.6076E-04	230.1	118.5	230.1	122.0	UL-RL	2.1827E+04	-11.20	0.000	1.000	1.000
118.5	0.000	0.000	Stratol_2_8_L_0									
58 D	24.11	-1.6032E-04	234.1	120.6	234.1	124.1	UL-RL	2.1827E+04	-11.40	0.000	1.000	1.000
120.6	0.000	0.000	Stratol_2_8_L_0									
59 D	24.50	-1.6128E-04	237.8	122.5	237.8	126.0	UL-RL	2.1827E+04	-11.60	0.000	1.000	1.000
122.5	0.000	0.000	Stratol_2_8_L_0									
60 D	24.91	-1.6344E-04	241.7	124.5	241.7	128.1	UL-RL	2.1827E+04	-11.80	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 37 di 1221
124.5	0.000	0.000	Strato1_2_8_L_0		
61 D	25.27	-1.6662E-04	245.3 126.4	245.3	130.0
126.4	0.000	0.000	Strato1_2_8_L_0		
62 D	25.67	-1.7064E-04	249.2 128.4	249.2	132.1
128.4	0.000	0.000	Strato1_2_8_L_0		
63 D	26.04	-1.7534E-04	252.9 130.2	252.9	134.1
130.2	0.000	0.000	Strato1_2_8_L_0		
64 D	23.46	-1.8057E-04	256.9 117.3	256.9	128.4
117.3	0.000	0.000	Strato2_3095_82743_L_0		
65 D	23.78	-1.8618E-04	260.8 118.9	260.8	130.4
118.9	0.000	0.000	Strato2_3095_82743_L_0		
66 D	24.12	-1.9206E-04	264.9 120.6	264.9	132.4
120.6	0.000	0.000	Strato2_3095_82743_L_0		
67 D	24.43	-1.9809E-04	268.8 122.2	268.8	134.4
122.2	0.000	0.000	Strato2_3095_82743_L_0		
68 D	24.77	-2.0419E-04	272.9 123.8	272.9	136.5
123.8	0.000	0.000	Strato2_3095_82743_L_0		
69 D	25.08	-2.1027E-04	276.7 125.4	276.7	138.4
125.4	0.000	0.000	Strato2_3095_82743_L_0		
70 D	25.41	-2.1629E-04	280.8 127.1	280.8	140.4
127.1	0.000	0.000	Strato2_3095_82743_L_0		
71 D	25.73	-2.2218E-04	284.7 128.7	284.7	142.4
128.7	0.000	0.000	Strato2_3095_82743_L_0		
72 D	26.07	-2.2791E-04	288.9 130.4	288.9	144.4
130.4	0.000	0.000	Strato2_3095_82743_L_0		
73 D	26.39	-2.3345E-04	292.8 132.0	292.8	146.4
132.0	0.000	0.000	Strato2_3095_82743_L_0		
74 D	26.74	-2.3878E-04	296.9 133.7	296.9	148.4
133.7	0.000	0.000	Strato2_3095_82743_L_0		
75 D	27.07	-2.4388E-04	300.8 135.3	300.8	150.4
135.3	0.000	0.000	Strato2_3095_82743_L_0		
76 D	27.41	-2.4876E-04	304.8 137.1	304.8	152.4
137.1	0.000	0.000	Strato2_3095_82743_L_0		
77 D	27.74	-2.5342E-04	308.7 138.7	308.7	154.4
138.7	0.000	0.000	Strato2_3095_82743_L_0		
78 D	28.10	-2.5786E-04	312.9 140.5	312.9	156.4
140.5	0.000	0.000	Strato2_3095_82743_L_0		
79 D	28.44	-2.6209E-04	316.8 142.2	316.8	158.4
142.2	0.000	0.000	Strato2_3095_82743_L_0		
80 D	28.80	-2.6614E-04	320.9 144.0	320.9	160.4
144.0	0.000	0.000	Strato2_3095_82743_L_0		
81 D	29.14	-2.7001E-04	324.8 145.7	324.8	162.4
145.7	0.000	0.000	Strato2_3095_82743_L_0		
82 D	29.51	-2.7372E-04	328.9 147.5	328.9	164.4
147.5	0.000	0.000	Strato2_3095_82743_L_0		
83 D	29.86	-2.7730E-04	332.8 149.3	332.8	166.4
149.3	0.000	0.000	Strato2_3095_82743_L_0		
84 D	30.22	-2.8077E-04	336.8 151.1	336.8	168.4
151.1	0.000	0.000	Strato2_3095_82743_L_0		
85 D	30.57	-2.8415E-04	340.8 152.8	340.8	170.4
152.8	0.000	0.000	Strato2_3095_82743_L_0		
86 D	30.94	-2.8746E-04	344.9 154.7	344.9	172.4
154.7	0.000	0.000	Strato2_3095_82743_L_0		
87 D	31.29	-2.9072E-04	348.8 156.4	348.8	174.4
156.4	0.000	0.000	Strato2_3095_82743_L_0		
88 D	31.66	-2.9394E-04	352.9 158.3	352.9	176.4
158.3	0.000	0.000	Strato2_3095_82743_L_0		
89 D	32.01	-2.9714E-04	356.8 160.1	356.8	178.4
160.1	0.000	0.000	Strato2_3095_82743_L_0		
90 D	32.38	-3.0033E-04	360.9 161.9	360.9	180.4
161.9	0.000	0.000	Strato2_3095_82743_L_0		
91 D	16.36	-3.0351E-04	364.8 163.6	364.8	182.4
163.6	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :29 July 2019          17:58:38                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 39 di 1221							
41 D	16.68	5.6252E-04	85.50	83.40	152.0	83.40	V-C	5049.	-8.000	0.000	1.000	1.000
83.40	0.000	0.000	Strato1_2_8_L_0									
42 D	17.02	5.0419E-04	89.30	85.12	155.8	85.12	V-C	5049.	-8.200	0.000	1.000	1.000
85.12	0.000	0.000	Strato1_2_8_L_0									
43 D	17.37	4.5171E-04	93.10	86.87	159.6	86.87	V-C	5049.	-8.400	0.000	1.000	1.000
86.87	0.000	0.000	Strato1_2_8_L_0									
44 D	17.73	4.0477E-04	96.90	88.65	163.4	88.65	V-C	5049.	-8.600	0.000	1.000	1.000
88.65	0.000	0.000	Strato1_2_8_L_0									
45 D	18.09	3.6307E-04	100.7	90.45	167.2	90.45	V-C	5049.	-8.800	0.000	1.000	1.000
90.45	0.000	0.000	Strato1_2_8_L_0									
46 D	18.40	3.2628E-04	104.5	92.02	171.0	92.41	UL-RL	1.5147E+04	-9.000	0.000	1.000	1.000
92.02	0.000	0.000	Strato1_2_8_L_0									
47 D	18.72	2.9411E-04	108.3	93.62	174.8	94.38	UL-RL	1.5147E+04	-9.200	0.000	1.000	1.000
93.62	0.000	0.000	Strato1_2_8_L_0									
48 D	19.06	2.6625E-04	112.1	95.28	178.6	96.36	UL-RL	1.5147E+04	-9.400	0.000	1.000	1.000
95.28	0.000	0.000	Strato1_2_8_L_0									
49 D	19.40	2.4237E-04	115.9	97.00	182.4	98.35	UL-RL	1.5147E+04	-9.600	0.000	1.000	1.000
97.00	0.000	0.000	Strato1_2_8_L_0									
50 D	19.75	2.2219E-04	119.7	98.76	186.2	100.3	UL-RL	1.5147E+04	-9.800	0.000	1.000	1.000
98.76	0.000	0.000	Strato1_2_8_L_0									
51 D	20.11	2.0541E-04	123.5	100.6	190.0	102.3	UL-RL	1.5147E+04	-10.000	0.000	1.000	1.000
100.6	0.000	0.000	Strato1_2_8_L_0									
52 D	20.49	1.9175E-04	127.3	102.4	193.8	104.3	UL-RL	1.5147E+04	-10.200	0.000	1.000	1.000
102.4	0.000	0.000	Strato1_2_8_L_0									
53 D	20.86	1.8092E-04	131.1	104.3	197.6	106.3	UL-RL	1.5147E+04	-10.400	0.000	1.000	1.000
104.3	0.000	0.000	Strato1_2_8_L_0									
54 D	21.25	1.7265E-04	134.9	106.2	201.4	108.3	UL-RL	1.5147E+04	-10.600	0.000	1.000	1.000
106.2	0.000	0.000	Strato1_2_8_L_0									
55 D	21.64	1.6670E-04	138.7	108.2	205.2	110.3	UL-RL	1.5147E+04	-10.800	0.000	1.000	1.000
108.2	0.000	0.000	Strato1_2_8_L_0									
56 D	22.04	1.6282E-04	142.5	110.2	209.0	112.3	UL-RL	1.5147E+04	-11.000	0.000	1.000	1.000
110.2	0.000	0.000	Strato1_2_8_L_0									
57 D	22.44	1.6076E-04	146.3	112.2	212.8	114.3	UL-RL	1.5147E+04	-11.200	0.000	1.000	1.000
112.2	0.000	0.000	Strato1_2_8_L_0									
58 D	22.85	1.6032E-04	150.1	114.2	216.6	116.3	UL-RL	1.5147E+04	-11.400	0.000	1.000	1.000
114.2	0.000	0.000	Strato1_2_8_L_0									
59 D	23.26	1.6128E-04	153.9	116.3	220.4	118.3	UL-RL	1.5147E+04	-11.600	0.000	1.000	1.000
116.3	0.000	0.000	Strato1_2_8_L_0									
60 D	23.67	1.6344E-04	157.7	118.4	224.2	120.3	UL-RL	1.5147E+04	-11.800	0.000	1.000	1.000
118.4	0.000	0.000	Strato1_2_8_L_0									
61 D	24.09	1.6662E-04	161.5	120.4	228.0	122.3	UL-RL	1.5147E+04	-12.000	0.000	1.000	1.000
120.4	0.000	0.000	Strato1_2_8_L_0									
62 D	24.51	1.7064E-04	165.3	122.5	231.8	124.3	UL-RL	1.5147E+04	-12.200	0.000	1.000	1.000
122.5	0.000	0.000	Strato1_2_8_L_0									
63 D	24.93	1.7534E-04	169.1	124.6	235.6	126.3	UL-RL	1.5147E+04	-12.400	0.000	1.000	1.000
124.6	0.000	0.000	Strato1_2_8_L_0									
64 D	21.55	1.8057E-04	172.9	107.8	239.4	119.7	UL-RL	3.3465E+04	-12.600	0.000	1.000	1.000
107.8	0.000	0.000	Strato2_3095_82743_L_0									
65 D	22.00	1.8618E-04	176.9	110.0	243.4	121.7	UL-RL	3.3465E+04	-12.800	0.000	1.000	1.000
110.0	0.000	0.000	Strato2_3095_82743_L_0									
66 D	22.44	1.9206E-04	180.9	112.2	247.4	123.7	UL-RL	3.3465E+04	-13.000	0.000	1.000	1.000
112.2	0.000	0.000	Strato2_3095_82743_L_0									
67 D	22.89	1.9809E-04	184.9	114.4	251.4	125.7	UL-RL	3.3465E+04	-13.200	0.000	1.000	1.000
114.4	0.000	0.000	Strato2_3095_82743_L_0									
68 D	23.33	2.0419E-04	188.9	116.7	255.4	127.7	UL-RL	3.3465E+04	-13.400	0.000	1.000	1.000
116.7	0.000	0.000	Strato2_3095_82743_L_0									
69 D	23.78	2.1027E-04	192.9	118.9	259.4	129.7	UL-RL	3.3465E+04	-13.600	0.000	1.000	1.000
118.9	0.000	0.000	Strato2_3095_82743_L_0									
70 D	24.22	2.1629E-04	196.9	121.1	263.4	131.7	UL-RL	3.3465E+04	-13.800	0.000	1.000	1.000
121.1	0.000	0.000	Strato2_3095_82743_L_0									
71 D	24.66	2.2218E-04	200.9	123.3	267.4	133.7	UL-RL	3.3465E+04	-14.000	0.000	1.000	1.000
123.3	0.000	0.000	Strato2_3095_82743_L_0									
72 D	25.11	2.2791E-04	204.9	125.5	271.4	135.7	UL-RL	3.3465E+04	-14.200	0.000	1.000	1.000
125.5	0.000	0.000	Strato2_3095_82743_L_0									
73 D	25.55	2.3345E-04	208.9	127.7	275.4	137.7	UL-RL	3.3465E+04	-14.400	0.000	1.000	1.000
127.7	0.000	0.000	Strato2_3095_82743_L_0									
74 D	25.99	2.3878E-04	212.9	129.9	279.4	139.7	UL-RL	3.3465E+04	-14.600	0.000	1.000	1.000
129.9	0.000	0.000	Strato2_3095_82743_L_0									
75 D	26.43	2.4388E-04	216.9	132.1	283.4	141.7	UL-RL	3.3465E+04	-14.800	0.000	1.000	1.000
132.1	0.000	0.000	Strato2_3095_82743_L_0									
76 D	26.86	2.4876E-04	220.9	134.3	287.4	143.7	UL-RL	3.3465E+04	-15.000	0.000	1.000	1.000
134.3	0.000	0.000	Strato2_3095_82743_L_0									
77 D	27.30	2.5342E-04	224.9	136.5	291.4	145.7	UL-RL	3.3465E+04	-15.200	0.000	1.000	1.000
136.5	0.000	0.000	Strato2_3095_82743_L_0									
78 D	27.73	2.5786E-04	228.9	138.6	295.4	147.7	UL-RL	3.3465E+04	-15.400	0.000	1.000	1.000
138.6	0.000	0.000	Strato2_3095_82743_L_0									
79 D	28.16	2.6209E-04	232.9	140.8	299.4	149.7	UL-RL	3.3465E+04	-15.600	0.000	1.000	1.000
140.8	0.000	0.000	Strato2_3095_82743_L_0									
80 D	28.59	2.6614E-04	236.9	143.0	303.4	151.7	UL-RL	3.3465E+04	-15.800	0.000	1.000	1.000
143.0	0.000	0.000	Strato2_3095_82743_L_0									
81 D	29.02	2.7001E-04	240.9	145.1	307.4	153.7	UL-RL	3.3465E+04	-16.000	0.000	1.000	1.000
145.1	0.000	0.000	Strato2_3095_82743_L_0									
82 D	29.45	2.7372E-04	244.9	147.2	311.4	155.7	UL-RL	3.3465E+04	-16.200	0.000	1.000	1.000
147.2	0.000	0.000	Strato2_3095_82743_L_0									
83 D	29.87	2.7730E-04	248.9	149.4	315.4	157.7	UL-RL	3.3465E+04	-16.400	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 40 di 1221
149.4	0.000	0.000	Strato2_3095_82743_L_0		
84 D	30.30	2.8077E-04	252.9 151.5	319.4	159.7
151.5	0.000	0.000	Strato2_3095_82743_L_0		
85 D	30.73	2.8415E-04	256.9 153.6	323.4	161.7
153.6	0.000	0.000	Strato2_3095_82743_L_0		
86 D	31.15	2.8746E-04	260.9 155.8	327.4	163.7
155.8	0.000	0.000	Strato2_3095_82743_L_0		
87 D	31.57	2.9072E-04	264.9 157.9	331.4	165.7
157.9	0.000	0.000	Strato2_3095_82743_L_0		
88 D	32.00	2.9394E-04	268.9 160.0	335.4	167.7
160.0	0.000	0.000	Strato2_3095_82743_L_0		
89 D	32.42	2.9714E-04	272.9 162.1	339.4	169.7
162.1	0.000	0.000	Strato2_3095_82743_L_0		
90 D	32.85	3.0033E-04	276.9 164.2	343.4	171.7
164.2	0.000	0.000	Strato2_3095_82743_L_0		
91 D	16.63	3.0351E-04	280.9 166.3	347.4	173.7
166.3	0.000	0.000	Strato2_3095_82743_L_0		

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|
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.Nominal_63
|
|          Exe Time :29 July 2019      17:58:38
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New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.76608	-0.76608	7.10700E-11	0.15322
2	1.9391	-1.9391	-0.15322	0.54103
3	3.2487	-3.2487	-0.54103	1.1908
4	4.9853	-4.9853	-1.1908	2.1878
5	6.8716	-6.8716	-2.1878	3.5621
6	9.0954	-9.0954	-3.5621	5.3812
7	11.488	-11.488	-5.3812	7.6789
8	14.185	-14.185	-7.6789	10.516
9	17.023	-17.023	-10.516	13.921
10	20.153	-20.153	-13.921	17.951
11	23.475	-23.475	-17.951	22.646
12	27.077	-27.077	-22.646	28.062
13	30.878	-30.878	-28.062	34.237
14	34.949	-34.949	-34.237	41.227
15	39.222	-39.222	-41.227	49.071
16	43.738	-43.738	-49.071	57.819
17	48.461	-48.461	-57.819	67.511
18	53.446	-53.446	-67.511	78.200
19	57.104	-57.104	-78.200	89.621
20	57.950	-57.950	-89.621	101.21
21	55.935	-55.935	-101.21	112.40
22	51.105	-51.105	-112.40	122.62
23	45.517	-45.517	-122.62	131.72
24	39.953	-39.953	-131.72	139.71
25	34.385	-34.385	-139.71	146.59
26	28.841	-28.841	-146.59	152.36
27	23.280	-23.280	-152.36	157.01
28	17.727	-17.727	-157.01	160.56
29	12.143	-12.143	-160.56	162.99
30	6.5518	-6.5518	-162.99	164.30
31	0.90221	-0.90221	-164.30	164.48
32	-4.7428	4.7428	-164.48	163.53
33	-9.7540	9.7540	-163.53	161.58
34	-14.124	14.124	-161.58	158.76
35	-17.942	17.942	-158.76	155.17
36	-21.202	21.202	-155.17	150.93
37	-23.990	23.990	-150.93	146.13
38	-26.299	26.299	-146.13	140.87
39	-28.226	28.226	-140.87	135.22
40	-29.749	29.749	-135.22	129.27
41	-30.943	30.943	-129.27	123.08
42	-31.802	31.802	-123.08	116.72
43	-32.396	32.396	-116.72	110.24
44	-32.717	32.717	-110.24	103.70
45	-32.829	32.829	-103.70	97.136

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 41 di 1221
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46	-32.687	32.687	-97.136	90.598
47	-32.336	32.336	-90.598	84.131
48	-31.774	31.774	-84.131	77.776
49	-31.063	31.063	-77.776	71.563
50	-30.196	30.196	-71.563	65.524
51	-29.229	29.229	-65.524	59.679
52	-28.153	28.153	-59.679	54.048
53	-27.020	27.020	-54.048	48.644
54	-25.828	25.828	-48.644	43.478
55	-24.612	24.612	-43.478	38.556
56	-23.358	23.358	-38.556	33.885
57	-22.107	22.107	-33.885	29.463
58	-20.843	20.843	-29.463	25.295
59	-19.603	19.603	-25.295	21.374
60	-18.368	18.368	-21.374	17.700
61	-17.184	17.184	-17.700	14.264
62	-16.018	16.018	-14.264	11.060
63	-14.901	14.901	-11.060	8.0799
64	-12.999	12.999	-8.0799	5.4802
65	-11.219	11.219	-5.4802	3.2365
66	-9.5425	9.5425	-3.2365	1.3280
67	-7.9964	7.9964	-1.3280	-0.27122
68	-6.5586	6.5586	0.27122	-1.5829
69	-5.2596	5.2596	1.5829	-2.6349
70	-4.0672	4.0672	2.6349	-3.4483
71	-3.0008	3.0008	3.4483	-4.0485
72	-2.0356	2.0356	4.0485	-4.4556
73	-1.1892	1.1892	4.4556	-4.6934
74	-0.43659	0.43659	4.6934	-4.7807
75	0.20601	-0.20601	4.7807	-4.7395
76	0.75566	-0.75566	4.7395	-4.5884
77	1.2044	-1.2044	4.5884	-4.3475
78	1.5762	-1.5762	4.3475	-4.0323
79	1.8555	-1.8555	4.0323	-3.6612
80	2.0654	-2.0654	3.6612	-3.2481
81	2.1901	-2.1901	3.2481	-2.8101
82	2.2515	-2.2515	2.8101	-2.3598
83	2.2335	-2.2335	2.3598	-1.9131
84	2.1499	-2.1499	1.9131	-1.4831
85	1.9912	-1.9912	1.4831	-1.0848
86	1.7768	-1.7768	1.0848	-0.72948
87	1.4900	-1.4900	0.72948	-0.43147
88	1.1490	-1.1490	0.43147	-0.20166
89	0.73702	-0.73702	0.20166	-5.42608E-02
90	0.27130	-0.27130	5.42608E-02	6.27082E-13

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      17:58:38                             |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

GENERAL CONTRACTOR

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
42 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      17:58:38                             |
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1841E+06 RIMNOR=0.1178E+07
            RENORM= 8234.      REMNOR=0.5331E-19 RATIO =0.2115      TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 90.74      RMMAX = 164.5
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1841E+06 RDR =0.1178E+07
            RATIOT=0.2115      RATOR= 0.000
            MAX UN=0.1705E-08 IEQ= 19 NODE      10 DOF  1  Y-DISPL.F
            MIN UN=-90.74      IEQ= 31 NODE      16 DOF  1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
```

```

ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1841E+06 RIMNOR=0.1178E+07
            RENORM= 6.820      REMNOR=0.3431E-19 RATIO =0.6086E-02 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 90.74      RMMAX = 164.5
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1841E+06 RDR =0.1178E+07
            RATIOT=0.6086E-02 RATOR= 0.000
            MAX UN=0.7367E-09 IEQ= 31 NODE      16 DOF  1  Y-DISPL.F
            MIN UN=-1.272      IEQ= 3 NODE      2 DOF  1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
```

```

ITER      3  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1841E+06 RIMNOR=0.1178E+07
            RENORM=0.1219      REMNOR=0.2700E-19 RATIO =0.8137E-03 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 90.74      RMMAX = 164.5
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1841E+06 RDR =0.1178E+07
            RATIOT=0.8137E-03 RATOR= 0.000
            MAX UN=0.1607E-08 IEQ= 11 NODE      6 DOF  1  Y-DISPL.F
            MIN UN=-.3234      IEQ= 25 NODE      13 DOF  1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
```

```

ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1841E+06 RIMNOR=0.1178E+07
            RENORM=0.1391E-16 REMNOR=0.3358E-19 RATIO =0.8692E-11 TOLER =0.1000E-03 CONVERGED !
            RFMAX = 90.74      RMMAX = 164.5
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1841E+06 RDR =0.1178E+07
            RATIOT=0.8692E-11 RATOR= 0.000
            MAX UN=0.1552E-08 IEQ= 21 NODE      11 DOF  1  Y-DISPL.F
            MIN UN=-.1386E-08 IEQ= 19 NODE      10 DOF  1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
43 di 1221

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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      17:58:38                             |
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New Project

SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	6.7289610E-03	-1.0766435E-03	
2	6.5136352E-03	-1.0766000E-03	
3	6.2983317E-03	-1.0763959E-03	
4	6.0830977E-03	-1.0758792E-03	
5	5.8680123E-03	-1.0748789E-03	
6	5.6531911E-03	-1.0732047E-03	
7	5.4387891E-03	-1.0706496E-03	
8	5.2250048E-03	-1.0669898E-03	
9	5.0120828E-03	-1.0619855E-03	
10	4.8003173E-03	-1.0553821E-03	
11	4.5900545E-03	-1.0469109E-03	
12	4.3816964E-03	-1.0362870E-03	
13	4.1757033E-03	-1.0232096E-03	
14	3.9725972E-03	-1.0073627E-03	
15	3.7729650E-03	-9.8841441E-04	
16	3.5774613E-03	-9.6601830E-04	
17	3.3866676E-03	-9.4197258E-04	
18	3.2006627E-03	-9.1807008E-04	
19	3.0194545E-03	-8.9394402E-04	
20	2.8431246E-03	-8.6922529E-04	
21	2.6718243E-03	-8.4360753E-04	
22	2.5057529E-03	-8.1691979E-04	
23	2.3451294E-03	-7.8913721E-04	
24	2.1901670E-03	-7.6033133E-04	
25	2.0410592E-03	-7.3060207E-04	
26	1.8979804E-03	-7.0006064E-04	
27	1.7610810E-03	-6.6882879E-04	
28	1.6304860E-03	-6.3703901E-04	
29	1.5062936E-03	-6.0483476E-04	
30	1.3885701E-03	-5.7236984E-04	
31	1.2773520E-03	-5.3980934E-04	
32	1.1726410E-03	-5.0732920E-04	
33	1.0744026E-03	-4.7511566E-04	
34	9.8256503E-04	-4.4334838E-04	
35	8.9702340E-04	-4.1218501E-04	
36	8.1764210E-04	-3.8176200E-04	
37	7.4426139E-04	-3.5219707E-04	
38	6.7669941E-04	-3.2359000E-04	
39	6.1475598E-04	-2.9602414E-04	
40	5.5821604E-04	-2.6956827E-04	
41	5.0685129E-04	-2.4427737E-04	
42	4.6042369E-04	-2.2019377E-04	
43	4.1869020E-04	-1.9734972E-04	
44	3.8139998E-04	-1.7576582E-04	
45	3.4829928E-04	-1.5545368E-04	
46	3.1913347E-04	-1.3641698E-04	
47	2.9364776E-04	-1.1865119E-04	
48	2.7158914E-04	-1.0214325E-04	
49	2.5270808E-04	-8.6872444E-05	
50	2.3675963E-04	-7.2811131E-05	
51	2.2350519E-04	-5.9926288E-05	
52	2.1271310E-04	-4.8179991E-05	
53	2.0415994E-04	-3.7530838E-05	
54	1.9763061E-04	-2.7934020E-05	
55	1.9291929E-04	-1.9342793E-05	
56	1.8982967E-04	-1.1708984E-05	
57	1.8817516E-04	-4.9833018E-06	
58	1.8777913E-04	8.8416579E-07	
59	1.8847495E-04	5.9434911E-06	
60	1.9010598E-04	1.0244526E-05	
61	1.9252549E-04	1.3836556E-05	
62	1.9559655E-04	1.6767782E-05	
63	1.9919168E-04	1.9085085E-05	
64	2.0319269E-04	2.0834079E-05	
65	2.0749124E-04	2.2072021E-05	
66	2.1199194E-04	2.2866479E-05	
67	2.1661249E-04	2.3280853E-05	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 45 di 1221							
18 D	7.793	-3.2007E-03	81.99	38.97	81.99	43.45	UL-RL	2.1827E+04	-3.400	0.000	1.000	1.000
38.97	0.000	0.000	Stratol_2_8_L_0									
19 D	7.871	-3.0195E-03	85.43	39.35	85.43	45.28	UL-RL	2.1827E+04	-3.600	0.000	1.000	1.000
39.35	0.000	0.000	Stratol_2_8_L_0									
20 D	7.993	-2.8431E-03	89.67	39.96	89.67	47.53	UL-RL	2.1827E+04	-3.800	0.000	1.000	1.000
39.96	0.000	0.000	Stratol_2_8_L_0									
21 D	8.064	-2.6718E-03	93.15	40.32	93.15	49.37	UL-RL	2.1827E+04	-4.000	0.000	1.000	1.000
40.32	0.000	0.000	Stratol_2_8_L_0									
22 D	8.177	-2.5058E-03	97.35	40.89	97.35	51.59	UL-RL	2.1827E+04	-4.200	0.000	1.000	1.000
40.89	0.000	0.000	Stratol_2_8_L_0									
23 D	8.248	-2.3451E-03	100.8	41.24	100.8	53.45	UL-RL	2.1827E+04	-4.400	0.000	1.000	1.000
41.24	0.000	0.000	Stratol_2_8_L_0									
24 D	8.344	-2.1902E-03	104.8	41.72	104.8	55.52	UL-RL	2.1827E+04	-4.600	0.000	1.000	1.000
41.72	0.000	0.000	Stratol_2_8_L_0									
25 D	8.419	-2.0411E-03	108.3	42.09	108.3	57.39	UL-RL	2.1827E+04	-4.800	0.000	1.000	1.000
42.09	0.000	0.000	Stratol_2_8_L_0									
26 D	8.533	-1.8980E-03	112.4	42.67	112.4	59.59	UL-RL	2.1827E+04	-5.000	0.000	1.000	1.000
42.67	0.000	0.000	Stratol_2_8_L_0									
27 D	8.615	-1.7611E-03	116.0	43.07	116.0	61.47	UL-RL	2.1827E+04	-5.200	0.000	1.000	1.000
43.07	0.000	0.000	Stratol_2_8_L_0									
28 D	8.735	-1.6305E-03	120.1	43.68	120.1	63.65	UL-RL	2.1827E+04	-5.400	0.000	1.000	1.000
43.68	0.000	0.000	Stratol_2_8_L_0									
29 D	8.826	-1.5063E-03	123.7	44.13	123.7	65.53	UL-RL	2.1827E+04	-5.600	0.000	1.000	1.000
44.13	0.000	0.000	Stratol_2_8_L_0									
30 D	8.955	-1.3886E-03	127.7	44.77	127.7	67.70	UL-RL	2.1827E+04	-5.800	0.000	1.000	1.000
44.77	0.000	0.000	Stratol_2_8_L_0									
31 D	9.045	-1.2774E-03	131.1	45.23	131.1	69.50	UL-RL	2.1827E+04	-6.000	0.000	1.000	1.000
45.23	0.000	0.000	Stratol_2_8_L_0									
32 D	9.212	-1.1726E-03	135.2	46.06	135.2	71.66	UL-RL	2.1827E+04	-6.200	0.000	1.000	1.000
46.06	0.000	0.000	Stratol_2_8_L_0									
33 D	10.02	-1.0744E-03	138.8	50.11	138.8	73.56	UL-RL	2.1827E+04	-6.400	0.000	1.000	1.000
50.11	0.000	0.000	Stratol_2_8_L_0									
34 D	10.85	-9.8257E-04	142.9	54.26	142.9	75.71	UL-RL	2.1827E+04	-6.600	0.000	1.000	1.000
54.26	0.000	0.000	Stratol_2_8_L_0									
35 D	11.61	-8.9702E-04	146.5	58.04	146.5	77.62	UL-RL	2.1827E+04	-6.800	0.000	1.000	1.000
58.04	0.000	0.000	Stratol_2_8_L_0									
36 D	12.38	-8.1764E-04	150.5	61.92	150.5	79.76	UL-RL	2.1827E+04	-7.000	0.000	1.000	1.000
61.92	0.000	0.000	Stratol_2_8_L_0									
37 D	13.09	-7.4426E-04	154.1	65.43	154.1	81.68	UL-RL	2.1827E+04	-7.200	0.000	1.000	1.000
65.43	0.000	0.000	Stratol_2_8_L_0									
38 D	13.81	-6.7670E-04	158.1	69.04	158.1	83.81	UL-RL	2.1827E+04	-7.400	0.000	1.000	1.000
69.04	0.000	0.000	Stratol_2_8_L_0									
39 D	14.45	-6.1476E-04	161.6	72.23	161.6	85.65	UL-RL	2.1827E+04	-7.600	0.000	1.000	1.000
72.23	0.000	0.000	Stratol_2_8_L_0									
40 D	15.12	-5.5822E-04	165.6	75.60	165.6	87.78	UL-RL	2.1827E+04	-7.800	0.000	1.000	1.000
75.60	0.000	0.000	Stratol_2_8_L_0									
41 D	15.73	-5.0685E-04	169.3	78.64	169.3	89.71	UL-RL	2.1827E+04	-8.000	0.000	1.000	1.000
78.64	0.000	0.000	Stratol_2_8_L_0									
42 D	16.36	-4.6042E-04	173.3	81.78	173.3	91.83	UL-RL	2.1827E+04	-8.200	0.000	1.000	1.000
81.78	0.000	0.000	Stratol_2_8_L_0									
43 D	16.92	-4.1869E-04	176.9	84.62	176.9	93.76	UL-RL	2.1827E+04	-8.400	0.000	1.000	1.000
84.62	0.000	0.000	Stratol_2_8_L_0									
44 D	17.51	-3.8140E-04	180.9	87.55	180.9	95.88	UL-RL	2.1827E+04	-8.600	0.000	1.000	1.000
87.55	0.000	0.000	Stratol_2_8_L_0									
45 D	18.04	-3.4830E-04	184.5	90.21	184.5	97.81	UL-RL	2.1827E+04	-8.800	0.000	1.000	1.000
90.21	0.000	0.000	Stratol_2_8_L_0									
46 D	18.58	-3.1913E-04	188.4	92.89	188.4	99.86	UL-RL	2.1827E+04	-9.000	0.000	1.000	1.000
92.89	0.000	0.000	Stratol_2_8_L_0									
47 D	19.08	-2.9365E-04	192.1	95.38	192.1	101.8	UL-RL	2.1827E+04	-9.200	0.000	1.000	1.000
95.38	0.000	0.000	Stratol_2_8_L_0									
48 D	19.59	-2.7159E-04	196.0	97.97	196.0	103.9	UL-RL	2.1827E+04	-9.400	0.000	1.000	1.000
97.97	0.000	0.000	Stratol_2_8_L_0									
49 D	20.07	-2.5271E-04	199.7	100.3	199.7	105.8	UL-RL	2.1827E+04	-9.600	0.000	1.000	1.000
100.3	0.000	0.000	Stratol_2_8_L_0									
50 D	20.56	-2.3676E-04	203.7	102.8	203.7	107.9	UL-RL	2.1827E+04	-9.800	0.000	1.000	1.000
102.8	0.000	0.000	Stratol_2_8_L_0									
51 D	21.00	-2.2351E-04	207.3	105.0	207.3	109.9	UL-RL	2.1827E+04	-10.00	0.000	1.000	1.000
105.0	0.000	0.000	Stratol_2_8_L_0									
52 D	21.47	-2.1271E-04	211.3	107.3	211.3	112.0	UL-RL	2.1827E+04	-10.20	0.000	1.000	1.000
107.3	0.000	0.000	Stratol_2_8_L_0									
53 D	21.90	-2.0416E-04	215.0	109.5	215.0	113.9	UL-RL	2.1827E+04	-10.40	0.000	1.000	1.000
109.5	0.000	0.000	Stratol_2_8_L_0									
54 D	22.33	-1.9763E-04	218.8	111.7	218.8	116.0	UL-RL	2.1827E+04	-10.60	0.000	1.000	1.000
111.7	0.000	0.000	Stratol_2_8_L_0									
55 D	22.74	-1.9292E-04	222.5	113.7	222.5	117.9	UL-RL	2.1827E+04	-10.80	0.000	1.000	1.000
113.7	0.000	0.000	Stratol_2_8_L_0									
56 D	23.18	-1.8983E-04	226.5	115.9	226.5	120.0	UL-RL	2.1827E+04	-11.00	0.000	1.000	1.000
115.9	0.000	0.000	Stratol_2_8_L_0									
57 D	23.57	-1.8818E-04	230.1	117.9	230.1	122.0	UL-RL	2.1827E+04	-11.20	0.000	1.000	1.000
117.9	0.000	0.000	Stratol_2_8_L_0									
58 D	23.99	-1.8778E-04	234.1	120.0	234.1	124.1	UL-RL	2.1827E+04	-11.40	0.000	1.000	1.000
120.0	0.000	0.000	Stratol_2_8_L_0									
59 D	24.38	-1.8847E-04	237.8	121.9	237.8	126.0	UL-RL	2.1827E+04	-11.60	0.000	1.000	1.000
121.9	0.000	0.000	Stratol_2_8_L_0									
60 D	24.79	-1.9011E-04	241.7	124.0	241.7	128.1	UL-RL	2.1827E+04	-11.80	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 46 di 1221
124.0	0.000	0.000	Strato1_2_8_L_0		
61 D	25.16	-1.9253E-04	245.3 125.8	245.3	130.0
125.8	0.000	0.000	Strato1_2_8_L_0		
62 D	25.57	-1.9560E-04	249.2 127.8	249.2	132.1
127.8	0.000	0.000	Strato1_2_8_L_0		
63 D	25.94	-1.9919E-04	252.9 129.7	252.9	134.1
129.7	0.000	0.000	Strato1_2_8_L_0		
64 D	23.18	-2.0319E-04	256.9 115.9	256.9	128.4
115.9	0.000	0.000	Strato2_3095_82743_L_0		
65 D	23.51	-2.0749E-04	260.8 117.6	260.8	130.4
117.6	0.000	0.000	Strato2_3095_82743_L_0		
66 D	23.87	-2.1199E-04	264.9 119.4	264.9	132.4
119.4	0.000	0.000	Strato2_3095_82743_L_0		
67 D	24.20	-2.1661E-04	268.8 121.0	268.8	134.4
121.0	0.000	0.000	Strato2_3095_82743_L_0		
68 D	24.56	-2.2128E-04	272.9 122.8	272.9	136.5
122.8	0.000	0.000	Strato2_3095_82743_L_0		
69 D	24.88	-2.2594E-04	276.7 124.4	276.7	138.4
124.4	0.000	0.000	Strato2_3095_82743_L_0		
70 D	25.24	-2.3055E-04	280.8 126.2	280.8	140.4
126.2	0.000	0.000	Strato2_3095_82743_L_0		
71 D	25.57	-2.3506E-04	284.7 127.9	284.7	142.4
127.9	0.000	0.000	Strato2_3095_82743_L_0		
72 D	25.93	-2.3944E-04	288.9 129.6	288.9	144.4
129.6	0.000	0.000	Strato2_3095_82743_L_0		
73 D	26.27	-2.4368E-04	292.8 131.3	292.8	146.4
131.3	0.000	0.000	Strato2_3095_82743_L_0		
74 D	26.63	-2.4775E-04	296.9 133.1	296.9	148.4
133.1	0.000	0.000	Strato2_3095_82743_L_0		
75 D	26.97	-2.5165E-04	300.8 134.9	300.8	150.4
134.9	0.000	0.000	Strato2_3095_82743_L_0		
76 D	27.33	-2.5538E-04	304.8 136.6	304.8	152.4
136.6	0.000	0.000	Strato2_3095_82743_L_0		
77 D	27.68	-2.5894E-04	308.7 138.4	308.7	154.4
138.4	0.000	0.000	Strato2_3095_82743_L_0		
78 D	28.05	-2.6232E-04	312.9 140.2	312.9	156.4
140.2	0.000	0.000	Strato2_3095_82743_L_0		
79 D	28.40	-2.6555E-04	316.8 142.0	316.8	158.4
142.0	0.000	0.000	Strato2_3095_82743_L_0		
80 D	28.77	-2.6863E-04	320.9 143.8	320.9	160.4
143.8	0.000	0.000	Strato2_3095_82743_L_0		
81 D	29.13	-2.7158E-04	324.8 145.6	324.8	162.4
145.6	0.000	0.000	Strato2_3095_82743_L_0		
82 D	29.50	-2.7441E-04	328.9 147.5	328.9	164.4
147.5	0.000	0.000	Strato2_3095_82743_L_0		
83 D	29.86	-2.7714E-04	332.8 149.3	332.8	166.4
149.3	0.000	0.000	Strato2_3095_82743_L_0		
84 D	30.23	-2.7977E-04	336.8 151.1	336.8	168.4
151.1	0.000	0.000	Strato2_3095_82743_L_0		
85 D	30.59	-2.8234E-04	340.8 152.9	340.8	170.4
152.9	0.000	0.000	Strato2_3095_82743_L_0		
86 D	30.97	-2.8486E-04	344.9 154.8	344.9	172.4
154.8	0.000	0.000	Strato2_3095_82743_L_0		
87 D	31.33	-2.8733E-04	348.8 156.6	348.8	174.4
156.6	0.000	0.000	Strato2_3095_82743_L_0		
88 D	31.71	-2.8978E-04	352.9 158.5	352.9	176.4
158.5	0.000	0.000	Strato2_3095_82743_L_0		
89 D	32.07	-2.9221E-04	356.8 160.4	356.8	178.4
160.4	0.000	0.000	Strato2_3095_82743_L_0		
90 D	32.45	-2.9464E-04	360.9 162.3	360.9	180.4
162.3	0.000	0.000	Strato2_3095_82743_L_0		
91 D	16.40	-2.9706E-04	364.8 164.0	364.8	182.4
164.0	0.000	0.000	Strato2_3095_82743_L_0		



Doc. N.

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12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
47 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      17:58:38                             |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
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	not available									
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
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	not available									
19 D	0.1155	3.0195E-03	1.900	0.5776	68.40	36.25	ACTIVE	0.000	-3.600	0.000	1.000	1.000
0.5776	0.000	0.000	Stratol_2_8_L_0									
20 D	2.844	2.8431E-03	5.700	14.22	72.20	38.27	UL-RL	1.5147E+04	-3.800	0.000	1.000	1.000
14.22	0.000	0.000	Stratol_2_8_L_0									
21 D	6.012	2.6718E-03	9.500	30.06	76.00	40.28	UL-RL	1.5147E+04	-4.000	0.000	1.000	1.000
30.06	0.000	0.000	Stratol_2_8_L_0									
22 D	9.182	2.5058E-03	13.30	45.91	79.80	53.75	UL-RL	1.5147E+04	-4.200	0.000	1.000	1.000
45.91	0.000	0.000	Stratol_2_8_L_0									
23 D	10.25	2.3451E-03	17.10	51.25	83.60	58.60	UL-RL	1.5147E+04	-4.400	0.000	1.000	1.000
51.25	0.000	0.000	Stratol_2_8_L_0									
24 D	10.56	2.1902E-03	20.90	52.81	87.40	59.66	UL-RL	1.5147E+04	-4.600	0.000	1.000	1.000
52.81	0.000	0.000	Stratol_2_8_L_0									
25 D	10.88	2.0411E-03	24.70	54.40	91.20	60.76	UL-RL	1.5147E+04	-4.800	0.000	1.000	1.000
54.40	0.000	0.000	Stratol_2_8_L_0									
26 D	11.20	1.8980E-03	28.50	56.01	95.00	61.90	UL-RL	1.5147E+04	-5.000	0.000	1.000	1.000
56.01	0.000	0.000	Stratol_2_8_L_0									
27 D	11.53	1.7611E-03	32.30	57.64	98.80	63.06	UL-RL	1.5147E+04	-5.200	0.000	1.000	1.000
57.64	0.000	0.000	Stratol_2_8_L_0									
28 D	11.86	1.6305E-03	36.10	59.29	102.6	64.27	UL-RL	1.5147E+04	-5.400	0.000	1.000	1.000
59.29	0.000	0.000	Stratol_2_8_L_0									
29 D	12.19	1.5063E-03	39.90	60.97	106.4	65.51	UL-RL	1.5147E+04	-5.600	0.000	1.000	1.000
60.97	0.000	0.000	Stratol_2_8_L_0									
30 D	12.53	1.3886E-03	43.70	62.67	110.2	66.79	UL-RL	1.5147E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.					Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 48 di 1221	
62.67	0.000	0.000	Strato1_2_8_L_0							
31 D	12.88	1.2774E-03	47.50 64.39	114.0	68.11	UL-RL 1.5147E+04	-6.000	0.000	1.000	1.000
64.39	0.000	0.000	Strato1_2_8_L_0							
32 D	13.23	1.1726E-03	51.30 66.13	117.8	69.47	UL-RL 1.5147E+04	-6.200	0.000	1.000	1.000
66.13	0.000	0.000	Strato1_2_8_L_0							
33 D	13.58	1.0744E-03	55.10 67.88	121.6	70.87	UL-RL 1.5147E+04	-6.400	0.000	1.000	1.000
67.88	0.000	0.000	Strato1_2_8_L_0							
34 D	13.93	9.8257E-04	58.90 69.66	125.4	72.30	UL-RL 1.5147E+04	-6.600	0.000	1.000	1.000
69.66	0.000	0.000	Strato1_2_8_L_0							
35 D	14.29	8.9702E-04	62.70 71.45	129.2	73.78	UL-RL 1.5147E+04	-6.800	0.000	1.000	1.000
71.45	0.000	0.000	Strato1_2_8_L_0							
36 D	14.65	8.1764E-04	66.50 73.27	133.0	75.29	UL-RL 1.5147E+04	-7.000	0.000	1.000	1.000
73.27	0.000	0.000	Strato1_2_8_L_0							
37 D	15.02	7.4426E-04	70.30 75.09	136.8	76.85	UL-RL 1.5147E+04	-7.200	0.000	1.000	1.000
75.09	0.000	0.000	Strato1_2_8_L_0							
38 D	15.39	6.7670E-04	74.10 76.94	140.6	78.43	UL-RL 1.5147E+04	-7.400	0.000	1.000	1.000
76.94	0.000	0.000	Strato1_2_8_L_0							
39 D	15.76	6.1476E-04	77.90 78.80	144.4	80.06	UL-RL 1.5147E+04	-7.600	0.000	1.000	1.000
78.80	0.000	0.000	Strato1_2_8_L_0							
40 D	16.13	5.5822E-04	81.70 80.67	148.2	81.71	UL-RL 1.5147E+04	-7.800	0.000	1.000	1.000
80.67	0.000	0.000	Strato1_2_8_L_0							
41 D	16.51	5.0685E-04	85.50 82.56	152.0	83.40	UL-RL 1.5147E+04	-8.000	0.000	1.000	1.000
82.56	0.000	0.000	Strato1_2_8_L_0							
42 D	16.89	4.6042E-04	89.30 84.46	155.8	85.12	UL-RL 1.5147E+04	-8.200	0.000	1.000	1.000
84.46	0.000	0.000	Strato1_2_8_L_0							
43 D	17.27	4.1869E-04	93.10 86.37	159.6	86.87	UL-RL 1.5147E+04	-8.400	0.000	1.000	1.000
86.37	0.000	0.000	Strato1_2_8_L_0							
44 D	17.66	3.8140E-04	96.90 88.29	163.4	88.65	UL-RL 1.5147E+04	-8.600	0.000	1.000	1.000
88.29	0.000	0.000	Strato1_2_8_L_0							
45 D	18.05	3.4830E-04	100.7 90.23	167.2	90.45	UL-RL 1.5147E+04	-8.800	0.000	1.000	1.000
90.23	0.000	0.000	Strato1_2_8_L_0							
46 D	18.38	3.1913E-04	104.5 91.91	171.0	92.41	UL-RL 1.5147E+04	-9.000	0.000	1.000	1.000
91.91	0.000	0.000	Strato1_2_8_L_0							
47 D	18.72	2.9365E-04	108.3 93.61	174.8	94.38	UL-RL 1.5147E+04	-9.200	0.000	1.000	1.000
93.61	0.000	0.000	Strato1_2_8_L_0							
48 D	19.07	2.7159E-04	112.1 95.36	178.6	96.36	UL-RL 1.5147E+04	-9.400	0.000	1.000	1.000
95.36	0.000	0.000	Strato1_2_8_L_0							
49 D	19.43	2.5271E-04	115.9 97.15	182.4	98.35	UL-RL 1.5147E+04	-9.600	0.000	1.000	1.000
97.15	0.000	0.000	Strato1_2_8_L_0							
50 D	19.80	2.3676E-04	119.7 98.98	186.2	100.3	UL-RL 1.5147E+04	-9.800	0.000	1.000	1.000
98.98	0.000	0.000	Strato1_2_8_L_0							
51 D	20.17	2.2351E-04	123.5 100.8	190.0	102.3	UL-RL 1.5147E+04	-10.00	0.000	1.000	1.000
100.8	0.000	0.000	Strato1_2_8_L_0							
52 D	20.55	2.1271E-04	127.3 102.7	193.8	104.3	UL-RL 1.5147E+04	-10.20	0.000	1.000	1.000
102.7	0.000	0.000	Strato1_2_8_L_0							
53 D	20.93	2.0416E-04	131.1 104.7	197.6	106.3	UL-RL 1.5147E+04	-10.40	0.000	1.000	1.000
104.7	0.000	0.000	Strato1_2_8_L_0							
54 D	21.33	1.9763E-04	134.9 106.6	201.4	108.3	UL-RL 1.5147E+04	-10.60	0.000	1.000	1.000
106.6	0.000	0.000	Strato1_2_8_L_0							
55 D	21.72	1.9292E-04	138.7 108.6	205.2	110.3	UL-RL 1.5147E+04	-10.80	0.000	1.000	1.000
108.6	0.000	0.000	Strato1_2_8_L_0							
56 D	22.12	1.8983E-04	142.5 110.6	209.0	112.3	UL-RL 1.5147E+04	-11.00	0.000	1.000	1.000
110.6	0.000	0.000	Strato1_2_8_L_0							
57 D	22.52	1.8818E-04	146.3 112.6	212.8	114.3	UL-RL 1.5147E+04	-11.20	0.000	1.000	1.000
112.6	0.000	0.000	Strato1_2_8_L_0							
58 D	22.93	1.8778E-04	150.1 114.7	216.6	116.3	UL-RL 1.5147E+04	-11.40	0.000	1.000	1.000
114.7	0.000	0.000	Strato1_2_8_L_0							
59 D	23.34	1.8847E-04	153.9 116.7	220.4	118.3	UL-RL 1.5147E+04	-11.60	0.000	1.000	1.000
116.7	0.000	0.000	Strato1_2_8_L_0							
60 D	23.75	1.9011E-04	157.7 118.8	224.2	120.3	UL-RL 1.5147E+04	-11.80	0.000	1.000	1.000
118.8	0.000	0.000	Strato1_2_8_L_0							
61 D	24.17	1.9253E-04	161.5 120.8	228.0	122.3	UL-RL 1.5147E+04	-12.00	0.000	1.000	1.000
120.8	0.000	0.000	Strato1_2_8_L_0							
62 D	24.58	1.9560E-04	165.3 122.9	231.8	124.3	UL-RL 1.5147E+04	-12.20	0.000	1.000	1.000
122.9	0.000	0.000	Strato1_2_8_L_0							
63 D	25.00	1.9919E-04	169.1 125.0	235.6	126.3	UL-RL 1.5147E+04	-12.40	0.000	1.000	1.000
125.0	0.000	0.000	Strato1_2_8_L_0							
64 D	21.71	2.0319E-04	172.9 108.5	239.4	119.7	UL-RL 3.3465E+04	-12.60	0.000	1.000	1.000
108.5	0.000	0.000	Strato2_3095_82743_L_0							
65 D	22.14	2.0749E-04	176.9 110.7	243.4	121.7	UL-RL 3.3465E+04	-12.80	0.000	1.000	1.000
110.7	0.000	0.000	Strato2_3095_82743_L_0							
66 D	22.57	2.1199E-04	180.9 112.9	247.4	123.7	UL-RL 3.3465E+04	-13.00	0.000	1.000	1.000
112.9	0.000	0.000	Strato2_3095_82743_L_0							
67 D	23.01	2.1661E-04	184.9 115.0	251.4	125.7	UL-RL 3.3465E+04	-13.20	0.000	1.000	1.000
115.0	0.000	0.000	Strato2_3095_82743_L_0							
68 D	23.45	2.2128E-04	188.9 117.2	255.4	127.7	UL-RL 3.3465E+04	-13.40	0.000	1.000	1.000
117.2	0.000	0.000	Strato2_3095_82743_L_0							
69 D	23.88	2.2594E-04	192.9 119.4	259.4	129.7	UL-RL 3.3465E+04	-13.60	0.000	1.000	1.000
119.4	0.000	0.000	Strato2_3095_82743_L_0							
70 D	24.32	2.3055E-04	196.9 121.6	263.4	131.7	UL-RL 3.3465E+04	-13.80	0.000	1.000	1.000
121.6	0.000	0.000	Strato2_3095_82743_L_0							
71 D	24.75	2.3506E-04	200.9 123.8	267.4	133.7	UL-RL 3.3465E+04	-14.00	0.000	1.000	1.000
123.8	0.000	0.000	Strato2_3095_82743_L_0							
72 D	25.18	2.3944E-04	204.9 125.9	271.4	135.7	UL-RL 3.3465E+04	-14.20	0.000	1.000	1.000
125.9	0.000	0.000	Strato2_3095_82743_L_0							

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
50 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      17:58:38                             |
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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_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 C U R R E N T T I M E I S 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.8313	-1.8313	-3.92009E-11	0.36626
2	4.9373	-4.9373	-0.36626	1.3537
3	8.2282	-8.2282	-1.3537	2.9994
4	12.138	-12.138	-2.9994	5.4270
5	16.252	-16.252	-5.4270	8.6775
6	20.852	-20.852	-8.6775	12.848
7	25.684	-25.684	-12.848	17.985
8	30.950	-30.950	-17.985	24.174
9	36.405	-36.405	-24.174	31.455
10	42.273	-42.273	-31.455	39.910
11	48.408	-48.408	-39.910	49.592
12	54.934	-54.934	-49.592	60.578
13	61.731	-61.731	-60.578	72.925
14	68.903	-68.903	-72.925	86.705
15	76.330	-76.330	-86.705	101.97
16	-6.8443	6.8443	-101.97	100.60
17	0.81165	-0.81165	-100.60	100.76
18	8.6049	-8.6049	-100.76	102.49
19	16.360	-16.360	-102.49	105.76
20	21.509	-21.509	-105.76	110.06
21	23.561	-23.561	-110.06	114.77
22	22.557	-22.557	-114.77	119.28
23	20.554	-20.554	-119.28	123.39
24	18.336	-18.336	-123.39	127.06
25	15.875	-15.875	-127.06	130.24
26	13.207	-13.207	-130.24	132.88
27	10.294	-10.294	-132.88	134.94
28	7.1707	-7.1707	-134.94	136.37
29	3.8028	-3.8028	-136.37	137.13
30	0.22350	-0.22350	-137.13	137.18
31	-3.6086	3.6086	-137.18	136.45
32	-7.6215	7.6215	-136.45	134.93
33	-11.176	11.176	-134.93	132.69
34	-14.255	14.255	-132.69	129.84
35	-16.938	16.938	-129.84	126.46
36	-19.207	19.207	-126.46	122.61
37	-21.140	21.140	-122.61	118.39
38	-22.719	22.719	-118.39	113.84
39	-24.031	24.031	-113.84	109.04
40	-25.046	25.046	-109.04	104.03
41	-25.828	25.828	-104.03	98.861
42	-26.364	26.364	-98.861	93.589
43	-26.713	26.713	-93.589	88.246
44	-26.861	26.861	-88.246	82.874
45	-26.864	26.864	-82.874	77.501
46	-26.669	26.669	-77.501	72.167
47	-26.315	26.315	-72.167	66.904
48	-25.793	25.793	-66.904	61.746
49	-25.158	25.158	-61.746	56.714
50	-24.398	24.398	-56.714	51.834
51	-23.565	23.565	-51.834	47.121
52	-22.644	22.644	-47.121	42.593
53	-21.683	21.683	-42.593	38.256
54	-20.675	20.675	-38.256	34.121
55	-19.654	19.654	-34.121	30.190
56	-18.599	18.599	-30.190	26.470
57	-17.551	17.551	-26.470	22.960
58	-16.490	16.490	-22.960	19.662
59	-15.451	15.451	-19.662	16.572
60	-14.414	14.414	-16.572	13.689
61	-13.421	13.421	-13.689	11.005
62	-12.439	12.439	-11.005	8.5171
63	-11.499	11.499	-8.5171	6.2173

GENERAL CONTRACTOR

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
51 di 1221

64	-10.027	10.027	-6.2173	4.2118
65	-8.6533	8.6533	-4.2118	2.4811
66	-7.3568	7.3568	-2.4811	1.0098
67	-6.1635	6.1635	-1.0098	-0.22286
68	-5.0512	5.0512	0.22286	-1.2331
69	-4.0505	4.0505	1.2331	-2.0432
70	-3.1297	3.1297	2.0432	-2.6691
71	-2.3085	2.3085	2.6691	-3.1308
72	-1.5629	1.5629	3.1308	-3.4434
73	-0.91129	0.91129	3.4434	-3.6257
74	-0.32952	0.32952	3.6257	-3.6916
75	0.16513	-0.16513	3.6916	-3.6586
76	0.58878	-0.58878	3.6586	-3.5408
77	0.93249	-0.93249	3.5408	-3.3543
78	1.2193	-1.2193	3.3543	-3.1104
79	1.4328	-1.4328	3.1104	-2.8239
80	1.5951	-1.5951	2.8239	-2.5048
81	1.6899	-1.6899	2.5048	-2.1669
82	1.7382	-1.7382	2.1669	-1.8192
83	1.7234	-1.7234	1.8192	-1.4746
84	1.6588	-1.6588	1.4746	-1.1428
85	1.5345	-1.5345	1.1428	-0.83588
86	1.3697	-1.3697	0.83588	-0.56195
87	1.1473	-1.1473	0.56195	-0.33249
88	0.88544	-0.88544	0.33249	-0.15540
89	0.56719	-0.56719	0.15540	-4.19670E-02
90	0.20984	-0.20984	4.19670E-02	5.16356E-12

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
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|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019  17:58:38  |
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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

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	93.940	-6.74572E-04	-6.74572E-04	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
52 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      17:58:38                             |
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

CURRENT TIME IS 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1491E+06 RIMNOR=0.9513E+06
            RENORM= 6283.      REMNOR=0.3358E-19 RATIO =0.2053      TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 90.74      RMMAX = 137.2
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1491E+06 RDR =0.9513E+06
            RATIOT=0.2053      RATIOR= 0.000
            MAX UN= 17.66      IEQ= 87 NODE      44 DOF 1 Y-DISPL.F
            MIN UN=-.1386E-08 IEQ= 19 NODE      10 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1491E+06 RIMNOR=0.9513E+06
            RENORM= 560.7      REMNOR=0.5341E-18 RATIO =0.6133E-01 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 90.74      RMMAX = 137.2
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1491E+06 RDR =0.9513E+06
            RATIOT=0.6133E-01 RATIOR= 0.000
            MAX UN= 6.514      IEQ= 63 NODE      32 DOF 1 Y-DISPL.F
            MIN UN=-.9669E-09 IEQ= 7 NODE      4 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      3  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1491E+06 RIMNOR=0.9513E+06
            RENORM= 320.0      REMNOR=0.1165E-17 RATIO =0.4633E-01 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 90.74      RMMAX = 137.2
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1491E+06 RDR =0.9513E+06
            RATIOT=0.4633E-01 RATIOR= 0.000
            MAX UN= 6.925      IEQ= 13 NODE      7 DOF 1 Y-DISPL.F
            MIN UN=-.6976E-08 IEQ= 47 NODE      24 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1491E+06 RIMNOR=0.9513E+06
            RENORM= 39.14      REMNOR=0.3555E-17 RATIO =0.1620E-01 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 90.74      RMMAX = 137.2
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1491E+06 RDR =0.9513E+06
            RATIOT=0.1620E-01 RATIOR= 0.000
            MAX UN= 4.244      IEQ= 105 NODE     53 DOF 1 Y-DISPL.F
            MIN UN=-.1002E-07 IEQ= 9 NODE      5 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1491E+06 RIMNOR=0.9513E+06
            RENORM=0.7543      REMNOR=0.1230E-17 RATIO =0.2249E-02 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 90.74      RMMAX = 137.2
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1491E+06 RDR =0.9513E+06
            RATIOT=0.2249E-02 RATIOR= 0.000
            MAX UN=0.8323      IEQ= 129 NODE     65 DOF 1 Y-DISPL.F
            MIN UN=-.8664E-01 IEQ= 181 NODE     91 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
53 di 1221

```

ITER      6 RNORM = 0.000      RMNORM= 0.000
RINORM=0.1491E+06 RIMNOR=0.9513E+06
RENORM=0.2987E-15 REMNOR=0.9245E-18 RATIO =0.4476E-10 TOLER =0.1000E-03      CONVERGED !
RFMAX = 90.74      RMMAX = 137.2
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT      =0.1491E+06 RDR      =0.9513E+06
RATIOT=0.4476E-10 RATIO R= 0.000
MAX UN=0.5435E-08 IEQ=      67 NODE      34 DOF      1 Y-DISPL.F
MIN UN=-.6455E-08 IEQ=      69 NODE      35 DOF      1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :29 July 2019      17:58:38                                                                                             |
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New Project

SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 4 (AT TIME 4.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.1751438E-02	-2.1199777E-03	
2	3.1327444E-02	-2.1199595E-03	
3	3.0903459E-02	-2.1198771E-03	
4	3.0479501E-02	-2.1196715E-03	
5	3.0055603E-02	-2.1192705E-03	
6	2.9631812E-02	-2.1185880E-03	
7	2.9208193E-02	-2.1175264E-03	
8	2.8784834E-02	-2.1159761E-03	
9	2.8361843E-02	-2.1138164E-03	
10	2.7939357E-02	-2.1109157E-03	
11	2.7517536E-02	-2.1071325E-03	
12	2.7096573E-02	-2.1023135E-03	
13	2.6676690E-02	-2.0962944E-03	
14	2.6258147E-02	-2.0888995E-03	
15	2.5841235E-02	-2.0799418E-03	
16	2.5426287E-02	-2.0692233E-03	
17	2.5013448E-02	-2.0599638E-03	
18	2.4601991E-02	-2.0553727E-03	
19	2.4191003E-02	-2.0552193E-03	
20	2.3779623E-02	-2.0592622E-03	
21	2.3367036E-02	-2.0672485E-03	
22	2.2952478E-02	-2.0789143E-03	
23	2.2535243E-02	-2.0939848E-03	
24	2.2114679E-02	-2.1121736E-03	
25	2.1690187E-02	-2.1331843E-03	
26	2.1261237E-02	-2.1567093E-03	
27	2.0827357E-02	-2.1824299E-03	
28	2.0388141E-02	-2.2100164E-03	
29	1.9943251E-02	-2.2391281E-03	
30	1.9492414E-02	-2.2694133E-03	
31	1.9035432E-02	-2.3005091E-03	
32	1.8572181E-02	-2.3320418E-03	
33	1.8102612E-02	-2.3636269E-03	
34	1.7626753E-02	-2.3948691E-03	
35	1.7144716E-02	-2.4253616E-03	
36	1.6656689E-02	-2.4546871E-03	
37	1.6162948E-02	-2.4824169E-03	
38	1.5663858E-02	-2.5081112E-03	
39	1.5159869E-02	-2.5313195E-03	
40	1.4651529E-02	-2.5515800E-03	
41	1.4139468E-02	-2.5684207E-03	
42	1.3624410E-02	-2.5813583E-03	
43	1.3107207E-02	-2.5898978E-03	
44	1.2588781E-02	-2.5935341E-03	
45	1.2070158E-02	-2.5917508E-03	
46	1.1552475E-02	-2.5840569E-03	
47	1.1036955E-02	-2.5700598E-03	
48	1.0524888E-02	-2.5495020E-03	
49	1.0017602E-02	-2.5222608E-03	
50	9.5164310E-03	-2.4883482E-03	
51	9.0226981E-03	-2.4479111E-03	
52	8.5376779E-03	-2.4012306E-03	
53	8.0625894E-03	-2.3487242E-03	
54	7.5985427E-03	-2.2909008E-03	
55	7.1465478E-03	-2.2282953E-03	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 55 di 1221							
12 D	3.602	-2.7097E-02	59.24	18.01	59.24	32.63	ACTIVE	0.000	-2.200	0.000	1.000	1.000
18.01	0.000	0.000	Stratol_2_8_L_0									
13 D	3.800	-2.6677E-02	62.51	19.00	62.51	33.98	ACTIVE	0.000	-2.400	0.000	1.000	1.000
19.00	0.000	0.000	Stratol_2_8_L_0									
14 D	4.071	-2.6258E-02	66.96	20.36	66.96	35.86	ACTIVE	0.000	-2.600	0.000	1.000	1.000
20.36	0.000	0.000	Stratol_2_8_L_0									
15 D	4.274	-2.5841E-02	70.29	21.37	70.29	37.25	ACTIVE	0.000	-2.800	0.000	1.000	1.000
21.37	0.000	0.000	Stratol_2_8_L_0									
16 D	4.516	-2.5426E-02	74.27	22.58	74.27	39.37	ACTIVE	0.000	-3.000	0.000	1.000	1.000
22.58	0.000	0.000	Stratol_2_8_L_0									
17 D	4.723	-2.5013E-02	77.68	23.61	77.68	41.17	ACTIVE	0.000	-3.200	0.000	1.000	1.000
23.61	0.000	0.000	Stratol_2_8_L_0									
18 D	4.985	-2.4602E-02	81.99	24.92	81.99	43.45	ACTIVE	0.000	-3.400	0.000	1.000	1.000
24.92	0.000	0.000	Stratol_2_8_L_0									
19 D	5.194	-2.4191E-02	85.43	25.97	85.43	45.28	ACTIVE	0.000	-3.600	0.000	1.000	1.000
25.97	0.000	0.000	Stratol_2_8_L_0									
20 D	5.452	-2.3780E-02	89.67	27.26	89.67	47.53	ACTIVE	0.000	-3.800	0.000	1.000	1.000
27.26	0.000	0.000	Stratol_2_8_L_0									
21 D	5.663	-2.3367E-02	93.15	28.32	93.15	49.37	ACTIVE	0.000	-4.000	0.000	1.000	1.000
28.32	0.000	0.000	Stratol_2_8_L_0									
22 D	5.919	-2.2952E-02	97.35	29.59	97.35	51.59	ACTIVE	0.000	-4.200	0.000	1.000	1.000
29.59	0.000	0.000	Stratol_2_8_L_0									
23 D	6.131	-2.2535E-02	100.8	30.66	100.8	53.45	ACTIVE	0.000	-4.400	0.000	1.000	1.000
30.66	0.000	0.000	Stratol_2_8_L_0									
24 D	6.369	-2.2115E-02	104.8	31.85	104.8	55.52	ACTIVE	0.000	-4.600	0.000	1.000	1.000
31.85	0.000	0.000	Stratol_2_8_L_0									
25 D	6.584	-2.1690E-02	108.3	32.92	108.3	57.39	ACTIVE	0.000	-4.800	0.000	1.000	1.000
32.92	0.000	0.000	Stratol_2_8_L_0									
26 D	6.836	-2.1261E-02	112.4	34.18	112.4	59.59	ACTIVE	0.000	-5.000	0.000	1.000	1.000
34.18	0.000	0.000	Stratol_2_8_L_0									
27 D	7.051	-2.0827E-02	116.0	35.26	116.0	61.47	ACTIVE	0.000	-5.200	0.000	1.000	1.000
35.26	0.000	0.000	Stratol_2_8_L_0									
28 D	7.301	-2.0388E-02	120.1	36.51	120.1	63.65	ACTIVE	0.000	-5.400	0.000	1.000	1.000
36.51	0.000	0.000	Stratol_2_8_L_0									
29 D	7.518	-1.9943E-02	123.7	37.59	123.7	65.53	ACTIVE	0.000	-5.600	0.000	1.000	1.000
37.59	0.000	0.000	Stratol_2_8_L_0									
30 D	7.767	-1.9492E-02	127.7	38.83	127.7	67.70	ACTIVE	0.000	-5.800	0.000	1.000	1.000
38.83	0.000	0.000	Stratol_2_8_L_0									
31 D	7.972	-1.9035E-02	131.1	39.86	131.1	69.50	ACTIVE	0.000	-6.000	0.000	1.000	1.000
39.86	0.000	0.000	Stratol_2_8_L_0									
32 D	8.220	-1.8572E-02	135.2	41.10	135.2	71.66	ACTIVE	0.000	-6.200	0.000	1.000	1.000
41.10	0.000	0.000	Stratol_2_8_L_0									
33 D	8.439	-1.8103E-02	138.8	42.19	138.8	73.56	ACTIVE	0.000	-6.400	0.000	1.000	1.000
42.19	0.000	0.000	Stratol_2_8_L_0									
34 D	8.685	-1.7627E-02	142.9	43.43	142.9	75.71	ACTIVE	0.000	-6.600	0.000	1.000	1.000
43.43	0.000	0.000	Stratol_2_8_L_0									
35 D	8.905	-1.7145E-02	146.5	44.52	146.5	77.62	ACTIVE	0.000	-6.800	0.000	1.000	1.000
44.52	0.000	0.000	Stratol_2_8_L_0									
36 D	9.150	-1.6657E-02	150.5	45.75	150.5	79.76	ACTIVE	0.000	-7.000	0.000	1.000	1.000
45.75	0.000	0.000	Stratol_2_8_L_0									
37 D	9.370	-1.6163E-02	154.1	46.85	154.1	81.68	ACTIVE	0.000	-7.200	0.000	1.000	1.000
46.85	0.000	0.000	Stratol_2_8_L_0									
38 D	9.615	-1.5664E-02	158.1	48.07	158.1	83.81	ACTIVE	0.000	-7.400	0.000	1.000	1.000
48.07	0.000	0.000	Stratol_2_8_L_0									
39 D	9.826	-1.5160E-02	161.6	49.13	161.6	85.65	ACTIVE	0.000	-7.600	0.000	1.000	1.000
49.13	0.000	0.000	Stratol_2_8_L_0									
40 D	10.07	-1.4652E-02	165.6	50.35	165.6	87.78	ACTIVE	0.000	-7.800	0.000	1.000	1.000
50.35	0.000	0.000	Stratol_2_8_L_0									
41 D	10.29	-1.4139E-02	169.3	51.45	169.3	89.71	ACTIVE	0.000	-8.000	0.000	1.000	1.000
51.45	0.000	0.000	Stratol_2_8_L_0									
42 D	10.53	-1.3624E-02	173.3	52.67	173.3	91.83	ACTIVE	0.000	-8.200	0.000	1.000	1.000
52.67	0.000	0.000	Stratol_2_8_L_0									
43 D	10.76	-1.3107E-02	176.9	53.78	176.9	93.76	ACTIVE	0.000	-8.400	0.000	1.000	1.000
53.78	0.000	0.000	Stratol_2_8_L_0									
44 D	11.00	-1.2589E-02	180.9	54.99	180.9	95.88	ACTIVE	0.000	-8.600	0.000	1.000	1.000
54.99	0.000	0.000	Stratol_2_8_L_0									
45 D	11.22	-1.2070E-02	184.5	56.10	184.5	97.81	ACTIVE	0.000	-8.800	0.000	1.000	1.000
56.10	0.000	0.000	Stratol_2_8_L_0									
46 D	11.46	-1.1552E-02	188.4	57.28	188.4	99.86	ACTIVE	0.000	-9.000	0.000	1.000	1.000
57.28	0.000	0.000	Stratol_2_8_L_0									
47 D	11.68	-1.1037E-02	192.1	58.39	192.1	101.8	ACTIVE	0.000	-9.200	0.000	1.000	1.000
58.39	0.000	0.000	Stratol_2_8_L_0									
48 D	11.92	-1.0525E-02	196.0	59.60	196.0	103.9	ACTIVE	0.000	-9.400	0.000	1.000	1.000
59.60	0.000	0.000	Stratol_2_8_L_0									
49 D	12.14	-1.0018E-02	199.7	60.71	199.7	105.8	ACTIVE	0.000	-9.600	0.000	1.000	1.000
60.71	0.000	0.000	Stratol_2_8_L_0									
50 D	12.38	-9.5164E-03	203.7	61.92	203.7	107.9	ACTIVE	0.000	-9.800	0.000	1.000	1.000
61.92	0.000	0.000	Stratol_2_8_L_0									
51 D	12.61	-9.0227E-03	207.3	63.03	207.3	109.9	ACTIVE	0.000	-10.000	0.000	1.000	1.000
63.03	0.000	0.000	Stratol_2_8_L_0									
52 D	12.85	-8.5377E-03	211.3	64.24	211.3	112.0	ACTIVE	0.000	-10.200	0.000	1.000	1.000
64.24	0.000	0.000	Stratol_2_8_L_0									
53 D	13.07	-8.0626E-03	215.0	65.35	215.0	113.9	ACTIVE	0.000	-10.400	0.000	1.000	1.000
65.35	0.000	0.000	Stratol_2_8_L_0									
54 D	13.30	-7.5985E-03	218.8	66.52	218.8	116.0	ACTIVE	0.000	-10.600	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 56 di 1221
66.52	0.000	0.000	Strato1_2_8_L_0				
55 D	13.53	-7.1465E-03	222.5	67.64	222.5	117.9	ACTIVE 0.000 -10.80 0.000 1.000 1.000
67.64	0.000	0.000	Strato1_2_8_L_0				
56 D	13.77	-6.7075E-03	226.5	68.84	226.5	120.0	ACTIVE 0.000 -11.00 0.000 1.000 1.000
68.84	0.000	0.000	Strato1_2_8_L_0				
57 D	13.99	-6.2822E-03	230.1	69.96	230.1	122.0	ACTIVE 0.000 -11.20 0.000 1.000 1.000
69.96	0.000	0.000	Strato1_2_8_L_0				
58 D	14.23	-5.8714E-03	234.1	71.16	234.1	124.1	ACTIVE 0.000 -11.40 0.000 1.000 1.000
71.16	0.000	0.000	Strato1_2_8_L_0				
59 D	15.10	-5.4755E-03	237.8	75.48	237.8	126.0	UL-RL 8781. -11.60 0.000 1.000 1.000
75.48	0.000	0.000	Strato1_2_8_L_0				
60 D	16.18	-5.0952E-03	241.7	80.88	241.7	128.1	UL-RL 8781. -11.80 0.000 1.000 1.000
80.88	0.000	0.000	Strato1_2_8_L_0				
61 D	17.19	-4.7308E-03	245.3	85.95	245.3	130.0	UL-RL 8781. -12.00 0.000 1.000 1.000
85.95	0.000	0.000	Strato1_2_8_L_0				
62 D	18.21	-4.3825E-03	249.2	91.06	249.2	132.1	UL-RL 8781. -12.20 0.000 1.000 1.000
91.06	0.000	0.000	Strato1_2_8_L_0				
63 D	19.18	-4.0506E-03	252.9	95.88	252.9	134.1	UL-RL 8781. -12.40 0.000 1.000 1.000
95.88	0.000	0.000	Strato1_2_8_L_0				
64 D	8.194	-3.7351E-03	256.9	40.97	256.9	128.4	ACTIVE 0.000 -12.60 0.000 1.000 1.000
40.97	0.000	0.000	Strato2_3095_82743_L_0				
65 D	8.377	-3.4362E-03	260.8	41.89	260.8	130.4	ACTIVE 0.000 -12.80 0.000 1.000 1.000
41.89	0.000	0.000	Strato2_3095_82743_L_0				
66 D	9.256	-3.1537E-03	264.9	46.28	264.9	132.4	UL-RL 2.4840E+04 -13.00 0.000 1.000 1.000
46.28	0.000	0.000	Strato2_3095_82743_L_0				
67 D	10.93	-2.8873E-03	268.8	54.67	268.8	134.4	UL-RL 2.4840E+04 -13.20 0.000 1.000 1.000
54.67	0.000	0.000	Strato2_3095_82743_L_0				
68 D	12.56	-2.6368E-03	272.9	62.79	272.9	136.5	UL-RL 2.4840E+04 -13.40 0.000 1.000 1.000
62.79	0.000	0.000	Strato2_3095_82743_L_0				
69 D	14.07	-2.4015E-03	276.7	70.37	276.7	138.4	UL-RL 2.4840E+04 -13.60 0.000 1.000 1.000
70.37	0.000	0.000	Strato2_3095_82743_L_0				
70 D	15.55	-2.1809E-03	280.8	77.74	280.8	140.4	UL-RL 2.4840E+04 -13.80 0.000 1.000 1.000
77.74	0.000	0.000	Strato2_3095_82743_L_0				
71 D	16.93	-1.9742E-03	284.7	84.66	284.7	142.4	UL-RL 2.4840E+04 -14.00 0.000 1.000 1.000
84.66	0.000	0.000	Strato2_3095_82743_L_0				
72 D	18.27	-1.7809E-03	288.9	91.36	288.9	144.4	UL-RL 2.4840E+04 -14.20 0.000 1.000 1.000
91.36	0.000	0.000	Strato2_3095_82743_L_0				
73 D	19.53	-1.5999E-03	292.8	97.65	292.8	146.4	UL-RL 2.4840E+04 -14.40 0.000 1.000 1.000
97.65	0.000	0.000	Strato2_3095_82743_L_0				
74 D	20.75	-1.4305E-03	296.9	103.8	296.9	148.4	UL-RL 2.4840E+04 -14.60 0.000 1.000 1.000
103.8	0.000	0.000	Strato2_3095_82743_L_0				
75 D	21.90	-1.2717E-03	300.8	109.5	300.8	150.4	UL-RL 2.4840E+04 -14.80 0.000 1.000 1.000
109.5	0.000	0.000	Strato2_3095_82743_L_0				
76 D	23.02	-1.1228E-03	304.8	115.1	304.8	152.4	UL-RL 2.4840E+04 -15.00 0.000 1.000 1.000
115.1	0.000	0.000	Strato2_3095_82743_L_0				
77 D	24.08	-9.8268E-04	308.7	120.4	308.7	154.4	UL-RL 2.4840E+04 -15.20 0.000 1.000 1.000
120.4	0.000	0.000	Strato2_3095_82743_L_0				
78 D	25.12	-8.5054E-04	312.9	125.6	312.9	156.4	UL-RL 2.4840E+04 -15.40 0.000 1.000 1.000
125.6	0.000	0.000	Strato2_3095_82743_L_0				
79 D	26.11	-7.2546E-04	316.8	130.6	316.8	158.4	UL-RL 2.4840E+04 -15.60 0.000 1.000 1.000
130.6	0.000	0.000	Strato2_3095_82743_L_0				
80 D	27.09	-6.0655E-04	320.9	135.5	320.9	160.4	UL-RL 2.4840E+04 -15.80 0.000 1.000 1.000
135.5	0.000	0.000	Strato2_3095_82743_L_0				
81 D	28.03	-4.9298E-04	324.8	140.1	324.8	162.4	UL-RL 2.4840E+04 -16.00 0.000 1.000 1.000
140.1	0.000	0.000	Strato2_3095_82743_L_0				
82 D	28.96	-3.8393E-04	328.9	144.8	328.9	164.4	UL-RL 2.4840E+04 -16.20 0.000 1.000 1.000
144.8	0.000	0.000	Strato2_3095_82743_L_0				
83 D	29.85	-2.7863E-04	332.8	149.3	332.8	166.4	UL-RL 2.4840E+04 -16.40 0.000 1.000 1.000
149.3	0.000	0.000	Strato2_3095_82743_L_0				
84 D	30.74	-1.7637E-04	336.8	153.7	336.8	168.4	UL-RL 2.4840E+04 -16.60 0.000 1.000 1.000
153.7	0.000	0.000	Strato2_3095_82743_L_0				
85 D	31.61	-7.6482E-05	340.8	158.1	340.8	170.4	UL-RL 2.4840E+04 -16.80 0.000 1.000 1.000
158.1	0.000	0.000	Strato2_3095_82743_L_0				
86 D	32.49	2.1601E-05	344.9	162.5	344.9	172.4	UL-RL 2.4840E+04 -17.00 0.000 1.000 1.000
162.5	0.000	0.000	Strato2_3095_82743_L_0				
87 D	33.35	1.1841E-04	348.8	166.7	348.8	174.4	UL-RL 2.4840E+04 -17.20 0.000 1.000 1.000
166.7	0.000	0.000	Strato2_3095_82743_L_0				
88 D	34.21	2.1437E-04	352.9	171.1	352.9	176.4	UL-RL 2.4840E+04 -17.40 0.000 1.000 1.000
171.1	0.000	0.000	Strato2_3095_82743_L_0				
89 D	35.06	3.0985E-04	356.8	175.3	356.8	178.4	UL-RL 2.4840E+04 -17.60 0.000 1.000 1.000
175.3	0.000	0.000	Strato2_3095_82743_L_0				
90 D	35.93	4.0509E-04	360.9	179.6	360.9	180.4	UL-RL 2.4840E+04 -17.80 0.000 1.000 1.000
179.6	0.000	0.000	Strato2_3095_82743_L_0				
91 D	18.29	5.0026E-04	364.8	182.9	364.8	182.9	V-C 8280. -18.00 0.000 1.000 1.000
182.9	0.000	0.000	Strato2_3095_82743_L_0				



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 57 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                       |
|                                                                                                       |
|          NewProject.BaseDesignSection_28.Nominal_63          |
|          Exe Time :29 July 2019          17:58:38          |
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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 91
CURRENT TIME IS 4.0000
    
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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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
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	not available									
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
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	not available									
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
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	not available									
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available									
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
0.000	0.000	0.000	not available									
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available									
24	0.000	--	--	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
0.000	0.000	0.000	not available									
25	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available									
26	0.000	--	--	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
0.000	0.000	0.000	not available									
27	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available									
28	0.000	--	--	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000
0.000	0.000	0.000	not available									
29	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000
0.000	0.000	0.000	not available									
30	0.000	--	--	--	--	--	REMOVED	--	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 58 di 1221
0.000	0.000	0.000	not available		
31	0.000	--	--	--	--
0.000	0.000	0.000	not available		
32	0.000	--	--	--	--
0.000	0.000	0.000	not available		
33	0.000	--	--	--	--
0.000	0.000	0.000	not available		
34	0.000	--	--	--	--
0.000	0.000	0.000	not available		
35	0.000	--	--	--	--
0.000	0.000	0.000	not available		
36	0.000	--	--	--	--
0.000	0.000	0.000	not available		
37	0.000	--	--	--	--
0.000	0.000	0.000	not available		
38	0.000	--	--	--	--
0.000	0.000	0.000	not available		
39	0.000	--	--	--	--
0.000	0.000	0.000	not available		
40	0.000	--	--	--	--
0.000	0.000	0.000	not available		
41	0.000	--	--	--	--
0.000	0.000	0.000	not available		
42	0.000	--	--	--	--
0.000	0.000	0.000	not available		
43	0.000	--	--	--	--
0.000	0.000	0.000	not available		
44	0.000	--	--	--	--
0.000	0.000	0.000	not available		
45 D	1.536	1.2070E-02	1.900 7.678	167.2	90.45
7.678	0.000	0.000	Strato1_2_8_L_0		
46 D	4.607	1.1552E-02	5.700 23.03	171.0	92.41
23.03	0.000	0.000	Strato1_2_8_L_0		
47 D	7.678	1.1037E-02	9.500 38.39	174.8	94.38
38.39	0.000	0.000	Strato1_2_8_L_0		
48 D	10.75	1.0525E-02	13.30 53.75	178.6	96.36
53.75	0.000	0.000	Strato1_2_8_L_0		
49 D	13.82	1.0018E-02	17.10 69.10	182.4	98.35
69.10	0.000	0.000	Strato1_2_8_L_0		
50 D	16.89	9.5164E-03	20.90 84.46	186.2	100.3
84.46	0.000	0.000	Strato1_2_8_L_0		
51 D	19.96	9.0227E-03	24.70 99.81	190.0	102.3
99.81	0.000	0.000	Strato1_2_8_L_0		
52 D	23.03	8.5377E-03	28.50 115.2	193.8	115.2
115.2	0.000	0.000	Strato1_2_8_L_0		
53 D	24.34	8.0626E-03	32.30 121.7	197.6	121.7
121.7	0.000	0.000	Strato1_2_8_L_0		
54 D	24.55	7.5985E-03	36.10 122.8	201.4	122.8
122.8	0.000	0.000	Strato1_2_8_L_0		
55 D	24.77	7.1465E-03	39.90 123.9	205.2	123.9
123.9	0.000	0.000	Strato1_2_8_L_0		
56 D	24.99	6.7075E-03	43.70 125.0	209.0	125.0
125.0	0.000	0.000	Strato1_2_8_L_0		
57 D	25.22	6.2822E-03	47.50 126.1	212.8	126.1
126.1	0.000	0.000	Strato1_2_8_L_0		
58 D	25.46	5.8714E-03	51.30 127.3	216.6	127.3
127.3	0.000	0.000	Strato1_2_8_L_0		
59 D	25.70	5.4755E-03	55.10 128.5	220.4	128.5
128.5	0.000	0.000	Strato1_2_8_L_0		
60 D	25.95	5.0952E-03	58.90 129.7	224.2	129.7
129.7	0.000	0.000	Strato1_2_8_L_0		
61 D	26.21	4.7308E-03	62.70 131.0	228.0	131.0
131.0	0.000	0.000	Strato1_2_8_L_0		
62 D	26.47	4.3825E-03	66.50 132.3	231.8	132.3
132.3	0.000	0.000	Strato1_2_8_L_0		
63 D	26.74	4.0506E-03	70.30 133.7	235.6	133.7
133.7	0.000	0.000	Strato1_2_8_L_0		
64 D	24.02	3.7351E-03	74.10 120.1	239.4	120.1
120.1	0.000	0.000	Strato2_3095_82743_L_0		
65 D	23.87	3.4362E-03	78.10 119.3	243.4	121.7
119.3	0.000	0.000	Strato2_3095_82743_L_0		
66 D	23.59	3.1537E-03	82.10 118.0	247.4	123.7
118.0	0.000	0.000	Strato2_3095_82743_L_0		
67 D	23.35	2.8873E-03	86.10 116.8	251.4	125.7
116.8	0.000	0.000	Strato2_3095_82743_L_0		
68 D	23.15	2.6368E-03	90.10 115.8	255.4	127.7
115.8	0.000	0.000	Strato2_3095_82743_L_0		
69 D	22.99	2.4015E-03	94.10 115.0	259.4	129.7
115.0	0.000	0.000	Strato2_3095_82743_L_0		
70 D	22.87	2.1809E-03	98.10 114.3	263.4	131.7
114.3	0.000	0.000	Strato2_3095_82743_L_0		
71 D	22.78	1.9742E-03	102.1 113.9	267.4	133.7
113.9	0.000	0.000	Strato2_3095_82743_L_0		
72 D	22.72	1.7809E-03	106.1 113.6	271.4	135.7
113.6	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR

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Doc. N.

Progetto
INORLotto
12Codifica Documento
E E2 CL GA 2701 002Rev.
AFoglio
60 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      17:58:38                             |
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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_33      :
ELEMENT TYPE      2 NO.OF ELEMENTS. IN THIS GROUP      90
C U R R E N T   T I M E   I S      4.0000

```

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.76608	-0.76608	-1.79601E-10	0.15322
2	1.9391	-1.9391	-0.15322	0.54103
3	3.2487	-3.2487	-0.54103	1.1908
4	4.9853	-4.9853	-1.1908	2.1878
5	6.8716	-6.8716	-2.1878	3.5621
6	9.0954	-9.0954	-3.5621	5.3812
7	11.488	-11.488	-5.3812	7.6789
8	14.185	-14.185	-7.6789	10.516
9	17.023	-17.023	-10.516	13.921
10	20.153	-20.153	-13.921	17.951
11	23.475	-23.475	-17.951	22.646
12	27.077	-27.077	-22.646	28.062
13	30.878	-30.878	-28.062	34.237
14	34.949	-34.949	-34.237	41.227
15	39.222	-39.222	-41.227	49.071
16	-100.68	100.68	-49.071	28.935
17	-95.959	95.959	-28.935	9.7433
18	-90.974	90.974	-9.7433	-8.4515
19	-85.780	85.780	8.4515	-25.608
20	-80.328	80.328	25.608	-41.673
21	-74.664	74.664	41.673	-56.606
22	-68.746	68.746	56.606	-70.355
23	-62.615	62.615	70.355	-82.878
24	-56.245	56.245	82.878	-94.127
25	-49.661	49.661	94.127	-104.06
26	-42.825	42.825	104.06	-112.62
27	-35.774	35.774	112.62	-119.78
28	-28.473	28.473	119.78	-125.47
29	-20.955	20.955	125.47	-129.66
30	-13.188	13.188	129.66	-132.30
31	-5.2156	5.2156	132.30	-133.35
32	3.0046	-3.0046	133.35	-132.74
33	11.443	-11.443	132.74	-130.46
34	20.129	-20.129	130.46	-126.43
35	29.033	-29.033	126.43	-120.62
36	38.183	-38.183	120.62	-112.99
37	47.553	-47.553	112.99	-103.48
38	57.168	-57.168	103.48	-92.042
39	66.994	-66.994	92.042	-78.644
40	77.064	-77.064	78.644	-63.231
41	87.355	-87.355	63.231	-45.760
42	97.889	-97.889	45.760	-26.182
43	108.65	-108.65	26.182	-4.4528
44	119.64	-119.64	4.4528	19.476
45	129.33	-129.33	-19.476	45.342
46	136.18	-136.18	-45.342	72.577
47	140.18	-140.18	-72.577	100.61
48	141.35	-141.35	-100.61	128.88
49	139.67	-139.67	-128.88	156.82
50	135.16	-135.16	-156.82	183.85
51	127.80	-127.80	-183.85	209.41
52	117.62	-117.62	-209.41	232.93
53	106.34	-106.34	-232.93	254.20
54	95.094	-95.094	-254.20	273.22
55	83.851	-83.851	-273.22	289.99
56	72.626	-72.626	-289.99	304.52
57	61.396	-61.396	-304.52	316.79
58	50.170	-50.170	-316.79	326.83
59	39.564	-39.564	-326.83	334.74
60	29.791	-29.791	-334.74	340.70
61	20.776	-20.776	-340.70	344.85
62	12.519	-12.519	-344.85	347.36
63	4.9566	-4.9566	-347.36	348.35

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 61 di 1221
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64	-10.872	10.872	-348.35	346.18
65	-26.365	26.365	-346.18	340.90
66	-40.700	40.700	-340.90	332.76
67	-53.118	53.118	-332.76	322.14
68	-63.715	63.715	-322.14	309.40
69	-72.635	72.635	-309.40	294.87
70	-79.956	79.956	-294.87	278.88
71	-85.804	85.804	-278.88	261.72
72	-90.254	90.254	-261.72	243.67
73	-93.419	93.419	-243.67	224.98
74	-95.363	95.363	-224.98	205.91
75	-96.184	96.184	-205.91	186.67
76	-95.942	95.942	-186.67	167.49
77	-94.711	94.711	-167.49	148.54
78	-92.531	92.531	-148.54	130.04
79	-89.472	89.472	-130.04	112.14
80	-85.558	85.558	-112.14	95.031
81	-80.847	80.847	-95.031	78.861
82	-75.352	75.352	-78.861	63.791
83	-69.118	69.118	-63.791	49.967
84	-62.154	62.154	-49.967	37.536
85	-54.490	54.490	-37.536	26.638
86	-46.118	46.118	-26.638	17.414
87	-37.065	37.065	-17.414	10.001
88	-27.318	27.318	-10.001	4.5377
89	-16.899	16.899	-4.5377	1.1580
90	-5.7899	5.7899	-1.1580	-7.12883E-12

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      17:58:38
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR 1	149.51	-6.74572E-04	2.04298E-02	0.0000	2633.3	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
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|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      17:58:38
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER      0  RNORM = 0.000      RMNORM= 0.000
RINORM=0.1002E+07  RIMNOR=0.5249E+07
RENORM=0.2568E+05  REMNOR=0.9245E-18  RATIO =0.1601      TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 161.0      RMMAX = 348.3
RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
RDT  =0.1002E+07  RDR  =0.5249E+07
RATIO=0.1601      RATOR= 0.000
MAX UN= 1.060      IEQ= 67 NODE      34 DOF      1 Y-DISPL.F
MIN UN=-160.0      IEQ= 83 NODE      42 DOF      1 Y-DISPL.F

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 62 di 1221
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NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1002E+07 RIMNOR=0.5249E+07
 RENORM= 3.981 REMNOR=0.1080E-17 RATIO =0.1994E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 161.0 RMMAX = 348.3
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.1002E+07 RDR =0.5249E+07
 RATIOT=0.1994E-02 RATIOR= 0.000
 MAX UN= 1.023 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
 MIN UN=-.1182 IEQ= 89 NODE 45 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1002E+07 RIMNOR=0.5249E+07
 RENORM=0.6051 REMNOR=0.1038E-17 RATIO =0.7773E-03 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 161.0 RMMAX = 348.3
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.1002E+07 RDR =0.5249E+07
 RATIOT=0.7773E-03 RATIOR= 0.000
 MAX UN=0.5748 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F
 MIN UN=-.6542E-08 IEQ= 35 NODE 18 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1002E+07 RIMNOR=0.5249E+07
 RENORM=0.1118E-01 REMNOR=0.1352E-17 RATIO =0.1056E-03 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 161.0 RMMAX = 348.3
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.1002E+07 RDR =0.5249E+07
 RATIOT=0.1056E-03 RATIOR= 0.000
 MAX UN=0.1057 IEQ= 29 NODE 15 DOF 1 Y-DISPL.F
 MIN UN=-.3216E-02 IEQ= 89 NODE 45 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1002E+07 RIMNOR=0.5249E+07
 RENORM=0.3748E-15 REMNOR=0.1674E-17 RATIO =0.1935E-10 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 161.0 RMMAX = 348.3
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.1002E+07 RDR =0.5249E+07
 RATIOT=0.1935E-10 RATIOR= 0.000
 MAX UN=0.8070E-08 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
 MIN UN=-.7462E-08 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
63 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      17:58:38                             |
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New Project

SOLUTION REACHED USING 5 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 5 (AT TIME 5.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.3324042E-02	-2.5697399E-03	
2	3.2810095E-02	-2.5697145E-03	
3	3.2296162E-02	-2.5695960E-03	
4	3.1782269E-02	-2.5692966E-03	
5	3.1268462E-02	-2.5687151E-03	
6	3.0754810E-02	-2.5677367E-03	
7	3.0241403E-02	-2.5662349E-03	
8	2.9728360E-02	-2.5640712E-03	
9	2.9215828E-02	-2.5610959E-03	
10	2.8703986E-02	-2.5571488E-03	
11	2.8193045E-02	-2.5520593E-03	
12	2.7683251E-02	-2.5456453E-03	
13	2.7174888E-02	-2.5377137E-03	
14	2.6668280E-02	-2.5280598E-03	
15	2.6163793E-02	-2.5164679E-03	
16	2.5661837E-02	-2.5027111E-03	
17	2.5162639E-02	-2.4899930E-03	
18	2.4665558E-02	-2.4815026E-03	
19	2.4169775E-02	-2.4769677E-03	
20	2.3674527E-02	-2.4760983E-03	
21	2.3179112E-02	-2.4785860E-03	
22	2.2682890E-02	-2.4841043E-03	
23	2.2185291E-02	-2.4923089E-03	
24	2.1685814E-02	-2.5028374E-03	
25	2.1184029E-02	-2.5153105E-03	
26	2.0679587E-02	-2.5293313E-03	
27	2.0172221E-02	-2.5444855E-03	
28	1.9661746E-02	-2.5603414E-03	
29	1.9148070E-02	-2.5764505E-03	
30	1.8631182E-02	-2.5923471E-03	
31	1.8111177E-02	-2.6075491E-03	
32	1.7588242E-02	-2.6215579E-03	
33	1.7062668E-02	-2.6338594E-03	
34	1.6534848E-02	-2.6439232E-03	
35	1.6005287E-02	-2.6512036E-03	
36	1.5474592E-02	-2.6551398E-03	
37	1.4943492E-02	-2.6551559E-03	
38	1.4412830E-02	-2.6506619E-03	
39	1.3883568E-02	-2.6410536E-03	
40	1.3356793E-02	-2.6257140E-03	
41	1.2833709E-02	-2.6040131E-03	
42	1.2315645E-02	-2.5753081E-03	
43	1.1803831E-02	-2.5427691E-03	
44	1.1298585E-02	-2.5095537E-03	
45	1.0800103E-02	-2.4749868E-03	
46	1.0308726E-02	-2.4383867E-03	
47	9.8249246E-03	-2.3991361E-03	
48	9.3492800E-03	-2.3567538E-03	
49	8.8824570E-03	-2.3108984E-03	
50	8.4251680E-03	-2.2613678E-03	
51	7.9781589E-03	-2.2081016E-03	
52	7.5421667E-03	-2.1511798E-03	
53	7.1179114E-03	-2.0908255E-03	
54	6.7060439E-03	-2.0273602E-03	
55	6.3071511E-03	-1.9611387E-03	
56	5.9217481E-03	-1.8925222E-03	
57	5.5502773E-03	-1.8218790E-03	
58	5.1931066E-03	-1.7495848E-03	
59	4.8505279E-03	-1.6760227E-03	
60	4.5227570E-03	-1.6015686E-03	
61	4.2099367E-03	-1.5265715E-03	
62	3.9121433E-03	-1.4513498E-03	
63	3.6293924E-03	-1.3761932E-03	
64	3.3616442E-03	-1.3013640E-03	
65	3.1087978E-03	-1.2272709E-03	
66	2.8706489E-03	-1.1544826E-03	
67	2.6468811E-03	-1.0835486E-03	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 65 di 1221				
18 D	5.933	-2.4666E-02	91.99	29.67	91.99	43.45	UL-RL 8781.	-3.400	0.000	1.000	1.000
29.67	0.000	0.000	Stratol_2_8_L_0								
19 D	6.291	-2.4170E-02	95.43	31.46	95.43	45.28	UL-RL 8781.	-3.600	0.000	1.000	1.000
31.46	0.000	0.000	Stratol_2_8_L_0								
20 D	6.697	-2.3675E-02	99.67	33.48	99.67	47.53	UL-RL 8781.	-3.800	0.000	1.000	1.000
33.48	0.000	0.000	Stratol_2_8_L_0								
21 D	7.053	-2.3179E-02	103.1	35.27	103.1	49.37	UL-RL 8781.	-4.000	0.000	1.000	1.000
35.27	0.000	0.000	Stratol_2_8_L_0								
22 D	7.452	-2.2683E-02	107.3	37.26	107.3	51.59	UL-RL 8781.	-4.200	0.000	1.000	1.000
37.26	0.000	0.000	Stratol_2_8_L_0								
23 D	7.806	-2.2185E-02	110.8	39.03	110.8	53.45	UL-RL 8781.	-4.400	0.000	1.000	1.000
39.03	0.000	0.000	Stratol_2_8_L_0								
24 D	8.183	-2.1686E-02	114.8	40.91	114.8	55.52	UL-RL 8781.	-4.600	0.000	1.000	1.000
40.91	0.000	0.000	Stratol_2_8_L_0								
25 D	8.533	-2.1184E-02	118.3	42.66	118.3	57.39	UL-RL 8781.	-4.800	0.000	1.000	1.000
42.66	0.000	0.000	Stratol_2_8_L_0								
26 D	8.917	-2.0680E-02	122.4	44.59	122.4	59.59	UL-RL 8781.	-5.000	0.000	1.000	1.000
44.59	0.000	0.000	Stratol_2_8_L_0								
27 D	9.262	-2.0172E-02	126.0	46.31	126.0	61.47	UL-RL 8781.	-5.200	0.000	1.000	1.000
46.31	0.000	0.000	Stratol_2_8_L_0								
28 D	9.637	-1.9662E-02	130.1	48.19	130.1	63.65	UL-RL 8781.	-5.400	0.000	1.000	1.000
48.19	0.000	0.000	Stratol_2_8_L_0								
29 D	9.974	-1.9148E-02	133.7	49.87	133.7	65.53	UL-RL 8781.	-5.600	0.000	1.000	1.000
49.87	0.000	0.000	Stratol_2_8_L_0								
30 D	10.34	-1.8631E-02	137.7	51.70	137.7	67.70	UL-RL 8781.	-5.800	0.000	1.000	1.000
51.70	0.000	0.000	Stratol_2_8_L_0								
31 D	10.66	-1.8111E-02	141.1	53.28	141.1	69.50	UL-RL 8781.	-6.000	0.000	1.000	1.000
53.28	0.000	0.000	Stratol_2_8_L_0								
32 D	11.01	-1.7588E-02	145.2	55.04	145.2	71.66	UL-RL 8781.	-6.200	0.000	1.000	1.000
55.04	0.000	0.000	Stratol_2_8_L_0								
33 D	11.33	-1.7063E-02	148.8	56.63	148.8	73.56	UL-RL 8781.	-6.400	0.000	1.000	1.000
56.63	0.000	0.000	Stratol_2_8_L_0								
34 D	11.66	-1.6535E-02	152.9	58.31	152.9	75.71	UL-RL 8781.	-6.600	0.000	1.000	1.000
58.31	0.000	0.000	Stratol_2_8_L_0								
35 D	11.97	-1.6005E-02	156.5	59.83	156.5	77.62	UL-RL 8781.	-6.800	0.000	1.000	1.000
59.83	0.000	0.000	Stratol_2_8_L_0								
36 D	12.29	-1.5475E-02	160.5	61.43	160.5	79.76	UL-RL 8781.	-7.000	0.000	1.000	1.000
61.43	0.000	0.000	Stratol_2_8_L_0								
37 D	12.57	-1.4943E-02	164.1	62.86	164.1	81.68	UL-RL 8781.	-7.200	0.000	1.000	1.000
62.86	0.000	0.000	Stratol_2_8_L_0								
38 D	12.87	-1.4413E-02	168.1	64.36	168.1	83.81	UL-RL 8781.	-7.400	0.000	1.000	1.000
64.36	0.000	0.000	Stratol_2_8_L_0								
39 D	13.13	-1.3884E-02	171.6	65.64	171.6	85.65	UL-RL 8781.	-7.600	0.000	1.000	1.000
65.64	0.000	0.000	Stratol_2_8_L_0								
40 D	13.40	-1.3357E-02	175.6	67.02	175.6	87.78	UL-RL 8781.	-7.800	0.000	1.000	1.000
67.02	0.000	0.000	Stratol_2_8_L_0								
41 D	13.64	-1.2834E-02	179.3	68.22	179.3	89.71	UL-RL 8781.	-8.000	0.000	1.000	1.000
68.22	0.000	0.000	Stratol_2_8_L_0								
42 D	13.89	-1.2316E-02	183.3	69.46	183.3	91.83	UL-RL 8781.	-8.200	0.000	1.000	1.000
69.46	0.000	0.000	Stratol_2_8_L_0								
43 D	14.10	-1.1804E-02	186.9	70.52	186.9	93.76	UL-RL 8781.	-8.400	0.000	1.000	1.000
70.52	0.000	0.000	Stratol_2_8_L_0								
44 D	14.32	-1.1299E-02	190.9	71.62	190.9	95.88	UL-RL 8781.	-8.600	0.000	1.000	1.000
71.62	0.000	0.000	Stratol_2_8_L_0								
45 D	14.51	-1.0800E-02	194.5	72.55	194.5	97.81	UL-RL 8781.	-8.800	0.000	1.000	1.000
72.55	0.000	0.000	Stratol_2_8_L_0								
46 D	14.70	-1.0309E-02	198.4	73.50	198.4	99.86	UL-RL 8781.	-9.000	0.000	1.000	1.000
73.50	0.000	0.000	Stratol_2_8_L_0								
47 D	14.87	-9.8249E-03	202.1	74.33	202.1	101.8	UL-RL 8781.	-9.200	0.000	1.000	1.000
74.33	0.000	0.000	Stratol_2_8_L_0								
48 D	15.04	-9.3493E-03	206.0	75.22	206.0	103.9	UL-RL 8781.	-9.400	0.000	1.000	1.000
75.22	0.000	0.000	Stratol_2_8_L_0								
49 D	15.20	-8.8825E-03	209.7	75.98	209.7	105.8	UL-RL 8781.	-9.600	0.000	1.000	1.000
75.98	0.000	0.000	Stratol_2_8_L_0								
50 D	15.36	-8.4252E-03	213.7	76.80	213.7	107.9	UL-RL 8781.	-9.800	0.000	1.000	1.000
76.80	0.000	0.000	Stratol_2_8_L_0								
51 D	15.50	-7.9782E-03	217.3	77.50	217.3	109.9	UL-RL 8781.	-10.00	0.000	1.000	1.000
77.50	0.000	0.000	Stratol_2_8_L_0								
52 D	15.66	-7.5422E-03	221.3	78.28	221.3	112.0	UL-RL 8781.	-10.20	0.000	1.000	1.000
78.28	0.000	0.000	Stratol_2_8_L_0								
53 D	15.79	-7.1179E-03	225.0	78.95	225.0	113.9	UL-RL 8781.	-10.40	0.000	1.000	1.000
78.95	0.000	0.000	Stratol_2_8_L_0								
54 D	15.93	-6.7060E-03	228.8	79.66	228.8	116.0	UL-RL 8781.	-10.60	0.000	1.000	1.000
79.66	0.000	0.000	Stratol_2_8_L_0								
55 D	16.06	-6.3072E-03	232.5	80.31	232.5	117.9	UL-RL 8781.	-10.80	0.000	1.000	1.000
80.31	0.000	0.000	Stratol_2_8_L_0								
56 D	16.21	-5.9217E-03	236.5	81.04	236.5	120.0	UL-RL 8781.	-11.00	0.000	1.000	1.000
81.04	0.000	0.000	Stratol_2_8_L_0								
57 D	16.34	-5.5503E-03	240.1	81.69	240.1	122.0	UL-RL 8781.	-11.20	0.000	1.000	1.000
81.69	0.000	0.000	Stratol_2_8_L_0								
58 D	16.48	-5.1931E-03	244.1	82.42	244.1	124.1	UL-RL 8781.	-11.40	0.000	1.000	1.000
82.42	0.000	0.000	Stratol_2_8_L_0								
59 D	17.25	-4.8505E-03	247.8	86.26	247.8	126.0	UL-RL 8781.	-11.60	0.000	1.000	1.000
86.26	0.000	0.000	Stratol_2_8_L_0								
60 D	18.24	-4.5228E-03	251.7	91.21	251.7	128.1	UL-RL 8781.	-11.80	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 66 di 1221
91.21	0.000	0.000	Strato1_2_8_L_0		
61 D	19.17	-4.2099E-03	255.3 95.83	255.3	130.0
95.83	0.000	0.000	Strato1_2_8_L_0		
62 D	20.10	-3.9121E-03	259.2 100.5	259.2	132.1
100.5	0.000	0.000	Strato1_2_8_L_0		
63 D	20.98	-3.6294E-03	262.9 104.9	262.9	134.1
104.9	0.000	0.000	Strato1_2_8_L_0		
64 D	11.05	-3.3616E-03	266.9 55.25	266.9	128.4
55.25	0.000	0.000	Strato2_3095_82743_L_0		
65 D	11.00	-3.1088E-03	270.8 55.02	270.8	130.4
55.02	0.000	0.000	Strato2_3095_82743_L_0		
66 D	11.66	-2.8706E-03	274.9 58.31	274.9	132.4
58.31	0.000	0.000	Strato2_3095_82743_L_0		
67 D	13.13	-2.6469E-03	278.8 65.65	278.8	134.4
65.65	0.000	0.000	Strato2_3095_82743_L_0		
68 D	14.55	-2.4371E-03	282.9 72.75	282.9	136.5
72.75	0.000	0.000	Strato2_3095_82743_L_0		
69 D	15.87	-2.2407E-03	286.7 79.36	286.7	138.4
79.36	0.000	0.000	Strato2_3095_82743_L_0		
70 D	17.16	-2.0572E-03	290.8 85.81	290.8	140.4
85.81	0.000	0.000	Strato2_3095_82743_L_0		
71 D	18.37	-1.8859E-03	294.7 91.85	294.7	142.4
91.85	0.000	0.000	Strato2_3095_82743_L_0		
72 D	19.54	-1.7261E-03	298.9 97.72	298.9	144.4
97.72	0.000	0.000	Strato2_3095_82743_L_0		
73 D	20.64	-1.5771E-03	302.8 103.2	302.8	146.4
103.2	0.000	0.000	Strato2_3095_82743_L_0		
74 D	21.72	-1.4380E-03	306.9 108.6	306.9	148.4
108.6	0.000	0.000	Strato2_3095_82743_L_0		
75 D	22.72	-1.3082E-03	310.8 113.6	310.8	150.4
113.6	0.000	0.000	Strato2_3095_82743_L_0		
76 D	23.70	-1.1867E-03	314.8 118.5	314.8	152.4
118.5	0.000	0.000	Strato2_3095_82743_L_0		
77 D	24.63	-1.0728E-03	318.7 123.2	318.7	154.4
123.2	0.000	0.000	Strato2_3095_82743_L_0		
78 D	25.55	-9.6572E-04	322.9 127.8	322.9	156.4
127.8	0.000	0.000	Strato2_3095_82743_L_0		
79 D	26.42	-8.6465E-04	326.8 132.1	326.8	158.4
132.1	0.000	0.000	Strato2_3095_82743_L_0		
80 D	27.28	-7.6883E-04	330.9 136.4	330.9	160.4
136.4	0.000	0.000	Strato2_3095_82743_L_0		
81 D	28.11	-6.7753E-04	334.8 140.5	334.8	162.4
140.5	0.000	0.000	Strato2_3095_82743_L_0		
82 D	28.93	-5.9006E-04	338.9 144.7	338.9	164.4
144.7	0.000	0.000	Strato2_3095_82743_L_0		
83 D	29.72	-5.0576E-04	342.8 148.6	342.8	166.4
148.6	0.000	0.000	Strato2_3095_82743_L_0		
84 D	30.51	-4.2402E-04	346.8 152.6	346.8	168.4
152.6	0.000	0.000	Strato2_3095_82743_L_0		
85 D	31.28	-3.4429E-04	350.8 156.4	350.8	170.4
156.4	0.000	0.000	Strato2_3095_82743_L_0		
86 D	32.06	-2.6607E-04	354.9 160.3	354.9	172.4
160.3	0.000	0.000	Strato2_3095_82743_L_0		
87 D	32.82	-1.8893E-04	358.8 164.1	358.8	174.4
164.1	0.000	0.000	Strato2_3095_82743_L_0		
88 D	33.59	-1.1249E-04	362.9 167.9	362.9	176.4
167.9	0.000	0.000	Strato2_3095_82743_L_0		
89 D	34.34	-3.6459E-05	366.8 171.7	366.8	180.3
171.7	0.000	0.000	Strato2_3095_82743_L_0		
90 D	35.11	3.9377E-05	370.9 175.6	370.9	184.6
175.6	0.000	0.000	Strato2_3095_82743_L_0		
91 D	17.83	1.1515E-04	374.8 178.3	374.8	187.9
178.3	0.000	0.000	Strato2_3095_82743_L_0		



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 67 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                       |
|          NewProject.BaseDesignSection_28.Nominal_63          |
|          Exe Time :29 July 2019          17:58:38          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.2000	0.000	1.000	1.000
2	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.6000	0.000	1.000	1.000
3	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.000	0.000	1.000	1.000
4	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.400	0.000	1.000	1.000
5	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.800	0.000	1.000	1.000
6	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.200	0.000	1.000	1.000
7	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.600	0.000	1.000	1.000
8	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.000	0.000	1.000	1.000
9	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.400	0.000	1.000	1.000
10	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.800	0.000	1.000	1.000
11	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
12	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
13	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
14	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000
15	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.800	0.000	1.000	1.000
16	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
17	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
18	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
19	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
20	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
21	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
22	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
23	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
24	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
25	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
26	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
27	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
28	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
29	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
30	0.000	--	--	--	--	--	REMOVED	--				

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 68 di 1221
0.000	0.000	0.000	not available		
31	0.000	--	--	--	--
0.000	0.000	0.000	not available		
32	0.000	--	--	--	--
0.000	0.000	0.000	not available		
33	0.000	--	--	--	--
0.000	0.000	0.000	not available		
34	0.000	--	--	--	--
0.000	0.000	0.000	not available		
35	0.000	--	--	--	--
0.000	0.000	0.000	not available		
36	0.000	--	--	--	--
0.000	0.000	0.000	not available		
37	0.000	--	--	--	--
0.000	0.000	0.000	not available		
38	0.000	--	--	--	--
0.000	0.000	0.000	not available		
39	0.000	--	--	--	--
0.000	0.000	0.000	not available		
40	0.000	--	--	--	--
0.000	0.000	0.000	not available		
41	0.000	--	--	--	--
0.000	0.000	0.000	not available		
42	0.000	--	--	--	--
0.000	0.000	0.000	not available		
43	0.000	--	--	--	--
0.000	0.000	0.000	not available		
44	0.000	--	--	--	--
0.000	0.000	0.000	not available		
45 D	0.1191	1.0800E-02	1.900 0.5955	167.2	90.45
0.5955	0.000	0.000	Strato1_2_8_L_0		
46 D	3.091	1.0309E-02	5.700 15.45	171.0	92.41
15.45	0.000	0.000	Strato1_2_8_L_0		
47 D	6.201	9.8249E-03	9.500 31.00	174.8	94.38
31.00	0.000	0.000	Strato1_2_8_L_0		
48 D	9.316	9.3493E-03	13.30 46.58	178.6	96.36
46.58	0.000	0.000	Strato1_2_8_L_0		
49 D	12.44	8.8825E-03	17.10 62.18	182.4	98.35
62.18	0.000	0.000	Strato1_2_8_L_0		
50 D	15.56	8.4252E-03	20.90 77.81	186.2	100.3
77.81	0.000	0.000	Strato1_2_8_L_0		
51 D	18.69	7.9782E-03	24.70 93.45	190.0	102.3
93.45	0.000	0.000	Strato1_2_8_L_0		
52 D	21.82	7.5422E-03	28.50 109.1	193.8	115.2
109.1	0.000	0.000	Strato1_2_8_L_0		
53 D	23.19	7.1179E-03	32.30 116.0	197.6	121.7
116.0	0.000	0.000	Strato1_2_8_L_0		
54 D	23.47	6.7060E-03	36.10 117.3	201.4	122.8
117.3	0.000	0.000	Strato1_2_8_L_0		
55 D	23.75	6.3072E-03	39.90 118.7	205.2	123.9
118.7	0.000	0.000	Strato1_2_8_L_0		
56 D	24.04	5.9217E-03	43.70 120.2	209.0	125.0
120.2	0.000	0.000	Strato1_2_8_L_0		
57 D	24.33	5.5503E-03	47.50 121.7	212.8	126.1
121.7	0.000	0.000	Strato1_2_8_L_0		
58 D	24.63	5.1931E-03	51.30 123.2	216.6	127.3
123.2	0.000	0.000	Strato1_2_8_L_0		
59 D	24.94	4.8505E-03	55.10 124.7	220.4	128.5
124.7	0.000	0.000	Strato1_2_8_L_0		
60 D	25.25	4.5228E-03	58.90 126.3	224.2	129.7
126.3	0.000	0.000	Strato1_2_8_L_0		
61 D	25.57	4.2099E-03	62.70 127.9	228.0	131.0
127.9	0.000	0.000	Strato1_2_8_L_0		
62 D	25.90	3.9121E-03	66.50 129.5	231.8	132.3
129.5	0.000	0.000	Strato1_2_8_L_0		
63 D	26.23	3.6294E-03	70.30 131.1	235.6	133.7
131.1	0.000	0.000	Strato1_2_8_L_0		
64 D	23.02	3.3616E-03	74.10 115.1	239.4	120.1
115.1	0.000	0.000	Strato2_3095_82743_L_0		
65 D	22.99	3.1088E-03	78.10 114.9	243.4	121.7
114.9	0.000	0.000	Strato2_3095_82743_L_0		
66 D	22.83	2.8706E-03	82.10 114.1	247.4	123.7
114.1	0.000	0.000	Strato2_3095_82743_L_0		
67 D	22.71	2.6469E-03	86.10 113.5	251.4	125.7
113.5	0.000	0.000	Strato2_3095_82743_L_0		
68 D	22.62	2.4371E-03	90.10 113.1	255.4	127.7
113.1	0.000	0.000	Strato2_3095_82743_L_0		
69 D	22.56	2.2407E-03	94.10 112.8	259.4	129.7
112.8	0.000	0.000	Strato2_3095_82743_L_0		
70 D	22.54	2.0572E-03	98.10 112.7	263.4	131.7
112.7	0.000	0.000	Strato2_3095_82743_L_0		
71 D	22.54	1.8859E-03	102.1 112.7	267.4	133.7
112.7	0.000	0.000	Strato2_3095_82743_L_0		
72 D	22.57	1.7261E-03	106.1 112.9	271.4	135.7
112.9	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 69 di 1221							
73 D	22.63	1.5771E-03	110.1	113.2	275.4	137.7	UL-RL	1.3463E+04	-14.40	0.000	1.000	1.000
113.2	0.000	0.000	Strato2_3095_82743_L_0									
74 D	22.72	1.4380E-03	114.1	113.6	279.4	139.7	UL-RL	1.3463E+04	-14.60	0.000	1.000	1.000
113.6	0.000	0.000	Strato2_3095_82743_L_0									
75 D	22.82	1.3082E-03	118.1	114.1	283.4	141.7	UL-RL	1.3463E+04	-14.80	0.000	1.000	1.000
114.1	0.000	0.000	Strato2_3095_82743_L_0									
76 D	22.95	1.1867E-03	122.1	114.7	287.4	143.7	UL-RL	1.3463E+04	-15.00	0.000	1.000	1.000
114.7	0.000	0.000	Strato2_3095_82743_L_0									
77 D	23.09	1.0728E-03	126.1	115.5	291.4	145.7	UL-RL	1.3463E+04	-15.20	0.000	1.000	1.000
115.5	0.000	0.000	Strato2_3095_82743_L_0									
78 D	23.25	9.6572E-04	130.1	116.3	295.4	147.7	UL-RL	1.3463E+04	-15.40	0.000	1.000	1.000
116.3	0.000	0.000	Strato2_3095_82743_L_0									
79 D	23.43	8.6465E-04	134.1	117.1	299.4	149.7	UL-RL	1.3463E+04	-15.60	0.000	1.000	1.000
117.1	0.000	0.000	Strato2_3095_82743_L_0									
80 D	23.61	7.6883E-04	138.1	118.1	303.4	151.7	UL-RL	1.3463E+04	-15.80	0.000	1.000	1.000
118.1	0.000	0.000	Strato2_3095_82743_L_0									
81 D	23.81	6.7753E-04	142.1	119.1	307.4	153.7	UL-RL	1.3463E+04	-16.00	0.000	1.000	1.000
119.1	0.000	0.000	Strato2_3095_82743_L_0									
82 D	24.02	5.9006E-04	146.1	120.1	311.4	155.7	UL-RL	1.3463E+04	-16.20	0.000	1.000	1.000
120.1	0.000	0.000	Strato2_3095_82743_L_0									
83 D	24.23	5.0576E-04	150.1	121.1	315.4	157.7	UL-RL	1.3463E+04	-16.40	0.000	1.000	1.000
121.1	0.000	0.000	Strato2_3095_82743_L_0									
84 D	24.45	4.2402E-04	154.1	122.2	319.4	159.7	UL-RL	1.3463E+04	-16.60	0.000	1.000	1.000
122.2	0.000	0.000	Strato2_3095_82743_L_0									
85 D	24.67	3.4429E-04	158.1	123.3	323.4	161.7	UL-RL	1.3463E+04	-16.80	0.000	1.000	1.000
123.3	0.000	0.000	Strato2_3095_82743_L_0									
86 D	24.89	2.6607E-04	162.1	124.5	327.4	163.7	UL-RL	1.3463E+04	-17.00	0.000	1.000	1.000
124.5	0.000	0.000	Strato2_3095_82743_L_0									
87 D	25.12	1.8893E-04	166.1	125.6	331.4	165.7	UL-RL	1.3463E+04	-17.20	0.000	1.000	1.000
125.6	0.000	0.000	Strato2_3095_82743_L_0									
88 D	25.35	1.1249E-04	170.1	126.7	335.4	167.7	UL-RL	1.3463E+04	-17.40	0.000	1.000	1.000
126.7	0.000	0.000	Strato2_3095_82743_L_0									
89 D	25.58	3.6459E-05	174.1	127.9	339.4	169.7	UL-RL	1.3463E+04	-17.60	0.000	1.000	1.000
127.9	0.000	0.000	Strato2_3095_82743_L_0									
90 D	25.80	-3.9377E-05	178.1	129.0	343.4	171.7	UL-RL	1.3463E+04	-17.80	0.000	1.000	1.000
129.0	0.000	0.000	Strato2_3095_82743_L_0									
91 D	13.02	-1.1515E-04	182.1	130.2	347.4	173.7	UL-RL	1.3463E+04	-18.00	0.000	1.000	1.000
130.2	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019  17:58:38                               |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.0701	-1.0701	-1.2311E-10	0.21402
2	2.8511	-2.8511	-0.21402	0.78423
3	4.7687	-4.7687	-0.78423	1.7380
4	7.1133	-7.1133	-1.7380	3.1606
5	9.6076	-9.6076	-3.1606	5.0821
6	12.439	-12.439	-5.0821	7.5700
7	15.440	-15.440	-7.5700	10.658
8	18.745	-18.745	-10.658	14.407
9	22.191	-22.191	-14.407	18.845
10	25.929	-25.929	-18.845	24.031
11	29.859	-29.859	-24.031	30.003
12	34.069	-34.069	-30.003	36.817
13	38.478	-38.478	-36.817	44.512
14	43.157	-43.157	-44.512	53.144
15	48.038	-48.038	-53.144	62.751
16	-91.798	91.798	-62.751	44.392
17	-86.277	86.277	-44.392	27.136
18	-80.344	80.344	-27.136	11.067
19	-74.053	74.053	-11.067	-3.7431
20	-67.356	67.356	3.7431	-17.214
21	-60.303	60.303	17.214	-29.275
22	-52.850	52.850	29.275	-39.845
23	-45.045	45.045	39.845	-48.854
24	-36.862	36.862	48.854	-56.226

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



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GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 70 di 1221
25	-28.329	28.329	56.226	-61.892	
26	-19.412	19.412	61.892	-65.774	
27	-10.150	10.150	65.774	-67.804	
28	-0.51292	0.51292	67.804	-67.907	
29	9.4616	-9.4616	67.907	-66.015	
30	19.801	-19.801	66.015	-62.055	
31	30.456	-30.456	62.055	-55.963	
32	41.465	-41.465	55.963	-47.670	
33	52.790	-52.790	47.670	-37.112	
34	64.453	-64.453	37.112	-24.222	
35	76.418	-76.418	24.222	-8.9383	
36	88.704	-88.704	8.9383	8.8025	
37	101.28	-101.28	-8.8025	29.058	
38	114.15	-114.15	-29.058	51.887	
39	127.27	-127.27	-51.887	77.342	
40	140.68	-140.68	-77.342	105.48	
41	154.32	-154.32	-105.48	136.34	
42	7.1959	-7.1959	-136.34	137.78	
43	21.301	-21.301	-137.78	142.04	
44	35.625	-35.625	-142.04	149.17	
45	50.017	-50.017	-149.17	159.17	
46	61.626	-61.626	-159.17	171.50	
47	70.291	-70.291	-171.50	185.55	
48	76.018	-76.018	-185.55	200.76	
49	78.777	-78.777	-200.76	216.51	
50	78.576	-78.576	-216.51	232.23	
51	75.387	-75.387	-232.23	247.31	
52	69.222	-69.222	-247.31	261.15	
53	61.818	-61.818	-261.15	273.51	
54	54.283	-54.283	-273.51	284.37	
55	46.598	-46.598	-284.37	293.69	
56	38.770	-38.770	-293.69	301.44	
57	30.777	-30.777	-301.44	307.60	
58	22.629	-22.629	-307.60	312.13	
59	14.943	-14.943	-312.13	315.11	
60	7.9327	-7.9327	-315.11	316.70	
61	1.5271	-1.5271	-316.70	317.01	
62	-4.2707	4.2707	-317.01	316.15	
63	-9.5201	9.5201	-316.15	314.25	
64	-21.488	21.488	-314.25	309.95	
65	-33.472	33.472	-309.95	303.26	
66	-44.639	44.639	-303.26	294.33	
67	-54.215	54.215	-294.33	283.49	
68	-62.282	62.282	-283.49	271.03	
69	-68.971	68.971	-271.03	257.23	
70	-74.344	74.344	-257.23	242.37	
71	-78.515	78.515	-242.37	226.66	
72	-81.546	81.546	-226.66	210.35	
73	-83.537	83.537	-210.35	193.65	
74	-84.539	84.539	-193.65	176.74	
75	-84.639	84.639	-176.74	159.81	
76	-83.886	83.886	-159.81	143.03	
77	-82.346	82.346	-143.03	126.56	
78	-80.049	80.049	-126.56	110.55	
79	-77.056	77.056	-110.55	95.144	
80	-73.385	73.385	-95.144	80.467	
81	-69.087	69.087	-80.467	66.649	
82	-64.171	64.171	-66.649	53.815	
83	-58.677	58.677	-53.815	42.080	
84	-52.611	52.611	-42.080	31.557	
85	-45.998	45.998	-31.557	22.357	
86	-38.830	38.830	-22.357	14.591	
87	-31.131	31.131	-14.591	8.3651	
88	-22.889	22.889	-8.3651	3.7874	
89	-14.122	14.122	-3.7874	0.96297	
90	-4.8148	4.8148	-0.96297	1.48243E-13	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



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12

Codifica Documento
E E2 CL GA 2701 002

Rev.
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Foglio
71 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019  17:58:38  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	150.11	-6.74572E-04	2.06573E-02	0.0000	2633.3	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019  17:58:38  |
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	166.70	-1.26417E-03	-1.26417E-03	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7209E+06 RIMNOR=0.4718E+07
RENORM= 9438. REMNOR=0.1674E-17 RATIO =0.1144 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 161.0 RMMAX = 317.0
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.7209E+06 RDR =0.4718E+07
RATIOT=0.1144 RATOR= 0.000
MAX UN= 26.23 IEQ= 125 NODE 63 DOF 1 Y-DISPL.F
MIN UN=-.7462E-08 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7209E+06 RIMNOR=0.4718E+07
RENORM= 818.6 REMNOR=0.1485E-17 RATIO =0.3370E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 161.0 RMMAX = 317.0
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.7209E+06 RDR =0.4718E+07
RATIOT=0.3370E-01 RATOR= 0.000
MAX UN= 15.00 IEQ= 127 NODE 64 DOF 1 Y-DISPL.F
MIN UN=-.1117 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7209E+06 RIMNOR=0.4718E+07
RENORM= 148.7 REMNOR=0.3178E-17 RATIO =0.1436E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 161.0 RMMAX = 317.0
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.7209E+06 RDR =0.4718E+07
RATIOT=0.1436E-01 RATOR= 0.000
MAX UN= 5.091 IEQ= 133 NODE 67 DOF 1 Y-DISPL.F
MIN UN=-.3747 IEQ= 181 NODE 91 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
72 di 1221

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RINORM=0.7209E+06 RIMNOR=0.4718E+07
RENORM= 7.609 REMNOR=0.2714E-17 RATIO =0.3249E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 161.0 RMMAX = 317.0
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.7209E+06 RDR =0.4718E+07
RATIOT=0.3249E-02 RATIO= 0.000
MAX UN= 1.459 IEQ= 19 NODE 10 DOF 1 Y-DISPL.F
MIN UN=-.9362 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 5 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7209E+06 RIMNOR=0.4718E+07
RENORM=0.1831E-03 REMNOR=0.2175E-17 RATIO =0.1594E-04 TOLER =0.1000E-03 CONVERGED !
RFMAX = 161.0 RMMAX = 317.0
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.7209E+06 RDR =0.4718E+07
RATIOT=0.1594E-04 RATIO= 0.000
MAX UN=0.1353E-01 IEQ= 131 NODE 66 DOF 1 Y-DISPL.F
MIN UN=-.7065E-08 IEQ= 99 NODE 50 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| | |
| NewProject.BaseDesignSection_28.Nominal_63 |
| Exe Time :29 July 2019 17:58:38 |
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New Project

SOLUTION REACHED USING 5 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 6 (AT TIME 6.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.2765966E-02	-1.5202175E-03	
2	3.2461924E-02	-1.5201879E-03	
3	3.2157898E-02	-1.5200556E-03	
4	3.1853915E-02	-1.5197323E-03	
5	3.1550024E-02	-1.5191211E-03	
6	3.1246292E-02	-1.5181214E-03	
7	3.0942808E-02	-1.5166325E-03	
8	3.0639679E-02	-1.5145448E-03	
9	3.0337038E-02	-1.5117375E-03	
10	3.0035041E-02	-1.5080791E-03	
11	2.9733872E-02	-1.5034280E-03	
12	2.9433746E-02	-1.4976310E-03	
13	2.9134907E-02	-1.4905238E-03	
14	2.8837636E-02	-1.4819305E-03	
15	2.8542247E-02	-1.4716644E-03	
16	2.8249095E-02	-1.4595274E-03	
17	2.7958335E-02	-1.4489039E-03	
18	2.7669207E-02	-1.4431678E-03	
19	2.7380757E-02	-1.4420887E-03	
20	2.7092077E-02	-1.4454250E-03	
21	2.6802310E-02	-1.4529239E-03	
22	2.6510648E-02	-1.4643215E-03	
23	2.6216340E-02	-1.4793428E-03	
24	2.5918690E-02	-1.4977017E-03	
25	2.5617058E-02	-1.5191016E-03	
26	2.5310867E-02	-1.5432350E-03	
27	2.4999603E-02	-1.5697831E-03	
28	2.4682815E-02	-1.5984163E-03	
29	2.4360121E-02	-1.6287938E-03	
30	2.4031206E-02	-1.6605641E-03	
31	2.3695827E-02	-1.6933640E-03	
32	2.3353817E-02	-1.7268200E-03	
33	2.3005081E-02	-1.7605476E-03	
34	2.2649606E-02	-1.7941514E-03	
35	2.2287458E-02	-1.8272247E-03	
36	2.1918781E-02	-1.8593501E-03	
37	2.1543809E-02	-1.8900990E-03	
38	2.1162862E-02	-1.9190317E-03	
39	2.0776348E-02	-1.9456973E-03	
40	2.0384767E-02	-1.9696344E-03	
41	1.9988709E-02	-1.9903708E-03	
42	1.9588857E-02	-2.0074234E-03	
43	1.9185711E-02	-2.0247985E-03	
44	1.8778651E-02	-2.0464926E-03	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 74 di 1221							
8 D	2.697	-3.0640E-02	44.36	13.49	54.36	26.33	ACTIVE	0.000	-1.400	0.000	1.000	1.000
13.49	0.000	0.000	Stratol_2_8_L_0									
9 D	2.838	-3.0337E-02	46.68	14.19	56.68	27.28	ACTIVE	0.000	-1.600	0.000	1.000	1.000
14.19	0.000	0.000	Stratol_2_8_L_0									
10 D	3.129	-3.0035E-02	51.47	15.65	61.47	29.34	ACTIVE	0.000	-1.800	0.000	1.000	1.000
15.65	0.000	0.000	Stratol_2_8_L_0									
11 D	3.323	-2.9734E-02	54.65	16.61	64.65	30.67	ACTIVE	0.000	-2.000	0.000	1.000	1.000
16.61	0.000	0.000	Stratol_2_8_L_0									
12 D	3.602	-2.9434E-02	59.24	18.01	69.24	32.63	ACTIVE	0.000	-2.200	0.000	1.000	1.000
18.01	0.000	0.000	Stratol_2_8_L_0									
13 D	3.800	-2.9135E-02	62.51	19.00	72.51	33.98	ACTIVE	0.000	-2.400	0.000	1.000	1.000
19.00	0.000	0.000	Stratol_2_8_L_0									
14 D	4.071	-2.8838E-02	66.96	20.36	76.96	35.86	ACTIVE	0.000	-2.600	0.000	1.000	1.000
20.36	0.000	0.000	Stratol_2_8_L_0									
15 D	4.274	-2.8542E-02	70.29	21.37	80.29	37.25	ACTIVE	0.000	-2.800	0.000	1.000	1.000
21.37	0.000	0.000	Stratol_2_8_L_0									
16 D	4.516	-2.8249E-02	74.27	22.58	84.27	39.37	ACTIVE	0.000	-3.000	0.000	1.000	1.000
22.58	0.000	0.000	Stratol_2_8_L_0									
17 D	4.723	-2.7958E-02	77.68	23.61	87.68	41.17	ACTIVE	0.000	-3.200	0.000	1.000	1.000
23.61	0.000	0.000	Stratol_2_8_L_0									
18 D	4.985	-2.7669E-02	81.99	24.92	91.99	43.45	ACTIVE	0.000	-3.400	0.000	1.000	1.000
24.92	0.000	0.000	Stratol_2_8_L_0									
19 D	5.194	-2.7381E-02	85.43	25.97	95.43	45.28	ACTIVE	0.000	-3.600	0.000	1.000	1.000
25.97	0.000	0.000	Stratol_2_8_L_0									
20 D	5.452	-2.7092E-02	89.67	27.26	99.67	47.53	ACTIVE	0.000	-3.800	0.000	1.000	1.000
27.26	0.000	0.000	Stratol_2_8_L_0									
21 D	5.663	-2.6802E-02	93.15	28.32	103.1	49.37	ACTIVE	0.000	-4.000	0.000	1.000	1.000
28.32	0.000	0.000	Stratol_2_8_L_0									
22 D	5.919	-2.6511E-02	97.35	29.59	107.3	51.59	ACTIVE	0.000	-4.200	0.000	1.000	1.000
29.59	0.000	0.000	Stratol_2_8_L_0									
23 D	6.131	-2.6216E-02	100.8	30.66	110.8	53.45	ACTIVE	0.000	-4.400	0.000	1.000	1.000
30.66	0.000	0.000	Stratol_2_8_L_0									
24 D	6.369	-2.5919E-02	104.8	31.85	114.8	55.52	ACTIVE	0.000	-4.600	0.000	1.000	1.000
31.85	0.000	0.000	Stratol_2_8_L_0									
25 D	6.584	-2.5617E-02	108.3	32.92	118.3	57.39	ACTIVE	0.000	-4.800	0.000	1.000	1.000
32.92	0.000	0.000	Stratol_2_8_L_0									
26 D	6.836	-2.5311E-02	112.4	34.18	122.4	59.59	ACTIVE	0.000	-5.000	0.000	1.000	1.000
34.18	0.000	0.000	Stratol_2_8_L_0									
27 D	7.051	-2.5000E-02	116.0	35.26	126.0	61.47	ACTIVE	0.000	-5.200	0.000	1.000	1.000
35.26	0.000	0.000	Stratol_2_8_L_0									
28 D	7.301	-2.4683E-02	120.1	36.51	130.1	63.65	ACTIVE	0.000	-5.400	0.000	1.000	1.000
36.51	0.000	0.000	Stratol_2_8_L_0									
29 D	7.518	-2.4360E-02	123.7	37.59	133.7	65.53	ACTIVE	0.000	-5.600	0.000	1.000	1.000
37.59	0.000	0.000	Stratol_2_8_L_0									
30 D	7.767	-2.4031E-02	127.7	38.83	137.7	67.70	ACTIVE	0.000	-5.800	0.000	1.000	1.000
38.83	0.000	0.000	Stratol_2_8_L_0									
31 D	7.972	-2.3696E-02	131.1	39.86	141.1	69.50	ACTIVE	0.000	-6.000	0.000	1.000	1.000
39.86	0.000	0.000	Stratol_2_8_L_0									
32 D	8.220	-2.3354E-02	135.2	41.10	145.2	71.66	ACTIVE	0.000	-6.200	0.000	1.000	1.000
41.10	0.000	0.000	Stratol_2_8_L_0									
33 D	8.439	-2.3005E-02	138.8	42.19	148.8	73.56	ACTIVE	0.000	-6.400	0.000	1.000	1.000
42.19	0.000	0.000	Stratol_2_8_L_0									
34 D	8.685	-2.2650E-02	142.9	43.43	152.9	75.71	ACTIVE	0.000	-6.600	0.000	1.000	1.000
43.43	0.000	0.000	Stratol_2_8_L_0									
35 D	8.905	-2.2287E-02	146.5	44.52	156.5	77.62	ACTIVE	0.000	-6.800	0.000	1.000	1.000
44.52	0.000	0.000	Stratol_2_8_L_0									
36 D	9.150	-2.1919E-02	150.5	45.75	160.5	79.76	ACTIVE	0.000	-7.000	0.000	1.000	1.000
45.75	0.000	0.000	Stratol_2_8_L_0									
37 D	9.370	-2.1544E-02	154.1	46.85	164.1	81.68	ACTIVE	0.000	-7.200	0.000	1.000	1.000
46.85	0.000	0.000	Stratol_2_8_L_0									
38 D	9.615	-2.1163E-02	158.1	48.07	168.1	83.81	ACTIVE	0.000	-7.400	0.000	1.000	1.000
48.07	0.000	0.000	Stratol_2_8_L_0									
39 D	9.826	-2.0776E-02	161.6	49.13	171.6	85.65	ACTIVE	0.000	-7.600	0.000	1.000	1.000
49.13	0.000	0.000	Stratol_2_8_L_0									
40 D	10.07	-2.0385E-02	165.6	50.35	175.6	87.78	ACTIVE	0.000	-7.800	0.000	1.000	1.000
50.35	0.000	0.000	Stratol_2_8_L_0									
41 D	10.29	-1.9989E-02	169.3	51.45	179.3	89.71	ACTIVE	0.000	-8.000	0.000	1.000	1.000
51.45	0.000	0.000	Stratol_2_8_L_0									
42 D	10.53	-1.9589E-02	173.3	52.67	183.3	91.83	ACTIVE	0.000	-8.200	0.000	1.000	1.000
52.67	0.000	0.000	Stratol_2_8_L_0									
43 D	10.76	-1.9186E-02	176.9	53.78	186.9	93.76	ACTIVE	0.000	-8.400	0.000	1.000	1.000
53.78	0.000	0.000	Stratol_2_8_L_0									
44 D	11.00	-1.8779E-02	180.9	54.99	190.9	95.88	ACTIVE	0.000	-8.600	0.000	1.000	1.000
54.99	0.000	0.000	Stratol_2_8_L_0									
45 D	11.22	-1.8367E-02	184.5	56.10	194.5	97.81	ACTIVE	0.000	-8.800	0.000	1.000	1.000
56.10	0.000	0.000	Stratol_2_8_L_0									
46 D	11.46	-1.7950E-02	188.4	57.28	198.4	99.86	ACTIVE	0.000	-9.000	0.000	1.000	1.000
57.28	0.000	0.000	Stratol_2_8_L_0									
47 D	11.68	-1.7526E-02	192.1	58.39	202.1	101.8	ACTIVE	0.000	-9.200	0.000	1.000	1.000
58.39	0.000	0.000	Stratol_2_8_L_0									
48 D	11.92	-1.7097E-02	196.0	59.60	206.0	103.9	ACTIVE	0.000	-9.400	0.000	1.000	1.000
59.60	0.000	0.000	Stratol_2_8_L_0									
49 D	12.14	-1.6660E-02	199.7	60.71	209.7	105.8	ACTIVE	0.000	-9.600	0.000	1.000	1.000
60.71	0.000	0.000	Stratol_2_8_L_0									
50 D	12.38	-1.6216E-02	203.7	61.92	213.7	107.9	ACTIVE	0.000	-9.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 75 di 1221				
61.92	0.000	0.000	Strato1_2_8_L_0								
51 D	12.61	-1.5765E-02	207.3 63.03	217.3	109.9	ACTIVE	0.000	-10.00	0.000	1.000	1.000
63.03	0.000	0.000	Strato1_2_8_L_0								
52 D	12.85	-1.5306E-02	211.3 64.24	221.3	112.0	ACTIVE	0.000	-10.20	0.000	1.000	1.000
64.24	0.000	0.000	Strato1_2_8_L_0								
53 D	13.07	-1.4840E-02	215.0 65.35	225.0	113.9	ACTIVE	0.000	-10.40	0.000	1.000	1.000
65.35	0.000	0.000	Strato1_2_8_L_0								
54 D	13.30	-1.4367E-02	218.8 66.52	228.8	116.0	ACTIVE	0.000	-10.60	0.000	1.000	1.000
66.52	0.000	0.000	Strato1_2_8_L_0								
55 D	13.53	-1.3888E-02	222.5 67.64	232.5	117.9	ACTIVE	0.000	-10.80	0.000	1.000	1.000
67.64	0.000	0.000	Strato1_2_8_L_0								
56 D	13.77	-1.3402E-02	226.5 68.84	236.5	120.0	ACTIVE	0.000	-11.00	0.000	1.000	1.000
68.84	0.000	0.000	Strato1_2_8_L_0								
57 D	13.99	-1.2910E-02	230.1 69.96	240.1	122.0	ACTIVE	0.000	-11.20	0.000	1.000	1.000
69.96	0.000	0.000	Strato1_2_8_L_0								
58 D	14.23	-1.2413E-02	234.1 71.16	244.1	124.1	ACTIVE	0.000	-11.40	0.000	1.000	1.000
71.16	0.000	0.000	Strato1_2_8_L_0								
59 D	14.46	-1.1912E-02	237.8 72.28	247.8	126.0	ACTIVE	0.000	-11.60	0.000	1.000	1.000
72.28	0.000	0.000	Strato1_2_8_L_0								
60 D	14.70	-1.1408E-02	241.7 73.48	251.7	128.1	ACTIVE	0.000	-11.80	0.000	1.000	1.000
73.48	0.000	0.000	Strato1_2_8_L_0								
61 D	14.91	-1.0902E-02	245.3 74.57	255.3	130.0	ACTIVE	0.000	-12.00	0.000	1.000	1.000
74.57	0.000	0.000	Strato1_2_8_L_0								
62 D	15.15	-1.0396E-02	249.2 75.77	259.2	132.1	ACTIVE	0.000	-12.20	0.000	1.000	1.000
75.77	0.000	0.000	Strato1_2_8_L_0								
63 D	15.38	-9.8895E-03	252.9 76.89	262.9	134.1	ACTIVE	0.000	-12.40	0.000	1.000	1.000
76.89	0.000	0.000	Strato1_2_8_L_0								
64 D	8.194	-9.3855E-03	256.9 40.97	266.9	128.4	ACTIVE	0.000	-12.60	0.000	1.000	1.000
40.97	0.000	0.000	Strato2_3095_82743_L_0								
65 D	8.377	-8.8853E-03	260.8 41.89	270.8	130.4	ACTIVE	0.000	-12.80	0.000	1.000	1.000
41.89	0.000	0.000	Strato2_3095_82743_L_0								
66 D	8.571	-8.3905E-03	264.9 42.86	274.9	132.4	ACTIVE	0.000	-13.00	0.000	1.000	1.000
42.86	0.000	0.000	Strato2_3095_82743_L_0								
67 D	8.755	-7.9025E-03	268.8 43.77	278.8	134.4	ACTIVE	0.000	-13.20	0.000	1.000	1.000
43.77	0.000	0.000	Strato2_3095_82743_L_0								
68 D	8.948	-7.4227E-03	272.9 44.74	282.9	136.5	ACTIVE	0.000	-13.40	0.000	1.000	1.000
44.74	0.000	0.000	Strato2_3095_82743_L_0								
69 D	9.128	-6.9519E-03	276.7 45.64	286.7	138.4	ACTIVE	0.000	-13.60	0.000	1.000	1.000
45.64	0.000	0.000	Strato2_3095_82743_L_0								
70 D	9.322	-6.4911E-03	280.8 46.61	290.8	140.4	ACTIVE	0.000	-13.80	0.000	1.000	1.000
46.61	0.000	0.000	Strato2_3095_82743_L_0								
71 D	9.505	-6.0410E-03	284.7 47.53	294.7	142.4	ACTIVE	0.000	-14.00	0.000	1.000	1.000
47.53	0.000	0.000	Strato2_3095_82743_L_0								
72 D	9.699	-5.6021E-03	288.9 48.49	298.9	144.4	ACTIVE	0.000	-14.20	0.000	1.000	1.000
48.49	0.000	0.000	Strato2_3095_82743_L_0								
73 D	9.882	-5.1746E-03	292.8 49.41	302.8	146.4	ACTIVE	0.000	-14.40	0.000	1.000	1.000
49.41	0.000	0.000	Strato2_3095_82743_L_0								
74 D	10.08	-4.7587E-03	296.9 50.38	306.9	148.4	ACTIVE	0.000	-14.60	0.000	1.000	1.000
50.38	0.000	0.000	Strato2_3095_82743_L_0								
75 D	10.26	-4.3544E-03	300.8 51.30	310.8	150.4	ACTIVE	0.000	-14.80	0.000	1.000	1.000
51.30	0.000	0.000	Strato2_3095_82743_L_0								
76 D	10.45	-3.9614E-03	304.8 52.24	314.8	152.4	ACTIVE	0.000	-15.00	0.000	1.000	1.000
52.24	0.000	0.000	Strato2_3095_82743_L_0								
77 D	12.09	-3.5793E-03	308.7 60.46	318.7	154.4	UL-RL	2.4012E+04	-15.20	0.000	1.000	1.000
60.46	0.000	0.000	Strato2_3095_82743_L_0								
78 D	14.28	-3.2076E-03	312.9 71.40	322.9	156.4	UL-RL	2.4012E+04	-15.40	0.000	1.000	1.000
71.40	0.000	0.000	Strato2_3095_82743_L_0								
79 D	16.40	-2.8456E-03	316.8 82.02	326.8	158.4	UL-RL	2.4012E+04	-15.60	0.000	1.000	1.000
82.02	0.000	0.000	Strato2_3095_82743_L_0								
80 D	18.50	-2.4924E-03	320.9 92.52	330.9	160.4	UL-RL	2.4012E+04	-15.80	0.000	1.000	1.000
92.52	0.000	0.000	Strato2_3095_82743_L_0								
81 D	20.55	-2.1472E-03	324.8 102.7	334.8	162.4	UL-RL	2.4012E+04	-16.00	0.000	1.000	1.000
102.7	0.000	0.000	Strato2_3095_82743_L_0								
82 D	22.57	-1.8090E-03	328.9 112.9	338.9	164.4	UL-RL	2.4012E+04	-16.20	0.000	1.000	1.000
112.9	0.000	0.000	Strato2_3095_82743_L_0								
83 D	24.56	-1.4768E-03	332.8 122.8	342.8	166.4	UL-RL	2.4012E+04	-16.40	0.000	1.000	1.000
122.8	0.000	0.000	Strato2_3095_82743_L_0								
84 D	26.52	-1.1495E-03	336.8 132.6	346.8	168.4	UL-RL	2.4012E+04	-16.60	0.000	1.000	1.000
132.6	0.000	0.000	Strato2_3095_82743_L_0								
85 D	28.46	-8.2637E-04	340.8 142.3	350.8	170.4	UL-RL	2.4012E+04	-16.80	0.000	1.000	1.000
142.3	0.000	0.000	Strato2_3095_82743_L_0								
86 D	30.40	-5.0632E-04	344.9 152.0	354.9	172.4	UL-RL	2.4012E+04	-17.00	0.000	1.000	1.000
152.0	0.000	0.000	Strato2_3095_82743_L_0								
87 D	32.32	-1.8855E-04	348.8 161.6	358.8	174.4	UL-RL	2.4012E+04	-17.20	0.000	1.000	1.000
161.6	0.000	0.000	Strato2_3095_82743_L_0								
88 D	34.24	1.2770E-04	352.9 171.2	362.9	176.4	UL-RL	2.4012E+04	-17.40	0.000	1.000	1.000
171.2	0.000	0.000	Strato2_3095_82743_L_0								
89 D	36.09	4.4304E-04	356.8 180.4	366.8	180.4	V-C	8004.	-17.60	0.000	1.000	1.000
180.4	0.000	0.000	Strato2_3095_82743_L_0								
90 D	37.30	7.5794E-04	360.9 186.5	370.9	186.5	V-C	8004.	-17.80	0.000	1.000	1.000
186.5	0.000	0.000	Strato2_3095_82743_L_0								
91 D	19.15	1.0727E-03	364.8 191.5	374.8	191.5	V-C	8004.	-18.00	0.000	1.000	1.000
191.5	0.000	0.000	Strato2_3095_82743_L_0								



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 76 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :29 July 2019          17:58:38                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 6.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
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	not available									
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
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	not available									
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
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	not available									
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available									
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
0.000	0.000	0.000	not available									
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available									
24	0.000	--	--	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
0.000	0.000	0.000	not available									
25	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available									
26	0.000	--	--	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
0.000	0.000	0.000	not available									
27	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available									
28	0.000	--	--	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000
0.000	0.000	0.000	not available									
29	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000
0.000	0.000	0.000	not available									
30	0.000	--	--	--	--	--	REMOVED	--	-5.800	0.000	1.000	1.000
0.000	0.000	0.000	not available									
31	0.000	--	--	--	--	--	REMOVED	--	-6.000	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 77 di 1221					
0.000	0.000	0.000	not available							
32	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
33	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
34	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
35	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
36	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
37	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
38	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
39	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
40	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
41	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
42	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
43	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
44	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
45	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
46	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
47	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
48	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
49	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
50	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
51	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
52	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
53	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
54	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
55	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
56	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
57	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
58	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
59	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
60	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
61	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
62	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
63	0.000	--	--	--	--					
0.000	0.000	0.000	not available							
64 D	19.40	9.3855E-03	0.000 96.99 239.4	120.1	PASSIVE	0.000	-12.60	0.000	1.000	1.000
96.99	0.000	0.000	Strato2_3095_82743_L_0							
65 D	24.10	8.8853E-03	4.000 120.5 243.4	121.7	PASSIVE	0.000	-12.80	0.000	1.000	1.000
120.5	0.000	0.000	Strato2_3095_82743_L_0							
66 D	28.80	8.3905E-03	8.000 144.0 247.4	144.0	PASSIVE	0.000	-13.00	0.000	1.000	1.000
144.0	0.000	0.000	Strato2_3095_82743_L_0							
67 D	28.86	7.9025E-03	12.00 144.3 251.4	144.3	V-C	7230.	-13.20	0.000	1.000	1.000
144.3	0.000	0.000	Strato2_3095_82743_L_0							
68 D	28.85	7.4227E-03	16.00 144.2 255.4	144.2	V-C	7230.	-13.40	0.000	1.000	1.000
144.2	0.000	0.000	Strato2_3095_82743_L_0							
69 D	28.82	6.9519E-03	20.00 144.1 259.4	144.1	V-C	7230.	-13.60	0.000	1.000	1.000
144.1	0.000	0.000	Strato2_3095_82743_L_0							
70 D	28.78	6.4911E-03	24.00 143.9 263.4	143.9	V-C	7230.	-13.80	0.000	1.000	1.000
143.9	0.000	0.000	Strato2_3095_82743_L_0							
71 D	28.73	6.0410E-03	28.00 143.6 267.4	143.6	V-C	7230.	-14.00	0.000	1.000	1.000
143.6	0.000	0.000	Strato2_3095_82743_L_0							
72 D	28.67	5.6021E-03	32.00 143.4 271.4	143.4	V-C	7230.	-14.20	0.000	1.000	1.000
143.4	0.000	0.000	Strato2_3095_82743_L_0							
73 D	28.62	5.1746E-03	36.00 143.1 275.4	143.1	V-C	7230.	-14.40	0.000	1.000	1.000
143.1	0.000	0.000	Strato2_3095_82743_L_0							

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 78 di 1221
74 D	28.57	4.7587E-03	40.00	142.9	279.4
142.9	0.000	0.000	Strato2_3095_82743_L_0	142.9	
75 D	28.53	4.3544E-03	44.00	142.7	283.4
142.7	0.000	0.000	Strato2_3095_82743_L_0	142.7	
76 D	28.00	3.9614E-03	48.00	140.0	287.4
140.0	0.000	0.000	Strato2_3095_82743_L_0	143.7	
77 D	27.11	3.5793E-03	52.00	135.5	291.4
135.5	0.000	0.000	Strato2_3095_82743_L_0	145.7	
78 D	26.24	3.2076E-03	56.00	131.2	295.4
131.2	0.000	0.000	Strato2_3095_82743_L_0	147.7	
79 D	25.39	2.8456E-03	60.00	126.9	299.4
126.9	0.000	0.000	Strato2_3095_82743_L_0	149.7	
80 D	24.56	2.4924E-03	64.00	122.8	303.4
122.8	0.000	0.000	Strato2_3095_82743_L_0	151.7	
81 D	23.74	2.1472E-03	68.00	118.7	307.4
118.7	0.000	0.000	Strato2_3095_82743_L_0	153.7	
82 D	22.95	1.8090E-03	72.00	114.7	311.4
114.7	0.000	0.000	Strato2_3095_82743_L_0	155.7	
83 D	22.17	1.4768E-03	76.00	110.8	315.4
110.8	0.000	0.000	Strato2_3095_82743_L_0	157.7	
84 D	21.39	1.1495E-03	80.00	107.0	319.4
107.0	0.000	0.000	Strato2_3095_82743_L_0	159.7	
85 D	20.63	8.2637E-04	84.00	103.1	323.4
103.1	0.000	0.000	Strato2_3095_82743_L_0	161.7	
86 D	19.87	5.0632E-04	88.00	99.36	327.4
99.36	0.000	0.000	Strato2_3095_82743_L_0	163.7	
87 D	19.12	1.8855E-04	92.00	95.59	331.4
95.59	0.000	0.000	Strato2_3095_82743_L_0	165.7	
88 D	18.36	-1.2770E-04	96.00	91.82	335.4
91.82	0.000	0.000	Strato2_3095_82743_L_0	167.7	
89 D	17.61	-4.4304E-04	100.0	88.05	339.4
88.05	0.000	0.000	Strato2_3095_82743_L_0	169.7	
90 D	16.85	-7.5794E-04	104.0	84.27	343.4
84.27	0.000	0.000	Strato2_3095_82743_L_0	171.7	
91 D	8.047	-1.0727E-03	108.0	80.47	347.4
80.47	0.000	0.000	Strato2_3095_82743_L_0	173.7	

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :29 July 2019          17:58:38                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 6.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.2436	-1.2436	1.94502E-10	0.24872
2	3.0889	-3.0889	-0.24872	0.86650
3	4.9520	-4.9520	-0.86650	1.8569
4	7.1750	-7.1750	-1.8569	3.2919
5	9.1912	-9.1912	-3.2919	5.1301
6	11.415	-11.415	-5.1301	7.4131
7	13.808	-13.808	-7.4131	10.175
8	16.505	-16.505	-10.175	13.476
9	19.343	-19.343	-13.476	17.344
10	22.472	-22.472	-17.344	21.839
11	25.795	-25.795	-21.839	26.998
12	29.397	-29.397	-26.998	32.877
13	33.197	-33.197	-32.877	39.517
14	37.268	-37.268	-39.517	46.970
15	41.542	-41.542	-46.970	55.279
16	-105.30	105.30	-55.279	34.219
17	-100.57	100.57	-34.219	14.104
18	-95.590	95.590	-14.104	-5.0137
19	-90.396	90.396	5.0137	-23.093
20	-84.943	84.943	23.093	-40.082
21	-79.280	79.280	40.082	-55.938
22	-73.362	73.362	55.938	-70.610
23	-67.230	67.230	70.610	-84.056
24	-60.861	60.861	84.056	-96.228
25	-54.277	54.277	96.228	-107.08
26	-47.441	47.441	107.08	-116.57

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 79 di 1221
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27	-40.390	40.390	116.57	-124.65
28	-33.088	33.088	124.65	-131.27
29	-25.570	25.570	131.27	-136.38
30	-17.804	17.804	136.38	-139.94
31	-9.8313	9.8313	139.94	-141.91
32	-1.6111	1.6111	141.91	-142.23
33	6.8277	-6.8277	142.23	-140.87
34	15.513	-15.513	140.87	-137.76
35	24.418	-24.418	137.76	-132.88
36	33.568	-33.568	132.88	-126.17
37	42.938	-42.938	126.17	-117.58
38	52.552	-52.552	117.58	-107.07
39	62.378	-62.378	107.07	-94.592
40	72.448	-72.448	94.592	-80.102
41	82.739	-82.739	80.102	-63.554
42	-96.343	96.343	63.554	-82.823
43	-85.587	85.587	82.823	-99.940
44	-74.589	74.589	99.940	-114.86
45	-63.368	63.368	114.86	-127.53
46	-51.913	51.913	127.53	-137.91
47	-40.236	40.236	137.91	-145.96
48	-28.316	28.316	145.96	-151.62
49	-16.174	16.174	151.62	-154.86
50	-3.7911	3.7911	154.86	-155.62
51	8.8151	-8.8151	155.62	-153.85
52	21.662	-21.662	153.85	-149.52
53	34.733	-34.733	149.52	-142.58
54	48.037	-48.037	142.58	-132.97
55	61.565	-61.565	132.97	-120.66
56	75.334	-75.334	120.66	-105.59
57	89.326	-89.326	105.59	-87.723
58	103.56	-103.56	87.723	-67.012
59	118.01	-118.01	67.012	-43.409
60	132.71	-132.71	43.409	-16.867
61	147.62	-147.62	16.867	12.658
62	162.78	-162.78	-12.658	45.213
63	178.16	-178.16	-45.213	80.844
64	166.95	-166.95	-80.844	114.23
65	151.23	-151.23	-114.23	144.48
66	130.98	-130.98	-144.48	170.68
67	110.88	-110.88	-170.68	192.85
68	90.982	-90.982	-192.85	211.05
69	71.291	-71.291	-211.05	225.31
70	51.837	-51.837	-225.31	235.67
71	32.616	-32.616	-235.67	242.20
72	13.642	-13.642	-242.20	244.93
73	-5.0971	5.0971	-244.93	243.91
74	-23.595	23.595	-243.91	239.19
75	-41.866	41.866	-239.19	230.81
76	-59.416	59.416	-230.81	218.93
77	-74.431	74.431	-218.93	204.05
78	-86.388	86.388	-204.05	186.77
79	-95.371	95.371	-186.77	167.69
80	-101.42	101.42	-167.69	147.41
81	-104.62	104.62	-147.41	126.48
82	-104.99	104.99	-126.48	105.49
83	-102.60	102.60	-105.49	84.965
84	-97.473	97.473	-84.965	65.469
85	-89.640	89.640	-65.469	47.541
86	-79.108	79.108	-47.541	31.720
87	-65.908	65.908	-31.720	18.538
88	-50.033	50.033	-18.538	8.5313
89	-31.554	31.554	-8.5313	2.2206
90	-11.103	11.103	-2.2206	-6.38875E-12

```

-----+-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      17:58:38                             |
|-----+-----

```

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

```

Tirantel_429      :
ELEMENT TYPE     6 NO.OF ELEMENTS. IN THIS GROUP      1
C U R R E N T   T I M E   I S   6.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

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Cepav due



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
80 di 1221

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	156.69	-6.74572E-04	2.31564E-02	0.0000	2633.3	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019   17:58:38                               |
+-----+

```

New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

CURRENT TIME IS 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	196.31	-1.26417E-03	5.76121E-03	0.0000	4214.1	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019   17:58:38                               |
+-----+

```

FINAL INCREMENTAL ANALYSIS

SUMMARY

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	2
2	CONVERGENCE :YES	6
3	CONVERGENCE :YES	4
4	CONVERGENCE :YES	6
5	CONVERGENCE :YES	5
6	CONVERGENCE :YES	5

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME 0.09 [sec]

DATABASE CREATION CPU TIME..... 0.34 [sec]

1.3. Design Assumption : SLE (Rara) - File di Paratie - File di input (.d)

* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: SLE (Rara)

* Time:lunedì 29 luglio 2019 17:58:38

* 1: Defining general settings

UNIT m kN

TITLE New Project

DELTA 0.2

option param itemax 100

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)

WALL LeftWall_32 0 -18 0 1

* 3: Defining surfaces for wall(s)

SOIL 0_L LeftWall_32 -18 0 1 0

SOIL 0_R LeftWall_32 -18 0 2 180

* 4: Defining soil layers

*

* Soil Profile (Strato1_2_8_L_0)

*

LDATA Strato1_2_8_L_0 0 LeftWall_32

ATREST 0.53 1 1

WEIGHT 19 9 10

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 81 di 1221
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```
PERMEABILITY 1E-06
RESISTANCE 0 29
YOUNG 2E+04 6E+04
ENDL
*
* Soil Profile (Strato2_3095_82743_L_0)
*
LDATA Strato2_3095_82743_L_0 -12.6 LeftWall_32
ATREST 0.5 0.5 1
WEIGHT 20 10 10
PERMEABILITY 0.0001
RESISTANCE 20 35
YOUNG 5E+04 1.5E+05
ENDL

* 5: Defining structural materials
* Steel material: 108 Name=Fe360 E=206000200 kPa
MATERIAL Fe360_108 2.06E+08
* Concrete material: 104 Name=C25/30 E=31475800 kPa
MATERIAL C2530_104 3.148E+07
* Rebar material: 124 Name=acciaio armonico E=200100000 kPa
MATERIAL acciaioarmonico_124 2.001E+08
* Concrete material: 103 Name=C20/25 E=29962000 kPa
MATERIAL C2025_103 2.996E+07

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
BEAM WallElement_33 LeftWall_32 -18 0 C2530_104 0.6848 00 00 0

* 6.2: Supports
WIRE Tirante1_429 LeftWall_32 -3 acciaioarmonico_124 1.316E-05 93.94 15 0 0
WIRE Tirante2_1507 LeftWall_32 -8.2 acciaioarmonico_124 2.106E-05 166.7 15 0 0

* 6.3: Strips
STRIP LeftWall_32 2 6 0 40 0 15.2 45
STRIP LeftWall_32 2 6 0 40 0 10 30

* 7: Defining Steps
STEP Stage1_31
CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32
CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32
CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32
CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32
CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-COHE=20 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -26 0 -18 0 0
ADD WallElement_33
ENDSTEP

STEP Stage2_158
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -3.5
WATER -26 0 -18 0 0
ENDSTEP

STEP Stage3_617
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -3.5
WATER -26 0 -18 0 0
```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
82 di 1221

```

ADD Tirante1_429
ENDSTEP

STEP Stage4_714
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -8.7
WATER -26 0 -18 0 0
ENDSTEP

STEP Stage5_1682
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -8.7
SURCHARGE 10 0 0 -9
WATER -26 0 -18 0 0
ADD Tirante2_1507
ENDSTEP

STEP Stage6_1779
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -12.6
SURCHARGE 0 0 0 0
WATER -26 0 -18 0 0
ENDSTEP

```

1.4. Design Assumption : SLE (Rara) - File di Paratie - File di output (.out)

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SLERara_3454          |
|          Exe Time :29 July 2019          17:58:39          |
+-----+

```

```

*****
*                                                                 *
* PARATIE PLUS Non-Linear Spring Engine          *
*                                                                 *
*          AN ELASTOPLASTIC FINITE ELEMENT PROGRAM          *
*          FOR FLEXIBLE EARTH-RETAINING STRUCTURES          *
*                                                                 *
*          Written by Ce.A.S. s.r.l. (ITALY)          *
*          with the scientific supervision of          *
*          Roberto Nova - full professor SOIL MECHANICS *
*          at Politecnico di Milano (ITALY)          *
*                                                                 *
*****
* RELEASE  2017.1          *Build date:Jul 11, 2017*          *
*                                                                 *
*                                                                 *
* Ce.A.S.          S.R.L  CENTRO DI ANALISI STRUTTURALE          *
*          VIALE  GIUSTINIANO 10          *
*          20129  M I L A N O (ITALIA)          *
* TEL.          +39 02 2020221  (+39 035 23 67 19)          *
* FAX          +39 02 29512533  (+39 035 42285 49)          *
* email        bruno.becci@ceas.it          *
* Web Page     www.ceas.it          *
*****

```

```

JOB : NewProject.BaseDesignSection_28.SLERara_3454
STARTING
ACCEPTED <FILE,GENW          >
ACCEPTED <FILE,PLOTTER,BINARY          >
ACCEPTED <SOLVE TOTAL_STRESS          >
ACCEPTED <PARAM ITEMAX 100          >
ACCEPTED <CONTROL HINGES 0 0.0001 0.001          >

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 83 di 1221
---------	------------------	-------------	---	-----------	----------------------

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

PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]

```
+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.SLERara_3454                       |
|                               Exe Time :29 July 2019    17:58:39                               |
+-----+
```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```
NO. OF NODAL POINTS (NUMNP) ..... 91
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 182
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 5
NO. OF SOLUTION STEPS (NSTE)..... 6
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 102
NO. OF LONG NAMES (LASTNAME) ..... 24
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH..... 1
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  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.SLERara_3454                       |
|                               Exe Time :29 July 2019    17:58:39                               |
+-----+
```

PREPROCESSOR DATA

NO. OF COMMANDS 102

```
1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 100
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -18 0 1
7 : SOIL 0_L LeftWall_32 -18 0 1 0
8 : SOIL 0_R LeftWall_32 -18 0 2 180
9 : LDATA Stratol_2_8_L_0 0 LeftWall_32
10 : ATREST 0.53 1 1
11 : WEIGHT 19 9 10
12 : PERMEABILITY 1E-06
```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 84 di 1221
---------	------------------	-------------	---	-----------	----------------------

```

13 : RESISTANCE 0 29
14 : YOUNG 2E+04 6E+04
15 : ENDL
16 : LDATA Strato2_3095_82743_L_0 -12.6 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 20 10 10
19 : PERMEABILITY 0.0001
20 : RESISTANCE 20 35
21 : YOUNG 5E+04 1.5E+05
22 : ENDL
23 : MATERIAL Fe360_108 2.06E+08
24 : MATERIAL C2530_104 3.148E+07
25 : MATERIAL acciaioarmonico_124 2.001E+08
26 : MATERIAL C2025_103 2.996E+07
27 : BEAM WallElement_33 LeftWall_32 -18 0 C2530_104 0.6848 00 00 0
28 : WIRE Tirante1_429 LeftWall_32 -3 acciaioarmonico_124 1.316E-05 93.94 15 0 0
29 : WIRE Tirante2_1507 LeftWall_32 -8.2 acciaioarmonico_124 2.106E-05 166.7 15 0 0
30 : STRIP LeftWall_32 2 6 0 40 0 15.2 45
31 : STRIP LeftWall_32 2 6 0 40 0 10 30
32 : STEP Stage1_31
33 : CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32
34 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
35 : CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32
36 : CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32
37 : CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32
38 : CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32
39 : CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32
40 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
41 : CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32
42 : CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32
43 : CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32
44 : CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32
45 : CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
46 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
47 : CHANGE Strato2_3095_82743_L_0 U-COHE=20 LeftWall_32
48 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
49 : SETWALL LeftWall_32
50 : GEOM 0 0
51 : WATER -26 0 -18 0 0
52 : ADD WallElement_33
53 : ENDSTEP
54 : STEP Stage2_158
55 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
56 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
57 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
58 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
59 : SETWALL LeftWall_32
60 : GEOM 0 -3.5
61 : WATER -26 0 -18 0 0
62 : ENDSTEP
63 : STEP Stage3_617
64 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
65 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
66 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
67 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
68 : SETWALL LeftWall_32
69 : GEOM 0 -3.5
70 : WATER -26 0 -18 0 0
71 : ADD Tirante1_429
72 : ENDSTEP
73 : STEP Stage4_714
74 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
75 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
76 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
77 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
78 : SETWALL LeftWall_32
79 : GEOM 0 -8.7
80 : WATER -26 0 -18 0 0
81 : ENDSTEP
82 : STEP Stage5_1682
83 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
84 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
85 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
86 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
87 : SETWALL LeftWall_32
88 : GEOM 0 -8.7
89 : SURCHARGE 10 0 0 -9
90 : WATER -26 0 -18 0 0
91 : ADD Tirante2_1507
92 : ENDSTEP
93 : STEP Stage6_1779
94 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
95 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
96 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
97 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32

```



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 85 di 1221
---------	------------------	-------------	---	-----------	----------------------

98 : SETWALL LeftWall_32
 99 : GEOM 0 -12.6
 100 : SURCHARGE 0 0 0 0
 101 : WATER -26 0 -18 0 0
 102 : ENDSTEP

```

-----
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      17:58:39
|
-----
    
```

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 -10.000 /	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 /		

```

-----
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      17:58:39
|
-----
    
```

ELEMENT GROUP NO. 1

```

0_L
 5 91 0 1 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0 0
.....2D PLASTIC SOIL .....
    
```

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	active
6	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

element data

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
86 di 1221

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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	0.2000	0.000	0.000	0.000	1.000
28	28	1	0.2000	0.000	0.000	0.000	1.000
29	29	1	0.2000	0.000	0.000	0.000	1.000
30	30	1	0.2000	0.000	0.000	0.000	1.000
31	31	1	0.2000	0.000	0.000	0.000	1.000
32	32	1	0.2000	0.000	0.000	0.000	1.000
33	33	1	0.2000	0.000	0.000	0.000	1.000
34	34	1	0.2000	0.000	0.000	0.000	1.000
35	35	1	0.2000	0.000	0.000	0.000	1.000
36	36	1	0.2000	0.000	0.000	0.000	1.000
37	37	1	0.2000	0.000	0.000	0.000	1.000
38	38	1	0.2000	0.000	0.000	0.000	1.000
39	39	1	0.2000	0.000	0.000	0.000	1.000
40	40	1	0.2000	0.000	0.000	0.000	1.000
41	41	1	0.2000	0.000	0.000	0.000	1.000
42	42	1	0.2000	0.000	0.000	0.000	1.000
43	43	1	0.2000	0.000	0.000	0.000	1.000
44	44	1	0.2000	0.000	0.000	0.000	1.000
45	45	1	0.2000	0.000	0.000	0.000	1.000
46	46	1	0.2000	0.000	0.000	0.000	1.000
47	47	1	0.2000	0.000	0.000	0.000	1.000
48	48	1	0.2000	0.000	0.000	0.000	1.000
49	49	1	0.2000	0.000	0.000	0.000	1.000
50	50	1	0.2000	0.000	0.000	0.000	1.000
51	51	1	0.2000	0.000	0.000	0.000	1.000
52	52	1	0.2000	0.000	0.000	0.000	1.000
53	53	1	0.2000	0.000	0.000	0.000	1.000
54	54	1	0.2000	0.000	0.000	0.000	1.000
55	55	1	0.2000	0.000	0.000	0.000	1.000
56	56	1	0.2000	0.000	0.000	0.000	1.000
57	57	1	0.2000	0.000	0.000	0.000	1.000
58	58	1	0.2000	0.000	0.000	0.000	1.000
59	59	1	0.2000	0.000	0.000	0.000	1.000
60	60	1	0.2000	0.000	0.000	0.000	1.000
61	61	1	0.2000	0.000	0.000	0.000	1.000
62	62	1	0.2000	0.000	0.000	0.000	1.000
63	63	1	0.2000	0.000	0.000	0.000	1.000
64	64	1	0.2000	0.000	0.000	0.000	1.000
65	65	2	0.2000	0.000	0.000	0.000	1.000
66	66	2	0.2000	0.000	0.000	0.000	1.000
67	67	2	0.2000	0.000	0.000	0.000	1.000
68	68	2	0.2000	0.000	0.000	0.000	1.000
69	69	2	0.2000	0.000	0.000	0.000	1.000
70	70	2	0.2000	0.000	0.000	0.000	1.000
71	71	2	0.2000	0.000	0.000	0.000	1.000
72	72	2	0.2000	0.000	0.000	0.000	1.000
73	73	2	0.2000	0.000	0.000	0.000	1.000
74	74	2	0.2000	0.000	0.000	0.000	1.000
75	75	2	0.2000	0.000	0.000	0.000	1.000
76	76	2	0.2000	0.000	0.000	0.000	1.000
77	77	2	0.2000	0.000	0.000	0.000	1.000
78	78	2	0.2000	0.000	0.000	0.000	1.000
79	79	2	0.2000	0.000	0.000	0.000	1.000
80	80	2	0.2000	0.000	0.000	0.000	1.000
81	81	2	0.2000	0.000	0.000	0.000	1.000
82	82	2	0.2000	0.000	0.000	0.000	1.000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 87 di 1221
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83	83	2	0.2000	0.000	0.000	0.000	1.000
84	84	2	0.2000	0.000	0.000	0.000	1.000
85	85	2	0.2000	0.000	0.000	0.000	1.000
86	86	2	0.2000	0.000	0.000	0.000	1.000
87	87	2	0.2000	0.000	0.000	0.000	1.000
88	88	2	0.2000	0.000	0.000	0.000	1.000
89	89	2	0.2000	0.000	0.000	0.000	1.000
90	90	2	0.2000	0.000	0.000	0.000	1.000
91	91	2	0.1000	0.000	0.000	0.000	1.000

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      17:58:39  |
+-----+

```

```

ELEMENT GROUP NO.  2

0_R      :
  5 91  0  1  0  0  0  0  0  0  0  0  0  0  0  0  2  0  0  0  0
.....
.....2D PLASTIC SOIL .....
.....

```

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	active
6	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

```

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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000
24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	0.2000	0.000	0.000	0.000	2.000
28	28	1	0.2000	0.000	0.000	0.000	2.000
29	29	1	0.2000	0.000	0.000	0.000	2.000
30	30	1	0.2000	0.000	0.000	0.000	2.000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 88 di 1221
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31	31	1	0.2000	0.000	0.000	0.000	2.000
32	32	1	0.2000	0.000	0.000	0.000	2.000
33	33	1	0.2000	0.000	0.000	0.000	2.000
34	34	1	0.2000	0.000	0.000	0.000	2.000
35	35	1	0.2000	0.000	0.000	0.000	2.000
36	36	1	0.2000	0.000	0.000	0.000	2.000
37	37	1	0.2000	0.000	0.000	0.000	2.000
38	38	1	0.2000	0.000	0.000	0.000	2.000
39	39	1	0.2000	0.000	0.000	0.000	2.000
40	40	1	0.2000	0.000	0.000	0.000	2.000
41	41	1	0.2000	0.000	0.000	0.000	2.000
42	42	1	0.2000	0.000	0.000	0.000	2.000
43	43	1	0.2000	0.000	0.000	0.000	2.000
44	44	1	0.2000	0.000	0.000	0.000	2.000
45	45	1	0.2000	0.000	0.000	0.000	2.000
46	46	1	0.2000	0.000	0.000	0.000	2.000
47	47	1	0.2000	0.000	0.000	0.000	2.000
48	48	1	0.2000	0.000	0.000	0.000	2.000
49	49	1	0.2000	0.000	0.000	0.000	2.000
50	50	1	0.2000	0.000	0.000	0.000	2.000
51	51	1	0.2000	0.000	0.000	0.000	2.000
52	52	1	0.2000	0.000	0.000	0.000	2.000
53	53	1	0.2000	0.000	0.000	0.000	2.000
54	54	1	0.2000	0.000	0.000	0.000	2.000
55	55	1	0.2000	0.000	0.000	0.000	2.000
56	56	1	0.2000	0.000	0.000	0.000	2.000
57	57	1	0.2000	0.000	0.000	0.000	2.000
58	58	1	0.2000	0.000	0.000	0.000	2.000
59	59	1	0.2000	0.000	0.000	0.000	2.000
60	60	1	0.2000	0.000	0.000	0.000	2.000
61	61	1	0.2000	0.000	0.000	0.000	2.000
62	62	1	0.2000	0.000	0.000	0.000	2.000
63	63	1	0.2000	0.000	0.000	0.000	2.000
64	64	1	0.2000	0.000	0.000	0.000	2.000
65	65	2	0.2000	0.000	0.000	0.000	2.000
66	66	2	0.2000	0.000	0.000	0.000	2.000
67	67	2	0.2000	0.000	0.000	0.000	2.000
68	68	2	0.2000	0.000	0.000	0.000	2.000
69	69	2	0.2000	0.000	0.000	0.000	2.000
70	70	2	0.2000	0.000	0.000	0.000	2.000
71	71	2	0.2000	0.000	0.000	0.000	2.000
72	72	2	0.2000	0.000	0.000	0.000	2.000
73	73	2	0.2000	0.000	0.000	0.000	2.000
74	74	2	0.2000	0.000	0.000	0.000	2.000
75	75	2	0.2000	0.000	0.000	0.000	2.000
76	76	2	0.2000	0.000	0.000	0.000	2.000
77	77	2	0.2000	0.000	0.000	0.000	2.000
78	78	2	0.2000	0.000	0.000	0.000	2.000
79	79	2	0.2000	0.000	0.000	0.000	2.000
80	80	2	0.2000	0.000	0.000	0.000	2.000
81	81	2	0.2000	0.000	0.000	0.000	2.000
82	82	2	0.2000	0.000	0.000	0.000	2.000
83	83	2	0.2000	0.000	0.000	0.000	2.000
84	84	2	0.2000	0.000	0.000	0.000	2.000
85	85	2	0.2000	0.000	0.000	0.000	2.000
86	86	2	0.2000	0.000	0.000	0.000	2.000
87	87	2	0.2000	0.000	0.000	0.000	2.000
88	88	2	0.2000	0.000	0.000	0.000	2.000
89	89	2	0.2000	0.000	0.000	0.000	2.000
90	90	2	0.2000	0.000	0.000	0.000	2.000
91	91	2	0.1000	0.000	0.000	0.000	2.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
89 di 1221

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  17:58:39  |
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```

```

ELEMENT GROUP NO. 3

WallElement_33      :
  2 90 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
 4  active
 5  active
 6  active

```

```

material set no. 1

prop( 1) young modulus      0.314800E+08
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future .....0.280300E-43

```

```

no. of step variable items: 1
step  inertia multiplier
-----
 1  1.000
 2  1.000
 3  1.000
 4  1.000
 5  1.000
 6  1.000

```

element data

el	na	nb	mat	erc1	erc2	thick	by-i	by-j
1	1	2	1	0.000	0.000	0.6848	0.000	0.000
2	2	3	1	0.000	0.000	0.6848	0.000	0.000
3	3	4	1	0.000	0.000	0.6848	0.000	0.000
4	4	5	1	0.000	0.000	0.6848	0.000	0.000
5	5	6	1	0.000	0.000	0.6848	0.000	0.000
6	6	7	1	0.000	0.000	0.6848	0.000	0.000
7	7	8	1	0.000	0.000	0.6848	0.000	0.000
8	8	9	1	0.000	0.000	0.6848	0.000	0.000
9	9	10	1	0.000	0.000	0.6848	0.000	0.000
10	10	11	1	0.000	0.000	0.6848	0.000	0.000
11	11	12	1	0.000	0.000	0.6848	0.000	0.000
12	12	13	1	0.000	0.000	0.6848	0.000	0.000
13	13	14	1	0.000	0.000	0.6848	0.000	0.000
14	14	15	1	0.000	0.000	0.6848	0.000	0.000
15	15	16	1	0.000	0.000	0.6848	0.000	0.000
16	16	17	1	0.000	0.000	0.6848	0.000	0.000
17	17	18	1	0.000	0.000	0.6848	0.000	0.000
18	18	19	1	0.000	0.000	0.6848	0.000	0.000
19	19	20	1	0.000	0.000	0.6848	0.000	0.000
20	20	21	1	0.000	0.000	0.6848	0.000	0.000
21	21	22	1	0.000	0.000	0.6848	0.000	0.000
22	22	23	1	0.000	0.000	0.6848	0.000	0.000
23	23	24	1	0.000	0.000	0.6848	0.000	0.000
24	24	25	1	0.000	0.000	0.6848	0.000	0.000
25	25	26	1	0.000	0.000	0.6848	0.000	0.000
26	26	27	1	0.000	0.000	0.6848	0.000	0.000
27	27	28	1	0.000	0.000	0.6848	0.000	0.000
28	28	29	1	0.000	0.000	0.6848	0.000	0.000
29	29	30	1	0.000	0.000	0.6848	0.000	0.000
30	30	31	1	0.000	0.000	0.6848	0.000	0.000
31	31	32	1	0.000	0.000	0.6848	0.000	0.000
32	32	33	1	0.000	0.000	0.6848	0.000	0.000
33	33	34	1	0.000	0.000	0.6848	0.000	0.000
34	34	35	1	0.000	0.000	0.6848	0.000	0.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 90 di 1221
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35	35	36	1	0.000	0.000	0.6848	0.000	0.000
36	36	37	1	0.000	0.000	0.6848	0.000	0.000
37	37	38	1	0.000	0.000	0.6848	0.000	0.000
38	38	39	1	0.000	0.000	0.6848	0.000	0.000
39	39	40	1	0.000	0.000	0.6848	0.000	0.000
40	40	41	1	0.000	0.000	0.6848	0.000	0.000
41	41	42	1	0.000	0.000	0.6848	0.000	0.000
42	42	43	1	0.000	0.000	0.6848	0.000	0.000
43	43	44	1	0.000	0.000	0.6848	0.000	0.000
44	44	45	1	0.000	0.000	0.6848	0.000	0.000
45	45	46	1	0.000	0.000	0.6848	0.000	0.000
46	46	47	1	0.000	0.000	0.6848	0.000	0.000
47	47	48	1	0.000	0.000	0.6848	0.000	0.000
48	48	49	1	0.000	0.000	0.6848	0.000	0.000
49	49	50	1	0.000	0.000	0.6848	0.000	0.000
50	50	51	1	0.000	0.000	0.6848	0.000	0.000
51	51	52	1	0.000	0.000	0.6848	0.000	0.000
52	52	53	1	0.000	0.000	0.6848	0.000	0.000
53	53	54	1	0.000	0.000	0.6848	0.000	0.000
54	54	55	1	0.000	0.000	0.6848	0.000	0.000
55	55	56	1	0.000	0.000	0.6848	0.000	0.000
56	56	57	1	0.000	0.000	0.6848	0.000	0.000
57	57	58	1	0.000	0.000	0.6848	0.000	0.000
58	58	59	1	0.000	0.000	0.6848	0.000	0.000
59	59	60	1	0.000	0.000	0.6848	0.000	0.000
60	60	61	1	0.000	0.000	0.6848	0.000	0.000
61	61	62	1	0.000	0.000	0.6848	0.000	0.000
62	62	63	1	0.000	0.000	0.6848	0.000	0.000
63	63	64	1	0.000	0.000	0.6848	0.000	0.000
64	64	65	1	0.000	0.000	0.6848	0.000	0.000
65	65	66	1	0.000	0.000	0.6848	0.000	0.000
66	66	67	1	0.000	0.000	0.6848	0.000	0.000
67	67	68	1	0.000	0.000	0.6848	0.000	0.000
68	68	69	1	0.000	0.000	0.6848	0.000	0.000
69	69	70	1	0.000	0.000	0.6848	0.000	0.000
70	70	71	1	0.000	0.000	0.6848	0.000	0.000
71	71	72	1	0.000	0.000	0.6848	0.000	0.000
72	72	73	1	0.000	0.000	0.6848	0.000	0.000
73	73	74	1	0.000	0.000	0.6848	0.000	0.000
74	74	75	1	0.000	0.000	0.6848	0.000	0.000
75	75	76	1	0.000	0.000	0.6848	0.000	0.000
76	76	77	1	0.000	0.000	0.6848	0.000	0.000
77	77	78	1	0.000	0.000	0.6848	0.000	0.000
78	78	79	1	0.000	0.000	0.6848	0.000	0.000
79	79	80	1	0.000	0.000	0.6848	0.000	0.000
80	80	81	1	0.000	0.000	0.6848	0.000	0.000
81	81	82	1	0.000	0.000	0.6848	0.000	0.000
82	82	83	1	0.000	0.000	0.6848	0.000	0.000
83	83	84	1	0.000	0.000	0.6848	0.000	0.000
84	84	85	1	0.000	0.000	0.6848	0.000	0.000
85	85	86	1	0.000	0.000	0.6848	0.000	0.000
86	86	87	1	0.000	0.000	0.6848	0.000	0.000
87	87	88	1	0.000	0.000	0.6848	0.000	0.000
88	88	89	1	0.000	0.000	0.6848	0.000	0.000
89	89	90	1	0.000	0.000	0.6848	0.000	0.000
90	90	91	1	0.000	0.000	0.6848	0.000	0.000

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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
91 di 1221

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      17:58:39  |
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```

ELEMENT GROUP NO.  4

Tirante1_429      :
 6  1  0  1  0  0  0  0  0  0  0  0  0  0  0  1  0  0  2  0
.....
.....2D POST-TENSION ANCHOR.....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
 1  inactive
 2  inactive
 3  active
 4  active
 5  active
 6  active

```

```

material set no.  1

prop( 1) angle      15.0000
prop( 2) young modulus 0.200100E+09
prop( 3) modification time 0.00000
prop( 4) new young modulus 0.00000

```

```

no. of step variable items:  2
step  -ve lim  +ve lim
-----
 1  0.000  0.000
 2  0.000  0.000
 3  0.000  0.000
 4  0.000  0.000
 5  0.000  0.000
 6  0.000  0.000

```

```

element data

el  n  mat      a/l  pinit  yieldc  yieldt
-----
 1  16  1  0.1316E-04  93.94  0.000  0.000

```

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      17:58:39  |
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```

ELEMENT GROUP NO.  5

Tirante2_1507      :
 6  1  0  1  0  0  0  0  0  0  0  0  0  0  0  1  0  0  2  0
.....
.....2D POST-TENSION ANCHOR.....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
 1  inactive
 2  inactive
 3  inactive
 4  inactive
 5  active
 6  active

```

```

material set no.  1

prop( 1) angle      15.0000
prop( 2) young modulus 0.200100E+09
prop( 3) modification time 0.00000

```

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
92 di 1221

prop(4) new young modulus 0.00000

no. of step variable items: 2
step -ve lim +ve lim

step	-ve lim	+ve lim
1	0.000	0.000
2	0.000	0.000
3	0.000	0.000
4	0.000	0.000
5	0.000	0.000
6	0.000	0.000

element data

el	n	mat	a/l	pinit	yieldc	yieldt
1	42	1	0.2106E-04	166.7	0.000	0.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  17:58:39  |
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NO. OF NODAL LOADS (NLOAD) 0
 NO. OF LOAD CURVES (NL CUR) 12
 MAXIMUM POINTS/LCURVE (NPTM)..... 5

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|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  17:58:39  |
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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
7.00000	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
7.00000	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
7.00000	0.0000E+00

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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
93 di 1221

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
4.20000	0.0000E+00
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
5.20000	0.0000E+00
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
6.20000	0.0000E+00
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
7.00000	0.1000E+01

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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
94 di 1221

LOAD FUNCTION NUMBER = 11
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 12
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
7.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|          NewProject.BaseDesignSection_28.SLERara_3454          |
|          Exe Time :29 July 2019          17:58:39          |
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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
STEP	4	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	4	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	6	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	6	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

```

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|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SLERara_3454          |
|          Exe Time :29 July 2019          17:58:39          |
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NO. OF LAYERS 2
NO. OF DATA PER LAYER..... 100

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
95 di 1221

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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  17:58:39  |
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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    >= 16.000    (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000    (BOTH WALLS)
ITEM NO. 3<LEVEL  >= 0.0000    (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. 9<U-FRICT >= 29.000    (BOTH WALLS)
ITEM NO. 10<U-KA  >= 0.30400   WALL NO.    1
ITEM NO. 11<U-KP  >= 4.0410    WALL NO.    1
ITEM NO. 12<K0-NC >= 0.53000    (BOTH WALLS)
ITEM NO. 13<NEXP  >= 1.0000    (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000    (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000    (BOTH WALLS)
ITEM NO. 17<EVC   >= 20000.    (BOTH WALLS)
ITEM NO. 18<EUR   >= 60000.    (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000    (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000    (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 29.000    (BOTH WALLS)
ITEM NO. 60<D-KA  >= 0.30400   WALL NO.    1
ITEM NO. 61<D-KP  >= 4.0410    WALL NO.    1
ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

```

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

```

ITEM NO. 1<NAME    >= 17.000    (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000    (BOTH WALLS)
ITEM NO. 3<LEVEL  >= -12.600   (BOTH WALLS)
ITEM NO. 4<WALL   >= 1.0000    (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000    (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000    (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000    (BOTH WALLS)
ITEM NO. 8<U-COHE >= 20.000    (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 35.000    (BOTH WALLS)
ITEM NO. 10<U-KA  >= 0.23500   WALL NO.    1
ITEM NO. 11<U-KP  >= 5.8790    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   >= 50000.    (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.15000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000    (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000    (BOTH WALLS)
ITEM NO. 58<D-COHE >= 20.000    (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 35.000    (BOTH WALLS)
ITEM NO. 60<D-KA  >= 0.23500   WALL NO.    1
ITEM NO. 61<D-KP  >= 5.8790    WALL NO.    1
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

```

LAYER DESCRIPTORS FOR STEP NO. 2

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

```

ITEM NO. 1<NAME    >= 16.000    (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000    (BOTH WALLS)
ITEM NO. 3<LEVEL  >= 0.0000    (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. 9<U-FRICT >= 29.000    (BOTH WALLS)
ITEM NO. 10<U-KA  >= 0.30400   WALL NO.    1
ITEM NO. 11<U-KP  >= 4.0410    WALL NO.    1
ITEM NO. 12<K0-NC >= 0.53000    (BOTH WALLS)
ITEM NO. 13<NEXP  >= 1.0000    (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000    (BOTH WALLS)

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 96 di 1221
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ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.600 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.600 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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)

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 97 di 1221
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ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.600 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 5

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)

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GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 98 di 1221
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ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 5

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.600 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 6

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 6

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 6

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.600 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 99 di 1221
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ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)
    
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DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 12 VALUES

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| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                       |
| NewProject.BaseDesignSection_28.SLERara_3454 |
| Exe Time :29 July 2019 17:58:39 |
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PHASE DESCRIPTORS

STEP NO.	1	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-3.500	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 100 di 1221
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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

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-3.500	0.000
Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-18.00	-18.00
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

STEP NO. 4

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-8.700	0.000
Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-18.00	-18.00
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



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 101 di 1221
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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 4

STEP NO. 5

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-8.700	0.000
Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	10.00	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-9.000	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-18.00	-18.00
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 5

STEP NO. 6

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-12.60	0.000
Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	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	-18.00	-18.00
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 6

GENERAL CONTRACTOR



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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
102 di 1221

LEFT-HAND WALL

LOWER LEVEL -18.00000
UPPER LEVEL 0.00000

RIGHT-HAND WALL

LOWER LEVEL -18.00000
UPPER LEVEL 0.00000

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| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| |
| NewProject.BaseDesignSection_28.SLERara_3454 |
| Exe Time :29 July 2019 17:58:39 |
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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 2

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

ACTIVATION TIME 2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 6.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 0.000000000000000E+000
FOUNDATION WIDTH (B) 40.000000000000000
ZETA-F..... 0.000000000000000E+000
Q-F 15.200000000000000
BETA 45.000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

INPUT DATA FOR INITIAL STRESS SET NO. 2
PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

ACTIVATION TIME 2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 6.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 0.000000000000000E+000
FOUNDATION WIDTH (B) 40.000000000000000
ZETA-F..... 0.000000000000000E+000
Q-F 10.000000000000000
BETA 30.000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION 4412

NO. OF D.P.W FOR THIS AREA 10847
MAX NO. OF D.P.W. AVAILABLE 81920
** MAX NO OF ITERATIONS SET TO 100

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7339E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 34.34 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7339E+05 RDR = 0.000
RATIOT= 0.000 RATIO= 0.000
MAX UN= 0.000 IEQ= 182 NODE 91 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7339E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 34.34 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 103 di 1221
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RDT =0.7339E+05 RDR = 0.000
 RATIO= 0.000 RATIO= 0.000
 MAX UN= 0.000 IEQ= 182 NODE 91 DOF 2 X-ROT. F
 MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.7339E+05 RIMNOR= 0.000
 RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 34.34 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.7339E+05 RDR = 0.000
 RATIO= 0.000 RATIO= 0.000
 MAX UN= 0.000 IEQ= 182 NODE 91 DOF 2 X-ROT. F
 MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019  17:58:39
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New Project
 SOLUTION REACHED USING 2 ITERATIONS ON 100
 PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)
 PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

Y-DISPL.F	X-ROT. F	
(02)	(04)	(

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019  17:58:39
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :

ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	1.4147E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_2_8_L_0									
2 D	0.4028	0.000	3.800	2.014	3.800	2.014	V-C	1.4147E+04	-0.2000	0.000	1.000	1.000
2.014	0.000	0.000	Strato1_2_8_L_0									
3 D	0.8056	0.000	7.600	4.028	7.600	4.028	V-C	1.4147E+04	-0.4000	0.000	1.000	1.000
4.028	0.000	0.000	Strato1_2_8_L_0									
4 D	1.208	0.000	11.40	6.042	11.40	6.042	V-C	1.4147E+04	-0.6000	0.000	1.000	1.000
6.042	0.000	0.000	Strato1_2_8_L_0									
5 D	1.611	0.000	15.20	8.056	15.20	8.056	V-C	1.4147E+04	-0.8000	0.000	1.000	1.000
8.056	0.000	0.000	Strato1_2_8_L_0									
6 D	2.014	0.000	19.00	10.07	19.00	10.07	V-C	1.4147E+04	-1.000	0.000	1.000	1.000
10.07	0.000	0.000	Strato1_2_8_L_0									
7 D	2.417	0.000	22.80	12.08	22.80	12.08	V-C	1.4147E+04	-1.200	0.000	1.000	1.000
12.08	0.000	0.000	Strato1_2_8_L_0									
8 D	2.820	0.000	26.60	14.10	26.60	14.10	V-C	1.4147E+04	-1.400	0.000	1.000	1.000
14.10	0.000	0.000	Strato1_2_8_L_0									
9 D	3.222	0.000	30.40	16.11	30.40	16.11	V-C	1.4147E+04	-1.600	0.000	1.000	1.000

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.				Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 104 di 1221
16.11	0.000	0.000	Strato1_2_8_L_0					
10 D	3.625	0.000	34.20 18.13	34.20	18.13	V-C 1.4147E+04 -1.800	0.000	1.000
18.13	0.000	0.000	Strato1_2_8_L_0					
11 D	4.028	0.000	38.00 20.14	38.00	20.14	V-C 1.4147E+04 -2.000	0.000	1.000
20.14	0.000	0.000	Strato1_2_8_L_0					
12 D	4.431	0.000	41.80 22.15	41.80	22.15	V-C 1.4147E+04 -2.200	0.000	1.000
22.15	0.000	0.000	Strato1_2_8_L_0					
13 D	4.834	0.000	45.60 24.17	45.60	24.17	V-C 1.4147E+04 -2.400	0.000	1.000
24.17	0.000	0.000	Strato1_2_8_L_0					
14 D	5.236	0.000	49.40 26.18	49.40	26.18	V-C 1.4147E+04 -2.600	0.000	1.000
26.18	0.000	0.000	Strato1_2_8_L_0					
15 D	5.639	0.000	53.20 28.20	53.20	28.20	V-C 1.4147E+04 -2.800	0.000	1.000
28.20	0.000	0.000	Strato1_2_8_L_0					
16 D	6.042	0.000	57.00 30.21	57.00	30.21	V-C 1.4147E+04 -3.000	0.000	1.000
30.21	0.000	0.000	Strato1_2_8_L_0					
17 D	6.445	0.000	60.80 32.22	60.80	32.22	V-C 1.4147E+04 -3.200	0.000	1.000
32.22	0.000	0.000	Strato1_2_8_L_0					
18 D	6.848	0.000	64.60 34.24	64.60	34.24	V-C 1.4147E+04 -3.400	0.000	1.000
34.24	0.000	0.000	Strato1_2_8_L_0					
19 D	7.250	0.000	68.40 36.25	68.40	36.25	V-C 1.4147E+04 -3.600	0.000	1.000
36.25	0.000	0.000	Strato1_2_8_L_0					
20 D	7.653	0.000	72.20 38.27	72.20	38.27	V-C 1.4147E+04 -3.800	0.000	1.000
38.27	0.000	0.000	Strato1_2_8_L_0					
21 D	8.056	0.000	76.00 40.28	76.00	40.28	V-C 1.4147E+04 -4.000	0.000	1.000
40.28	0.000	0.000	Strato1_2_8_L_0					
22 D	8.459	0.000	79.80 42.29	79.80	42.29	V-C 1.4147E+04 -4.200	0.000	1.000
42.29	0.000	0.000	Strato1_2_8_L_0					
23 D	8.862	0.000	83.60 44.31	83.60	44.31	V-C 1.4147E+04 -4.400	0.000	1.000
44.31	0.000	0.000	Strato1_2_8_L_0					
24 D	9.264	0.000	87.40 46.32	87.40	46.32	V-C 1.4147E+04 -4.600	0.000	1.000
46.32	0.000	0.000	Strato1_2_8_L_0					
25 D	9.667	0.000	91.20 48.34	91.20	48.34	V-C 1.4147E+04 -4.800	0.000	1.000
48.34	0.000	0.000	Strato1_2_8_L_0					
26 D	10.07	0.000	95.00 50.35	95.00	50.35	V-C 1.4147E+04 -5.000	0.000	1.000
50.35	0.000	0.000	Strato1_2_8_L_0					
27 D	10.47	0.000	98.80 52.36	98.80	52.36	V-C 1.4147E+04 -5.200	0.000	1.000
52.36	0.000	0.000	Strato1_2_8_L_0					
28 D	10.88	0.000	102.6 54.38	102.6	54.38	V-C 1.4147E+04 -5.400	0.000	1.000
54.38	0.000	0.000	Strato1_2_8_L_0					
29 D	11.28	0.000	106.4 56.39	106.4	56.39	V-C 1.4147E+04 -5.600	0.000	1.000
56.39	0.000	0.000	Strato1_2_8_L_0					
30 D	11.68	0.000	110.2 58.41	110.2	58.41	V-C 1.4147E+04 -5.800	0.000	1.000
58.41	0.000	0.000	Strato1_2_8_L_0					
31 D	12.08	0.000	114.0 60.42	114.0	60.42	V-C 1.4147E+04 -6.000	0.000	1.000
60.42	0.000	0.000	Strato1_2_8_L_0					
32 D	12.49	0.000	117.8 62.43	117.8	62.43	V-C 1.4147E+04 -6.200	0.000	1.000
62.43	0.000	0.000	Strato1_2_8_L_0					
33 D	12.89	0.000	121.6 64.45	121.6	64.45	V-C 1.4147E+04 -6.400	0.000	1.000
64.45	0.000	0.000	Strato1_2_8_L_0					
34 D	13.29	0.000	125.4 66.46	125.4	66.46	V-C 1.4147E+04 -6.600	0.000	1.000
66.46	0.000	0.000	Strato1_2_8_L_0					
35 D	13.70	0.000	129.2 68.48	129.2	68.48	V-C 1.4147E+04 -6.800	0.000	1.000
68.48	0.000	0.000	Strato1_2_8_L_0					
36 D	14.10	0.000	133.0 70.49	133.0	70.49	V-C 1.4147E+04 -7.000	0.000	1.000
70.49	0.000	0.000	Strato1_2_8_L_0					
37 D	14.50	0.000	136.8 72.50	136.8	72.50	V-C 1.4147E+04 -7.200	0.000	1.000
72.50	0.000	0.000	Strato1_2_8_L_0					
38 D	14.90	0.000	140.6 74.52	140.6	74.52	V-C 1.4147E+04 -7.400	0.000	1.000
74.52	0.000	0.000	Strato1_2_8_L_0					
39 D	15.31	0.000	144.4 76.53	144.4	76.53	V-C 1.4147E+04 -7.600	0.000	1.000
76.53	0.000	0.000	Strato1_2_8_L_0					
40 D	15.71	0.000	148.2 78.55	148.2	78.55	V-C 1.4147E+04 -7.800	0.000	1.000
78.55	0.000	0.000	Strato1_2_8_L_0					
41 D	16.11	0.000	152.0 80.56	152.0	80.56	V-C 1.4147E+04 -8.000	0.000	1.000
80.56	0.000	0.000	Strato1_2_8_L_0					
42 D	16.51	0.000	155.8 82.57	155.8	82.57	V-C 1.4147E+04 -8.200	0.000	1.000
82.57	0.000	0.000	Strato1_2_8_L_0					
43 D	16.92	0.000	159.6 84.59	159.6	84.59	V-C 1.4147E+04 -8.400	0.000	1.000
84.59	0.000	0.000	Strato1_2_8_L_0					
44 D	17.32	0.000	163.4 86.60	163.4	86.60	V-C 1.4147E+04 -8.600	0.000	1.000
86.60	0.000	0.000	Strato1_2_8_L_0					
45 D	17.72	0.000	167.2 88.62	167.2	88.62	V-C 1.4147E+04 -8.800	0.000	1.000
88.62	0.000	0.000	Strato1_2_8_L_0					
46 D	18.13	0.000	171.0 90.63	171.0	90.63	V-C 1.4147E+04 -9.000	0.000	1.000
90.63	0.000	0.000	Strato1_2_8_L_0					
47 D	18.53	0.000	174.8 92.64	174.8	92.64	V-C 1.4147E+04 -9.200	0.000	1.000
92.64	0.000	0.000	Strato1_2_8_L_0					
48 D	18.93	0.000	178.6 94.66	178.6	94.66	V-C 1.4147E+04 -9.400	0.000	1.000
94.66	0.000	0.000	Strato1_2_8_L_0					
49 D	19.33	0.000	182.4 96.67	182.4	96.67	V-C 1.4147E+04 -9.600	0.000	1.000
96.67	0.000	0.000	Strato1_2_8_L_0					
50 D	19.74	0.000	186.2 98.69	186.2	98.69	V-C 1.4147E+04 -9.800	0.000	1.000
98.69	0.000	0.000	Strato1_2_8_L_0					
51 D	20.14	0.000	190.0 100.7	190.0	100.7	V-C 1.4147E+04 -10.000	0.000	1.000
100.7	0.000	0.000	Strato1_2_8_L_0					



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 106 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                     |
|          NewProject.BaseDesignSection_28.SLERara_3454          |
|          Exe Time :29 July 2019          17:58:39          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	9817.	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Stratol_2_8_L_0									
2 D	0.4028	0.000	3.800	2.014	3.800	2.014	V-C	9817.	-0.2000	0.000	1.000	1.000
2.014	0.000	0.000	Stratol_2_8_L_0									
3 D	0.8056	0.000	7.600	4.028	7.600	4.028	V-C	9817.	-0.4000	0.000	1.000	1.000
4.028	0.000	0.000	Stratol_2_8_L_0									
4 D	1.208	0.000	11.40	6.042	11.40	6.042	V-C	9817.	-0.6000	0.000	1.000	1.000
6.042	0.000	0.000	Stratol_2_8_L_0									
5 D	1.611	0.000	15.20	8.056	15.20	8.056	V-C	9817.	-0.8000	0.000	1.000	1.000
8.056	0.000	0.000	Stratol_2_8_L_0									
6 D	2.014	0.000	19.00	10.07	19.00	10.07	V-C	9817.	-1.000	0.000	1.000	1.000
10.07	0.000	0.000	Stratol_2_8_L_0									
7 D	2.417	0.000	22.80	12.08	22.80	12.08	V-C	9817.	-1.200	0.000	1.000	1.000
12.08	0.000	0.000	Stratol_2_8_L_0									
8 D	2.820	0.000	26.60	14.10	26.60	14.10	V-C	9817.	-1.400	0.000	1.000	1.000
14.10	0.000	0.000	Stratol_2_8_L_0									
9 D	3.222	0.000	30.40	16.11	30.40	16.11	V-C	9817.	-1.600	0.000	1.000	1.000
16.11	0.000	0.000	Stratol_2_8_L_0									
10 D	3.625	0.000	34.20	18.13	34.20	18.13	V-C	9817.	-1.800	0.000	1.000	1.000
18.13	0.000	0.000	Stratol_2_8_L_0									
11 D	4.028	0.000	38.00	20.14	38.00	20.14	V-C	9817.	-2.000	0.000	1.000	1.000
20.14	0.000	0.000	Stratol_2_8_L_0									
12 D	4.431	0.000	41.80	22.15	41.80	22.15	V-C	9817.	-2.200	0.000	1.000	1.000
22.15	0.000	0.000	Stratol_2_8_L_0									
13 D	4.834	0.000	45.60	24.17	45.60	24.17	V-C	9817.	-2.400	0.000	1.000	1.000
24.17	0.000	0.000	Stratol_2_8_L_0									
14 D	5.236	0.000	49.40	26.18	49.40	26.18	V-C	9817.	-2.600	0.000	1.000	1.000
26.18	0.000	0.000	Stratol_2_8_L_0									
15 D	5.639	0.000	53.20	28.20	53.20	28.20	V-C	9817.	-2.800	0.000	1.000	1.000
28.20	0.000	0.000	Stratol_2_8_L_0									
16 D	6.042	0.000	57.00	30.21	57.00	30.21	V-C	9817.	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Stratol_2_8_L_0									
17 D	6.445	0.000	60.80	32.22	60.80	32.22	V-C	9817.	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Stratol_2_8_L_0									
18 D	6.848	0.000	64.60	34.24	64.60	34.24	V-C	9817.	-3.400	0.000	1.000	1.000
34.24	0.000	0.000	Stratol_2_8_L_0									
19 D	7.250	0.000	68.40	36.25	68.40	36.25	V-C	9817.	-3.600	0.000	1.000	1.000
36.25	0.000	0.000	Stratol_2_8_L_0									
20 D	7.653	0.000	72.20	38.27	72.20	38.27	V-C	9817.	-3.800	0.000	1.000	1.000
38.27	0.000	0.000	Stratol_2_8_L_0									
21 D	8.056	0.000	76.00	40.28	76.00	40.28	V-C	9817.	-4.000	0.000	1.000	1.000
40.28	0.000	0.000	Stratol_2_8_L_0									
22 D	8.459	0.000	79.80	42.29	79.80	42.29	V-C	9817.	-4.200	0.000	1.000	1.000
42.29	0.000	0.000	Stratol_2_8_L_0									
23 D	8.862	0.000	83.60	44.31	83.60	44.31	V-C	9817.	-4.400	0.000	1.000	1.000
44.31	0.000	0.000	Stratol_2_8_L_0									
24 D	9.264	0.000	87.40	46.32	87.40	46.32	V-C	9817.	-4.600	0.000	1.000	1.000
46.32	0.000	0.000	Stratol_2_8_L_0									
25 D	9.667	0.000	91.20	48.34	91.20	48.34	V-C	9817.	-4.800	0.000	1.000	1.000
48.34	0.000	0.000	Stratol_2_8_L_0									
26 D	10.07	0.000	95.00	50.35	95.00	50.35	V-C	9817.	-5.000	0.000	1.000	1.000
50.35	0.000	0.000	Stratol_2_8_L_0									
27 D	10.47	0.000	98.80	52.36	98.80	52.36	V-C	9817.	-5.200	0.000	1.000	1.000
52.36	0.000	0.000	Stratol_2_8_L_0									
28 D	10.88	0.000	102.6	54.38	102.6	54.38	V-C	9817.	-5.400	0.000	1.000	1.000
54.38	0.000	0.000	Stratol_2_8_L_0									
29 D	11.28	0.000	106.4	56.39	106.4	56.39	V-C	9817.	-5.600	0.000	1.000	1.000
56.39	0.000	0.000	Stratol_2_8_L_0									
30 D	11.68	0.000	110.2	58.41	110.2	58.41	V-C	9817.	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 107 di 1221
58.41	0.000	0.000	Strato1_2_8_L_0		
31 D	12.08	0.000	114.0 60.42	114.0	60.42
60.42	0.000	0.000	Strato1_2_8_L_0		
32 D	12.49	0.000	117.8 62.43	117.8	62.43
62.43	0.000	0.000	Strato1_2_8_L_0		
33 D	12.89	0.000	121.6 64.45	121.6	64.45
64.45	0.000	0.000	Strato1_2_8_L_0		
34 D	13.29	0.000	125.4 66.46	125.4	66.46
66.46	0.000	0.000	Strato1_2_8_L_0		
35 D	13.70	0.000	129.2 68.48	129.2	68.48
68.48	0.000	0.000	Strato1_2_8_L_0		
36 D	14.10	0.000	133.0 70.49	133.0	70.49
70.49	0.000	0.000	Strato1_2_8_L_0		
37 D	14.50	0.000	136.8 72.50	136.8	72.50
72.50	0.000	0.000	Strato1_2_8_L_0		
38 D	14.90	0.000	140.6 74.52	140.6	74.52
74.52	0.000	0.000	Strato1_2_8_L_0		
39 D	15.31	0.000	144.4 76.53	144.4	76.53
76.53	0.000	0.000	Strato1_2_8_L_0		
40 D	15.71	0.000	148.2 78.55	148.2	78.55
78.55	0.000	0.000	Strato1_2_8_L_0		
41 D	16.11	0.000	152.0 80.56	152.0	80.56
80.56	0.000	0.000	Strato1_2_8_L_0		
42 D	16.51	0.000	155.8 82.57	155.8	82.57
82.57	0.000	0.000	Strato1_2_8_L_0		
43 D	16.92	0.000	159.6 84.59	159.6	84.59
84.59	0.000	0.000	Strato1_2_8_L_0		
44 D	17.32	0.000	163.4 86.60	163.4	86.60
86.60	0.000	0.000	Strato1_2_8_L_0		
45 D	17.72	0.000	167.2 88.62	167.2	88.62
88.62	0.000	0.000	Strato1_2_8_L_0		
46 D	18.13	0.000	171.0 90.63	171.0	90.63
90.63	0.000	0.000	Strato1_2_8_L_0		
47 D	18.53	0.000	174.8 92.64	174.8	92.64
92.64	0.000	0.000	Strato1_2_8_L_0		
48 D	18.93	0.000	178.6 94.66	178.6	94.66
94.66	0.000	0.000	Strato1_2_8_L_0		
49 D	19.33	0.000	182.4 96.67	182.4	96.67
96.67	0.000	0.000	Strato1_2_8_L_0		
50 D	19.74	0.000	186.2 98.69	186.2	98.69
98.69	0.000	0.000	Strato1_2_8_L_0		
51 D	20.14	0.000	190.0 100.7	190.0	100.7
100.7	0.000	0.000	Strato1_2_8_L_0		
52 D	20.54	0.000	193.8 102.7	193.8	102.7
102.7	0.000	0.000	Strato1_2_8_L_0		
53 D	20.95	0.000	197.6 104.7	197.6	104.7
104.7	0.000	0.000	Strato1_2_8_L_0		
54 D	21.35	0.000	201.4 106.7	201.4	106.7
106.7	0.000	0.000	Strato1_2_8_L_0		
55 D	21.75	0.000	205.2 108.8	205.2	108.8
108.8	0.000	0.000	Strato1_2_8_L_0		
56 D	22.15	0.000	209.0 110.8	209.0	110.8
110.8	0.000	0.000	Strato1_2_8_L_0		
57 D	22.56	0.000	212.8 112.8	212.8	112.8
112.8	0.000	0.000	Strato1_2_8_L_0		
58 D	22.96	0.000	216.6 114.8	216.6	114.8
114.8	0.000	0.000	Strato1_2_8_L_0		
59 D	23.36	0.000	220.4 116.8	220.4	116.8
116.8	0.000	0.000	Strato1_2_8_L_0		
60 D	23.77	0.000	224.2 118.8	224.2	118.8
118.8	0.000	0.000	Strato1_2_8_L_0		
61 D	24.17	0.000	228.0 120.8	228.0	120.8
120.8	0.000	0.000	Strato1_2_8_L_0		
62 D	24.57	0.000	231.8 122.9	231.8	122.9
122.9	0.000	0.000	Strato1_2_8_L_0		
63 D	24.97	0.000	235.6 124.9	235.6	124.9
124.9	0.000	0.000	Strato1_2_8_L_0		
64 D	23.94	0.000	239.4 119.7	239.4	119.7
119.7	0.000	0.000	Strato2_3095_82743_L_0		
65 D	24.34	0.000	243.4 121.7	243.4	121.7
121.7	0.000	0.000	Strato2_3095_82743_L_0		
66 D	24.74	0.000	247.4 123.7	247.4	123.7
123.7	0.000	0.000	Strato2_3095_82743_L_0		
67 D	25.14	0.000	251.4 125.7	251.4	125.7
125.7	0.000	0.000	Strato2_3095_82743_L_0		
68 D	25.54	0.000	255.4 127.7	255.4	127.7
127.7	0.000	0.000	Strato2_3095_82743_L_0		
69 D	25.94	0.000	259.4 129.7	259.4	129.7
129.7	0.000	0.000	Strato2_3095_82743_L_0		
70 D	26.34	0.000	263.4 131.7	263.4	131.7
131.7	0.000	0.000	Strato2_3095_82743_L_0		
71 D	26.74	0.000	267.4 133.7	267.4	133.7
133.7	0.000	0.000	Strato2_3095_82743_L_0		
72 D	27.14	0.000	271.4 135.7	271.4	135.7
135.7	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 108 di 1221							
73 D	27.54	0.000	275.4	137.7	275.4	137.7	V-C	2.1690E+04	-14.40	0.000	1.000	1.000
137.7	0.000	0.000	Strato2_3095_82743_L_0									
74 D	27.94	0.000	279.4	139.7	279.4	139.7	V-C	2.1690E+04	-14.60	0.000	1.000	1.000
139.7	0.000	0.000	Strato2_3095_82743_L_0									
75 D	28.34	0.000	283.4	141.7	283.4	141.7	V-C	2.1690E+04	-14.80	0.000	1.000	1.000
141.7	0.000	0.000	Strato2_3095_82743_L_0									
76 D	28.74	0.000	287.4	143.7	287.4	143.7	V-C	2.1690E+04	-15.00	0.000	1.000	1.000
143.7	0.000	0.000	Strato2_3095_82743_L_0									
77 D	29.14	0.000	291.4	145.7	291.4	145.7	V-C	2.1690E+04	-15.20	0.000	1.000	1.000
145.7	0.000	0.000	Strato2_3095_82743_L_0									
78 D	29.54	0.000	295.4	147.7	295.4	147.7	V-C	2.1690E+04	-15.40	0.000	1.000	1.000
147.7	0.000	0.000	Strato2_3095_82743_L_0									
79 D	29.94	0.000	299.4	149.7	299.4	149.7	V-C	2.1690E+04	-15.60	0.000	1.000	1.000
149.7	0.000	0.000	Strato2_3095_82743_L_0									
80 D	30.34	0.000	303.4	151.7	303.4	151.7	V-C	2.1690E+04	-15.80	0.000	1.000	1.000
151.7	0.000	0.000	Strato2_3095_82743_L_0									
81 D	30.74	0.000	307.4	153.7	307.4	153.7	V-C	2.1690E+04	-16.00	0.000	1.000	1.000
153.7	0.000	0.000	Strato2_3095_82743_L_0									
82 D	31.14	0.000	311.4	155.7	311.4	155.7	V-C	2.1690E+04	-16.20	0.000	1.000	1.000
155.7	0.000	0.000	Strato2_3095_82743_L_0									
83 D	31.54	0.000	315.4	157.7	315.4	157.7	V-C	2.1690E+04	-16.40	0.000	1.000	1.000
157.7	0.000	0.000	Strato2_3095_82743_L_0									
84 D	31.94	0.000	319.4	159.7	319.4	159.7	V-C	2.1690E+04	-16.60	0.000	1.000	1.000
159.7	0.000	0.000	Strato2_3095_82743_L_0									
85 D	32.34	0.000	323.4	161.7	323.4	161.7	V-C	2.1690E+04	-16.80	0.000	1.000	1.000
161.7	0.000	0.000	Strato2_3095_82743_L_0									
86 D	32.74	0.000	327.4	163.7	327.4	163.7	V-C	2.1690E+04	-17.00	0.000	1.000	1.000
163.7	0.000	0.000	Strato2_3095_82743_L_0									
87 D	33.14	0.000	331.4	165.7	331.4	165.7	V-C	2.1690E+04	-17.20	0.000	1.000	1.000
165.7	0.000	0.000	Strato2_3095_82743_L_0									
88 D	33.54	0.000	335.4	167.7	335.4	167.7	V-C	2.1690E+04	-17.40	0.000	1.000	1.000
167.7	0.000	0.000	Strato2_3095_82743_L_0									
89 D	33.94	0.000	339.4	169.7	339.4	169.7	V-C	2.1690E+04	-17.60	0.000	1.000	1.000
169.7	0.000	0.000	Strato2_3095_82743_L_0									
90 D	34.34	0.000	343.4	171.7	343.4	171.7	V-C	2.1690E+04	-17.80	0.000	1.000	1.000
171.7	0.000	0.000	Strato2_3095_82743_L_0									
91 D	17.37	0.000	347.4	173.7	347.4	173.7	V-C	2.1690E+04	-18.00	0.000	1.000	1.000
173.7	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SLERara_3454                                                                                   |
|          Exe Time :29 July 2019  17:58:39                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
109 di 1221

25	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000
31	0.0000	0.0000	0.0000	0.0000
32	0.0000	0.0000	0.0000	0.0000
33	0.0000	0.0000	0.0000	0.0000
34	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000
36	0.0000	0.0000	0.0000	0.0000
37	0.0000	0.0000	0.0000	0.0000
38	0.0000	0.0000	0.0000	0.0000
39	0.0000	0.0000	0.0000	0.0000
40	0.0000	0.0000	0.0000	0.0000
41	0.0000	0.0000	0.0000	0.0000
42	0.0000	0.0000	0.0000	0.0000
43	0.0000	0.0000	0.0000	0.0000
44	0.0000	0.0000	0.0000	0.0000
45	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000
47	0.0000	0.0000	0.0000	0.0000
48	0.0000	0.0000	0.0000	0.0000
49	0.0000	0.0000	0.0000	0.0000
50	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	0.0000	0.0000
52	0.0000	0.0000	0.0000	0.0000
53	0.0000	0.0000	0.0000	0.0000
54	0.0000	0.0000	0.0000	0.0000
55	0.0000	0.0000	0.0000	0.0000
56	0.0000	0.0000	0.0000	0.0000
57	0.0000	0.0000	0.0000	0.0000
58	0.0000	0.0000	0.0000	0.0000
59	0.0000	0.0000	0.0000	0.0000
60	0.0000	0.0000	0.0000	0.0000
61	0.0000	0.0000	0.0000	0.0000
62	0.0000	0.0000	0.0000	0.0000
63	0.0000	0.0000	0.0000	0.0000
64	0.0000	0.0000	0.0000	0.0000
65	0.0000	0.0000	0.0000	0.0000
66	0.0000	0.0000	0.0000	0.0000
67	0.0000	0.0000	0.0000	0.0000
68	0.0000	0.0000	0.0000	0.0000
69	0.0000	0.0000	0.0000	0.0000
70	0.0000	0.0000	0.0000	0.0000
71	0.0000	0.0000	0.0000	0.0000
72	0.0000	0.0000	0.0000	0.0000
73	0.0000	0.0000	0.0000	0.0000
74	0.0000	0.0000	0.0000	0.0000
75	0.0000	0.0000	0.0000	0.0000
76	0.0000	0.0000	0.0000	0.0000
77	0.0000	0.0000	0.0000	0.0000
78	0.0000	0.0000	0.0000	0.0000
79	0.0000	0.0000	0.0000	0.0000
80	0.0000	0.0000	0.0000	0.0000
81	0.0000	0.0000	0.0000	0.0000
82	0.0000	0.0000	0.0000	0.0000
83	0.0000	0.0000	0.0000	0.0000
84	0.0000	0.0000	0.0000	0.0000
85	0.0000	0.0000	0.0000	0.0000
86	0.0000	0.0000	0.0000	0.0000
87	0.0000	0.0000	0.0000	0.0000
88	0.0000	0.0000	0.0000	0.0000
89	0.0000	0.0000	0.0000	0.0000
90	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
110 di 1221

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      17:58:39  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

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Tirante1_429      :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
CURRENT TIME IS  1.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      17:58:39  |
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New Project

STRESS RESULTS FOR GROUP NO. 5

```

Tirante2_1507    :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
CURRENT TIME IS  1.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

ITER      0  RNORM = 0.000      RMNORM= 0.000
RINORM=0.7367E+05 RIMNOR= 0.000
RENORM= 1557.      REMNOR= 0.000      RATIO =0.1454      TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 36.09      RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT      =0.7367E+05 RDR      = 0.000
RATIOT=0.1454      RATOR= 0.000
MAX UN= 8.691      IEQ=      35 NODE      18 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=0.7367E+05 RIMNOR= 0.000
RENORM= 103.3      REMNOR=0.2133E-19 RATIO =0.3745E-01 TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 36.09      RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT      =0.7367E+05 RDR      = 0.000
RATIOT=0.3745E-01 RATOR= 0.000
MAX UN= 4.055      IEQ=      3 NODE      2 DOF      1  Y-DISPL.F
MIN UN=-.2147E-09 IEQ=     165 NODE     83 DOF      1  Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

```

```

ITER      3  RNORM = 0.000      RMNORM= 0.000
RINORM=0.7367E+05 RIMNOR= 0.000
RENORM= 114.5      REMNOR=0.1578E-18 RATIO =0.3942E-01 TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 36.09      RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT      =0.7367E+05 RDR      = 0.000
RATIOT=0.3942E-01 RATOR= 0.000
MAX UN= 6.019      IEQ=      37 NODE     19 DOF      1  Y-DISPL.F
MIN UN=-.3039E-08 IEQ=      7 NODE      4 DOF      1  Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
111 di 1221

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.7367E+05 RIMNOR= 0.000
            RENORM= 10.34      REMNOR=0.6492E-19 RATIO =0.1185E-01 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 36.09      RMMAX = 0.000
            RTSMAL=0.1000E-03 RMSMAL= 0.000
            RDT =0.7367E+05 RDR = 0.000
            RATIOT=0.1185E-01 RATIO= 0.000
            MAX UN= 2.465      IEQ= 55 NODE      28 DOF      1 Y-DISPL.F
            MIN UN=-.2143E-08 IEQ= 9 NODE      5 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

```

```

ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.7367E+05 RIMNOR= 0.000
            RENORM=0.5334E-02 REMNOR=0.5492E-19 RATIO =0.2691E-03 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 36.09      RMMAX = 0.000
            RTSMAL=0.1000E-03 RMSMAL= 0.000
            RDT =0.7367E+05 RDR = 0.000
            RATIOT=0.2691E-03 RATIO= 0.000
            MAX UN=0.7279E-01 IEQ= 87 NODE      44 DOF      1 Y-DISPL.F
            MIN UN=-.7813E-09 IEQ= 53 NODE      27 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      6  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.7367E+05 RIMNOR= 0.000
            RENORM=0.1577E-16 REMNOR=0.5331E-19 RATIO =0.1463E-10 TOLER =0.1000E-03      CONVERGED !
            RFMAX = 36.09      RMMAX = 0.000
            RTSMAL=0.1000E-03 RMSMAL= 0.000
            RDT =0.7367E+05 RDR = 0.000
            RATIOT=0.1463E-10 RATIO= 0.000
            MAX UN=0.1705E-08 IEQ= 19 NODE      10 DOF      1 Y-DISPL.F
            MIN UN=-.1694E-08 IEQ= 17 NODE      9 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      17:58:39  |
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New Project
SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	7.6712020E-03	-1.1433850E-03	
2	7.4425262E-03	-1.1433668E-03	
3	7.2138595E-03	-1.1432844E-03	
4	6.9852206E-03	-1.1430789E-03	
5	6.7566410E-03	-1.1426778E-03	
6	6.5281682E-03	-1.1419953E-03	
7	6.2998681E-03	-1.1409337E-03	
8	6.0718273E-03	-1.1393835E-03	
9	5.8441554E-03	-1.1372237E-03	
10	5.6169872E-03	-1.1343230E-03	
11	5.3904850E-03	-1.1305398E-03	
12	5.1648404E-03	-1.1257208E-03	
13	4.9402767E-03	-1.1197017E-03	
14	4.7170514E-03	-1.1123068E-03	
15	4.4954581E-03	-1.1033491E-03	
16	4.2758291E-03	-1.0926306E-03	
17	4.0585372E-03	-1.0799426E-03	
18	3.8439980E-03	-1.0650657E-03	
19	3.6326722E-03	-1.0477696E-03	
20	3.4250652E-03	-1.0278490E-03	
21	3.2217147E-03	-1.0051969E-03	
22	3.0231666E-03	-9.7984122E-04	
23	2.8299476E-03	-9.5194436E-04	
24	2.6425427E-03	-9.2175384E-04	
25	2.4613823E-03	-8.8953410E-04	
26	2.2868468E-03	-8.5554955E-04	
27	2.1192626E-03	-8.2006400E-04	
28	1.9589036E-03	-7.8334109E-04	
29	1.8059918E-03	-7.4564485E-04	
30	1.6606938E-03	-7.0723929E-04	

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 112 di 1221
31	1.5231257E-03	-6.6838990E-04			
32	1.3933496E-03	-6.2936355E-04			
33	1.2713742E-03	-5.9042838E-04			
34	1.1571553E-03	-5.5183737E-04			
35	1.0506019E-03	-5.1381341E-04			
36	9.5157974E-04	-4.7655052E-04			
37	8.5991977E-04	-4.4021694E-04			
38	7.7542144E-04	-4.0495623E-04			
39	6.9785769E-04	-3.7088940E-04			
40	6.2697972E-04	-3.3811717E-04			
41	5.6251943E-04	-3.0672113E-04			
42	5.0419410E-04	-2.7676537E-04			
43	4.5171275E-04	-2.4829982E-04			
44	4.0477279E-04	-2.2135848E-04			
45	3.6306656E-04	-1.9596279E-04			
46	3.2628394E-04	-1.7212318E-04			
47	2.9411359E-04	-1.4983894E-04			
48	2.6624545E-04	-1.2909837E-04			
49	2.4237289E-04	-1.0987989E-04			
50	2.2219417E-04	-9.2153092E-05			
51	2.0541470E-04	-7.5880593E-05			
52	1.9174776E-04	-6.1018706E-05			
53	1.8091625E-04	-4.7519236E-05			
54	1.7265275E-04	-3.5329578E-05			
55	1.6670078E-04	-2.4394525E-05			
56	1.6281511E-04	-1.4656916E-05			
57	1.6076209E-04	-6.0581132E-06			
58	1.6031991E-04	1.4613498E-06			
59	1.6127865E-04	7.9611786E-06			
60	1.6344037E-04	1.3500820E-05			
61	1.6661889E-04	1.8139015E-05			
62	1.7063970E-04	2.1933195E-05			
63	1.7533962E-04	2.4939168E-05			
64	1.8056644E-04	2.7211118E-05			
65	1.8617991E-04	2.8820719E-05			
66	1.9205640E-04	2.9855399E-05			
67	1.9808921E-04	3.0397206E-05			
68	2.0418721E-04	3.0522639E-05			
69	2.1027492E-04	3.0302548E-05			
70	2.1628953E-04	2.9801890E-05			
71	2.2218092E-04	2.9079812E-05			
72	2.2791027E-04	2.8189939E-05			
73	2.3344892E-04	2.7180500E-05			
74	2.3877736E-04	2.6094502E-05			
75	2.4388415E-04	2.4969906E-05			
76	2.4876496E-04	2.3839836E-05			
77	2.5342161E-04	2.2732597E-05			
78	2.5786110E-04	2.1671889E-05			
79	2.6209476E-04	2.0677193E-05			
80	2.6613741E-04	1.9763966E-05			
81	2.7000656E-04	1.8943822E-05			
82	2.7372167E-04	1.8224705E-05			
83	2.7730347E-04	1.7611033E-05			
84	2.8077319E-04	1.7103835E-05			
85	2.8415211E-04	1.6700684E-05			
86	2.8746019E-04	1.6395868E-05			
87	2.9071642E-04	1.6180505E-05			
88	2.9393756E-04	1.6042699E-05			
89	2.9713767E-04	1.5967544E-05			
90	3.0032756E-04	1.5937166E-05			
91	3.0351413E-04	1.5930725E-05			



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 113 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      17:58:39          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.7661	-7.6712E-03	25.20	7.661	25.20	13.36	ACTIVE	0.000	0.000	0.000	1.000	1.000
7.661	0.000	0.000	Stratol_2_8_L_0									
2 D	1.173	-7.4425E-03	19.29	5.865	19.29	10.22	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
5.865	0.000	0.000	Stratol_2_8_L_0									
3 D	1.310	-7.2139E-03	21.54	6.548	21.54	11.42	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
6.548	0.000	0.000	Stratol_2_8_L_0									
4 D	1.737	-6.9852E-03	28.56	8.683	28.56	15.14	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
8.683	0.000	0.000	Stratol_2_8_L_0									
5 D	1.886	-6.7566E-03	31.02	9.431	31.02	16.44	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
9.431	0.000	0.000	Stratol_2_8_L_0									
6 D	2.224	-6.5282E-03	36.58	11.12	36.58	19.39	ACTIVE	0.000	-1.000	0.000	1.000	1.000
11.12	0.000	0.000	Stratol_2_8_L_0									
7 D	2.393	-6.2999E-03	39.36	11.96	39.36	20.86	ACTIVE	0.000	-1.200	0.000	1.000	1.000
11.96	0.000	0.000	Stratol_2_8_L_0									
8 D	2.697	-6.0718E-03	44.36	13.49	44.36	23.51	ACTIVE	0.000	-1.400	0.000	1.000	1.000
13.49	0.000	0.000	Stratol_2_8_L_0									
9 D	2.838	-5.8442E-03	46.68	14.19	46.68	24.74	ACTIVE	0.000	-1.600	0.000	1.000	1.000
14.19	0.000	0.000	Stratol_2_8_L_0									
10 D	3.129	-5.6170E-03	51.47	15.65	51.47	27.28	ACTIVE	0.000	-1.800	0.000	1.000	1.000
15.65	0.000	0.000	Stratol_2_8_L_0									
11 D	3.323	-5.3905E-03	54.65	16.61	54.65	28.97	ACTIVE	0.000	-2.000	0.000	1.000	1.000
16.61	0.000	0.000	Stratol_2_8_L_0									
12 D	3.602	-5.1648E-03	59.24	18.01	59.24	31.40	ACTIVE	0.000	-2.200	0.000	1.000	1.000
18.01	0.000	0.000	Stratol_2_8_L_0									
13 D	3.800	-4.9403E-03	62.51	19.00	62.51	33.13	ACTIVE	0.000	-2.400	0.000	1.000	1.000
19.00	0.000	0.000	Stratol_2_8_L_0									
14 D	4.071	-4.7171E-03	66.96	20.36	66.96	35.49	ACTIVE	0.000	-2.600	0.000	1.000	1.000
20.36	0.000	0.000	Stratol_2_8_L_0									
15 D	4.274	-4.4955E-03	70.29	21.37	70.29	37.25	ACTIVE	0.000	-2.800	0.000	1.000	1.000
21.37	0.000	0.000	Stratol_2_8_L_0									
16 D	4.516	-4.2758E-03	74.27	22.58	74.27	39.37	ACTIVE	0.000	-3.000	0.000	1.000	1.000
22.58	0.000	0.000	Stratol_2_8_L_0									
17 D	4.723	-4.0585E-03	77.68	23.61	77.68	41.17	ACTIVE	0.000	-3.200	0.000	1.000	1.000
23.61	0.000	0.000	Stratol_2_8_L_0									
18 D	4.985	-3.8440E-03	81.99	24.92	81.99	43.45	ACTIVE	0.000	-3.400	0.000	1.000	1.000
24.92	0.000	0.000	Stratol_2_8_L_0									
19 D	5.194	-3.6327E-03	85.43	25.97	85.43	45.28	ACTIVE	0.000	-3.600	0.000	1.000	1.000
25.97	0.000	0.000	Stratol_2_8_L_0									
20 D	5.452	-3.4251E-03	89.67	27.26	89.67	47.53	ACTIVE	0.000	-3.800	0.000	1.000	1.000
27.26	0.000	0.000	Stratol_2_8_L_0									
21 D	5.663	-3.2217E-03	93.15	28.32	93.15	49.37	ACTIVE	0.000	-4.000	0.000	1.000	1.000
28.32	0.000	0.000	Stratol_2_8_L_0									
22 D	5.919	-3.0232E-03	97.35	29.59	97.35	51.59	ACTIVE	0.000	-4.200	0.000	1.000	1.000
29.59	0.000	0.000	Stratol_2_8_L_0									
23 D	6.131	-2.8299E-03	100.8	30.66	100.8	53.45	ACTIVE	0.000	-4.400	0.000	1.000	1.000
30.66	0.000	0.000	Stratol_2_8_L_0									
24 D	6.369	-2.6425E-03	104.8	31.85	104.8	55.52	ACTIVE	0.000	-4.600	0.000	1.000	1.000
31.85	0.000	0.000	Stratol_2_8_L_0									
25 D	6.584	-2.4614E-03	108.3	32.92	108.3	57.39	ACTIVE	0.000	-4.800	0.000	1.000	1.000
32.92	0.000	0.000	Stratol_2_8_L_0									
26 D	6.836	-2.2868E-03	112.4	34.18	112.4	59.59	ACTIVE	0.000	-5.000	0.000	1.000	1.000
34.18	0.000	0.000	Stratol_2_8_L_0									
27 D	7.051	-2.1193E-03	116.0	35.26	116.0	61.47	ACTIVE	0.000	-5.200	0.000	1.000	1.000
35.26	0.000	0.000	Stratol_2_8_L_0									
28 D	7.301	-1.9589E-03	120.1	36.51	120.1	63.65	ACTIVE	0.000	-5.400	0.000	1.000	1.000
36.51	0.000	0.000	Stratol_2_8_L_0									
29 D	7.518	-1.8060E-03	123.7	37.59	123.7	65.53	ACTIVE	0.000	-5.600	0.000	1.000	1.000
37.59	0.000	0.000	Stratol_2_8_L_0									
30 D	7.767	-1.6607E-03	127.7	38.83	127.7	67.70	ACTIVE	0.000	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



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Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 114 di 1221
38.83	0.000	0.000	Strato1_2_8_L_0				
31 D	7.972	-1.5231E-03	131.1	39.86	131.1	69.50	ACTIVE 0.000 -6.000 0.000 1.000 1.000
39.86	0.000	0.000	Strato1_2_8_L_0				
32 D	8.249	-1.3933E-03	135.2	41.24	135.2	71.66	UL-RL 2.1827E+04 -6.200 0.000 1.000 1.000
41.24	0.000	0.000	Strato1_2_8_L_0				
33 D	9.162	-1.2714E-03	138.8	45.81	138.8	73.56	UL-RL 2.1827E+04 -6.400 0.000 1.000 1.000
45.81	0.000	0.000	Strato1_2_8_L_0				
34 D	10.09	-1.1572E-03	142.9	50.45	142.9	75.71	UL-RL 2.1827E+04 -6.600 0.000 1.000 1.000
50.45	0.000	0.000	Strato1_2_8_L_0				
35 D	10.94	-1.0506E-03	146.5	54.69	146.5	77.62	UL-RL 2.1827E+04 -6.800 0.000 1.000 1.000
54.69	0.000	0.000	Strato1_2_8_L_0				
36 D	11.80	-9.5158E-04	150.5	58.99	150.5	79.76	UL-RL 2.1827E+04 -7.000 0.000 1.000 1.000
58.99	0.000	0.000	Strato1_2_8_L_0				
37 D	12.58	-8.5992E-04	154.1	62.91	154.1	81.68	UL-RL 2.1827E+04 -7.200 0.000 1.000 1.000
62.91	0.000	0.000	Strato1_2_8_L_0				
38 D	13.38	-7.7542E-04	158.1	66.89	158.1	83.81	UL-RL 2.1827E+04 -7.400 0.000 1.000 1.000
66.89	0.000	0.000	Strato1_2_8_L_0				
39 D	14.08	-6.9786E-04	161.6	70.42	161.6	85.65	UL-RL 2.1827E+04 -7.600 0.000 1.000 1.000
70.42	0.000	0.000	Strato1_2_8_L_0				
40 D	14.82	-6.2698E-04	165.6	74.10	165.6	87.78	UL-RL 2.1827E+04 -7.800 0.000 1.000 1.000
74.10	0.000	0.000	Strato1_2_8_L_0				
41 D	15.49	-5.6252E-04	169.3	77.43	169.3	89.71	UL-RL 2.1827E+04 -8.000 0.000 1.000 1.000
77.43	0.000	0.000	Strato1_2_8_L_0				
42 D	16.17	-5.0419E-04	173.3	80.83	173.3	91.83	UL-RL 2.1827E+04 -8.200 0.000 1.000 1.000
80.83	0.000	0.000	Strato1_2_8_L_0				
43 D	16.78	-4.5171E-04	176.9	83.90	176.9	93.76	UL-RL 2.1827E+04 -8.400 0.000 1.000 1.000
83.90	0.000	0.000	Strato1_2_8_L_0				
44 D	17.41	-4.0477E-04	180.9	87.04	180.9	95.88	UL-RL 2.1827E+04 -8.600 0.000 1.000 1.000
87.04	0.000	0.000	Strato1_2_8_L_0				
45 D	17.98	-3.6307E-04	184.5	89.89	184.5	97.81	UL-RL 2.1827E+04 -8.800 0.000 1.000 1.000
89.89	0.000	0.000	Strato1_2_8_L_0				
46 D	18.55	-3.2628E-04	188.4	92.73	188.4	99.86	UL-RL 2.1827E+04 -9.000 0.000 1.000 1.000
92.73	0.000	0.000	Strato1_2_8_L_0				
47 D	19.07	-2.9411E-04	192.1	95.37	192.1	101.8	UL-RL 2.1827E+04 -9.200 0.000 1.000 1.000
95.37	0.000	0.000	Strato1_2_8_L_0				
48 D	19.62	-2.6625E-04	196.0	98.09	196.0	103.9	UL-RL 2.1827E+04 -9.400 0.000 1.000 1.000
98.09	0.000	0.000	Strato1_2_8_L_0				
49 D	20.11	-2.4237E-04	199.7	100.6	199.7	105.8	UL-RL 2.1827E+04 -9.600 0.000 1.000 1.000
100.6	0.000	0.000	Strato1_2_8_L_0				
50 D	20.62	-2.2219E-04	203.7	103.1	203.7	107.9	UL-RL 2.1827E+04 -9.800 0.000 1.000 1.000
103.1	0.000	0.000	Strato1_2_8_L_0				
51 D	21.08	-2.0541E-04	207.3	105.4	207.3	109.9	UL-RL 2.1827E+04 -10.00 0.000 1.000 1.000
105.4	0.000	0.000	Strato1_2_8_L_0				
52 D	21.56	-1.9175E-04	211.3	107.8	211.3	112.0	UL-RL 2.1827E+04 -10.20 0.000 1.000 1.000
107.8	0.000	0.000	Strato1_2_8_L_0				
53 D	22.00	-1.8092E-04	215.0	110.0	215.0	113.9	UL-RL 2.1827E+04 -10.40 0.000 1.000 1.000
110.0	0.000	0.000	Strato1_2_8_L_0				
54 D	22.44	-1.7265E-04	218.8	112.2	218.8	116.0	UL-RL 2.1827E+04 -10.60 0.000 1.000 1.000
112.2	0.000	0.000	Strato1_2_8_L_0				
55 D	22.86	-1.6670E-04	222.5	114.3	222.5	117.9	UL-RL 2.1827E+04 -10.80 0.000 1.000 1.000
114.3	0.000	0.000	Strato1_2_8_L_0				
56 D	23.29	-1.6282E-04	226.5	116.5	226.5	120.0	UL-RL 2.1827E+04 -11.00 0.000 1.000 1.000
116.5	0.000	0.000	Strato1_2_8_L_0				
57 D	23.69	-1.6076E-04	230.1	118.5	230.1	122.0	UL-RL 2.1827E+04 -11.20 0.000 1.000 1.000
118.5	0.000	0.000	Strato1_2_8_L_0				
58 D	24.11	-1.6032E-04	234.1	120.6	234.1	124.1	UL-RL 2.1827E+04 -11.40 0.000 1.000 1.000
120.6	0.000	0.000	Strato1_2_8_L_0				
59 D	24.50	-1.6128E-04	237.8	122.5	237.8	126.0	UL-RL 2.1827E+04 -11.60 0.000 1.000 1.000
122.5	0.000	0.000	Strato1_2_8_L_0				
60 D	24.91	-1.6344E-04	241.7	124.5	241.7	128.1	UL-RL 2.1827E+04 -11.80 0.000 1.000 1.000
124.5	0.000	0.000	Strato1_2_8_L_0				
61 D	25.27	-1.6662E-04	245.3	126.4	245.3	130.0	UL-RL 2.1827E+04 -12.00 0.000 1.000 1.000
126.4	0.000	0.000	Strato1_2_8_L_0				
62 D	25.67	-1.7064E-04	249.2	128.4	249.2	132.1	UL-RL 2.1827E+04 -12.20 0.000 1.000 1.000
128.4	0.000	0.000	Strato1_2_8_L_0				
63 D	26.04	-1.7534E-04	252.9	130.2	252.9	134.1	UL-RL 2.1827E+04 -12.40 0.000 1.000 1.000
130.2	0.000	0.000	Strato1_2_8_L_0				
64 D	23.46	-1.8057E-04	256.9	117.3	256.9	128.4	UL-RL 6.1746E+04 -12.60 0.000 1.000 1.000
117.3	0.000	0.000	Strato2_3095_82743_L_0				
65 D	23.78	-1.8618E-04	260.8	118.9	260.8	130.4	UL-RL 6.1746E+04 -12.80 0.000 1.000 1.000
118.9	0.000	0.000	Strato2_3095_82743_L_0				
66 D	24.12	-1.9206E-04	264.9	120.6	264.9	132.4	UL-RL 6.1746E+04 -13.00 0.000 1.000 1.000
120.6	0.000	0.000	Strato2_3095_82743_L_0				
67 D	24.43	-1.9809E-04	268.8	122.2	268.8	134.4	UL-RL 6.1746E+04 -13.20 0.000 1.000 1.000
122.2	0.000	0.000	Strato2_3095_82743_L_0				
68 D	24.77	-2.0419E-04	272.9	123.8	272.9	136.5	UL-RL 6.1746E+04 -13.40 0.000 1.000 1.000
123.8	0.000	0.000	Strato2_3095_82743_L_0				
69 D	25.08	-2.1027E-04	276.7	125.4	276.7	138.4	UL-RL 6.1746E+04 -13.60 0.000 1.000 1.000
125.4	0.000	0.000	Strato2_3095_82743_L_0				
70 D	25.41	-2.1629E-04	280.8	127.1	280.8	140.4	UL-RL 6.1746E+04 -13.80 0.000 1.000 1.000
127.1	0.000	0.000	Strato2_3095_82743_L_0				
71 D	25.73	-2.2218E-04	284.7	128.7	284.7	142.4	UL-RL 6.1746E+04 -14.00 0.000 1.000 1.000
128.7	0.000	0.000	Strato2_3095_82743_L_0				
72 D	26.07	-2.2791E-04	288.9	130.4	288.9	144.4	UL-RL 6.1746E+04 -14.20 0.000 1.000 1.000
130.4	0.000	0.000	Strato2_3095_82743_L_0				



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 116 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                       |
|          NewProject.BaseDesignSection_28.SLERara_3454          |
|          Exe Time :29 July 2019          17:58:39          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
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	not available									
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
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	not available									
19 D	1.536	3.6327E-03	1.900	7.678	68.40	36.25	PASSIVE	0.000	-3.600	0.000	1.000	1.000
7.678	0.000	0.000	Stratol_2_8_L_0									
20 D	4.607	3.4251E-03	5.700	23.03	72.20	38.27	PASSIVE	0.000	-3.800	0.000	1.000	1.000
23.03	0.000	0.000	Stratol_2_8_L_0									
21 D	7.678	3.2217E-03	9.500	38.39	76.00	40.28	PASSIVE	0.000	-4.000	0.000	1.000	1.000
38.39	0.000	0.000	Stratol_2_8_L_0									
22 D	10.75	3.0232E-03	13.30	53.75	79.80	53.75	PASSIVE	0.000	-4.200	0.000	1.000	1.000
53.75	0.000	0.000	Stratol_2_8_L_0									
23 D	11.72	2.8299E-03	17.10	58.60	83.60	58.60	V-C	5049.	-4.400	0.000	1.000	1.000
58.60	0.000	0.000	Stratol_2_8_L_0									
24 D	11.93	2.6425E-03	20.90	59.66	87.40	59.66	V-C	5049.	-4.600	0.000	1.000	1.000
59.66	0.000	0.000	Stratol_2_8_L_0									
25 D	12.15	2.4614E-03	24.70	60.76	91.20	60.76	V-C	5049.	-4.800	0.000	1.000	1.000
60.76	0.000	0.000	Stratol_2_8_L_0									
26 D	12.38	2.2868E-03	28.50	61.90	95.00	61.90	V-C	5049.	-5.000	0.000	1.000	1.000
61.90	0.000	0.000	Stratol_2_8_L_0									
27 D	12.61	2.1193E-03	32.30	63.06	98.80	63.06	V-C	5049.	-5.200	0.000	1.000	1.000
63.06	0.000	0.000	Stratol_2_8_L_0									
28 D	12.85	1.9589E-03	36.10	64.27	102.6	64.27	V-C	5049.	-5.400	0.000	1.000	1.000
64.27	0.000	0.000	Stratol_2_8_L_0									
29 D	13.10	1.8060E-03	39.90	65.51	106.4	65.51	V-C	5049.	-5.600	0.000	1.000	1.000
65.51	0.000	0.000	Stratol_2_8_L_0									
30 D	13.36	1.6607E-03	43.70	66.79	110.2	66.79	V-C	5049.	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



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Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 117 di 1221				
66.79	0.000	0.000	Strato1_2_8_L_0								
31 D	13.62	1.5231E-03	47.50 68.11	114.0	68.11	V-C	5049.	-6.000	0.000	1.000	1.000
68.11	0.000	0.000	Strato1_2_8_L_0								
32 D	13.89	1.3933E-03	51.30 69.47	117.8	69.47	V-C	5049.	-6.200	0.000	1.000	1.000
69.47	0.000	0.000	Strato1_2_8_L_0								
33 D	14.17	1.2714E-03	55.10 70.87	121.6	70.87	V-C	5049.	-6.400	0.000	1.000	1.000
70.87	0.000	0.000	Strato1_2_8_L_0								
34 D	14.46	1.1572E-03	58.90 72.30	125.4	72.30	V-C	5049.	-6.600	0.000	1.000	1.000
72.30	0.000	0.000	Strato1_2_8_L_0								
35 D	14.76	1.0506E-03	62.70 73.78	129.2	73.78	V-C	5049.	-6.800	0.000	1.000	1.000
73.78	0.000	0.000	Strato1_2_8_L_0								
36 D	15.06	9.5158E-04	66.50 75.29	133.0	75.29	V-C	5049.	-7.000	0.000	1.000	1.000
75.29	0.000	0.000	Strato1_2_8_L_0								
37 D	15.37	8.5992E-04	70.30 76.85	136.8	76.85	V-C	5049.	-7.200	0.000	1.000	1.000
76.85	0.000	0.000	Strato1_2_8_L_0								
38 D	15.69	7.7542E-04	74.10 78.43	140.6	78.43	V-C	5049.	-7.400	0.000	1.000	1.000
78.43	0.000	0.000	Strato1_2_8_L_0								
39 D	16.01	6.9786E-04	77.90 80.06	144.4	80.06	V-C	5049.	-7.600	0.000	1.000	1.000
80.06	0.000	0.000	Strato1_2_8_L_0								
40 D	16.34	6.2698E-04	81.70 81.71	148.2	81.71	V-C	5049.	-7.800	0.000	1.000	1.000
81.71	0.000	0.000	Strato1_2_8_L_0								
41 D	16.68	5.6252E-04	85.50 83.40	152.0	83.40	V-C	5049.	-8.000	0.000	1.000	1.000
83.40	0.000	0.000	Strato1_2_8_L_0								
42 D	17.02	5.0419E-04	89.30 85.12	155.8	85.12	V-C	5049.	-8.200	0.000	1.000	1.000
85.12	0.000	0.000	Strato1_2_8_L_0								
43 D	17.37	4.5171E-04	93.10 86.87	159.6	86.87	V-C	5049.	-8.400	0.000	1.000	1.000
86.87	0.000	0.000	Strato1_2_8_L_0								
44 D	17.73	4.0477E-04	96.90 88.65	163.4	88.65	V-C	5049.	-8.600	0.000	1.000	1.000
88.65	0.000	0.000	Strato1_2_8_L_0								
45 D	18.09	3.6307E-04	100.7 90.45	167.2	90.45	V-C	5049.	-8.800	0.000	1.000	1.000
90.45	0.000	0.000	Strato1_2_8_L_0								
46 D	18.40	3.2628E-04	104.5 92.02	171.0	92.41	UL-RL	1.5147E+04	-9.000	0.000	1.000	1.000
92.02	0.000	0.000	Strato1_2_8_L_0								
47 D	18.72	2.9411E-04	108.3 93.62	174.8	94.38	UL-RL	1.5147E+04	-9.200	0.000	1.000	1.000
93.62	0.000	0.000	Strato1_2_8_L_0								
48 D	19.06	2.6625E-04	112.1 95.28	178.6	96.36	UL-RL	1.5147E+04	-9.400	0.000	1.000	1.000
95.28	0.000	0.000	Strato1_2_8_L_0								
49 D	19.40	2.4237E-04	115.9 97.00	182.4	98.35	UL-RL	1.5147E+04	-9.600	0.000	1.000	1.000
97.00	0.000	0.000	Strato1_2_8_L_0								
50 D	19.75	2.2219E-04	119.7 98.76	186.2	100.3	UL-RL	1.5147E+04	-9.800	0.000	1.000	1.000
98.76	0.000	0.000	Strato1_2_8_L_0								
51 D	20.11	2.0541E-04	123.5 100.6	190.0	102.3	UL-RL	1.5147E+04	-10.00	0.000	1.000	1.000
100.6	0.000	0.000	Strato1_2_8_L_0								
52 D	20.49	1.9175E-04	127.3 102.4	193.8	104.3	UL-RL	1.5147E+04	-10.20	0.000	1.000	1.000
102.4	0.000	0.000	Strato1_2_8_L_0								
53 D	20.86	1.8092E-04	131.1 104.3	197.6	106.3	UL-RL	1.5147E+04	-10.40	0.000	1.000	1.000
104.3	0.000	0.000	Strato1_2_8_L_0								
54 D	21.25	1.7265E-04	134.9 106.2	201.4	108.3	UL-RL	1.5147E+04	-10.60	0.000	1.000	1.000
106.2	0.000	0.000	Strato1_2_8_L_0								
55 D	21.64	1.6670E-04	138.7 108.2	205.2	110.3	UL-RL	1.5147E+04	-10.80	0.000	1.000	1.000
108.2	0.000	0.000	Strato1_2_8_L_0								
56 D	22.04	1.6282E-04	142.5 110.2	209.0	112.3	UL-RL	1.5147E+04	-11.00	0.000	1.000	1.000
110.2	0.000	0.000	Strato1_2_8_L_0								
57 D	22.44	1.6076E-04	146.3 112.2	212.8	114.3	UL-RL	1.5147E+04	-11.20	0.000	1.000	1.000
112.2	0.000	0.000	Strato1_2_8_L_0								
58 D	22.85	1.6032E-04	150.1 114.2	216.6	116.3	UL-RL	1.5147E+04	-11.40	0.000	1.000	1.000
114.2	0.000	0.000	Strato1_2_8_L_0								
59 D	23.26	1.6128E-04	153.9 116.3	220.4	118.3	UL-RL	1.5147E+04	-11.60	0.000	1.000	1.000
116.3	0.000	0.000	Strato1_2_8_L_0								
60 D	23.67	1.6344E-04	157.7 118.4	224.2	120.3	UL-RL	1.5147E+04	-11.80	0.000	1.000	1.000
118.4	0.000	0.000	Strato1_2_8_L_0								
61 D	24.09	1.6662E-04	161.5 120.4	228.0	122.3	UL-RL	1.5147E+04	-12.00	0.000	1.000	1.000
120.4	0.000	0.000	Strato1_2_8_L_0								
62 D	24.51	1.7064E-04	165.3 122.5	231.8	124.3	UL-RL	1.5147E+04	-12.20	0.000	1.000	1.000
122.5	0.000	0.000	Strato1_2_8_L_0								
63 D	24.93	1.7534E-04	169.1 124.6	235.6	126.3	UL-RL	1.5147E+04	-12.40	0.000	1.000	1.000
124.6	0.000	0.000	Strato1_2_8_L_0								
64 D	21.55	1.8057E-04	172.9 107.8	239.4	119.7	UL-RL	3.3465E+04	-12.60	0.000	1.000	1.000
107.8	0.000	0.000	Strato2_3095_82743_L_0								
65 D	22.00	1.8618E-04	176.9 110.0	243.4	121.7	UL-RL	3.3465E+04	-12.80	0.000	1.000	1.000
110.0	0.000	0.000	Strato2_3095_82743_L_0								
66 D	22.44	1.9206E-04	180.9 112.2	247.4	123.7	UL-RL	3.3465E+04	-13.00	0.000	1.000	1.000
112.2	0.000	0.000	Strato2_3095_82743_L_0								
67 D	22.89	1.9809E-04	184.9 114.4	251.4	125.7	UL-RL	3.3465E+04	-13.20	0.000	1.000	1.000
114.4	0.000	0.000	Strato2_3095_82743_L_0								
68 D	23.33	2.0419E-04	188.9 116.7	255.4	127.7	UL-RL	3.3465E+04	-13.40	0.000	1.000	1.000
116.7	0.000	0.000	Strato2_3095_82743_L_0								
69 D	23.78	2.1027E-04	192.9 118.9	259.4	129.7	UL-RL	3.3465E+04	-13.60	0.000	1.000	1.000
118.9	0.000	0.000	Strato2_3095_82743_L_0								
70 D	24.22	2.1629E-04	196.9 121.1	263.4	131.7	UL-RL	3.3465E+04	-13.80	0.000	1.000	1.000
121.1	0.000	0.000	Strato2_3095_82743_L_0								
71 D	24.66	2.2218E-04	200.9 123.3	267.4	133.7	UL-RL	3.3465E+04	-14.00	0.000	1.000	1.000
123.3	0.000	0.000	Strato2_3095_82743_L_0								
72 D	25.11	2.2791E-04	204.9 125.5	271.4	135.7	UL-RL	3.3465E+04	-14.20	0.000	1.000	1.000
125.5	0.000	0.000	Strato2_3095_82743_L_0								

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



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Codifica Documento
E E2 CL GA 2701 002

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  17:58:39  |
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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_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 C U R R E N T T I M E I S 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.76608	-0.76608	7.10700E-11	0.15322
2	1.9391	-1.9391	-0.15322	0.54103
3	3.2487	-3.2487	-0.54103	1.1908
4	4.9853	-4.9853	-1.1908	2.1878
5	6.8716	-6.8716	-2.1878	3.5621
6	9.0954	-9.0954	-3.5621	5.3812
7	11.488	-11.488	-5.3812	7.6789
8	14.185	-14.185	-7.6789	10.516
9	17.023	-17.023	-10.516	13.921
10	20.153	-20.153	-13.921	17.951
11	23.475	-23.475	-17.951	22.646
12	27.077	-27.077	-22.646	28.062
13	30.878	-30.878	-28.062	34.237
14	34.949	-34.949	-34.237	41.227
15	39.222	-39.222	-41.227	49.071
16	43.738	-43.738	-49.071	57.819
17	48.461	-48.461	-57.819	67.511
18	53.446	-53.446	-67.511	78.200
19	57.104	-57.104	-78.200	89.621
20	57.950	-57.950	-89.621	101.21
21	55.935	-55.935	-101.21	112.40
22	51.105	-51.105	-112.40	122.62
23	45.517	-45.517	-122.62	131.72
24	39.953	-39.953	-131.72	139.71
25	34.385	-34.385	-139.71	146.59
26	28.841	-28.841	-146.59	152.36
27	23.280	-23.280	-152.36	157.01
28	17.727	-17.727	-157.01	160.56
29	12.143	-12.143	-160.56	162.99
30	6.5518	-6.5518	-162.99	164.30
31	0.90221	-0.90221	-164.30	164.48
32	-4.7428	4.7428	-164.48	163.53
33	-9.7540	9.7540	-163.53	161.58
34	-14.124	14.124	-161.58	158.76
35	-17.942	17.942	-158.76	155.17
36	-21.202	21.202	-155.17	150.93
37	-23.990	23.990	-150.93	146.13
38	-26.299	26.299	-146.13	140.87
39	-28.226	28.226	-140.87	135.22
40	-29.749	29.749	-135.22	129.27
41	-30.943	30.943	-129.27	123.08
42	-31.802	31.802	-123.08	116.72
43	-32.396	32.396	-116.72	110.24
44	-32.717	32.717	-110.24	103.70
45	-32.829	32.829	-103.70	97.136
46	-32.687	32.687	-97.136	90.598
47	-32.336	32.336	-90.598	84.131
48	-31.774	31.774	-84.131	77.776
49	-31.063	31.063	-77.776	71.563
50	-30.196	30.196	-71.563	65.524
51	-29.229	29.229	-65.524	59.679
52	-28.153	28.153	-59.679	54.048
53	-27.020	27.020	-54.048	48.644
54	-25.828	25.828	-48.644	43.478
55	-24.612	24.612	-43.478	38.556
56	-23.358	23.358	-38.556	33.885
57	-22.107	22.107	-33.885	29.463
58	-20.843	20.843	-29.463	25.295
59	-19.603	19.603	-25.295	21.374
60	-18.368	18.368	-21.374	17.700
61	-17.184	17.184	-17.700	14.264
62	-16.018	16.018	-14.264	11.060
63	-14.901	14.901	-11.060	8.0799

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
120 di 1221

64	-12.999	12.999	-8.0799	5.4802
65	-11.219	11.219	-5.4802	3.2365
66	-9.5425	9.5425	-3.2365	1.3280
67	-7.9964	7.9964	-1.3280	-0.27122
68	-6.5586	6.5586	0.27122	-1.5829
69	-5.2596	5.2596	1.5829	-2.6349
70	-4.0672	4.0672	2.6349	-3.4483
71	-3.0008	3.0008	3.4483	-4.0485
72	-2.0356	2.0356	4.0485	-4.4556
73	-1.1892	1.1892	4.4556	-4.6934
74	-0.43659	0.43659	4.6934	-4.7807
75	0.20601	-0.20601	4.7807	-4.7395
76	0.75566	-0.75566	4.7395	-4.5884
77	1.2044	-1.2044	4.5884	-4.3475
78	1.5762	-1.5762	4.3475	-4.0323
79	1.8555	-1.8555	4.0323	-3.6612
80	2.0654	-2.0654	3.6612	-3.2481
81	2.1901	-2.1901	3.2481	-2.8101
82	2.2515	-2.2515	2.8101	-2.3598
83	2.2335	-2.2335	2.3598	-1.9131
84	2.1499	-2.1499	1.9131	-1.4831
85	1.9912	-1.9912	1.4831	-1.0848
86	1.7768	-1.7768	1.0848	-0.72948
87	1.4900	-1.4900	0.72948	-0.43147
88	1.1490	-1.1490	0.43147	-0.20166
89	0.73702	-0.73702	0.20166	-5.42608E-02
90	0.27130	-0.27130	5.42608E-02	6.27082E-13

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  17:58:39  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

CURRENT TIME IS 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  17:58:39  |
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

CURRENT TIME IS 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER  0  RNORM = 0.000  RMNORM= 0.000
      RINORM=0.1841E+06  RIMNOR=0.1178E+07
      RENORM= 8234.  REMNOR=0.5331E-19  RATIO =0.2115  TOLER =0.1000E-03  NOT CONVERGED
      RFXMAX = 90.74  RMAX = 164.5
      RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
      RDT =0.1841E+06  RDR =0.1178E+07
      RATIOT=0.2115  RATIO= 0.000
      MAX UN=0.1705E-08  IEQ= 19 NODE 10 DOF 1 Y-DISPL.F

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GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 122 di 1221
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28	1.6304860E-03	-6.3703901E-04
29	1.5062936E-03	-6.0483476E-04
30	1.3885701E-03	-5.7236984E-04
31	1.2773520E-03	-5.3980934E-04
32	1.1726410E-03	-5.0732920E-04
33	1.0744026E-03	-4.7511566E-04
34	9.8256503E-04	-4.4334838E-04
35	8.9702340E-04	-4.1218501E-04
36	8.1764210E-04	-3.8176200E-04
37	7.4426139E-04	-3.5219707E-04
38	6.7669941E-04	-3.2359000E-04
39	6.1475598E-04	-2.9602414E-04
40	5.5821604E-04	-2.6956827E-04
41	5.0685129E-04	-2.4427737E-04
42	4.6042369E-04	-2.2019377E-04
43	4.1869020E-04	-1.9734972E-04
44	3.8139998E-04	-1.7576582E-04
45	3.4829928E-04	-1.5545368E-04
46	3.1913347E-04	-1.3641698E-04
47	2.9364776E-04	-1.1865119E-04
48	2.7158914E-04	-1.0214325E-04
49	2.5270808E-04	-8.6872444E-05
50	2.3675963E-04	-7.2811131E-05
51	2.2350519E-04	-5.9926288E-05
52	2.1271310E-04	-4.8179991E-05
53	2.0415994E-04	-3.7530838E-05
54	1.9763061E-04	-2.7934020E-05
55	1.9291929E-04	-1.9342793E-05
56	1.8982967E-04	-1.1708984E-05
57	1.8817516E-04	-4.9833018E-06
58	1.8777913E-04	8.8416579E-07
59	1.8847495E-04	5.9434911E-06
60	1.9010598E-04	1.0244526E-05
61	1.9252549E-04	1.3836556E-05
62	1.9559655E-04	1.6767782E-05
63	1.9919168E-04	1.9085085E-05
64	2.0319269E-04	2.0834079E-05
65	2.0749124E-04	2.2072021E-05
66	2.1199194E-04	2.2866479E-05
67	2.1661249E-04	2.3280853E-05
68	2.2128265E-04	2.3374255E-05
69	2.2594421E-04	2.3201431E-05
70	2.3054881E-04	2.2812529E-05
71	2.3505786E-04	2.2253168E-05
72	2.3944147E-04	2.1564703E-05
73	2.4367761E-04	2.0784331E-05
74	2.4775129E-04	1.9945221E-05
75	2.5165374E-04	1.9076655E-05
76	2.5538169E-04	1.8204185E-05
77	2.5893660E-04	1.7349614E-05
78	2.6232394E-04	1.6531157E-05
79	2.6555247E-04	1.5763786E-05
80	2.6863366E-04	1.5059375E-05
81	2.7158102E-04	1.4426849E-05
82	2.7440959E-04	1.3872310E-05
83	2.7713537E-04	1.3399153E-05
84	2.7977473E-04	1.3008174E-05
85	2.8234411E-04	1.2697476E-05
86	2.8485891E-04	1.2462605E-05
87	2.8733375E-04	1.2296680E-05
88	2.8978156E-04	1.2190509E-05
89	2.9221317E-04	1.2132595E-05
90	2.9463690E-04	1.2109166E-05
91	2.9705807E-04	1.2104185E-05



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 123 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                          |
|          NewProject.BaseDesignSection_28.SLERara_3454          |
|          Exe Time :29 July 2019          17:58:39          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	1.831	-6.7290E-03	25.20	18.31	25.20	18.31	V-C	7276.	0.000	0.000	1.000	1.000
18.31	0.000	0.000	Stratol_2_8_L_0									
2 D	3.106	-6.5136E-03	19.29	15.53	19.29	15.53	V-C	7276.	-0.2000	0.000	1.000	1.000
15.53	0.000	0.000	Stratol_2_8_L_0									
3 D	3.291	-6.2983E-03	21.54	16.45	21.54	16.45	V-C	7276.	-0.4000	0.000	1.000	1.000
16.45	0.000	0.000	Stratol_2_8_L_0									
4 D	3.910	-6.0831E-03	28.56	19.55	28.56	19.55	V-C	7276.	-0.6000	0.000	1.000	1.000
19.55	0.000	0.000	Stratol_2_8_L_0									
5 D	4.114	-5.8680E-03	31.02	20.57	31.02	20.57	V-C	7276.	-0.8000	0.000	1.000	1.000
20.57	0.000	0.000	Stratol_2_8_L_0									
6 D	4.599	-5.6532E-03	36.58	23.00	36.58	23.00	V-C	7276.	-1.000	0.000	1.000	1.000
23.00	0.000	0.000	Stratol_2_8_L_0									
7 D	4.832	-5.4388E-03	39.36	24.16	39.36	24.16	V-C	7276.	-1.200	0.000	1.000	1.000
24.16	0.000	0.000	Stratol_2_8_L_0									
8 D	5.266	-5.2250E-03	44.36	26.33	44.36	26.33	V-C	7276.	-1.400	0.000	1.000	1.000
26.33	0.000	0.000	Stratol_2_8_L_0									
9 D	5.455	-5.0121E-03	46.68	27.28	46.68	27.28	V-C	7276.	-1.600	0.000	1.000	1.000
27.28	0.000	0.000	Stratol_2_8_L_0									
10 D	5.868	-4.8003E-03	51.47	29.34	51.47	29.34	V-C	7276.	-1.800	0.000	1.000	1.000
29.34	0.000	0.000	Stratol_2_8_L_0									
11 D	6.135	-4.5901E-03	54.65	30.67	54.65	30.67	V-C	7276.	-2.000	0.000	1.000	1.000
30.67	0.000	0.000	Stratol_2_8_L_0									
12 D	6.526	-4.3817E-03	59.24	32.63	59.24	32.63	V-C	7276.	-2.200	0.000	1.000	1.000
32.63	0.000	0.000	Stratol_2_8_L_0									
13 D	6.797	-4.1757E-03	62.51	33.98	62.51	33.98	V-C	7276.	-2.400	0.000	1.000	1.000
33.98	0.000	0.000	Stratol_2_8_L_0									
14 D	7.172	-3.9726E-03	66.96	35.86	66.96	35.86	V-C	7276.	-2.600	0.000	1.000	1.000
35.86	0.000	0.000	Stratol_2_8_L_0									
15 D	7.428	-3.7730E-03	70.29	37.14	70.29	37.14	UL-RL	2.1827E+04	-2.800	0.000	1.000	1.000
37.14	0.000	0.000	Stratol_2_8_L_0									
16 D	7.565	-3.5775E-03	74.27	37.82	74.27	37.82	UL-RL	2.1827E+04	-3.000	0.000	1.000	1.000
37.82	0.000	0.000	Stratol_2_8_L_0									
17 D	7.656	-3.3867E-03	77.68	38.28	77.68	38.28	UL-RL	2.1827E+04	-3.200	0.000	1.000	1.000
38.28	0.000	0.000	Stratol_2_8_L_0									
18 D	7.793	-3.2007E-03	81.99	38.97	81.99	38.97	UL-RL	2.1827E+04	-3.400	0.000	1.000	1.000
38.97	0.000	0.000	Stratol_2_8_L_0									
19 D	7.871	-3.0195E-03	85.43	39.35	85.43	39.35	UL-RL	2.1827E+04	-3.600	0.000	1.000	1.000
39.35	0.000	0.000	Stratol_2_8_L_0									
20 D	7.993	-2.8431E-03	89.67	39.96	89.67	39.96	UL-RL	2.1827E+04	-3.800	0.000	1.000	1.000
39.96	0.000	0.000	Stratol_2_8_L_0									
21 D	8.064	-2.6718E-03	93.15	40.32	93.15	40.32	UL-RL	2.1827E+04	-4.000	0.000	1.000	1.000
40.32	0.000	0.000	Stratol_2_8_L_0									
22 D	8.177	-2.5058E-03	97.35	40.89	97.35	40.89	UL-RL	2.1827E+04	-4.200	0.000	1.000	1.000
40.89	0.000	0.000	Stratol_2_8_L_0									
23 D	8.248	-2.3451E-03	100.8	41.24	100.8	41.24	UL-RL	2.1827E+04	-4.400	0.000	1.000	1.000
41.24	0.000	0.000	Stratol_2_8_L_0									
24 D	8.344	-2.1902E-03	104.8	41.72	104.8	41.72	UL-RL	2.1827E+04	-4.600	0.000	1.000	1.000
41.72	0.000	0.000	Stratol_2_8_L_0									
25 D	8.419	-2.0411E-03	108.3	42.09	108.3	42.09	UL-RL	2.1827E+04	-4.800	0.000	1.000	1.000
42.09	0.000	0.000	Stratol_2_8_L_0									
26 D	8.533	-1.8980E-03	112.4	42.67	112.4	42.67	UL-RL	2.1827E+04	-5.000	0.000	1.000	1.000
42.67	0.000	0.000	Stratol_2_8_L_0									
27 D	8.615	-1.7611E-03	116.0	43.07	116.0	43.07	UL-RL	2.1827E+04	-5.200	0.000	1.000	1.000
43.07	0.000	0.000	Stratol_2_8_L_0									
28 D	8.735	-1.6305E-03	120.1	43.68	120.1	43.68	UL-RL	2.1827E+04	-5.400	0.000	1.000	1.000
43.68	0.000	0.000	Stratol_2_8_L_0									
29 D	8.826	-1.5063E-03	123.7	44.13	123.7	44.13	UL-RL	2.1827E+04	-5.600	0.000	1.000	1.000
44.13	0.000	0.000	Stratol_2_8_L_0									
30 D	8.955	-1.3886E-03	127.7	44.77	127.7	44.77	UL-RL	2.1827E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



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Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 124 di 1221
44.77	0.000	0.000	Strato1_2_8_L_0				
31 D	9.045	-1.2774E-03	131.1 45.23	131.1	69.50	UL-RL 2.1827E+04	-6.000 0.000 1.000 1.000
45.23	0.000	0.000	Strato1_2_8_L_0				
32 D	9.212	-1.1726E-03	135.2 46.06	135.2	71.66	UL-RL 2.1827E+04	-6.200 0.000 1.000 1.000
46.06	0.000	0.000	Strato1_2_8_L_0				
33 D	10.02	-1.0744E-03	138.8 50.11	138.8	73.56	UL-RL 2.1827E+04	-6.400 0.000 1.000 1.000
50.11	0.000	0.000	Strato1_2_8_L_0				
34 D	10.85	-9.8257E-04	142.9 54.26	142.9	75.71	UL-RL 2.1827E+04	-6.600 0.000 1.000 1.000
54.26	0.000	0.000	Strato1_2_8_L_0				
35 D	11.61	-8.9702E-04	146.5 58.04	146.5	77.62	UL-RL 2.1827E+04	-6.800 0.000 1.000 1.000
58.04	0.000	0.000	Strato1_2_8_L_0				
36 D	12.38	-8.1764E-04	150.5 61.92	150.5	79.76	UL-RL 2.1827E+04	-7.000 0.000 1.000 1.000
61.92	0.000	0.000	Strato1_2_8_L_0				
37 D	13.09	-7.4426E-04	154.1 65.43	154.1	81.68	UL-RL 2.1827E+04	-7.200 0.000 1.000 1.000
65.43	0.000	0.000	Strato1_2_8_L_0				
38 D	13.81	-6.7670E-04	158.1 69.04	158.1	83.81	UL-RL 2.1827E+04	-7.400 0.000 1.000 1.000
69.04	0.000	0.000	Strato1_2_8_L_0				
39 D	14.45	-6.1476E-04	161.6 72.23	161.6	85.65	UL-RL 2.1827E+04	-7.600 0.000 1.000 1.000
72.23	0.000	0.000	Strato1_2_8_L_0				
40 D	15.12	-5.5822E-04	165.6 75.60	165.6	87.78	UL-RL 2.1827E+04	-7.800 0.000 1.000 1.000
75.60	0.000	0.000	Strato1_2_8_L_0				
41 D	15.73	-5.0685E-04	169.3 78.64	169.3	89.71	UL-RL 2.1827E+04	-8.000 0.000 1.000 1.000
78.64	0.000	0.000	Strato1_2_8_L_0				
42 D	16.36	-4.6042E-04	173.3 81.78	173.3	91.83	UL-RL 2.1827E+04	-8.200 0.000 1.000 1.000
81.78	0.000	0.000	Strato1_2_8_L_0				
43 D	16.92	-4.1869E-04	176.9 84.62	176.9	93.76	UL-RL 2.1827E+04	-8.400 0.000 1.000 1.000
84.62	0.000	0.000	Strato1_2_8_L_0				
44 D	17.51	-3.8140E-04	180.9 87.55	180.9	95.88	UL-RL 2.1827E+04	-8.600 0.000 1.000 1.000
87.55	0.000	0.000	Strato1_2_8_L_0				
45 D	18.04	-3.4830E-04	184.5 90.21	184.5	97.81	UL-RL 2.1827E+04	-8.800 0.000 1.000 1.000
90.21	0.000	0.000	Strato1_2_8_L_0				
46 D	18.58	-3.1913E-04	188.4 92.89	188.4	99.86	UL-RL 2.1827E+04	-9.000 0.000 1.000 1.000
92.89	0.000	0.000	Strato1_2_8_L_0				
47 D	19.08	-2.9365E-04	192.1 95.38	192.1	101.8	UL-RL 2.1827E+04	-9.200 0.000 1.000 1.000
95.38	0.000	0.000	Strato1_2_8_L_0				
48 D	19.59	-2.7159E-04	196.0 97.97	196.0	103.9	UL-RL 2.1827E+04	-9.400 0.000 1.000 1.000
97.97	0.000	0.000	Strato1_2_8_L_0				
49 D	20.07	-2.5271E-04	199.7 100.3	199.7	105.8	UL-RL 2.1827E+04	-9.600 0.000 1.000 1.000
100.3	0.000	0.000	Strato1_2_8_L_0				
50 D	20.56	-2.3676E-04	203.7 102.8	203.7	107.9	UL-RL 2.1827E+04	-9.800 0.000 1.000 1.000
102.8	0.000	0.000	Strato1_2_8_L_0				
51 D	21.00	-2.2351E-04	207.3 105.0	207.3	109.9	UL-RL 2.1827E+04	-10.00 0.000 1.000 1.000
105.0	0.000	0.000	Strato1_2_8_L_0				
52 D	21.47	-2.1271E-04	211.3 107.3	211.3	112.0	UL-RL 2.1827E+04	-10.20 0.000 1.000 1.000
107.3	0.000	0.000	Strato1_2_8_L_0				
53 D	21.90	-2.0416E-04	215.0 109.5	215.0	113.9	UL-RL 2.1827E+04	-10.40 0.000 1.000 1.000
109.5	0.000	0.000	Strato1_2_8_L_0				
54 D	22.33	-1.9763E-04	218.8 111.7	218.8	116.0	UL-RL 2.1827E+04	-10.60 0.000 1.000 1.000
111.7	0.000	0.000	Strato1_2_8_L_0				
55 D	22.74	-1.9292E-04	222.5 113.7	222.5	117.9	UL-RL 2.1827E+04	-10.80 0.000 1.000 1.000
113.7	0.000	0.000	Strato1_2_8_L_0				
56 D	23.18	-1.8983E-04	226.5 115.9	226.5	120.0	UL-RL 2.1827E+04	-11.00 0.000 1.000 1.000
115.9	0.000	0.000	Strato1_2_8_L_0				
57 D	23.57	-1.8818E-04	230.1 117.9	230.1	122.0	UL-RL 2.1827E+04	-11.20 0.000 1.000 1.000
117.9	0.000	0.000	Strato1_2_8_L_0				
58 D	23.99	-1.8778E-04	234.1 120.0	234.1	124.1	UL-RL 2.1827E+04	-11.40 0.000 1.000 1.000
120.0	0.000	0.000	Strato1_2_8_L_0				
59 D	24.38	-1.8847E-04	237.8 121.9	237.8	126.0	UL-RL 2.1827E+04	-11.60 0.000 1.000 1.000
121.9	0.000	0.000	Strato1_2_8_L_0				
60 D	24.79	-1.9011E-04	241.7 124.0	241.7	128.1	UL-RL 2.1827E+04	-11.80 0.000 1.000 1.000
124.0	0.000	0.000	Strato1_2_8_L_0				
61 D	25.16	-1.9253E-04	245.3 125.8	245.3	130.0	UL-RL 2.1827E+04	-12.00 0.000 1.000 1.000
125.8	0.000	0.000	Strato1_2_8_L_0				
62 D	25.57	-1.9560E-04	249.2 127.8	249.2	132.1	UL-RL 2.1827E+04	-12.20 0.000 1.000 1.000
127.8	0.000	0.000	Strato1_2_8_L_0				
63 D	25.94	-1.9919E-04	252.9 129.7	252.9	134.1	UL-RL 2.1827E+04	-12.40 0.000 1.000 1.000
129.7	0.000	0.000	Strato1_2_8_L_0				
64 D	23.18	-2.0319E-04	256.9 115.9	256.9	128.4	UL-RL 6.1746E+04	-12.60 0.000 1.000 1.000
115.9	0.000	0.000	Strato2_3095_82743_L_0				
65 D	23.51	-2.0749E-04	260.8 117.6	260.8	130.4	UL-RL 6.1746E+04	-12.80 0.000 1.000 1.000
117.6	0.000	0.000	Strato2_3095_82743_L_0				
66 D	23.87	-2.1199E-04	264.9 119.4	264.9	132.4	UL-RL 6.1746E+04	-13.00 0.000 1.000 1.000
119.4	0.000	0.000	Strato2_3095_82743_L_0				
67 D	24.20	-2.1661E-04	268.8 121.0	268.8	134.4	UL-RL 6.1746E+04	-13.20 0.000 1.000 1.000
121.0	0.000	0.000	Strato2_3095_82743_L_0				
68 D	24.56	-2.2128E-04	272.9 122.8	272.9	136.5	UL-RL 6.1746E+04	-13.40 0.000 1.000 1.000
122.8	0.000	0.000	Strato2_3095_82743_L_0				
69 D	24.88	-2.2594E-04	276.7 124.4	276.7	138.4	UL-RL 6.1746E+04	-13.60 0.000 1.000 1.000
124.4	0.000	0.000	Strato2_3095_82743_L_0				
70 D	25.24	-2.3055E-04	280.8 126.2	280.8	140.4	UL-RL 6.1746E+04	-13.80 0.000 1.000 1.000
126.2	0.000	0.000	Strato2_3095_82743_L_0				
71 D	25.57	-2.3506E-04	284.7 127.9	284.7	142.4	UL-RL 6.1746E+04	-14.00 0.000 1.000 1.000
127.9	0.000	0.000	Strato2_3095_82743_L_0				
72 D	25.93	-2.3944E-04	288.9 129.6	288.9	144.4	UL-RL 6.1746E+04	-14.20 0.000 1.000 1.000
129.6	0.000	0.000	Strato2_3095_82743_L_0				



Doc. N.

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Codifica Documento
E E2 CL GA 2701 002

Rev.
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126 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SLERara_3454                                                                                   |
|          Exe Time :29 July 2019          17:58:39                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
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	not available									
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
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	not available									
19 D	0.1155	3.0195E-03	1.900	0.5776	68.40	36.25	ACTIVE	0.000	-3.600	0.000	1.000	1.000
0.5776	0.000	0.000	Stratol_2_8_L_0									
20 D	2.844	2.8431E-03	5.700	14.22	72.20	38.27	UL-RL	1.5147E+04	-3.800	0.000	1.000	1.000
14.22	0.000	0.000	Stratol_2_8_L_0									
21 D	6.012	2.6718E-03	9.500	30.06	76.00	40.28	UL-RL	1.5147E+04	-4.000	0.000	1.000	1.000
30.06	0.000	0.000	Stratol_2_8_L_0									
22 D	9.182	2.5058E-03	13.30	45.91	79.80	53.75	UL-RL	1.5147E+04	-4.200	0.000	1.000	1.000
45.91	0.000	0.000	Stratol_2_8_L_0									
23 D	10.25	2.3451E-03	17.10	51.25	83.60	58.60	UL-RL	1.5147E+04	-4.400	0.000	1.000	1.000
51.25	0.000	0.000	Stratol_2_8_L_0									
24 D	10.56	2.1902E-03	20.90	52.81	87.40	59.66	UL-RL	1.5147E+04	-4.600	0.000	1.000	1.000
52.81	0.000	0.000	Stratol_2_8_L_0									
25 D	10.88	2.0411E-03	24.70	54.40	91.20	60.76	UL-RL	1.5147E+04	-4.800	0.000	1.000	1.000
54.40	0.000	0.000	Stratol_2_8_L_0									
26 D	11.20	1.8980E-03	28.50	56.01	95.00	61.90	UL-RL	1.5147E+04	-5.000	0.000	1.000	1.000
56.01	0.000	0.000	Stratol_2_8_L_0									
27 D	11.53	1.7611E-03	32.30	57.64	98.80	63.06	UL-RL	1.5147E+04	-5.200	0.000	1.000	1.000
57.64	0.000	0.000	Stratol_2_8_L_0									
28 D	11.86	1.6305E-03	36.10	59.29	102.6	64.27	UL-RL	1.5147E+04	-5.400	0.000	1.000	1.000
59.29	0.000	0.000	Stratol_2_8_L_0									
29 D	12.19	1.5063E-03	39.90	60.97	106.4	65.51	UL-RL	1.5147E+04	-5.600	0.000	1.000	1.000
60.97	0.000	0.000	Stratol_2_8_L_0									
30 D	12.53	1.3886E-03	43.70	62.67	110.2	66.79	UL-RL	1.5147E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 127 di 1221
62.67	0.000	0.000	Strato1_2_8_L_0		
31 D	12.88	1.2774E-03	47.50 64.39	114.0	68.11
64.39	0.000	0.000	Strato1_2_8_L_0		
32 D	13.23	1.1726E-03	51.30 66.13	117.8	69.47
66.13	0.000	0.000	Strato1_2_8_L_0		
33 D	13.58	1.0744E-03	55.10 67.88	121.6	70.87
67.88	0.000	0.000	Strato1_2_8_L_0		
34 D	13.93	9.8257E-04	58.90 69.66	125.4	72.30
69.66	0.000	0.000	Strato1_2_8_L_0		
35 D	14.29	8.9702E-04	62.70 71.45	129.2	73.78
71.45	0.000	0.000	Strato1_2_8_L_0		
36 D	14.65	8.1764E-04	66.50 73.27	133.0	75.29
73.27	0.000	0.000	Strato1_2_8_L_0		
37 D	15.02	7.4426E-04	70.30 75.09	136.8	76.85
75.09	0.000	0.000	Strato1_2_8_L_0		
38 D	15.39	6.7670E-04	74.10 76.94	140.6	78.43
76.94	0.000	0.000	Strato1_2_8_L_0		
39 D	15.76	6.1476E-04	77.90 78.80	144.4	80.06
78.80	0.000	0.000	Strato1_2_8_L_0		
40 D	16.13	5.5822E-04	81.70 80.67	148.2	81.71
80.67	0.000	0.000	Strato1_2_8_L_0		
41 D	16.51	5.0685E-04	85.50 82.56	152.0	83.40
82.56	0.000	0.000	Strato1_2_8_L_0		
42 D	16.89	4.6042E-04	89.30 84.46	155.8	85.12
84.46	0.000	0.000	Strato1_2_8_L_0		
43 D	17.27	4.1869E-04	93.10 86.37	159.6	86.87
86.37	0.000	0.000	Strato1_2_8_L_0		
44 D	17.66	3.8140E-04	96.90 88.29	163.4	88.65
88.29	0.000	0.000	Strato1_2_8_L_0		
45 D	18.05	3.4830E-04	100.7 90.23	167.2	90.45
90.23	0.000	0.000	Strato1_2_8_L_0		
46 D	18.38	3.1913E-04	104.5 91.91	171.0	92.41
91.91	0.000	0.000	Strato1_2_8_L_0		
47 D	18.72	2.9365E-04	108.3 93.61	174.8	94.38
93.61	0.000	0.000	Strato1_2_8_L_0		
48 D	19.07	2.7159E-04	112.1 95.36	178.6	96.36
95.36	0.000	0.000	Strato1_2_8_L_0		
49 D	19.43	2.5271E-04	115.9 97.15	182.4	98.35
97.15	0.000	0.000	Strato1_2_8_L_0		
50 D	19.80	2.3676E-04	119.7 98.98	186.2	100.3
98.98	0.000	0.000	Strato1_2_8_L_0		
51 D	20.17	2.2351E-04	123.5 100.8	190.0	102.3
100.8	0.000	0.000	Strato1_2_8_L_0		
52 D	20.55	2.1271E-04	127.3 102.7	193.8	104.3
102.7	0.000	0.000	Strato1_2_8_L_0		
53 D	20.93	2.0416E-04	131.1 104.7	197.6	106.3
104.7	0.000	0.000	Strato1_2_8_L_0		
54 D	21.33	1.9763E-04	134.9 106.6	201.4	108.3
106.6	0.000	0.000	Strato1_2_8_L_0		
55 D	21.72	1.9292E-04	138.7 108.6	205.2	110.3
108.6	0.000	0.000	Strato1_2_8_L_0		
56 D	22.12	1.8983E-04	142.5 110.6	209.0	112.3
110.6	0.000	0.000	Strato1_2_8_L_0		
57 D	22.52	1.8818E-04	146.3 112.6	212.8	114.3
112.6	0.000	0.000	Strato1_2_8_L_0		
58 D	22.93	1.8778E-04	150.1 114.7	216.6	116.3
114.7	0.000	0.000	Strato1_2_8_L_0		
59 D	23.34	1.8847E-04	153.9 116.7	220.4	118.3
116.7	0.000	0.000	Strato1_2_8_L_0		
60 D	23.75	1.9011E-04	157.7 118.8	224.2	120.3
118.8	0.000	0.000	Strato1_2_8_L_0		
61 D	24.17	1.9253E-04	161.5 120.8	228.0	122.3
120.8	0.000	0.000	Strato1_2_8_L_0		
62 D	24.58	1.9560E-04	165.3 122.9	231.8	124.3
122.9	0.000	0.000	Strato1_2_8_L_0		
63 D	25.00	1.9919E-04	169.1 125.0	235.6	126.3
125.0	0.000	0.000	Strato1_2_8_L_0		
64 D	21.71	2.0319E-04	172.9 108.5	239.4	119.7
108.5	0.000	0.000	Strato2_3095_82743_L_0		
65 D	22.14	2.0749E-04	176.9 110.7	243.4	121.7
110.7	0.000	0.000	Strato2_3095_82743_L_0		
66 D	22.57	2.1199E-04	180.9 112.9	247.4	123.7
112.9	0.000	0.000	Strato2_3095_82743_L_0		
67 D	23.01	2.1661E-04	184.9 115.0	251.4	125.7
115.0	0.000	0.000	Strato2_3095_82743_L_0		
68 D	23.45	2.2128E-04	188.9 117.2	255.4	127.7
117.2	0.000	0.000	Strato2_3095_82743_L_0		
69 D	23.88	2.2594E-04	192.9 119.4	259.4	129.7
119.4	0.000	0.000	Strato2_3095_82743_L_0		
70 D	24.32	2.3055E-04	196.9 121.6	263.4	131.7
121.6	0.000	0.000	Strato2_3095_82743_L_0		
71 D	24.75	2.3506E-04	200.9 123.8	267.4	133.7
123.8	0.000	0.000	Strato2_3095_82743_L_0		
72 D	25.18	2.3944E-04	204.9 125.9	271.4	135.7
125.9	0.000	0.000	Strato2_3095_82743_L_0		

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 128 di 1221
73 D	25.62	2.4368E-04	208.9	128.1	275.4
128.1	0.000	0.000	Strato2_3095_82743_L_0		
74 D	26.05	2.4775E-04	212.9	130.2	279.4
130.2	0.000	0.000	Strato2_3095_82743_L_0		
75 D	26.48	2.5165E-04	216.9	132.4	283.4
132.4	0.000	0.000	Strato2_3095_82743_L_0		
76 D	26.91	2.5538E-04	220.9	134.5	287.4
134.5	0.000	0.000	Strato2_3095_82743_L_0		
77 D	27.33	2.5894E-04	224.9	136.7	291.4
136.7	0.000	0.000	Strato2_3095_82743_L_0		
78 D	27.76	2.6232E-04	228.9	138.8	295.4
138.8	0.000	0.000	Strato2_3095_82743_L_0		
79 D	28.18	2.6555E-04	232.9	140.9	299.4
140.9	0.000	0.000	Strato2_3095_82743_L_0		
80 D	28.61	2.6863E-04	236.9	143.0	303.4
143.0	0.000	0.000	Strato2_3095_82743_L_0		
81 D	29.03	2.7158E-04	240.9	145.2	307.4
145.2	0.000	0.000	Strato2_3095_82743_L_0		
82 D	29.45	2.7441E-04	244.9	147.3	311.4
147.3	0.000	0.000	Strato2_3095_82743_L_0		
83 D	29.87	2.7714E-04	248.9	149.4	315.4
149.4	0.000	0.000	Strato2_3095_82743_L_0		
84 D	30.29	2.7977E-04	252.9	151.5	319.4
151.5	0.000	0.000	Strato2_3095_82743_L_0		
85 D	30.71	2.8234E-04	256.9	153.6	323.4
153.6	0.000	0.000	Strato2_3095_82743_L_0		
86 D	31.13	2.8486E-04	260.9	155.7	327.4
155.7	0.000	0.000	Strato2_3095_82743_L_0		
87 D	31.55	2.8733E-04	264.9	157.8	331.4
157.8	0.000	0.000	Strato2_3095_82743_L_0		
88 D	31.97	2.8978E-04	268.9	159.9	335.4
159.9	0.000	0.000	Strato2_3095_82743_L_0		
89 D	32.39	2.9221E-04	272.9	161.9	339.4
161.9	0.000	0.000	Strato2_3095_82743_L_0		
90 D	32.81	2.9464E-04	276.9	164.0	343.4
164.0	0.000	0.000	Strato2_3095_82743_L_0		
91 D	16.61	2.9706E-04	280.9	166.1	347.4
166.1	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  17:58:39  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

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WallElement_33      :
ELEMENT TYPE      2 NO.OF ELEMENTS. IN THIS GROUP    90
CURRENT TIME IS   3.0000

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.8313	-1.8313	-3.92009E-11	0.36626
2	4.9373	-4.9373	-0.36626	1.3537
3	8.2282	-8.2282	-1.3537	2.9994
4	12.138	-12.138	-2.9994	5.4270
5	16.252	-16.252	-5.4270	8.6775
6	20.852	-20.852	-8.6775	12.848
7	25.684	-25.684	-12.848	17.985
8	30.950	-30.950	-17.985	24.174
9	36.405	-36.405	-24.174	31.455
10	42.273	-42.273	-31.455	39.910
11	48.408	-48.408	-39.910	49.592
12	54.934	-54.934	-49.592	60.578
13	61.731	-61.731	-60.578	72.925
14	68.903	-68.903	-72.925	86.705
15	76.330	-76.330	-86.705	101.97
16	-6.8443	6.8443	-101.97	100.60
17	0.81165	-0.81165	-100.60	100.76
18	8.6049	-8.6049	-100.76	102.49
19	16.360	-16.360	-102.49	105.76
20	21.509	-21.509	-105.76	110.06
21	23.561	-23.561	-110.06	114.77
22	22.557	-22.557	-114.77	119.28
23	20.554	-20.554	-119.28	123.39
24	18.336	-18.336	-123.39	127.06

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 129 di 1221
25	15.875	-15.875	-127.06	130.24	
26	13.207	-13.207	-130.24	132.88	
27	10.294	-10.294	-132.88	134.94	
28	7.1707	-7.1707	-134.94	136.37	
29	3.8028	-3.8028	-136.37	137.13	
30	0.22350	-0.22350	-137.13	137.18	
31	-3.6086	3.6086	-137.18	136.45	
32	-7.6215	7.6215	-136.45	134.93	
33	-11.176	11.176	-134.93	132.69	
34	-14.255	14.255	-132.69	129.84	
35	-16.938	16.938	-129.84	126.46	
36	-19.207	19.207	-126.46	122.61	
37	-21.140	21.140	-122.61	118.39	
38	-22.719	22.719	-118.39	113.84	
39	-24.031	24.031	-113.84	109.04	
40	-25.046	25.046	-109.04	104.03	
41	-25.828	25.828	-104.03	98.861	
42	-26.364	26.364	-98.861	93.589	
43	-26.713	26.713	-93.589	88.246	
44	-26.861	26.861	-88.246	82.874	
45	-26.864	26.864	-82.874	77.501	
46	-26.669	26.669	-77.501	72.167	
47	-26.315	26.315	-72.167	66.904	
48	-25.793	25.793	-66.904	61.746	
49	-25.158	25.158	-61.746	56.714	
50	-24.398	24.398	-56.714	51.834	
51	-23.565	23.565	-51.834	47.121	
52	-22.644	22.644	-47.121	42.593	
53	-21.683	21.683	-42.593	38.256	
54	-20.675	20.675	-38.256	34.121	
55	-19.654	19.654	-34.121	30.190	
56	-18.599	18.599	-30.190	26.470	
57	-17.551	17.551	-26.470	22.960	
58	-16.490	16.490	-22.960	19.662	
59	-15.451	15.451	-19.662	16.572	
60	-14.414	14.414	-16.572	13.689	
61	-13.421	13.421	-13.689	11.005	
62	-12.439	12.439	-11.005	8.5171	
63	-11.499	11.499	-8.5171	6.2173	
64	-10.027	10.027	-6.2173	4.2118	
65	-8.6533	8.6533	-4.2118	2.4811	
66	-7.3568	7.3568	-2.4811	1.0098	
67	-6.1635	6.1635	-1.0098	-0.22286	
68	-5.0512	5.0512	0.22286	-1.2331	
69	-4.0505	4.0505	1.2331	-2.0432	
70	-3.1297	3.1297	2.0432	-2.6691	
71	-2.3085	2.3085	2.6691	-3.1308	
72	-1.5629	1.5629	3.1308	-3.4434	
73	-0.91129	0.91129	3.4434	-3.6257	
74	-0.32952	0.32952	3.6257	-3.6916	
75	0.16513	-0.16513	3.6916	-3.6586	
76	0.58878	-0.58878	3.6586	-3.5408	
77	0.93249	-0.93249	3.5408	-3.3543	
78	1.2193	-1.2193	3.3543	-3.1104	
79	1.4328	-1.4328	3.1104	-2.8239	
80	1.5951	-1.5951	2.8239	-2.5048	
81	1.6899	-1.6899	2.5048	-2.1669	
82	1.7382	-1.7382	2.1669	-1.8192	
83	1.7234	-1.7234	1.8192	-1.4746	
84	1.6588	-1.6588	1.4746	-1.1428	
85	1.5345	-1.5345	1.1428	-0.83588	
86	1.3697	-1.3697	0.83588	-0.56195	
87	1.1473	-1.1473	0.56195	-0.33249	
88	0.88544	-0.88544	0.33249	-0.15540	
89	0.56719	-0.56719	0.15540	-4.19670E-02	
90	0.20984	-0.20984	4.19670E-02	5.16356E-12	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
130 di 1221

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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  17:58:39  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

```

Tirante1_429      :
ELEMENT TYPE     6 NO.OF ELEMENTS. IN THIS GROUP  1
CURRENT TIME IS  3.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	93.940	-6.74572E-04	-6.74572E-04	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  17:58:39  |
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New Project

STRESS RESULTS FOR GROUP NO. 5

```

Tirante2_1507    :
ELEMENT TYPE     6 NO.OF ELEMENTS. IN THIS GROUP  1
CURRENT TIME IS  3.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****								

```

ITER  0  RNORM = 0.000  RMNORM= 0.000
        RINORM=0.1491E+06 RIMNOR=0.9513E+06
        RENORM= 6283.  REMNOR=0.3358E-19 RATIO =0.2053  TOLER =0.1000E-03  NOT CONVERGED
        RFMAX = 90.74  RMMAX = 137.2
        RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
        RDT =0.1491E+06 RDR =0.9513E+06
        RATIOT=0.2053  RATIOR= 0.000
        MAX UN= 17.66  IEQ=  87 NODE  44 DOF  1  Y-DISPL.F
        MIN UN=-.1386E-08 IEQ=  19 NODE  10 DOF  1  Y-DISPL.F
        NO. OF CONTACT CONSTRAINT VIOLATIONS  0

```

```

ITER  2  RNORM = 0.000  RMNORM= 0.000
        RINORM=0.1491E+06 RIMNOR=0.9513E+06
        RENORM= 560.7  REMNOR=0.5341E-18 RATIO =0.6133E-01 TOLER =0.1000E-03  NOT CONVERGED
        RFMAX = 90.74  RMMAX = 137.2
        RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
        RDT =0.1491E+06 RDR =0.9513E+06
        RATIOT=0.6133E-01 RATIOR= 0.000
        MAX UN= 6.514  IEQ=  63 NODE  32 DOF  1  Y-DISPL.F
        MIN UN=-.9669E-09 IEQ=  7 NODE  4 DOF  1  Y-DISPL.F
        NO. OF CONTACT CONSTRAINT VIOLATIONS  0

```

```

ITER  3  RNORM = 0.000  RMNORM= 0.000
        RINORM=0.1491E+06 RIMNOR=0.9513E+06
        RENORM= 320.0  REMNOR=0.1165E-17 RATIO =0.4633E-01 TOLER =0.1000E-03  NOT CONVERGED
        RFMAX = 90.74  RMMAX = 137.2
        RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
        RDT =0.1491E+06 RDR =0.9513E+06
        RATIOT=0.4633E-01 RATIOR= 0.000
        MAX UN= 6.925  IEQ=  13 NODE  7 DOF  1  Y-DISPL.F
        MIN UN=-.6976E-08 IEQ=  47 NODE  24 DOF  1  Y-DISPL.F
        NO. OF CONTACT CONSTRAINT VIOLATIONS  0

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
131 di 1221

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1491E+06 RIMNOR=0.9513E+06
            RENORM= 39.14      REMNOR=0.3555E-17 RATIO =0.1620E-01 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 90.74      RMMAX = 137.2
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT  =0.1491E+06 RDR  =0.9513E+06
            RATIO=0.1620E-01 RATIO= 0.000
            MAX UN= 4.244      IEQ= 105 NODE      53 DOF      1 Y-DISPL.F
            MIN UN=-.1002E-07 IEQ= 9 NODE        5 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

```

```

ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1491E+06 RIMNOR=0.9513E+06
            RENORM=0.7543      REMNOR=0.1230E-17 RATIO =0.2249E-02 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 90.74      RMMAX = 137.2
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT  =0.1491E+06 RDR  =0.9513E+06
            RATIO=0.2249E-02 RATIO= 0.000
            MAX UN=0.8323      IEQ= 129 NODE      65 DOF      1 Y-DISPL.F
            MIN UN=-.8664E-01 IEQ= 181 NODE      91 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

```

```

ITER      6  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1491E+06 RIMNOR=0.9513E+06
            RENORM=0.2987E-15 REMNOR=0.9245E-18 RATIO =0.4476E-10 TOLER =0.1000E-03 CONVERGED !
            RFMAX = 90.74      RMMAX = 137.2
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT  =0.1491E+06 RDR  =0.9513E+06
            RATIO=0.4476E-10 RATIO= 0.000
            MAX UN=0.5435E-08 IEQ= 67 NODE      34 DOF      1 Y-DISPL.F
            MIN UN=-.6455E-08 IEQ= 69 NODE      35 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      17:58:39  |
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New Project
SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 4 (AT TIME 4.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)
1	3.1751438E-02	-2.1199777E-03
2	3.1327444E-02	-2.1199595E-03
3	3.0903459E-02	-2.1198771E-03
4	3.0479501E-02	-2.1196715E-03
5	3.0055603E-02	-2.1192705E-03
6	2.9631812E-02	-2.1185880E-03
7	2.9208193E-02	-2.1175264E-03
8	2.8784834E-02	-2.1159761E-03
9	2.8361843E-02	-2.1138164E-03
10	2.7939357E-02	-2.1109157E-03
11	2.7517536E-02	-2.1071325E-03
12	2.7096573E-02	-2.1023135E-03
13	2.6676690E-02	-2.0962944E-03
14	2.6258147E-02	-2.0888995E-03
15	2.5841235E-02	-2.0799418E-03
16	2.5426287E-02	-2.0692233E-03
17	2.5013448E-02	-2.0599638E-03
18	2.4601991E-02	-2.0553727E-03
19	2.4191003E-02	-2.0552193E-03
20	2.3779623E-02	-2.0592622E-03
21	2.3367036E-02	-2.0672485E-03
22	2.2952478E-02	-2.0789143E-03
23	2.2535243E-02	-2.0939848E-03
24	2.2114679E-02	-2.1121736E-03
25	2.1690187E-02	-2.1331843E-03
26	2.1261237E-02	-2.1567093E-03
27	2.0827357E-02	-2.1824299E-03
28	2.0388141E-02	-2.2100164E-03
29	1.9943251E-02	-2.2391281E-03
30	1.9492414E-02	-2.2694133E-03
31	1.9035432E-02	-2.3005091E-03

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



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GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 132 di 1221
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32	1.8572181E-02	-2.3320418E-03
33	1.8102612E-02	-2.3636269E-03
34	1.7626753E-02	-2.3948691E-03
35	1.7144716E-02	-2.4253616E-03
36	1.6656689E-02	-2.4546871E-03
37	1.6162948E-02	-2.4824169E-03
38	1.5663858E-02	-2.5081112E-03
39	1.5159869E-02	-2.5313195E-03
40	1.4651529E-02	-2.5515800E-03
41	1.4139468E-02	-2.5684207E-03
42	1.3624410E-02	-2.5813583E-03
43	1.3107207E-02	-2.5898978E-03
44	1.2588781E-02	-2.5935341E-03
45	1.2070158E-02	-2.5917508E-03
46	1.1552475E-02	-2.5840569E-03
47	1.1036955E-02	-2.5700598E-03
48	1.0524888E-02	-2.5495020E-03
49	1.0017602E-02	-2.5222608E-03
50	9.5164310E-03	-2.4883482E-03
51	9.0226981E-03	-2.4479111E-03
52	8.5376779E-03	-2.4012306E-03
53	8.0625894E-03	-2.3487242E-03
54	7.5985427E-03	-2.2909008E-03
55	7.1465478E-03	-2.2282953E-03
56	6.7075078E-03	-2.1614416E-03
57	6.2822189E-03	-2.0908730E-03
58	5.8713707E-03	-2.0171227E-03
59	5.4755464E-03	-1.9407238E-03
60	5.0952232E-03	-1.8621946E-03
61	4.7307783E-03	-1.7820189E-03
62	4.3824957E-03	-1.7006428E-03
63	4.0505739E-03	-1.6184762E-03
64	3.7351328E-03	-1.5358947E-03
65	3.4362066E-03	-1.4534537E-03
66	3.1536925E-03	-1.3718966E-03
67	2.8873418E-03	-1.2919317E-03
68	2.6367834E-03	-1.2141979E-03
69	2.4014907E-03	-1.1392338E-03
70	2.1808741E-03	-1.0675067E-03
71	1.9742465E-03	-9.9940219E-04
72	1.7808509E-03	-9.3523281E-04
73	1.5998747E-03	-8.7524309E-04
74	1.4304629E-03	-8.1961379E-04
75	1.2717304E-03	-7.6846623E-04
76	1.1227733E-03	-7.2186605E-04
77	9.8267990E-04	-6.7982698E-04
78	8.5054074E-04	-6.4231407E-04
79	7.2545792E-04	-6.0924636E-04
80	6.0655415E-04	-5.8049945E-04
81	4.9298113E-04	-5.5590780E-04
82	3.8392766E-04	-5.3526664E-04
83	2.7862726E-04	-5.1833368E-04
84	1.7636554E-04	-5.0483047E-04
85	7.6482365E-05	-4.9444324E-04
86	-2.1601415E-05	-4.8682576E-04
87	-1.1840717E-04	-4.8159673E-04
88	-2.1437176E-04	-4.7834246E-04
89	-3.0984605E-04	-4.7661665E-04
90	-4.0508840E-04	-4.7594056E-04
91	-5.0025818E-04	-4.7580311E-04



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 133 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      17:58:39          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.7661	-3.1751E-02	25.20	7.661	25.20	18.31	ACTIVE	0.000	0.000	0.000	1.000	1.000
7.661	0.000	0.000	Stratol_2_8_L_0									
2 D	1.173	-3.1327E-02	19.29	5.865	19.29	15.53	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
5.865	0.000	0.000	Stratol_2_8_L_0									
3 D	1.310	-3.0903E-02	21.54	6.548	21.54	16.45	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
6.548	0.000	0.000	Stratol_2_8_L_0									
4 D	1.737	-3.0480E-02	28.56	8.683	28.56	19.55	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
8.683	0.000	0.000	Stratol_2_8_L_0									
5 D	1.886	-3.0056E-02	31.02	9.431	31.02	20.57	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
9.431	0.000	0.000	Stratol_2_8_L_0									
6 D	2.224	-2.9632E-02	36.58	11.12	36.58	23.00	ACTIVE	0.000	-1.000	0.000	1.000	1.000
11.12	0.000	0.000	Stratol_2_8_L_0									
7 D	2.393	-2.9208E-02	39.36	11.96	39.36	24.16	ACTIVE	0.000	-1.200	0.000	1.000	1.000
11.96	0.000	0.000	Stratol_2_8_L_0									
8 D	2.697	-2.8785E-02	44.36	13.49	44.36	26.33	ACTIVE	0.000	-1.400	0.000	1.000	1.000
13.49	0.000	0.000	Stratol_2_8_L_0									
9 D	2.838	-2.8362E-02	46.68	14.19	46.68	27.28	ACTIVE	0.000	-1.600	0.000	1.000	1.000
14.19	0.000	0.000	Stratol_2_8_L_0									
10 D	3.129	-2.7939E-02	51.47	15.65	51.47	29.34	ACTIVE	0.000	-1.800	0.000	1.000	1.000
15.65	0.000	0.000	Stratol_2_8_L_0									
11 D	3.323	-2.7518E-02	54.65	16.61	54.65	30.67	ACTIVE	0.000	-2.000	0.000	1.000	1.000
16.61	0.000	0.000	Stratol_2_8_L_0									
12 D	3.602	-2.7097E-02	59.24	18.01	59.24	32.63	ACTIVE	0.000	-2.200	0.000	1.000	1.000
18.01	0.000	0.000	Stratol_2_8_L_0									
13 D	3.800	-2.6677E-02	62.51	19.00	62.51	33.98	ACTIVE	0.000	-2.400	0.000	1.000	1.000
19.00	0.000	0.000	Stratol_2_8_L_0									
14 D	4.071	-2.6258E-02	66.96	20.36	66.96	35.86	ACTIVE	0.000	-2.600	0.000	1.000	1.000
20.36	0.000	0.000	Stratol_2_8_L_0									
15 D	4.274	-2.5841E-02	70.29	21.37	70.29	37.25	ACTIVE	0.000	-2.800	0.000	1.000	1.000
21.37	0.000	0.000	Stratol_2_8_L_0									
16 D	4.516	-2.5426E-02	74.27	22.58	74.27	39.37	ACTIVE	0.000	-3.000	0.000	1.000	1.000
22.58	0.000	0.000	Stratol_2_8_L_0									
17 D	4.723	-2.5013E-02	77.68	23.61	77.68	41.17	ACTIVE	0.000	-3.200	0.000	1.000	1.000
23.61	0.000	0.000	Stratol_2_8_L_0									
18 D	4.985	-2.4602E-02	81.99	24.92	81.99	43.45	ACTIVE	0.000	-3.400	0.000	1.000	1.000
24.92	0.000	0.000	Stratol_2_8_L_0									
19 D	5.194	-2.4191E-02	85.43	25.97	85.43	45.28	ACTIVE	0.000	-3.600	0.000	1.000	1.000
25.97	0.000	0.000	Stratol_2_8_L_0									
20 D	5.452	-2.3780E-02	89.67	27.26	89.67	47.53	ACTIVE	0.000	-3.800	0.000	1.000	1.000
27.26	0.000	0.000	Stratol_2_8_L_0									
21 D	5.663	-2.3367E-02	93.15	28.32	93.15	49.37	ACTIVE	0.000	-4.000	0.000	1.000	1.000
28.32	0.000	0.000	Stratol_2_8_L_0									
22 D	5.919	-2.2952E-02	97.35	29.59	97.35	51.59	ACTIVE	0.000	-4.200	0.000	1.000	1.000
29.59	0.000	0.000	Stratol_2_8_L_0									
23 D	6.131	-2.2535E-02	100.8	30.66	100.8	53.45	ACTIVE	0.000	-4.400	0.000	1.000	1.000
30.66	0.000	0.000	Stratol_2_8_L_0									
24 D	6.369	-2.2115E-02	104.8	31.85	104.8	55.52	ACTIVE	0.000	-4.600	0.000	1.000	1.000
31.85	0.000	0.000	Stratol_2_8_L_0									
25 D	6.584	-2.1690E-02	108.3	32.92	108.3	57.39	ACTIVE	0.000	-4.800	0.000	1.000	1.000
32.92	0.000	0.000	Stratol_2_8_L_0									
26 D	6.836	-2.1261E-02	112.4	34.18	112.4	59.59	ACTIVE	0.000	-5.000	0.000	1.000	1.000
34.18	0.000	0.000	Stratol_2_8_L_0									
27 D	7.051	-2.0827E-02	116.0	35.26	116.0	61.47	ACTIVE	0.000	-5.200	0.000	1.000	1.000
35.26	0.000	0.000	Stratol_2_8_L_0									
28 D	7.301	-2.0388E-02	120.1	36.51	120.1	63.65	ACTIVE	0.000	-5.400	0.000	1.000	1.000
36.51	0.000	0.000	Stratol_2_8_L_0									
29 D	7.518	-1.9943E-02	123.7	37.59	123.7	65.53	ACTIVE	0.000	-5.600	0.000	1.000	1.000
37.59	0.000	0.000	Stratol_2_8_L_0									
30 D	7.767	-1.9492E-02	127.7	38.83	127.7	67.70	ACTIVE	0.000	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR

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Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 134 di 1221
38.83	0.000	0.000	Strato1_2_8_L_0				
31 D	7.972	-1.9035E-02	131.1	39.86	131.1	69.50	ACTIVE 0.000 -6.000 0.000 1.000 1.000
39.86	0.000	0.000	Strato1_2_8_L_0				
32 D	8.220	-1.8572E-02	135.2	41.10	135.2	71.66	ACTIVE 0.000 -6.200 0.000 1.000 1.000
41.10	0.000	0.000	Strato1_2_8_L_0				
33 D	8.439	-1.8103E-02	138.8	42.19	138.8	73.56	ACTIVE 0.000 -6.400 0.000 1.000 1.000
42.19	0.000	0.000	Strato1_2_8_L_0				
34 D	8.685	-1.7627E-02	142.9	43.43	142.9	75.71	ACTIVE 0.000 -6.600 0.000 1.000 1.000
43.43	0.000	0.000	Strato1_2_8_L_0				
35 D	8.905	-1.7145E-02	146.5	44.52	146.5	77.62	ACTIVE 0.000 -6.800 0.000 1.000 1.000
44.52	0.000	0.000	Strato1_2_8_L_0				
36 D	9.150	-1.6657E-02	150.5	45.75	150.5	79.76	ACTIVE 0.000 -7.000 0.000 1.000 1.000
45.75	0.000	0.000	Strato1_2_8_L_0				
37 D	9.370	-1.6163E-02	154.1	46.85	154.1	81.68	ACTIVE 0.000 -7.200 0.000 1.000 1.000
46.85	0.000	0.000	Strato1_2_8_L_0				
38 D	9.615	-1.5664E-02	158.1	48.07	158.1	83.81	ACTIVE 0.000 -7.400 0.000 1.000 1.000
48.07	0.000	0.000	Strato1_2_8_L_0				
39 D	9.826	-1.5160E-02	161.6	49.13	161.6	85.65	ACTIVE 0.000 -7.600 0.000 1.000 1.000
49.13	0.000	0.000	Strato1_2_8_L_0				
40 D	10.07	-1.4652E-02	165.6	50.35	165.6	87.78	ACTIVE 0.000 -7.800 0.000 1.000 1.000
50.35	0.000	0.000	Strato1_2_8_L_0				
41 D	10.29	-1.4139E-02	169.3	51.45	169.3	89.71	ACTIVE 0.000 -8.000 0.000 1.000 1.000
51.45	0.000	0.000	Strato1_2_8_L_0				
42 D	10.53	-1.3624E-02	173.3	52.67	173.3	91.83	ACTIVE 0.000 -8.200 0.000 1.000 1.000
52.67	0.000	0.000	Strato1_2_8_L_0				
43 D	10.76	-1.3107E-02	176.9	53.78	176.9	93.76	ACTIVE 0.000 -8.400 0.000 1.000 1.000
53.78	0.000	0.000	Strato1_2_8_L_0				
44 D	11.00	-1.2589E-02	180.9	54.99	180.9	95.88	ACTIVE 0.000 -8.600 0.000 1.000 1.000
54.99	0.000	0.000	Strato1_2_8_L_0				
45 D	11.22	-1.2070E-02	184.5	56.10	184.5	97.81	ACTIVE 0.000 -8.800 0.000 1.000 1.000
56.10	0.000	0.000	Strato1_2_8_L_0				
46 D	11.46	-1.1552E-02	188.4	57.28	188.4	99.86	ACTIVE 0.000 -9.000 0.000 1.000 1.000
57.28	0.000	0.000	Strato1_2_8_L_0				
47 D	11.68	-1.1037E-02	192.1	58.39	192.1	101.8	ACTIVE 0.000 -9.200 0.000 1.000 1.000
58.39	0.000	0.000	Strato1_2_8_L_0				
48 D	11.92	-1.0525E-02	196.0	59.60	196.0	103.9	ACTIVE 0.000 -9.400 0.000 1.000 1.000
59.60	0.000	0.000	Strato1_2_8_L_0				
49 D	12.14	-1.0018E-02	199.7	60.71	199.7	105.8	ACTIVE 0.000 -9.600 0.000 1.000 1.000
60.71	0.000	0.000	Strato1_2_8_L_0				
50 D	12.38	-9.5164E-03	203.7	61.92	203.7	107.9	ACTIVE 0.000 -9.800 0.000 1.000 1.000
61.92	0.000	0.000	Strato1_2_8_L_0				
51 D	12.61	-9.0227E-03	207.3	63.03	207.3	109.9	ACTIVE 0.000 -10.00 0.000 1.000 1.000
63.03	0.000	0.000	Strato1_2_8_L_0				
52 D	12.85	-8.5377E-03	211.3	64.24	211.3	112.0	ACTIVE 0.000 -10.20 0.000 1.000 1.000
64.24	0.000	0.000	Strato1_2_8_L_0				
53 D	13.07	-8.0626E-03	215.0	65.35	215.0	113.9	ACTIVE 0.000 -10.40 0.000 1.000 1.000
65.35	0.000	0.000	Strato1_2_8_L_0				
54 D	13.30	-7.5985E-03	218.8	66.52	218.8	116.0	ACTIVE 0.000 -10.60 0.000 1.000 1.000
66.52	0.000	0.000	Strato1_2_8_L_0				
55 D	13.53	-7.1465E-03	222.5	67.64	222.5	117.9	ACTIVE 0.000 -10.80 0.000 1.000 1.000
67.64	0.000	0.000	Strato1_2_8_L_0				
56 D	13.77	-6.7075E-03	226.5	68.84	226.5	120.0	ACTIVE 0.000 -11.00 0.000 1.000 1.000
68.84	0.000	0.000	Strato1_2_8_L_0				
57 D	13.99	-6.2822E-03	230.1	69.96	230.1	122.0	ACTIVE 0.000 -11.20 0.000 1.000 1.000
69.96	0.000	0.000	Strato1_2_8_L_0				
58 D	14.23	-5.8714E-03	234.1	71.16	234.1	124.1	ACTIVE 0.000 -11.40 0.000 1.000 1.000
71.16	0.000	0.000	Strato1_2_8_L_0				
59 D	15.10	-5.4755E-03	237.8	75.48	237.8	126.0	UL-RL 8781. -11.60 0.000 1.000 1.000
75.48	0.000	0.000	Strato1_2_8_L_0				
60 D	16.18	-5.0952E-03	241.7	80.88	241.7	128.1	UL-RL 8781. -11.80 0.000 1.000 1.000
80.88	0.000	0.000	Strato1_2_8_L_0				
61 D	17.19	-4.7308E-03	245.3	85.95	245.3	130.0	UL-RL 8781. -12.00 0.000 1.000 1.000
85.95	0.000	0.000	Strato1_2_8_L_0				
62 D	18.21	-4.3825E-03	249.2	91.06	249.2	132.1	UL-RL 8781. -12.20 0.000 1.000 1.000
91.06	0.000	0.000	Strato1_2_8_L_0				
63 D	19.18	-4.0506E-03	252.9	95.88	252.9	134.1	UL-RL 8781. -12.40 0.000 1.000 1.000
95.88	0.000	0.000	Strato1_2_8_L_0				
64 D	8.194	-3.7351E-03	256.9	40.97	256.9	128.4	ACTIVE 0.000 -12.60 0.000 1.000 1.000
40.97	0.000	0.000	Strato2_3095_82743_L_0				
65 D	8.377	-3.4362E-03	260.8	41.89	260.8	130.4	ACTIVE 0.000 -12.80 0.000 1.000 1.000
41.89	0.000	0.000	Strato2_3095_82743_L_0				
66 D	9.256	-3.1537E-03	264.9	46.28	264.9	132.4	UL-RL 2.4840E+04 -13.00 0.000 1.000 1.000
46.28	0.000	0.000	Strato2_3095_82743_L_0				
67 D	10.93	-2.8873E-03	268.8	54.67	268.8	134.4	UL-RL 2.4840E+04 -13.20 0.000 1.000 1.000
54.67	0.000	0.000	Strato2_3095_82743_L_0				
68 D	12.56	-2.6368E-03	272.9	62.79	272.9	136.5	UL-RL 2.4840E+04 -13.40 0.000 1.000 1.000
62.79	0.000	0.000	Strato2_3095_82743_L_0				
69 D	14.07	-2.4015E-03	276.7	70.37	276.7	138.4	UL-RL 2.4840E+04 -13.60 0.000 1.000 1.000
70.37	0.000	0.000	Strato2_3095_82743_L_0				
70 D	15.55	-2.1809E-03	280.8	77.74	280.8	140.4	UL-RL 2.4840E+04 -13.80 0.000 1.000 1.000
77.74	0.000	0.000	Strato2_3095_82743_L_0				
71 D	16.93	-1.9742E-03	284.7	84.66	284.7	142.4	UL-RL 2.4840E+04 -14.00 0.000 1.000 1.000
84.66	0.000	0.000	Strato2_3095_82743_L_0				
72 D	18.27	-1.7809E-03	288.9	91.36	288.9	144.4	UL-RL 2.4840E+04 -14.20 0.000 1.000 1.000
91.36	0.000	0.000	Strato2_3095_82743_L_0				



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 136 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                     |
|          NewProject.BaseDesignSection_28.SLERara_3454          |
|          Exe Time :29 July 2019          17:58:39          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.2000	0.000	1.000	1.000
2	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.6000	0.000	1.000	1.000
3	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.000	0.000	1.000	1.000
4	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.400	0.000	1.000	1.000
5	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.800	0.000	1.000	1.000
6	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.200	0.000	1.000	1.000
7	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.600	0.000	1.000	1.000
8	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.000	0.000	1.000	1.000
9	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.400	0.000	1.000	1.000
10	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.800	0.000	1.000	1.000
11	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
12	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
13	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
14	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000
15	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.800	0.000	1.000	1.000
16	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
17	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
18	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
19	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
20	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
21	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
22	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
23	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
24	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
25	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
26	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
27	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
28	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
29	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
30	0.000	--	--	--	--	--	REMOVED	--				

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 137 di 1221
0.000	0.000	0.000	not available		
31	0.000	--	--	--	--
0.000	0.000	0.000	not available		
32	0.000	--	--	--	--
0.000	0.000	0.000	not available		
33	0.000	--	--	--	--
0.000	0.000	0.000	not available		
34	0.000	--	--	--	--
0.000	0.000	0.000	not available		
35	0.000	--	--	--	--
0.000	0.000	0.000	not available		
36	0.000	--	--	--	--
0.000	0.000	0.000	not available		
37	0.000	--	--	--	--
0.000	0.000	0.000	not available		
38	0.000	--	--	--	--
0.000	0.000	0.000	not available		
39	0.000	--	--	--	--
0.000	0.000	0.000	not available		
40	0.000	--	--	--	--
0.000	0.000	0.000	not available		
41	0.000	--	--	--	--
0.000	0.000	0.000	not available		
42	0.000	--	--	--	--
0.000	0.000	0.000	not available		
43	0.000	--	--	--	--
0.000	0.000	0.000	not available		
44	0.000	--	--	--	--
0.000	0.000	0.000	not available		
45 D	1.536	1.2070E-02	1.900 7.678	167.2	90.45
7.678	0.000	0.000	Strato1_2_8_L_0		
46 D	4.607	1.1552E-02	5.700 23.03	171.0	92.41
23.03	0.000	0.000	Strato1_2_8_L_0		
47 D	7.678	1.1037E-02	9.500 38.39	174.8	94.38
38.39	0.000	0.000	Strato1_2_8_L_0		
48 D	10.75	1.0525E-02	13.30 53.75	178.6	96.36
53.75	0.000	0.000	Strato1_2_8_L_0		
49 D	13.82	1.0018E-02	17.10 69.10	182.4	98.35
69.10	0.000	0.000	Strato1_2_8_L_0		
50 D	16.89	9.5164E-03	20.90 84.46	186.2	100.3
84.46	0.000	0.000	Strato1_2_8_L_0		
51 D	19.96	9.0227E-03	24.70 99.81	190.0	102.3
99.81	0.000	0.000	Strato1_2_8_L_0		
52 D	23.03	8.5377E-03	28.50 115.2	193.8	115.2
115.2	0.000	0.000	Strato1_2_8_L_0		
53 D	24.34	8.0626E-03	32.30 121.7	197.6	121.7
121.7	0.000	0.000	Strato1_2_8_L_0		
54 D	24.55	7.5985E-03	36.10 122.8	201.4	122.8
122.8	0.000	0.000	Strato1_2_8_L_0		
55 D	24.77	7.1465E-03	39.90 123.9	205.2	123.9
123.9	0.000	0.000	Strato1_2_8_L_0		
56 D	24.99	6.7075E-03	43.70 125.0	209.0	125.0
125.0	0.000	0.000	Strato1_2_8_L_0		
57 D	25.22	6.2822E-03	47.50 126.1	212.8	126.1
126.1	0.000	0.000	Strato1_2_8_L_0		
58 D	25.46	5.8714E-03	51.30 127.3	216.6	127.3
127.3	0.000	0.000	Strato1_2_8_L_0		
59 D	25.70	5.4755E-03	55.10 128.5	220.4	128.5
128.5	0.000	0.000	Strato1_2_8_L_0		
60 D	25.95	5.0952E-03	58.90 129.7	224.2	129.7
129.7	0.000	0.000	Strato1_2_8_L_0		
61 D	26.21	4.7308E-03	62.70 131.0	228.0	131.0
131.0	0.000	0.000	Strato1_2_8_L_0		
62 D	26.47	4.3825E-03	66.50 132.3	231.8	132.3
132.3	0.000	0.000	Strato1_2_8_L_0		
63 D	26.74	4.0506E-03	70.30 133.7	235.6	133.7
133.7	0.000	0.000	Strato1_2_8_L_0		
64 D	24.02	3.7351E-03	74.10 120.1	239.4	120.1
120.1	0.000	0.000	Strato2_3095_82743_L_0		
65 D	23.87	3.4362E-03	78.10 119.3	243.4	121.7
119.3	0.000	0.000	Strato2_3095_82743_L_0		
66 D	23.59	3.1537E-03	82.10 118.0	247.4	123.7
118.0	0.000	0.000	Strato2_3095_82743_L_0		
67 D	23.35	2.8873E-03	86.10 116.8	251.4	125.7
116.8	0.000	0.000	Strato2_3095_82743_L_0		
68 D	23.15	2.6368E-03	90.10 115.8	255.4	127.7
115.8	0.000	0.000	Strato2_3095_82743_L_0		
69 D	22.99	2.4015E-03	94.10 115.0	259.4	129.7
115.0	0.000	0.000	Strato2_3095_82743_L_0		
70 D	22.87	2.1809E-03	98.10 114.3	263.4	131.7
114.3	0.000	0.000	Strato2_3095_82743_L_0		
71 D	22.78	1.9742E-03	102.1 113.9	267.4	133.7
113.9	0.000	0.000	Strato2_3095_82743_L_0		
72 D	22.72	1.7809E-03	106.1 113.6	271.4	135.7
113.6	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
139 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  17:58:39  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.76608	-0.76608	-1.79601E-10	0.15322
2	1.9391	-1.9391	-0.15322	0.54103
3	3.2487	-3.2487	-0.54103	1.1908
4	4.9853	-4.9853	-1.1908	2.1878
5	6.8716	-6.8716	-2.1878	3.5621
6	9.0954	-9.0954	-3.5621	5.3812
7	11.488	-11.488	-5.3812	7.6789
8	14.185	-14.185	-7.6789	10.516
9	17.023	-17.023	-10.516	13.921
10	20.153	-20.153	-13.921	17.951
11	23.475	-23.475	-17.951	22.646
12	27.077	-27.077	-22.646	28.062
13	30.878	-30.878	-28.062	34.237
14	34.949	-34.949	-34.237	41.227
15	39.222	-39.222	-41.227	49.071
16	-100.68	100.68	-49.071	28.935
17	-95.959	95.959	-28.935	9.7433
18	-90.974	90.974	-9.7433	-8.4515
19	-85.780	85.780	8.4515	-25.608
20	-80.328	80.328	25.608	-41.673
21	-74.664	74.664	41.673	-56.606
22	-68.746	68.746	56.606	-70.355
23	-62.615	62.615	70.355	-82.878
24	-56.245	56.245	82.878	-94.127
25	-49.661	49.661	94.127	-104.06
26	-42.825	42.825	104.06	-112.62
27	-35.774	35.774	112.62	-119.78
28	-28.473	28.473	119.78	-125.47
29	-20.955	20.955	125.47	-129.66
30	-13.188	13.188	129.66	-132.30
31	-5.2156	5.2156	132.30	-133.35
32	3.0046	-3.0046	133.35	-132.74
33	11.443	-11.443	132.74	-130.46
34	20.129	-20.129	130.46	-126.43
35	29.033	-29.033	126.43	-120.62
36	38.183	-38.183	120.62	-112.99
37	47.553	-47.553	112.99	-103.48
38	57.168	-57.168	103.48	-92.042
39	66.994	-66.994	92.042	-78.644
40	77.064	-77.064	78.644	-63.231
41	87.355	-87.355	63.231	-45.760
42	97.889	-97.889	45.760	-26.182
43	108.65	-108.65	26.182	-4.4528
44	119.64	-119.64	4.4528	19.476
45	129.33	-129.33	-19.476	45.342
46	136.18	-136.18	-45.342	72.577
47	140.18	-140.18	-72.577	100.61
48	141.35	-141.35	-100.61	128.88
49	139.67	-139.67	-128.88	156.82
50	135.16	-135.16	-156.82	183.85
51	127.80	-127.80	-183.85	209.41
52	117.62	-117.62	-209.41	232.93
53	106.34	-106.34	-232.93	254.20
54	95.094	-95.094	-254.20	273.22
55	83.851	-83.851	-273.22	289.99
56	72.626	-72.626	-289.99	304.52
57	61.396	-61.396	-304.52	316.79
58	50.170	-50.170	-316.79	326.83
59	39.564	-39.564	-326.83	334.74
60	29.791	-29.791	-334.74	340.70
61	20.776	-20.776	-340.70	344.85
62	12.519	-12.519	-344.85	347.36
63	4.9566	-4.9566	-347.36	348.35

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 140 di 1221
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64	-10.872	10.872	-348.35	346.18
65	-26.365	26.365	-346.18	340.90
66	-40.700	40.700	-340.90	332.76
67	-53.118	53.118	-332.76	322.14
68	-63.715	63.715	-322.14	309.40
69	-72.635	72.635	-309.40	294.87
70	-79.956	79.956	-294.87	278.88
71	-85.804	85.804	-278.88	261.72
72	-90.254	90.254	-261.72	243.67
73	-93.419	93.419	-243.67	224.98
74	-95.363	95.363	-224.98	205.91
75	-96.184	96.184	-205.91	186.67
76	-95.942	95.942	-186.67	167.49
77	-94.711	94.711	-167.49	148.54
78	-92.531	92.531	-148.54	130.04
79	-89.472	89.472	-130.04	112.14
80	-85.558	85.558	-112.14	95.031
81	-80.847	80.847	-95.031	78.861
82	-75.352	75.352	-78.861	63.791
83	-69.118	69.118	-63.791	49.967
84	-62.154	62.154	-49.967	37.536
85	-54.490	54.490	-37.536	26.638
86	-46.118	46.118	-26.638	17.414
87	-37.065	37.065	-17.414	10.001
88	-27.318	27.318	-10.001	4.5377
89	-16.899	16.899	-4.5377	1.1580
90	-5.7899	5.7899	-1.1580	-7.12883E-12

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      17:58:39
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR 1	149.51	-6.74572E-04	2.04298E-02	0.0000	2633.3	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      17:58:39
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER      0  RNORM = 0.000      RMNORM= 0.000
RINORM=0.1002E+07  RIMNOR=0.5249E+07
RENORM=0.2568E+05  REMNOR=0.9245E-18  RATIO =0.1601      TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 161.0      RMMAX = 348.3
RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
RDT  =0.1002E+07  RDR  =0.5249E+07
RATIOT=0.1601      RATOR= 0.000
MAX UN= 1.060      IEQ= 67 NODE      34 DOF      1 Y-DISPL.F
MIN UN=-160.0     IEQ= 83 NODE      42 DOF      1 Y-DISPL.F

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
141 di 1221

NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1002E+07 RIMNOR=0.5249E+07
 RENORM= 3.981 REMNOR=0.1080E-17 RATIO =0.1994E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 161.0 RMMAX = 348.3
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.1002E+07 RDR =0.5249E+07
 RATIOT=0.1994E-02 RATIO= 0.000
 MAX UN= 1.023 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
 MIN UN=-.1182 IEQ= 89 NODE 45 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1002E+07 RIMNOR=0.5249E+07
 RENORM=0.6051 REMNOR=0.1038E-17 RATIO =0.7773E-03 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 161.0 RMMAX = 348.3
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.1002E+07 RDR =0.5249E+07
 RATIOT=0.7773E-03 RATIO= 0.000
 MAX UN=0.5748 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F
 MIN UN=-.6542E-08 IEQ= 35 NODE 18 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1002E+07 RIMNOR=0.5249E+07
 RENORM=0.1118E-01 REMNOR=0.1352E-17 RATIO =0.1056E-03 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 161.0 RMMAX = 348.3
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.1002E+07 RDR =0.5249E+07
 RATIOT=0.1056E-03 RATIO= 0.000
 MAX UN=0.1057 IEQ= 29 NODE 15 DOF 1 Y-DISPL.F
 MIN UN=-.3216E-02 IEQ= 89 NODE 45 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1002E+07 RIMNOR=0.5249E+07
 RENORM=0.3748E-15 REMNOR=0.1674E-17 RATIO =0.1935E-10 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 161.0 RMMAX = 348.3
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.1002E+07 RDR =0.5249E+07
 RATIOT=0.1935E-10 RATIO= 0.000
 MAX UN=0.8070E-08 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
 MIN UN=-.7462E-08 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
142 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  17:58:39  |
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New Project

SOLUTION REACHED USING 5 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 5 (AT TIME 5.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.3324042E-02	-2.5697399E-03	
2	3.2810095E-02	-2.5697145E-03	
3	3.2296162E-02	-2.5695960E-03	
4	3.1782269E-02	-2.5692966E-03	
5	3.1268462E-02	-2.5687151E-03	
6	3.0754810E-02	-2.5677367E-03	
7	3.0241403E-02	-2.5662349E-03	
8	2.9728360E-02	-2.5640712E-03	
9	2.9215828E-02	-2.5610959E-03	
10	2.8703986E-02	-2.5571488E-03	
11	2.8193045E-02	-2.5520593E-03	
12	2.7683251E-02	-2.5456453E-03	
13	2.7174888E-02	-2.5377137E-03	
14	2.6668280E-02	-2.5280598E-03	
15	2.6163793E-02	-2.5164679E-03	
16	2.5661837E-02	-2.5027111E-03	
17	2.5162639E-02	-2.4899930E-03	
18	2.4665558E-02	-2.4815026E-03	
19	2.4169775E-02	-2.4769677E-03	
20	2.3674527E-02	-2.4760983E-03	
21	2.3179112E-02	-2.4785860E-03	
22	2.2682890E-02	-2.4841043E-03	
23	2.2185291E-02	-2.4923089E-03	
24	2.1685814E-02	-2.5028374E-03	
25	2.1184029E-02	-2.5153105E-03	
26	2.0679587E-02	-2.5293313E-03	
27	2.0172221E-02	-2.5444855E-03	
28	1.9661746E-02	-2.5603414E-03	
29	1.9148070E-02	-2.5764505E-03	
30	1.8631182E-02	-2.5923471E-03	
31	1.8111177E-02	-2.6075491E-03	
32	1.7588242E-02	-2.6215579E-03	
33	1.7062668E-02	-2.6338594E-03	
34	1.6534848E-02	-2.6439232E-03	
35	1.6005287E-02	-2.6512036E-03	
36	1.5474592E-02	-2.6551398E-03	
37	1.4943492E-02	-2.6551559E-03	
38	1.4412830E-02	-2.6506619E-03	
39	1.3883568E-02	-2.6410536E-03	
40	1.3356793E-02	-2.6257140E-03	
41	1.2833709E-02	-2.6040131E-03	
42	1.2315645E-02	-2.5753081E-03	
43	1.1803831E-02	-2.5427691E-03	
44	1.1298585E-02	-2.5095537E-03	
45	1.0800103E-02	-2.4749868E-03	
46	1.0308726E-02	-2.4383867E-03	
47	9.8249246E-03	-2.3991361E-03	
48	9.3492800E-03	-2.3567538E-03	
49	8.8824570E-03	-2.3108984E-03	
50	8.4251680E-03	-2.2613678E-03	
51	7.9781589E-03	-2.2081016E-03	
52	7.5421667E-03	-2.1511798E-03	
53	7.1179114E-03	-2.0908255E-03	
54	6.7060439E-03	-2.0273602E-03	
55	6.3071511E-03	-1.9611387E-03	
56	5.9217481E-03	-1.8925222E-03	
57	5.5502773E-03	-1.8218790E-03	
58	5.1931066E-03	-1.7495848E-03	
59	4.8505279E-03	-1.6760227E-03	
60	4.5227570E-03	-1.6015686E-03	
61	4.2099367E-03	-1.5265715E-03	
62	3.9121433E-03	-1.4513498E-03	
63	3.6293924E-03	-1.3761932E-03	
64	3.3616442E-03	-1.3013640E-03	
65	3.1087978E-03	-1.2272709E-03	
66	2.8706489E-03	-1.1544826E-03	
67	2.6468811E-03	-1.0835486E-03	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 144 di 1221							
18 D	5.933	-2.4666E-02	91.99	29.67	91.99	43.45	UL-RL	8781.	-3.400	0.000	1.000	1.000
29.67	0.000	0.000	Stratol_2_8_L_0									
19 D	6.291	-2.4170E-02	95.43	31.46	95.43	45.28	UL-RL	8781.	-3.600	0.000	1.000	1.000
31.46	0.000	0.000	Stratol_2_8_L_0									
20 D	6.697	-2.3675E-02	99.67	33.48	99.67	47.53	UL-RL	8781.	-3.800	0.000	1.000	1.000
33.48	0.000	0.000	Stratol_2_8_L_0									
21 D	7.053	-2.3179E-02	103.1	35.27	103.1	49.37	UL-RL	8781.	-4.000	0.000	1.000	1.000
35.27	0.000	0.000	Stratol_2_8_L_0									
22 D	7.452	-2.2683E-02	107.3	37.26	107.3	51.59	UL-RL	8781.	-4.200	0.000	1.000	1.000
37.26	0.000	0.000	Stratol_2_8_L_0									
23 D	7.806	-2.2185E-02	110.8	39.03	110.8	53.45	UL-RL	8781.	-4.400	0.000	1.000	1.000
39.03	0.000	0.000	Stratol_2_8_L_0									
24 D	8.183	-2.1686E-02	114.8	40.91	114.8	55.52	UL-RL	8781.	-4.600	0.000	1.000	1.000
40.91	0.000	0.000	Stratol_2_8_L_0									
25 D	8.533	-2.1184E-02	118.3	42.66	118.3	57.39	UL-RL	8781.	-4.800	0.000	1.000	1.000
42.66	0.000	0.000	Stratol_2_8_L_0									
26 D	8.917	-2.0680E-02	122.4	44.59	122.4	59.59	UL-RL	8781.	-5.000	0.000	1.000	1.000
44.59	0.000	0.000	Stratol_2_8_L_0									
27 D	9.262	-2.0172E-02	126.0	46.31	126.0	61.47	UL-RL	8781.	-5.200	0.000	1.000	1.000
46.31	0.000	0.000	Stratol_2_8_L_0									
28 D	9.637	-1.9662E-02	130.1	48.19	130.1	63.65	UL-RL	8781.	-5.400	0.000	1.000	1.000
48.19	0.000	0.000	Stratol_2_8_L_0									
29 D	9.974	-1.9148E-02	133.7	49.87	133.7	65.53	UL-RL	8781.	-5.600	0.000	1.000	1.000
49.87	0.000	0.000	Stratol_2_8_L_0									
30 D	10.34	-1.8631E-02	137.7	51.70	137.7	67.70	UL-RL	8781.	-5.800	0.000	1.000	1.000
51.70	0.000	0.000	Stratol_2_8_L_0									
31 D	10.66	-1.8111E-02	141.1	53.28	141.1	69.50	UL-RL	8781.	-6.000	0.000	1.000	1.000
53.28	0.000	0.000	Stratol_2_8_L_0									
32 D	11.01	-1.7588E-02	145.2	55.04	145.2	71.66	UL-RL	8781.	-6.200	0.000	1.000	1.000
55.04	0.000	0.000	Stratol_2_8_L_0									
33 D	11.33	-1.7063E-02	148.8	56.63	148.8	73.56	UL-RL	8781.	-6.400	0.000	1.000	1.000
56.63	0.000	0.000	Stratol_2_8_L_0									
34 D	11.66	-1.6535E-02	152.9	58.31	152.9	75.71	UL-RL	8781.	-6.600	0.000	1.000	1.000
58.31	0.000	0.000	Stratol_2_8_L_0									
35 D	11.97	-1.6005E-02	156.5	59.83	156.5	77.62	UL-RL	8781.	-6.800	0.000	1.000	1.000
59.83	0.000	0.000	Stratol_2_8_L_0									
36 D	12.29	-1.5475E-02	160.5	61.43	160.5	79.76	UL-RL	8781.	-7.000	0.000	1.000	1.000
61.43	0.000	0.000	Stratol_2_8_L_0									
37 D	12.57	-1.4943E-02	164.1	62.86	164.1	81.68	UL-RL	8781.	-7.200	0.000	1.000	1.000
62.86	0.000	0.000	Stratol_2_8_L_0									
38 D	12.87	-1.4413E-02	168.1	64.36	168.1	83.81	UL-RL	8781.	-7.400	0.000	1.000	1.000
64.36	0.000	0.000	Stratol_2_8_L_0									
39 D	13.13	-1.3884E-02	171.6	65.64	171.6	85.65	UL-RL	8781.	-7.600	0.000	1.000	1.000
65.64	0.000	0.000	Stratol_2_8_L_0									
40 D	13.40	-1.3357E-02	175.6	67.02	175.6	87.78	UL-RL	8781.	-7.800	0.000	1.000	1.000
67.02	0.000	0.000	Stratol_2_8_L_0									
41 D	13.64	-1.2834E-02	179.3	68.22	179.3	89.71	UL-RL	8781.	-8.000	0.000	1.000	1.000
68.22	0.000	0.000	Stratol_2_8_L_0									
42 D	13.89	-1.2316E-02	183.3	69.46	183.3	91.83	UL-RL	8781.	-8.200	0.000	1.000	1.000
69.46	0.000	0.000	Stratol_2_8_L_0									
43 D	14.10	-1.1804E-02	186.9	70.52	186.9	93.76	UL-RL	8781.	-8.400	0.000	1.000	1.000
70.52	0.000	0.000	Stratol_2_8_L_0									
44 D	14.32	-1.1299E-02	190.9	71.62	190.9	95.88	UL-RL	8781.	-8.600	0.000	1.000	1.000
71.62	0.000	0.000	Stratol_2_8_L_0									
45 D	14.51	-1.0800E-02	194.5	72.55	194.5	97.81	UL-RL	8781.	-8.800	0.000	1.000	1.000
72.55	0.000	0.000	Stratol_2_8_L_0									
46 D	14.70	-1.0309E-02	198.4	73.50	198.4	99.86	UL-RL	8781.	-9.000	0.000	1.000	1.000
73.50	0.000	0.000	Stratol_2_8_L_0									
47 D	14.87	-9.8249E-03	202.1	74.33	202.1	101.8	UL-RL	8781.	-9.200	0.000	1.000	1.000
74.33	0.000	0.000	Stratol_2_8_L_0									
48 D	15.04	-9.3493E-03	206.0	75.22	206.0	103.9	UL-RL	8781.	-9.400	0.000	1.000	1.000
75.22	0.000	0.000	Stratol_2_8_L_0									
49 D	15.20	-8.8825E-03	209.7	75.98	209.7	105.8	UL-RL	8781.	-9.600	0.000	1.000	1.000
75.98	0.000	0.000	Stratol_2_8_L_0									
50 D	15.36	-8.4252E-03	213.7	76.80	213.7	107.9	UL-RL	8781.	-9.800	0.000	1.000	1.000
76.80	0.000	0.000	Stratol_2_8_L_0									
51 D	15.50	-7.9782E-03	217.3	77.50	217.3	109.9	UL-RL	8781.	-10.00	0.000	1.000	1.000
77.50	0.000	0.000	Stratol_2_8_L_0									
52 D	15.66	-7.5422E-03	221.3	78.28	221.3	112.0	UL-RL	8781.	-10.20	0.000	1.000	1.000
78.28	0.000	0.000	Stratol_2_8_L_0									
53 D	15.79	-7.1179E-03	225.0	78.95	225.0	113.9	UL-RL	8781.	-10.40	0.000	1.000	1.000
78.95	0.000	0.000	Stratol_2_8_L_0									
54 D	15.93	-6.7060E-03	228.8	79.66	228.8	116.0	UL-RL	8781.	-10.60	0.000	1.000	1.000
79.66	0.000	0.000	Stratol_2_8_L_0									
55 D	16.06	-6.3072E-03	232.5	80.31	232.5	117.9	UL-RL	8781.	-10.80	0.000	1.000	1.000
80.31	0.000	0.000	Stratol_2_8_L_0									
56 D	16.21	-5.9217E-03	236.5	81.04	236.5	120.0	UL-RL	8781.	-11.00	0.000	1.000	1.000
81.04	0.000	0.000	Stratol_2_8_L_0									
57 D	16.34	-5.5503E-03	240.1	81.69	240.1	122.0	UL-RL	8781.	-11.20	0.000	1.000	1.000
81.69	0.000	0.000	Stratol_2_8_L_0									
58 D	16.48	-5.1931E-03	244.1	82.42	244.1	124.1	UL-RL	8781.	-11.40	0.000	1.000	1.000
82.42	0.000	0.000	Stratol_2_8_L_0									
59 D	17.25	-4.8505E-03	247.8	86.26	247.8	126.0	UL-RL	8781.	-11.60	0.000	1.000	1.000
86.26	0.000	0.000	Stratol_2_8_L_0									
60 D	18.24	-4.5228E-03	251.7	91.21	251.7	128.1	UL-RL	8781.	-11.80	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 145 di 1221
91.21	0.000	0.000	Strato1_2_8_L_0		
61 D	19.17	-4.2099E-03	255.3 95.83	255.3	130.0
95.83	0.000	0.000	Strato1_2_8_L_0		
62 D	20.10	-3.9121E-03	259.2 100.5	259.2	132.1
100.5	0.000	0.000	Strato1_2_8_L_0		
63 D	20.98	-3.6294E-03	262.9 104.9	262.9	134.1
104.9	0.000	0.000	Strato1_2_8_L_0		
64 D	11.05	-3.3616E-03	266.9 55.25	266.9	128.4
55.25	0.000	0.000	Strato2_3095_82743_L_0		
65 D	11.00	-3.1088E-03	270.8 55.02	270.8	130.4
55.02	0.000	0.000	Strato2_3095_82743_L_0		
66 D	11.66	-2.8706E-03	274.9 58.31	274.9	132.4
58.31	0.000	0.000	Strato2_3095_82743_L_0		
67 D	13.13	-2.6469E-03	278.8 65.65	278.8	134.4
65.65	0.000	0.000	Strato2_3095_82743_L_0		
68 D	14.55	-2.4371E-03	282.9 72.75	282.9	136.5
72.75	0.000	0.000	Strato2_3095_82743_L_0		
69 D	15.87	-2.2407E-03	286.7 79.36	286.7	138.4
79.36	0.000	0.000	Strato2_3095_82743_L_0		
70 D	17.16	-2.0572E-03	290.8 85.81	290.8	140.4
85.81	0.000	0.000	Strato2_3095_82743_L_0		
71 D	18.37	-1.8859E-03	294.7 91.85	294.7	142.4
91.85	0.000	0.000	Strato2_3095_82743_L_0		
72 D	19.54	-1.7261E-03	298.9 97.72	298.9	144.4
97.72	0.000	0.000	Strato2_3095_82743_L_0		
73 D	20.64	-1.5771E-03	302.8 103.2	302.8	146.4
103.2	0.000	0.000	Strato2_3095_82743_L_0		
74 D	21.72	-1.4380E-03	306.9 108.6	306.9	148.4
108.6	0.000	0.000	Strato2_3095_82743_L_0		
75 D	22.72	-1.3082E-03	310.8 113.6	310.8	150.4
113.6	0.000	0.000	Strato2_3095_82743_L_0		
76 D	23.70	-1.1867E-03	314.8 118.5	314.8	152.4
118.5	0.000	0.000	Strato2_3095_82743_L_0		
77 D	24.63	-1.0728E-03	318.7 123.2	318.7	154.4
123.2	0.000	0.000	Strato2_3095_82743_L_0		
78 D	25.55	-9.6572E-04	322.9 127.8	322.9	156.4
127.8	0.000	0.000	Strato2_3095_82743_L_0		
79 D	26.42	-8.6465E-04	326.8 132.1	326.8	158.4
132.1	0.000	0.000	Strato2_3095_82743_L_0		
80 D	27.28	-7.6883E-04	330.9 136.4	330.9	160.4
136.4	0.000	0.000	Strato2_3095_82743_L_0		
81 D	28.11	-6.7753E-04	334.8 140.5	334.8	162.4
140.5	0.000	0.000	Strato2_3095_82743_L_0		
82 D	28.93	-5.9006E-04	338.9 144.7	338.9	164.4
144.7	0.000	0.000	Strato2_3095_82743_L_0		
83 D	29.72	-5.0576E-04	342.8 148.6	342.8	166.4
148.6	0.000	0.000	Strato2_3095_82743_L_0		
84 D	30.51	-4.2402E-04	346.8 152.6	346.8	168.4
152.6	0.000	0.000	Strato2_3095_82743_L_0		
85 D	31.28	-3.4429E-04	350.8 156.4	350.8	170.4
156.4	0.000	0.000	Strato2_3095_82743_L_0		
86 D	32.06	-2.6607E-04	354.9 160.3	354.9	172.4
160.3	0.000	0.000	Strato2_3095_82743_L_0		
87 D	32.82	-1.8893E-04	358.8 164.1	358.8	174.4
164.1	0.000	0.000	Strato2_3095_82743_L_0		
88 D	33.59	-1.1249E-04	362.9 167.9	362.9	176.4
167.9	0.000	0.000	Strato2_3095_82743_L_0		
89 D	34.34	-3.6459E-05	366.8 171.7	366.8	180.3
171.7	0.000	0.000	Strato2_3095_82743_L_0		
90 D	35.11	3.9377E-05	370.9 175.6	370.9	184.6
175.6	0.000	0.000	Strato2_3095_82743_L_0		
91 D	17.83	1.1515E-04	374.8 178.3	374.8	187.9
178.3	0.000	0.000	Strato2_3095_82743_L_0		



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 146 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  17:58:39  |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.2000	0.000	1.000	1.000
2	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.6000	0.000	1.000	1.000
3	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.000	0.000	1.000	1.000
4	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.400	0.000	1.000	1.000
5	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.800	0.000	1.000	1.000
6	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.200	0.000	1.000	1.000
7	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.600	0.000	1.000	1.000
8	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.000	0.000	1.000	1.000
9	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.400	0.000	1.000	1.000
10	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.800	0.000	1.000	1.000
11	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
12	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
13	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
14	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000
15	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.800	0.000	1.000	1.000
16	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
17	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
18	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
19	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
20	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
21	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
22	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
23	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
24	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
25	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
26	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
27	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
28	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
29	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
30	0.000	--	--	--	--	--	REMOVED	--				

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 148 di 1221						
73 D	22.63	1.5771E-03	110.1 113.2	275.4	137.7	UL-RL	1.3463E+04	-14.40	0.000	1.000	1.000
113.2	0.000	0.000	Strato2_3095_82743_L_0								
74 D	22.72	1.4380E-03	114.1 113.6	279.4	139.7	UL-RL	1.3463E+04	-14.60	0.000	1.000	1.000
113.6	0.000	0.000	Strato2_3095_82743_L_0								
75 D	22.82	1.3082E-03	118.1 114.1	283.4	141.7	UL-RL	1.3463E+04	-14.80	0.000	1.000	1.000
114.1	0.000	0.000	Strato2_3095_82743_L_0								
76 D	22.95	1.1867E-03	122.1 114.7	287.4	143.7	UL-RL	1.3463E+04	-15.00	0.000	1.000	1.000
114.7	0.000	0.000	Strato2_3095_82743_L_0								
77 D	23.09	1.0728E-03	126.1 115.5	291.4	145.7	UL-RL	1.3463E+04	-15.20	0.000	1.000	1.000
115.5	0.000	0.000	Strato2_3095_82743_L_0								
78 D	23.25	9.6572E-04	130.1 116.3	295.4	147.7	UL-RL	1.3463E+04	-15.40	0.000	1.000	1.000
116.3	0.000	0.000	Strato2_3095_82743_L_0								
79 D	23.43	8.6465E-04	134.1 117.1	299.4	149.7	UL-RL	1.3463E+04	-15.60	0.000	1.000	1.000
117.1	0.000	0.000	Strato2_3095_82743_L_0								
80 D	23.61	7.6883E-04	138.1 118.1	303.4	151.7	UL-RL	1.3463E+04	-15.80	0.000	1.000	1.000
118.1	0.000	0.000	Strato2_3095_82743_L_0								
81 D	23.81	6.7753E-04	142.1 119.1	307.4	153.7	UL-RL	1.3463E+04	-16.00	0.000	1.000	1.000
119.1	0.000	0.000	Strato2_3095_82743_L_0								
82 D	24.02	5.9006E-04	146.1 120.1	311.4	155.7	UL-RL	1.3463E+04	-16.20	0.000	1.000	1.000
120.1	0.000	0.000	Strato2_3095_82743_L_0								
83 D	24.23	5.0576E-04	150.1 121.1	315.4	157.7	UL-RL	1.3463E+04	-16.40	0.000	1.000	1.000
121.1	0.000	0.000	Strato2_3095_82743_L_0								
84 D	24.45	4.2402E-04	154.1 122.2	319.4	159.7	UL-RL	1.3463E+04	-16.60	0.000	1.000	1.000
122.2	0.000	0.000	Strato2_3095_82743_L_0								
85 D	24.67	3.4429E-04	158.1 123.3	323.4	161.7	UL-RL	1.3463E+04	-16.80	0.000	1.000	1.000
123.3	0.000	0.000	Strato2_3095_82743_L_0								
86 D	24.89	2.6607E-04	162.1 124.5	327.4	163.7	UL-RL	1.3463E+04	-17.00	0.000	1.000	1.000
124.5	0.000	0.000	Strato2_3095_82743_L_0								
87 D	25.12	1.8893E-04	166.1 125.6	331.4	165.7	UL-RL	1.3463E+04	-17.20	0.000	1.000	1.000
125.6	0.000	0.000	Strato2_3095_82743_L_0								
88 D	25.35	1.1249E-04	170.1 126.7	335.4	167.7	UL-RL	1.3463E+04	-17.40	0.000	1.000	1.000
126.7	0.000	0.000	Strato2_3095_82743_L_0								
89 D	25.58	3.6459E-05	174.1 127.9	339.4	169.7	UL-RL	1.3463E+04	-17.60	0.000	1.000	1.000
127.9	0.000	0.000	Strato2_3095_82743_L_0								
90 D	25.80	-3.9377E-05	178.1 129.0	343.4	171.7	UL-RL	1.3463E+04	-17.80	0.000	1.000	1.000
129.0	0.000	0.000	Strato2_3095_82743_L_0								
91 D	13.02	-1.1515E-04	182.1 130.2	347.4	173.7	UL-RL	1.3463E+04	-18.00	0.000	1.000	1.000
130.2	0.000	0.000	Strato2_3095_82743_L_0								

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                       |
|          NewProject.BaseDesignSection_28.SLERara_3454          |
|          Exe Time :29 July 2019  17:58:39          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.0701	-1.0701	-1.2311E-10	0.21402
2	2.8511	-2.8511	-0.21402	0.78423
3	4.7687	-4.7687	-0.78423	1.7380
4	7.1133	-7.1133	-1.7380	3.1606
5	9.6076	-9.6076	-3.1606	5.0821
6	12.439	-12.439	-5.0821	7.5700
7	15.440	-15.440	-7.5700	10.658
8	18.745	-18.745	-10.658	14.407
9	22.191	-22.191	-14.407	18.845
10	25.929	-25.929	-18.845	24.031
11	29.859	-29.859	-24.031	30.003
12	34.069	-34.069	-30.003	36.817
13	38.478	-38.478	-36.817	44.512
14	43.157	-43.157	-44.512	53.144
15	48.038	-48.038	-53.144	62.751
16	-91.798	91.798	-62.751	44.392
17	-86.277	86.277	-44.392	27.136
18	-80.344	80.344	-27.136	11.067
19	-74.053	74.053	-11.067	-3.7431
20	-67.356	67.356	3.7431	-17.214
21	-60.303	60.303	17.214	-29.275
22	-52.850	52.850	29.275	-39.845
23	-45.045	45.045	39.845	-48.854
24	-36.862	36.862	48.854	-56.226

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 149 di 1221
25	-28.329	28.329	56.226	-61.892	
26	-19.412	19.412	61.892	-65.774	
27	-10.150	10.150	65.774	-67.804	
28	-0.51292	0.51292	67.804	-67.907	
29	9.4616	-9.4616	67.907	-66.015	
30	19.801	-19.801	66.015	-62.055	
31	30.456	-30.456	62.055	-55.963	
32	41.465	-41.465	55.963	-47.670	
33	52.790	-52.790	47.670	-37.112	
34	64.453	-64.453	37.112	-24.222	
35	76.418	-76.418	24.222	-8.9383	
36	88.704	-88.704	8.9383	8.8025	
37	101.28	-101.28	-8.8025	29.058	
38	114.15	-114.15	-29.058	51.887	
39	127.27	-127.27	-51.887	77.342	
40	140.68	-140.68	-77.342	105.48	
41	154.32	-154.32	-105.48	136.34	
42	7.1959	-7.1959	-136.34	137.78	
43	21.301	-21.301	-137.78	142.04	
44	35.625	-35.625	-142.04	149.17	
45	50.017	-50.017	-149.17	159.17	
46	61.626	-61.626	-159.17	171.50	
47	70.291	-70.291	-171.50	185.55	
48	76.018	-76.018	-185.55	200.76	
49	78.777	-78.777	-200.76	216.51	
50	78.576	-78.576	-216.51	232.23	
51	75.387	-75.387	-232.23	247.31	
52	69.222	-69.222	-247.31	261.15	
53	61.818	-61.818	-261.15	273.51	
54	54.283	-54.283	-273.51	284.37	
55	46.598	-46.598	-284.37	293.69	
56	38.770	-38.770	-293.69	301.44	
57	30.777	-30.777	-301.44	307.60	
58	22.629	-22.629	-307.60	312.13	
59	14.943	-14.943	-312.13	315.11	
60	7.9327	-7.9327	-315.11	316.70	
61	1.5271	-1.5271	-316.70	317.01	
62	-4.2707	4.2707	-317.01	316.15	
63	-9.5201	9.5201	-316.15	314.25	
64	-21.488	21.488	-314.25	309.95	
65	-33.472	33.472	-309.95	303.26	
66	-44.639	44.639	-303.26	294.33	
67	-54.215	54.215	-294.33	283.49	
68	-62.282	62.282	-283.49	271.03	
69	-68.971	68.971	-271.03	257.23	
70	-74.344	74.344	-257.23	242.37	
71	-78.515	78.515	-242.37	226.66	
72	-81.546	81.546	-226.66	210.35	
73	-83.537	83.537	-210.35	193.65	
74	-84.539	84.539	-193.65	176.74	
75	-84.639	84.639	-176.74	159.81	
76	-83.886	83.886	-159.81	143.03	
77	-82.346	82.346	-143.03	126.56	
78	-80.049	80.049	-126.56	110.55	
79	-77.056	77.056	-110.55	95.144	
80	-73.385	73.385	-95.144	80.467	
81	-69.087	69.087	-80.467	66.649	
82	-64.171	64.171	-66.649	53.815	
83	-58.677	58.677	-53.815	42.080	
84	-52.611	52.611	-42.080	31.557	
85	-45.998	45.998	-31.557	22.357	
86	-38.830	38.830	-22.357	14.591	
87	-31.131	31.131	-14.591	8.3651	
88	-22.889	22.889	-8.3651	3.7874	
89	-14.122	14.122	-3.7874	0.96297	
90	-4.8148	4.8148	-0.96297	1.48243E-13	

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 150 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      17:58:39          |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 CURRENT TIME IS 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	150.11	-6.74572E-04	2.06573E-02	0.0000	2633.3	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      17:58:39          |
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 CURRENT TIME IS 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	166.70	-1.26417E-03	-1.26417E-03	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.7209E+06 RIMNOR=0.4718E+07
 RENORM= 9438. REMNOR=0.1674E-17 RATIO =0.1144 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 161.0 RMMAX = 317.0
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.7209E+06 RDR =0.4718E+07
 RATIOT=0.1144 RATOR= 0.000
 MAX UN= 26.23 IEQ= 125 NODE 63 DOF 1 Y-DISPL.F
 MIN UN=-.7462E-08 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.7209E+06 RIMNOR=0.4718E+07
 RENORM= 818.6 REMNOR=0.1485E-17 RATIO =0.3370E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 161.0 RMMAX = 317.0
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.7209E+06 RDR =0.4718E+07
 RATIOT=0.3370E-01 RATOR= 0.000
 MAX UN= 15.00 IEQ= 127 NODE 64 DOF 1 Y-DISPL.F
 MIN UN=-.1117 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.7209E+06 RIMNOR=0.4718E+07
 RENORM= 148.7 REMNOR=0.3178E-17 RATIO =0.1436E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 161.0 RMMAX = 317.0
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.7209E+06 RDR =0.4718E+07
 RATIOT=0.1436E-01 RATOR= 0.000
 MAX UN= 5.091 IEQ= 133 NODE 67 DOF 1 Y-DISPL.F
 MIN UN=-.3747 IEQ= 181 NODE 91 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 151 di 1221
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RINORM=0.7209E+06 RIMNOR=0.4718E+07
 RENORM= 7.609 REMNOR=0.2714E-17 RATIO =0.3249E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 161.0 RMMAX = 317.0
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.7209E+06 RDR =0.4718E+07
 RATIOT=0.3249E-02 RATIOR= 0.000
 MAX UN= 1.459 IEQ= 19 NODE 10 DOF 1 Y-DISPL.F
 MIN UN=-.9362 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.7209E+06 RIMNOR=0.4718E+07
 RENORM=0.1831E-03 REMNOR=0.2175E-17 RATIO =0.1594E-04 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 161.0 RMMAX = 317.0
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.7209E+06 RDR =0.4718E+07
 RATIOT=0.1594E-04 RATIOR= 0.000
 MAX UN=0.1353E-01 IEQ= 131 NODE 66 DOF 1 Y-DISPL.F
 MIN UN=-.7065E-08 IEQ= 99 NODE 50 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|                PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                              |
|                                  NewProject.BaseDesignSection_28.SLERara_3454  |
|                                Exe Time :29 July 2019  17:58:39                |
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New Project
 SOLUTION REACHED USING 5 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 6 (AT TIME 6.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.2765966E-02	-1.5202175E-03	
2	3.2461924E-02	-1.5201879E-03	
3	3.2157898E-02	-1.5200556E-03	
4	3.1853915E-02	-1.5197323E-03	
5	3.1550024E-02	-1.5191211E-03	
6	3.1246292E-02	-1.5181214E-03	
7	3.0942808E-02	-1.5166325E-03	
8	3.0639679E-02	-1.5145448E-03	
9	3.0337038E-02	-1.5117375E-03	
10	3.0035041E-02	-1.5080791E-03	
11	2.9733872E-02	-1.5034280E-03	
12	2.9433746E-02	-1.4976310E-03	
13	2.9134907E-02	-1.4905238E-03	
14	2.8837636E-02	-1.4819305E-03	
15	2.8542247E-02	-1.4716644E-03	
16	2.8249095E-02	-1.4595274E-03	
17	2.7958335E-02	-1.4489039E-03	
18	2.7669207E-02	-1.4431678E-03	
19	2.7380757E-02	-1.4420887E-03	
20	2.7092077E-02	-1.4454250E-03	
21	2.6802310E-02	-1.4529239E-03	
22	2.6510648E-02	-1.4643215E-03	
23	2.6216340E-02	-1.4793428E-03	
24	2.5918690E-02	-1.4977017E-03	
25	2.5617058E-02	-1.5191016E-03	
26	2.5310867E-02	-1.5432350E-03	
27	2.4999603E-02	-1.5697831E-03	
28	2.4682815E-02	-1.5984163E-03	
29	2.4360121E-02	-1.6287938E-03	
30	2.4031206E-02	-1.6605641E-03	
31	2.3695827E-02	-1.6933640E-03	
32	2.3353817E-02	-1.7268200E-03	
33	2.3005081E-02	-1.7605476E-03	
34	2.2649606E-02	-1.7941514E-03	
35	2.2287458E-02	-1.8272247E-03	
36	2.1918781E-02	-1.8593501E-03	
37	2.1543809E-02	-1.8900990E-03	
38	2.1162862E-02	-1.9190317E-03	
39	2.0776348E-02	-1.9456973E-03	
40	2.0384767E-02	-1.9696344E-03	
41	1.9988709E-02	-1.9903708E-03	
42	1.9588857E-02	-2.0074234E-03	
43	1.9185711E-02	-2.0247985E-03	
44	1.8778651E-02	-2.0464926E-03	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 152 di 1221
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- 45 1.8366862E-02 -2.0719894E-03
- 46 1.7949637E-02 -2.1007613E-03
- 47 1.7526375E-02 -2.1322700E-03
- 48 1.7096583E-02 -2.1659664E-03
- 49 1.6659882E-02 -2.2012900E-03
- 50 1.6215999E-02 -2.2376701E-03
- 51 1.5764783E-02 -2.2745241E-03
- 52 1.5306193E-02 -2.3112592E-03
- 53 1.4840323E-02 -2.3472704E-03
- 54 1.4367374E-02 -2.3819427E-03
- 55 1.3887677E-02 -2.4146501E-03
- 56 1.3401687E-02 -2.4447555E-03
- 57 1.2909991E-02 -2.4716109E-03
- 58 1.2413304E-02 -2.4945572E-03
- 59 1.1912473E-02 -2.5129244E-03
- 60 1.1408484E-02 -2.5260315E-03
- 61 1.0902458E-02 -2.5331863E-03
- 62 1.0395654E-02 -2.5336860E-03
- 63 9.8894745E-03 -2.5268166E-03
- 64 9.3854665E-03 -2.5118535E-03
- 65 8.8852793E-03 -2.4886974E-03
- 66 8.3904912E-03 -2.4579876E-03
- 67 7.9025310E-03 -2.4205780E-03
- 68 7.4226665E-03 -2.3774288E-03
- 69 6.9519031E-03 -2.3294852E-03
- 70 6.4911293E-03 -2.2776892E-03
- 71 6.0410223E-03 -2.2229701E-03
- 72 5.6020749E-03 -2.1662461E-03
- 73 5.1745971E-03 -2.1084239E-03
- 74 4.7587188E-03 -2.0503989E-03
- 75 4.3543921E-03 -1.9930550E-03
- 76 3.9613932E-03 -1.9372651E-03
- 77 3.5793258E-03 -1.8838797E-03
- 78 3.2076295E-03 -1.8336718E-03
- 79 2.8456025E-03 -1.7872819E-03
- 80 2.4924291E-03 -1.7452069E-03
- 81 2.1472083E-03 -1.7078039E-03
- 82 1.8089815E-03 -1.6752924E-03
- 83 1.4767596E-03 -1.6477573E-03
- 84 1.1495500E-03 -1.6251506E-03
- 85 8.2636659E-04 -1.6072931E-03
- 86 5.0632035E-04 -1.5938786E-03
- 87 1.8854806E-04 -1.5844703E-03
- 88 -1.2769729E-04 -1.5785047E-03
- 89 -4.4303732E-04 -1.5752915E-03
- 90 -7.5794303E-04 -1.5740153E-03
- 91 -1.0727109E-03 -1.5737517E-03

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.SLERara_3454                    |
|                               Exe Time :29 July 2019      17:58:39                            |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 6.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1 D	1.244	-3.2766E-02	25.20	12.44	35.20	19.81	UL-RL	8488.	0.000	0.000	1.000	1.000
12.44	0.000	0.000	Stratol_2_8_L_0									
2 D	1.845	-3.2462E-02	19.29	9.226	29.29	16.85	UL-RL	8488.	-0.2000	0.000	1.000	1.000
9.226	0.000	0.000	Stratol_2_8_L_0									
3 D	1.863	-3.2158E-02	21.54	9.315	31.54	17.18	UL-RL	8488.	-0.4000	0.000	1.000	1.000
9.315	0.000	0.000	Stratol_2_8_L_0									
4 D	2.223	-3.1854E-02	28.56	11.12	38.56	19.55	UL-RL	8488.	-0.6000	0.000	1.000	1.000
11.12	0.000	0.000	Stratol_2_8_L_0									
5 D	2.016	-3.1550E-02	31.02	10.08	41.02	20.57	UL-RL	8488.	-0.8000	0.000	1.000	1.000
10.08	0.000	0.000	Stratol_2_8_L_0									
6 D	2.224	-3.1246E-02	36.58	11.12	46.58	23.00	ACTIVE	0.000	-1.000	0.000	1.000	1.000
11.12	0.000	0.000	Stratol_2_8_L_0									
7 D	2.393	-3.0943E-02	39.36	11.96	49.36	24.16	ACTIVE	0.000	-1.200	0.000	1.000	1.000
11.96	0.000	0.000	Stratol_2_8_L_0									
8 D	2.697	-3.0640E-02	44.36	13.49	54.36	26.33	ACTIVE	0.000	-1.400	0.000	1.000	1.000

GENERAL CONTRACTOR



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Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 153 di 1221
13.49	0.000	0.000	Stratol_2_8_L_0				
9 D	2.838	-3.0337E-02	46.68	14.19	56.68	27.28	ACTIVE 0.000 -1.600 0.000 1.000 1.000
14.19	0.000	0.000	Stratol_2_8_L_0				
10 D	3.129	-3.0035E-02	51.47	15.65	61.47	29.34	ACTIVE 0.000 -1.800 0.000 1.000 1.000
15.65	0.000	0.000	Stratol_2_8_L_0				
11 D	3.323	-2.9734E-02	54.65	16.61	64.65	30.67	ACTIVE 0.000 -2.000 0.000 1.000 1.000
16.61	0.000	0.000	Stratol_2_8_L_0				
12 D	3.602	-2.9434E-02	59.24	18.01	69.24	32.63	ACTIVE 0.000 -2.200 0.000 1.000 1.000
18.01	0.000	0.000	Stratol_2_8_L_0				
13 D	3.800	-2.9135E-02	62.51	19.00	72.51	33.98	ACTIVE 0.000 -2.400 0.000 1.000 1.000
19.00	0.000	0.000	Stratol_2_8_L_0				
14 D	4.071	-2.8838E-02	66.96	20.36	76.96	35.86	ACTIVE 0.000 -2.600 0.000 1.000 1.000
20.36	0.000	0.000	Stratol_2_8_L_0				
15 D	4.274	-2.8542E-02	70.29	21.37	80.29	37.25	ACTIVE 0.000 -2.800 0.000 1.000 1.000
21.37	0.000	0.000	Stratol_2_8_L_0				
16 D	4.516	-2.8249E-02	74.27	22.58	84.27	39.37	ACTIVE 0.000 -3.000 0.000 1.000 1.000
22.58	0.000	0.000	Stratol_2_8_L_0				
17 D	4.723	-2.7958E-02	77.68	23.61	87.68	41.17	ACTIVE 0.000 -3.200 0.000 1.000 1.000
23.61	0.000	0.000	Stratol_2_8_L_0				
18 D	4.985	-2.7669E-02	81.99	24.92	91.99	43.45	ACTIVE 0.000 -3.400 0.000 1.000 1.000
24.92	0.000	0.000	Stratol_2_8_L_0				
19 D	5.194	-2.7381E-02	85.43	25.97	95.43	45.28	ACTIVE 0.000 -3.600 0.000 1.000 1.000
25.97	0.000	0.000	Stratol_2_8_L_0				
20 D	5.452	-2.7092E-02	89.67	27.26	99.67	47.53	ACTIVE 0.000 -3.800 0.000 1.000 1.000
27.26	0.000	0.000	Stratol_2_8_L_0				
21 D	5.663	-2.6802E-02	93.15	28.32	103.1	49.37	ACTIVE 0.000 -4.000 0.000 1.000 1.000
28.32	0.000	0.000	Stratol_2_8_L_0				
22 D	5.919	-2.6511E-02	97.35	29.59	107.3	51.59	ACTIVE 0.000 -4.200 0.000 1.000 1.000
29.59	0.000	0.000	Stratol_2_8_L_0				
23 D	6.131	-2.6216E-02	100.8	30.66	110.8	53.45	ACTIVE 0.000 -4.400 0.000 1.000 1.000
30.66	0.000	0.000	Stratol_2_8_L_0				
24 D	6.369	-2.5919E-02	104.8	31.85	114.8	55.52	ACTIVE 0.000 -4.600 0.000 1.000 1.000
31.85	0.000	0.000	Stratol_2_8_L_0				
25 D	6.584	-2.5617E-02	108.3	32.92	118.3	57.39	ACTIVE 0.000 -4.800 0.000 1.000 1.000
32.92	0.000	0.000	Stratol_2_8_L_0				
26 D	6.836	-2.5311E-02	112.4	34.18	122.4	59.59	ACTIVE 0.000 -5.000 0.000 1.000 1.000
34.18	0.000	0.000	Stratol_2_8_L_0				
27 D	7.051	-2.5000E-02	116.0	35.26	126.0	61.47	ACTIVE 0.000 -5.200 0.000 1.000 1.000
35.26	0.000	0.000	Stratol_2_8_L_0				
28 D	7.301	-2.4683E-02	120.1	36.51	130.1	63.65	ACTIVE 0.000 -5.400 0.000 1.000 1.000
36.51	0.000	0.000	Stratol_2_8_L_0				
29 D	7.518	-2.4360E-02	123.7	37.59	133.7	65.53	ACTIVE 0.000 -5.600 0.000 1.000 1.000
37.59	0.000	0.000	Stratol_2_8_L_0				
30 D	7.767	-2.4031E-02	127.7	38.83	137.7	67.70	ACTIVE 0.000 -5.800 0.000 1.000 1.000
38.83	0.000	0.000	Stratol_2_8_L_0				
31 D	7.972	-2.3696E-02	131.1	39.86	141.1	69.50	ACTIVE 0.000 -6.000 0.000 1.000 1.000
39.86	0.000	0.000	Stratol_2_8_L_0				
32 D	8.220	-2.3354E-02	135.2	41.10	145.2	71.66	ACTIVE 0.000 -6.200 0.000 1.000 1.000
41.10	0.000	0.000	Stratol_2_8_L_0				
33 D	8.439	-2.3005E-02	138.8	42.19	148.8	73.56	ACTIVE 0.000 -6.400 0.000 1.000 1.000
42.19	0.000	0.000	Stratol_2_8_L_0				
34 D	8.685	-2.2650E-02	142.9	43.43	152.9	75.71	ACTIVE 0.000 -6.600 0.000 1.000 1.000
43.43	0.000	0.000	Stratol_2_8_L_0				
35 D	8.905	-2.2287E-02	146.5	44.52	156.5	77.62	ACTIVE 0.000 -6.800 0.000 1.000 1.000
44.52	0.000	0.000	Stratol_2_8_L_0				
36 D	9.150	-2.1919E-02	150.5	45.75	160.5	79.76	ACTIVE 0.000 -7.000 0.000 1.000 1.000
45.75	0.000	0.000	Stratol_2_8_L_0				
37 D	9.370	-2.1544E-02	154.1	46.85	164.1	81.68	ACTIVE 0.000 -7.200 0.000 1.000 1.000
46.85	0.000	0.000	Stratol_2_8_L_0				
38 D	9.615	-2.1163E-02	158.1	48.07	168.1	83.81	ACTIVE 0.000 -7.400 0.000 1.000 1.000
48.07	0.000	0.000	Stratol_2_8_L_0				
39 D	9.826	-2.0776E-02	161.6	49.13	171.6	85.65	ACTIVE 0.000 -7.600 0.000 1.000 1.000
49.13	0.000	0.000	Stratol_2_8_L_0				
40 D	10.07	-2.0385E-02	165.6	50.35	175.6	87.78	ACTIVE 0.000 -7.800 0.000 1.000 1.000
50.35	0.000	0.000	Stratol_2_8_L_0				
41 D	10.29	-1.9989E-02	169.3	51.45	179.3	89.71	ACTIVE 0.000 -8.000 0.000 1.000 1.000
51.45	0.000	0.000	Stratol_2_8_L_0				
42 D	10.53	-1.9589E-02	173.3	52.67	183.3	91.83	ACTIVE 0.000 -8.200 0.000 1.000 1.000
52.67	0.000	0.000	Stratol_2_8_L_0				
43 D	10.76	-1.9186E-02	176.9	53.78	186.9	93.76	ACTIVE 0.000 -8.400 0.000 1.000 1.000
53.78	0.000	0.000	Stratol_2_8_L_0				
44 D	11.00	-1.8779E-02	180.9	54.99	190.9	95.88	ACTIVE 0.000 -8.600 0.000 1.000 1.000
54.99	0.000	0.000	Stratol_2_8_L_0				
45 D	11.22	-1.8367E-02	184.5	56.10	194.5	97.81	ACTIVE 0.000 -8.800 0.000 1.000 1.000
56.10	0.000	0.000	Stratol_2_8_L_0				
46 D	11.46	-1.7950E-02	188.4	57.28	198.4	99.86	ACTIVE 0.000 -9.000 0.000 1.000 1.000
57.28	0.000	0.000	Stratol_2_8_L_0				
47 D	11.68	-1.7526E-02	192.1	58.39	202.1	101.8	ACTIVE 0.000 -9.200 0.000 1.000 1.000
58.39	0.000	0.000	Stratol_2_8_L_0				
48 D	11.92	-1.7097E-02	196.0	59.60	206.0	103.9	ACTIVE 0.000 -9.400 0.000 1.000 1.000
59.60	0.000	0.000	Stratol_2_8_L_0				
49 D	12.14	-1.6660E-02	199.7	60.71	209.7	105.8	ACTIVE 0.000 -9.600 0.000 1.000 1.000
60.71	0.000	0.000	Stratol_2_8_L_0				
50 D	12.38	-1.6216E-02	203.7	61.92	213.7	107.9	ACTIVE 0.000 -9.800 0.000 1.000 1.000
61.92	0.000	0.000	Stratol_2_8_L_0				



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 155 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      17:58:39
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 6.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.2000	0.000	1.000	1.000
2	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.6000	0.000	1.000	1.000
3	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.000	0.000	1.000	1.000
4	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.400	0.000	1.000	1.000
5	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.800	0.000	1.000	1.000
6	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.200	0.000	1.000	1.000
7	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.600	0.000	1.000	1.000
8	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.000	0.000	1.000	1.000
9	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.400	0.000	1.000	1.000
10	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.800	0.000	1.000	1.000
11	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
12	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
13	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
14	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000
15	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.800	0.000	1.000	1.000
16	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
17	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
18	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
19	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
20	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
21	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
22	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
23	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
24	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
25	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
26	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
27	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
28	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
29	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
30	0.000	--	--	--	--	--	REMOVED	--				

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



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Codifica Documento
E E2 CL GA 2701 002

Rev.
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Foglio
158 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  17:58:39  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 6.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.2436	-1.2436	1.94502E-10	0.24872
2	3.0889	-3.0889	-0.24872	0.86650
3	4.9520	-4.9520	-0.86650	1.8569
4	7.1750	-7.1750	-1.8569	3.2919
5	9.1912	-9.1912	-3.2919	5.1301
6	11.415	-11.415	-5.1301	7.4131
7	13.808	-13.808	-7.4131	10.175
8	16.505	-16.505	-10.175	13.476
9	19.343	-19.343	-13.476	17.344
10	22.472	-22.472	-17.344	21.839
11	25.795	-25.795	-21.839	26.998
12	29.397	-29.397	-26.998	32.877
13	33.197	-33.197	-32.877	39.517
14	37.268	-37.268	-39.517	46.970
15	41.542	-41.542	-46.970	55.279
16	-105.30	105.30	-55.279	34.219
17	-100.57	100.57	-34.219	14.104
18	-95.590	95.590	-14.104	-5.0137
19	-90.396	90.396	5.0137	-23.093
20	-84.943	84.943	23.093	-40.082
21	-79.280	79.280	40.082	-55.938
22	-73.362	73.362	55.938	-70.610
23	-67.230	67.230	70.610	-84.056
24	-60.861	60.861	84.056	-96.228
25	-54.277	54.277	96.228	-107.08
26	-47.441	47.441	107.08	-116.57
27	-40.390	40.390	116.57	-124.65
28	-33.088	33.088	124.65	-131.27
29	-25.570	25.570	131.27	-136.38
30	-17.804	17.804	136.38	-139.94
31	-9.8313	9.8313	139.94	-141.91
32	-1.6111	1.6111	141.91	-142.23
33	6.8277	-6.8277	142.23	-140.87
34	15.513	-15.513	140.87	-137.76
35	24.418	-24.418	137.76	-132.88
36	33.568	-33.568	132.88	-126.17
37	42.938	-42.938	126.17	-117.58
38	52.552	-52.552	117.58	-107.07
39	62.378	-62.378	107.07	-94.592
40	72.448	-72.448	94.592	-80.102
41	82.739	-82.739	80.102	-63.554
42	-96.343	96.343	63.554	-82.823
43	-85.587	85.587	82.823	-99.940
44	-74.589	74.589	99.940	-114.86
45	-63.368	63.368	114.86	-127.53
46	-51.913	51.913	127.53	-137.91
47	-40.236	40.236	137.91	-145.96
48	-28.316	28.316	145.96	-151.62
49	-16.174	16.174	151.62	-154.86
50	-3.7911	3.7911	154.86	-155.62
51	8.8151	-8.8151	155.62	-153.85
52	21.662	-21.662	153.85	-149.52
53	34.733	-34.733	149.52	-142.58
54	48.037	-48.037	142.58	-132.97
55	61.565	-61.565	132.97	-120.66
56	75.334	-75.334	120.66	-105.59
57	89.326	-89.326	105.59	-87.723
58	103.56	-103.56	87.723	-67.012
59	118.01	-118.01	67.012	-43.409
60	132.71	-132.71	43.409	-16.867
61	147.62	-147.62	16.867	12.658
62	162.78	-162.78	-12.658	45.213
63	178.16	-178.16	-45.213	80.844

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 159 di 1221
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64	166.95	-166.95	-80.844	114.23
65	151.23	-151.23	-114.23	144.48
66	130.98	-130.98	-144.48	170.68
67	110.88	-110.88	-170.68	192.85
68	90.982	-90.982	-192.85	211.05
69	71.291	-71.291	-211.05	225.31
70	51.837	-51.837	-225.31	235.67
71	32.616	-32.616	-235.67	242.20
72	13.642	-13.642	-242.20	244.93
73	-5.0971	5.0971	-244.93	243.91
74	-23.595	23.595	-243.91	239.19
75	-41.866	41.866	-239.19	230.81
76	-59.416	59.416	-230.81	218.93
77	-74.431	74.431	-218.93	204.05
78	-86.388	86.388	-204.05	186.77
79	-95.371	95.371	-186.77	167.69
80	-101.42	101.42	-167.69	147.41
81	-104.62	104.62	-147.41	126.48
82	-104.99	104.99	-126.48	105.49
83	-102.60	102.60	-105.49	84.965
84	-97.473	97.473	-84.965	65.469
85	-89.640	89.640	-65.469	47.541
86	-79.108	79.108	-47.541	31.720
87	-65.908	65.908	-31.720	18.538
88	-50.033	50.033	-18.538	8.5313
89	-31.554	31.554	-8.5313	2.2206
90	-11.103	11.103	-2.2206	-6.38875E-12

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      17:58:39
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	156.69	-6.74572E-04	2.31564E-02	0.0000	2633.3	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      17:58:39
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	196.31	-1.26417E-03	5.76121E-03	0.0000	4214.1	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
160 di 1221

```
+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      17:58:39          |
+-----+
```

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	2
2	CONVERGENCE :YES	6
3	CONVERGENCE :YES	4
4	CONVERGENCE :YES	6
5	CONVERGENCE :YES	5
6	CONVERGENCE :YES	5

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME 0.08 [sec]

DATABASE CREATION CPU TIME..... 0.34 [sec]

1.5. Design Assumption : A1+M1+R1 - File di Paratie - File di input (.d)

* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: A1+M1+R1

* Time:lunedì 29 luglio 2019 17:58:39

* 1: Defining general settings

UNIT m kN

TITLE New Project

DELTA 0.2

option param itemax 100

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)

WALL LeftWall_32 0 -18 0 1

* 3: Defining surfaces for wall(s)

SOIL 0_L LeftWall_32 -18 0 1 0

SOIL 0_R LeftWall_32 -18 0 2 180

* 4: Defining soil layers

*

* Soil Profile (Strato1_2_8_L_0)

*

LDATA Strato1_2_8_L_0 0 LeftWall_32

ATREST 0.53 1 1

WEIGHT 19 9 10

PERMEABILITY 1E-06

RESISTANCE 0 29

YOUNG 2E+04 6E+04

ENDL

*

* Soil Profile (Strato2_3095_82743_L_0)

*

LDATA Strato2_3095_82743_L_0 -12.6 LeftWall_32

ATREST 0.5 0.5 1

WEIGHT 20 10 10

PERMEABILITY 0.0001

RESISTANCE 20 35

YOUNG 5E+04 1.5E+05

ENDL

* 5: Defining structural materials

* Steel material: 108 Name=Fe360 E=206000200 kPa

MATERIAL Fe360_108 2.06E+08

* Concrete material: 104 Name=C25/30 E=31475800 kPa

MATERIAL C2530_104 3.148E+07

* Rebar material: 124 Name=acciaio armonico E=200100000 kPa

MATERIAL acciaioarmonico_124 2.001E+08

* Concrete material: 103 Name=C20/25 E=29962000 kPa

MATERIAL C2025_103 2.996E+07

* 6: Defining structural elements

* 6.1: Beams and combined Wall Elements

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
161 di 1221

BEAM WallElement_33 LeftWall_32 -18 0 C2530_104 0.6848 00 00 0

* 6.2: Supports

WIRE Tirante1_429 LeftWall_32 -3 acciaioarmonico_124 1.316E-05 93.94 15 0 0

WIRE Tirante2_1507 LeftWall_32 -8.2 acciaioarmonico_124 2.106E-05 166.7 15 0 0

* 6.3: Strips

STRIP LeftWall_32 2 6 0 40 0 15.2 45

STRIP LeftWall_32 2 6 0 40 0 11.54 30

* 7: Defining Steps

STEP Stage1_31

CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32

CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32

CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32

CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32

CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32

CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32

CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32

CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32

CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32

CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32

CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32

CHANGE Strato2_3095_82743_L_0 U-COHE=20 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32

SETWALL LeftWall_32

GEOM 0 0

WATER -26 0 -18 0 0

ADD WallElement_33

ENDSTEP

STEP Stage2_158

CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32

CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32

SETWALL LeftWall_32

GEOM 0 -3.5

WATER -26 0 -18 0 0

ENDSTEP

STEP Stage3_617

CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32

CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32

SETWALL LeftWall_32

GEOM 0 -3.5

WATER -26 0 -18 0 0

ADD Tirante1_429

ENDSTEP

STEP Stage4_714

CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32

CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32

SETWALL LeftWall_32

GEOM 0 -8.7

WATER -26 0 -18 0 0

ENDSTEP

STEP Stage5_1682

CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32

CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32

SETWALL LeftWall_32

GEOM 0 -8.7

SURCHARGE 10 0 0 -9

WATER -26 0 -18 0 0

ADD Tirante2_1507

ENDSTEP

STEP Stage6_1779

CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32

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ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
162 di 1221

```

CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -12.6
SURCHARGE 0 0 0 0
WATER -26 0 -18 0 0
ENDSTEP

```

1.6. Design Assumption : A1+M1+R1 - File di Paratie - File di output (.out)

```

-----
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019      17:58:40                             |
|                                                                                               |
-----

```

```

*****
*                                                                                               *
*  PARATIE PLUS Non-Linear Spring Engine                                                       *
*                                                                                               *
*  AN ELASTOPLASTIC FINITE ELEMENT PROGRAM                                                    *
*  FOR FLEXIBLE EARTH-RETAINING STRUCTURES                                                    *
*                                                                                               *
*  Written by Ce.A.S. s.r.l. (ITALY)                                                           *
*  with the scientific supervision of                                                           *
*  Roberto Nova - full professor SOIL MECHANICS                                             *
*  at Politecnico di Milano (ITALY)                                                           *
*                                                                                               *
*****
*  RELEASE  2017.1      *Build date:Jul 11, 2017*  *                                           *
*                                                                                               *
*  Ce.A.S.    S.R.L  CENTRO DI ANALISI STRUTTURALE                                           *
*  VIALE     GIUSTINIANO 10                                                                    *
*  20129    M I L A N O (ITALIA)                                                                *
*  TEL.     +39 02 2020221  (+39 035 23 67 19)                                                *
*  FAX      +39 02 29512533  (+39 035 42285 49)                                              *
*  email    bruno.becci@ceas.it                                                                *
*  Web Page www.ceas.it                                                                        *
*****

```

```

JOB : NewProject.BaseDesignSection_28.A1M1R1_3484
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL_STRESS >
ACCEPTED <PARAM ITEMAX 100 >
ACCEPTED <CONTROL HINGES 0 0.0001 0.001 >

```

```

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

```

PRELIMINARY OPERATIONS CPU TIME 0.01 [sec]

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 163 di 1221
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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019      17:58:40                             |
+-----+
```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

NO. OF NODAL POINTS (NUMNP)	91
NO. OF COORDINATES (NCOORD)	2
NO. OF NODE DOFS (NDOF)	2
NO. OF EQUATIONS (NEQ)	182
NO. OF CONSTRAINTS CARDS (NVINC)	0
NO. OF ELEMENT GROUPS (NEG)	5
NO. OF SOLUTION STEPS (NSTE)	6
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ...	0
NO. OF RECORD FROM WALGEN	102
NO. OF LONG NAMES (LASTNAME)	24
LENGTH UNIT CHOICE	3 (M)
FORCE UNIT CHOICE	3 (KN)
MAX PORE PRESSURE TABLE LENGTH	1
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.	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 164 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019          17:58:40    |
|-----+-----
```

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 102

```
1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 100
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -18 0 1
7 : SOIL 0_L LeftWall_32 -18 0 1 0
8 : SOIL 0_R LeftWall_32 -18 0 2 180
9 : LDATA Strato1_2_8_L_0 0 LeftWall_32
10 : ATREST 0.53 1 1
11 : WEIGHT 19 9 10
12 : PERMEABILITY 1E-06
13 : RESISTANCE 0 29
14 : YOUNG 2E+04 6E+04
15 : ENDL
16 : LDATA Strato2_3095_82743_L_0 -12.6 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 20 10 10
19 : PERMEABILITY 0.0001
20 : RESISTANCE 20 35
21 : YOUNG 5E+04 1.5E+05
22 : ENDL
23 : MATERIAL Fe360_108 2.06E+08
24 : MATERIAL C2530_104 3.148E+07
25 : MATERIAL acciaioarmonico_124 2.001E+08
26 : MATERIAL C2025_103 2.996E+07
27 : BEAM WallElement_33 LeftWall_32 -18 0 C2530_104 0.6848 00 00 0
28 : WIRE Tirante1_429 LeftWall_32 -3 acciaioarmonico_124 1.316E-05 93.94 15 0 0
29 : WIRE Tirante2_1507 LeftWall_32 -8.2 acciaioarmonico_124 2.106E-05 166.7 15 0 0
30 : STRIP LeftWall_32 2 6 0 40 0 15.2 45
31 : STRIP LeftWall_32 2 6 0 40 0 11.54 30
32 : STEP Stage1_31
33 : CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32
34 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
35 : CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32
36 : CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32
37 : CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32
38 : CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32
39 : CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32
40 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
41 : CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32
42 : CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32
43 : CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32
44 : CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32
45 : CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
46 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
47 : CHANGE Strato2_3095_82743_L_0 U-COHE=20 LeftWall_32
48 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
49 : SETWALL LeftWall_32
50 : GEOM 0 0
51 : WATER -26 0 -18 0 0
52 : ADD WallElement_33
53 : ENDSTEP
54 : STEP Stage2_158
55 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
56 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
57 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
58 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
59 : SETWALL LeftWall_32
60 : GEOM 0 -3.5
61 : WATER -26 0 -18 0 0
62 : ENDSTEP
63 : STEP Stage3_617
64 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
65 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
66 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
67 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
68 : SETWALL LeftWall_32
69 : GEOM 0 -3.5
70 : WATER -26 0 -18 0 0
71 : ADD Tirante1_429
72 : ENDSTEP
```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
165 di 1221

73 : STEP Stage4_714
74 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
75 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
76 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
77 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
78 : SETWALL LeftWall_32
79 : GEOM 0 -8.7
80 : WATER -26 0 -18 0 0
81 : ENDSTEP
82 : STEP Stage5_1682
83 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
84 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
85 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
86 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
87 : SETWALL LeftWall_32
88 : GEOM 0 -8.7
89 : SURCHARGE 10 0 0 -9
90 : WATER -26 0 -18 0 0
91 : ADD Tirante2_1507
92 : ENDSTEP
93 : STEP Stage6_1779
94 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
95 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
96 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
97 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
98 : SETWALL LeftWall_32
99 : GEOM 0 -12.6
100 : SURCHARGE 0 0 0 0
101 : WATER -26 0 -18 0 0
102 : ENDSTEP



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 166 di 1221
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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019          17:58:40      |
+-----+
    
```

NODAL POINT DATA

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 -10.2000 /	
53	0.0000 -10.4000 /	54	0.0000 -10.6000 /	55	0.0000 -10.8000 /	56	0.0000 -11.0000 /	
57	0.0000 -11.2000 /	58	0.0000 -11.4000 /	59	0.0000 -11.6000 /	60	0.0000 -11.8000 /	
61	0.0000 -12.0000 /	62	0.0000 -12.2000 /	63	0.0000 -12.4000 /	64	0.0000 -12.6000 /	
65	0.0000 -12.8000 /	66	0.0000 -13.0000 /	67	0.0000 -13.2000 /	68	0.0000 -13.4000 /	
69	0.0000 -13.6000 /	70	0.0000 -13.8000 /	71	0.0000 -14.0000 /	72	0.0000 -14.2000 /	
73	0.0000 -14.4000 /	74	0.0000 -14.6000 /	75	0.0000 -14.8000 /	76	0.0000 -15.0000 /	
77	0.0000 -15.2000 /	78	0.0000 -15.4000 /	79	0.0000 -15.6000 /	80	0.0000 -15.8000 /	
81	0.0000 -16.0000 /	82	0.0000 -16.2000 /	83	0.0000 -16.4000 /	84	0.0000 -16.6000 /	
85	0.0000 -16.8000 /	86	0.0000 -17.0000 /	87	0.0000 -17.2000 /	88	0.0000 -17.4000 /	
89	0.0000 -17.6000 /	90	0.0000 -17.8000 /	91	0.0000 -18.0000 /			

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019          17:58:40      |
+-----+
    
```

ELEMENT GROUP NO. 1

O_L :
5 91 0 1 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0

.....2D PLASTIC SOIL

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	active
6	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

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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.								Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 167 di 1221
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	1	0.2000	0.000	0.000	0.000	1.000					
22	22	1	0.2000	0.000	0.000	0.000	1.000					
23	23	1	0.2000	0.000	0.000	0.000	1.000					
24	24	1	0.2000	0.000	0.000	0.000	1.000					
25	25	1	0.2000	0.000	0.000	0.000	1.000					
26	26	1	0.2000	0.000	0.000	0.000	1.000					
27	27	1	0.2000	0.000	0.000	0.000	1.000					
28	28	1	0.2000	0.000	0.000	0.000	1.000					
29	29	1	0.2000	0.000	0.000	0.000	1.000					
30	30	1	0.2000	0.000	0.000	0.000	1.000					
31	31	1	0.2000	0.000	0.000	0.000	1.000					
32	32	1	0.2000	0.000	0.000	0.000	1.000					
33	33	1	0.2000	0.000	0.000	0.000	1.000					
34	34	1	0.2000	0.000	0.000	0.000	1.000					
35	35	1	0.2000	0.000	0.000	0.000	1.000					
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37	37	1	0.2000	0.000	0.000	0.000	1.000					
38	38	1	0.2000	0.000	0.000	0.000	1.000					
39	39	1	0.2000	0.000	0.000	0.000	1.000					
40	40	1	0.2000	0.000	0.000	0.000	1.000					
41	41	1	0.2000	0.000	0.000	0.000	1.000					
42	42	1	0.2000	0.000	0.000	0.000	1.000					
43	43	1	0.2000	0.000	0.000	0.000	1.000					
44	44	1	0.2000	0.000	0.000	0.000	1.000					
45	45	1	0.2000	0.000	0.000	0.000	1.000					
46	46	1	0.2000	0.000	0.000	0.000	1.000					
47	47	1	0.2000	0.000	0.000	0.000	1.000					
48	48	1	0.2000	0.000	0.000	0.000	1.000					
49	49	1	0.2000	0.000	0.000	0.000	1.000					
50	50	1	0.2000	0.000	0.000	0.000	1.000					
51	51	1	0.2000	0.000	0.000	0.000	1.000					
52	52	1	0.2000	0.000	0.000	0.000	1.000					
53	53	1	0.2000	0.000	0.000	0.000	1.000					
54	54	1	0.2000	0.000	0.000	0.000	1.000					
55	55	1	0.2000	0.000	0.000	0.000	1.000					
56	56	1	0.2000	0.000	0.000	0.000	1.000					
57	57	1	0.2000	0.000	0.000	0.000	1.000					
58	58	1	0.2000	0.000	0.000	0.000	1.000					
59	59	1	0.2000	0.000	0.000	0.000	1.000					
60	60	1	0.2000	0.000	0.000	0.000	1.000					
61	61	1	0.2000	0.000	0.000	0.000	1.000					
62	62	1	0.2000	0.000	0.000	0.000	1.000					
63	63	1	0.2000	0.000	0.000	0.000	1.000					
64	64	1	0.2000	0.000	0.000	0.000	1.000					
65	65	2	0.2000	0.000	0.000	0.000	1.000					
66	66	2	0.2000	0.000	0.000	0.000	1.000					
67	67	2	0.2000	0.000	0.000	0.000	1.000					
68	68	2	0.2000	0.000	0.000	0.000	1.000					
69	69	2	0.2000	0.000	0.000	0.000	1.000					
70	70	2	0.2000	0.000	0.000	0.000	1.000					
71	71	2	0.2000	0.000	0.000	0.000	1.000					
72	72	2	0.2000	0.000	0.000	0.000	1.000					
73	73	2	0.2000	0.000	0.000	0.000	1.000					
74	74	2	0.2000	0.000	0.000	0.000	1.000					
75	75	2	0.2000	0.000	0.000	0.000	1.000					
76	76	2	0.2000	0.000	0.000	0.000	1.000					
77	77	2	0.2000	0.000	0.000	0.000	1.000					
78	78	2	0.2000	0.000	0.000	0.000	1.000					
79	79	2	0.2000	0.000	0.000	0.000	1.000					
80	80	2	0.2000	0.000	0.000	0.000	1.000					
81	81	2	0.2000	0.000	0.000	0.000	1.000					
82	82	2	0.2000	0.000	0.000	0.000	1.000					
83	83	2	0.2000	0.000	0.000	0.000	1.000					
84	84	2	0.2000	0.000	0.000	0.000	1.000					
85	85	2	0.2000	0.000	0.000	0.000	1.000					
86	86	2	0.2000	0.000	0.000	0.000	1.000					
87	87	2	0.2000	0.000	0.000	0.000	1.000					



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 168 di 1221
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88	88	2	0.2000	0.000	0.000	0.000	1.000
89	89	2	0.2000	0.000	0.000	0.000	1.000
90	90	2	0.2000	0.000	0.000	0.000	1.000
91	91	2	0.1000	0.000	0.000	0.000	1.000

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|              PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|              NewProject.BaseDesignSection_28.A1MIR1_3484  |
|              Exe Time :29 July 2019  17:58:40  |
|              |
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```

ELEMENT GROUP NO. 2

O_R :
5 91 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0

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

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	active
6	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

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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000
24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	0.2000	0.000	0.000	0.000	2.000
28	28	1	0.2000	0.000	0.000	0.000	2.000
29	29	1	0.2000	0.000	0.000	0.000	2.000
30	30	1	0.2000	0.000	0.000	0.000	2.000
31	31	1	0.2000	0.000	0.000	0.000	2.000
32	32	1	0.2000	0.000	0.000	0.000	2.000
33	33	1	0.2000	0.000	0.000	0.000	2.000
34	34	1	0.2000	0.000	0.000	0.000	2.000
35	35	1	0.2000	0.000	0.000	0.000	2.000

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.								Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 169 di 1221
36	36	1	0.2000	0.000	0.000	0.000	2.000					
37	37	1	0.2000	0.000	0.000	0.000	2.000					
38	38	1	0.2000	0.000	0.000	0.000	2.000					
39	39	1	0.2000	0.000	0.000	0.000	2.000					
40	40	1	0.2000	0.000	0.000	0.000	2.000					
41	41	1	0.2000	0.000	0.000	0.000	2.000					
42	42	1	0.2000	0.000	0.000	0.000	2.000					
43	43	1	0.2000	0.000	0.000	0.000	2.000					
44	44	1	0.2000	0.000	0.000	0.000	2.000					
45	45	1	0.2000	0.000	0.000	0.000	2.000					
46	46	1	0.2000	0.000	0.000	0.000	2.000					
47	47	1	0.2000	0.000	0.000	0.000	2.000					
48	48	1	0.2000	0.000	0.000	0.000	2.000					
49	49	1	0.2000	0.000	0.000	0.000	2.000					
50	50	1	0.2000	0.000	0.000	0.000	2.000					
51	51	1	0.2000	0.000	0.000	0.000	2.000					
52	52	1	0.2000	0.000	0.000	0.000	2.000					
53	53	1	0.2000	0.000	0.000	0.000	2.000					
54	54	1	0.2000	0.000	0.000	0.000	2.000					
55	55	1	0.2000	0.000	0.000	0.000	2.000					
56	56	1	0.2000	0.000	0.000	0.000	2.000					
57	57	1	0.2000	0.000	0.000	0.000	2.000					
58	58	1	0.2000	0.000	0.000	0.000	2.000					
59	59	1	0.2000	0.000	0.000	0.000	2.000					
60	60	1	0.2000	0.000	0.000	0.000	2.000					
61	61	1	0.2000	0.000	0.000	0.000	2.000					
62	62	1	0.2000	0.000	0.000	0.000	2.000					
63	63	1	0.2000	0.000	0.000	0.000	2.000					
64	64	1	0.2000	0.000	0.000	0.000	2.000					
65	65	2	0.2000	0.000	0.000	0.000	2.000					
66	66	2	0.2000	0.000	0.000	0.000	2.000					
67	67	2	0.2000	0.000	0.000	0.000	2.000					
68	68	2	0.2000	0.000	0.000	0.000	2.000					
69	69	2	0.2000	0.000	0.000	0.000	2.000					
70	70	2	0.2000	0.000	0.000	0.000	2.000					
71	71	2	0.2000	0.000	0.000	0.000	2.000					
72	72	2	0.2000	0.000	0.000	0.000	2.000					
73	73	2	0.2000	0.000	0.000	0.000	2.000					
74	74	2	0.2000	0.000	0.000	0.000	2.000					
75	75	2	0.2000	0.000	0.000	0.000	2.000					
76	76	2	0.2000	0.000	0.000	0.000	2.000					
77	77	2	0.2000	0.000	0.000	0.000	2.000					
78	78	2	0.2000	0.000	0.000	0.000	2.000					
79	79	2	0.2000	0.000	0.000	0.000	2.000					
80	80	2	0.2000	0.000	0.000	0.000	2.000					
81	81	2	0.2000	0.000	0.000	0.000	2.000					
82	82	2	0.2000	0.000	0.000	0.000	2.000					
83	83	2	0.2000	0.000	0.000	0.000	2.000					
84	84	2	0.2000	0.000	0.000	0.000	2.000					
85	85	2	0.2000	0.000	0.000	0.000	2.000					
86	86	2	0.2000	0.000	0.000	0.000	2.000					
87	87	2	0.2000	0.000	0.000	0.000	2.000					
88	88	2	0.2000	0.000	0.000	0.000	2.000					
89	89	2	0.2000	0.000	0.000	0.000	2.000					
90	90	2	0.2000	0.000	0.000	0.000	2.000					
91	91	2	0.1000	0.000	0.000	0.000	2.000					

GENERAL CONTRACTOR



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Codifica Documento
E E2 CL GA 2701 002

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          17:58:40          |
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ELEMENT GROUP NO. 3

```

WallElement_33          :
  2 90 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 1 0

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

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element group behaviour throughout stage analysis

```

stage  status
-----

```

- 1 active
- 2 active
- 3 active
- 4 active
- 5 active
- 6 active

material set no. 1

```

prop( 1) young modulus      0.314800E+08
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future .....0.280300E-43

```

no. of step variable items: 1

```

step  inertia multiplier
-----

```

- 1 1.000
- 2 1.000
- 3 1.000
- 4 1.000
- 5 1.000
- 6 1.000

element data

el	na	nb	mat	erc1	erc2	thick	by-i	by-j
1	1	2	1	0.000	0.000	0.6848	0.000	0.000
2	2	3	1	0.000	0.000	0.6848	0.000	0.000
3	3	4	1	0.000	0.000	0.6848	0.000	0.000
4	4	5	1	0.000	0.000	0.6848	0.000	0.000
5	5	6	1	0.000	0.000	0.6848	0.000	0.000
6	6	7	1	0.000	0.000	0.6848	0.000	0.000
7	7	8	1	0.000	0.000	0.6848	0.000	0.000
8	8	9	1	0.000	0.000	0.6848	0.000	0.000
9	9	10	1	0.000	0.000	0.6848	0.000	0.000
10	10	11	1	0.000	0.000	0.6848	0.000	0.000
11	11	12	1	0.000	0.000	0.6848	0.000	0.000
12	12	13	1	0.000	0.000	0.6848	0.000	0.000
13	13	14	1	0.000	0.000	0.6848	0.000	0.000
14	14	15	1	0.000	0.000	0.6848	0.000	0.000
15	15	16	1	0.000	0.000	0.6848	0.000	0.000
16	16	17	1	0.000	0.000	0.6848	0.000	0.000
17	17	18	1	0.000	0.000	0.6848	0.000	0.000
18	18	19	1	0.000	0.000	0.6848	0.000	0.000
19	19	20	1	0.000	0.000	0.6848	0.000	0.000
20	20	21	1	0.000	0.000	0.6848	0.000	0.000
21	21	22	1	0.000	0.000	0.6848	0.000	0.000
22	22	23	1	0.000	0.000	0.6848	0.000	0.000
23	23	24	1	0.000	0.000	0.6848	0.000	0.000
24	24	25	1	0.000	0.000	0.6848	0.000	0.000
25	25	26	1	0.000	0.000	0.6848	0.000	0.000
26	26	27	1	0.000	0.000	0.6848	0.000	0.000
27	27	28	1	0.000	0.000	0.6848	0.000	0.000
28	28	29	1	0.000	0.000	0.6848	0.000	0.000
29	29	30	1	0.000	0.000	0.6848	0.000	0.000
30	30	31	1	0.000	0.000	0.6848	0.000	0.000
31	31	32	1	0.000	0.000	0.6848	0.000	0.000
32	32	33	1	0.000	0.000	0.6848	0.000	0.000
33	33	34	1	0.000	0.000	0.6848	0.000	0.000
34	34	35	1	0.000	0.000	0.6848	0.000	0.000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 171 di 1221
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35	35	36	1	0.000	0.000	0.6848	0.000	0.000
36	36	37	1	0.000	0.000	0.6848	0.000	0.000
37	37	38	1	0.000	0.000	0.6848	0.000	0.000
38	38	39	1	0.000	0.000	0.6848	0.000	0.000
39	39	40	1	0.000	0.000	0.6848	0.000	0.000
40	40	41	1	0.000	0.000	0.6848	0.000	0.000
41	41	42	1	0.000	0.000	0.6848	0.000	0.000
42	42	43	1	0.000	0.000	0.6848	0.000	0.000
43	43	44	1	0.000	0.000	0.6848	0.000	0.000
44	44	45	1	0.000	0.000	0.6848	0.000	0.000
45	45	46	1	0.000	0.000	0.6848	0.000	0.000
46	46	47	1	0.000	0.000	0.6848	0.000	0.000
47	47	48	1	0.000	0.000	0.6848	0.000	0.000
48	48	49	1	0.000	0.000	0.6848	0.000	0.000
49	49	50	1	0.000	0.000	0.6848	0.000	0.000
50	50	51	1	0.000	0.000	0.6848	0.000	0.000
51	51	52	1	0.000	0.000	0.6848	0.000	0.000
52	52	53	1	0.000	0.000	0.6848	0.000	0.000
53	53	54	1	0.000	0.000	0.6848	0.000	0.000
54	54	55	1	0.000	0.000	0.6848	0.000	0.000
55	55	56	1	0.000	0.000	0.6848	0.000	0.000
56	56	57	1	0.000	0.000	0.6848	0.000	0.000
57	57	58	1	0.000	0.000	0.6848	0.000	0.000
58	58	59	1	0.000	0.000	0.6848	0.000	0.000
59	59	60	1	0.000	0.000	0.6848	0.000	0.000
60	60	61	1	0.000	0.000	0.6848	0.000	0.000
61	61	62	1	0.000	0.000	0.6848	0.000	0.000
62	62	63	1	0.000	0.000	0.6848	0.000	0.000
63	63	64	1	0.000	0.000	0.6848	0.000	0.000
64	64	65	1	0.000	0.000	0.6848	0.000	0.000
65	65	66	1	0.000	0.000	0.6848	0.000	0.000
66	66	67	1	0.000	0.000	0.6848	0.000	0.000
67	67	68	1	0.000	0.000	0.6848	0.000	0.000
68	68	69	1	0.000	0.000	0.6848	0.000	0.000
69	69	70	1	0.000	0.000	0.6848	0.000	0.000
70	70	71	1	0.000	0.000	0.6848	0.000	0.000
71	71	72	1	0.000	0.000	0.6848	0.000	0.000
72	72	73	1	0.000	0.000	0.6848	0.000	0.000
73	73	74	1	0.000	0.000	0.6848	0.000	0.000
74	74	75	1	0.000	0.000	0.6848	0.000	0.000
75	75	76	1	0.000	0.000	0.6848	0.000	0.000
76	76	77	1	0.000	0.000	0.6848	0.000	0.000
77	77	78	1	0.000	0.000	0.6848	0.000	0.000
78	78	79	1	0.000	0.000	0.6848	0.000	0.000
79	79	80	1	0.000	0.000	0.6848	0.000	0.000
80	80	81	1	0.000	0.000	0.6848	0.000	0.000
81	81	82	1	0.000	0.000	0.6848	0.000	0.000
82	82	83	1	0.000	0.000	0.6848	0.000	0.000
83	83	84	1	0.000	0.000	0.6848	0.000	0.000
84	84	85	1	0.000	0.000	0.6848	0.000	0.000
85	85	86	1	0.000	0.000	0.6848	0.000	0.000
86	86	87	1	0.000	0.000	0.6848	0.000	0.000
87	87	88	1	0.000	0.000	0.6848	0.000	0.000
88	88	89	1	0.000	0.000	0.6848	0.000	0.000
89	89	90	1	0.000	0.000	0.6848	0.000	0.000
90	90	91	1	0.000	0.000	0.6848	0.000	0.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
172 di 1221

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484 |
|          Exe Time :29 July 2019      17:58:40      |
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```

ELEMENT GROUP NO.  4

Tirante1_429      :
 6  1  0  1  0  0  0  0  0  0  0  0  0  0  0  1  0  0  2  0
.....
.....2D POST-TENSION ANCHOR.....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
 1  inactive
 2  inactive
 3  active
 4  active
 5  active
 6  active

```

```

material set no.  1

prop( 1) angle      15.0000
prop( 2) young modulus 0.200100E+09
prop( 3) modification time 0.00000
prop( 4) new young modulus 0.00000

```

```

no. of step variable items:  2
step  -ve lim  +ve lim
-----
 1  0.000  0.000
 2  0.000  0.000
 3  0.000  0.000
 4  0.000  0.000
 5  0.000  0.000
 6  0.000  0.000

```

```

element data

el  n  mat  a/l  pinit  yieldc  yieldt
-----
 1  16  1  0.1316E-04  93.94  0.000  0.000

```

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484 |
|          Exe Time :29 July 2019      17:58:40      |
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```

```

ELEMENT GROUP NO.  5

Tirante2_1507      :
 6  1  0  1  0  0  0  0  0  0  0  0  0  0  0  1  0  0  2  0
.....
.....2D POST-TENSION ANCHOR.....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
 1  inactive
 2  inactive
 3  inactive
 4  inactive
 5  active
 6  active

```

```

material set no.  1

prop( 1) angle      15.0000
prop( 2) young modulus 0.200100E+09
prop( 3) modification time 0.00000

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
173 di 1221

prop(4) new young modulus 0.00000

no. of step variable items: 2
step -ve lim +ve lim

step	-ve lim	+ve lim
1	0.000	0.000
2	0.000	0.000
3	0.000	0.000
4	0.000	0.000
5	0.000	0.000
6	0.000	0.000

element data

el	n	mat	a/l	pinit	yieldc	yieldt
1	42	1	0.2106E-04	166.7	0.000	0.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  17:58:40  |
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```

NO. OF NODAL LOADS (NLOAD) 0
 NO. OF LOAD CURVES (NL CUR) 12
 MAXIMUM POINTS/LCURVE (NPTM)..... 5

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  17:58:40  |
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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
7.00000	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
7.00000	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
7.00000	0.0000E+00

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
174 di 1221

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
4.20000	0.0000E+00
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
5.20000	0.0000E+00
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
6.20000	0.0000E+00
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
7.00000	0.1000E+01

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
175 di 1221

LOAD FUNCTION NUMBER = 11
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 12
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
7.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|          NewProject.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          17:58:40          |
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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
STEP	4	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	4	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	6	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	6	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
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|          NewProject.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          17:58:40          |
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```

NO. OF LAYERS 2
NO. OF DATA PER LAYER..... 100

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
176 di 1221

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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  17:58:40  |
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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    >= 16.000    (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL  >= 0.0000   (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. 9<U-FRICT >= 29.000   (BOTH WALLS)
ITEM NO. 10<U-KA  >= 0.30400  WALL NO.    1
ITEM NO. 11<U-KP  >= 4.0410   WALL NO.    1
ITEM NO. 12<K0-NC >= 0.53000   (BOTH WALLS)
ITEM NO. 13<NEXP  >= 1.0000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 20000.   (BOTH WALLS)
ITEM NO. 18<EUR   >= 60000.   (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 29.000   (BOTH WALLS)
ITEM NO. 60<D-KA  >= 0.30400  WALL NO.    1
ITEM NO. 61<D-KP  >= 4.0410   WALL NO.    1
ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

```

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

```

ITEM NO. 1<NAME    >= 17.000    (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL  >= -12.600   (BOTH WALLS)
ITEM NO. 4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000   (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000   (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO. 8<U-COHE >= 20.000   (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 35.000   (BOTH WALLS)
ITEM NO. 10<U-KA  >= 0.23500  WALL NO.    1
ITEM NO. 11<U-KP  >= 5.8790   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   >= 50000.   (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.15000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 58<D-COHE >= 20.000   (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 35.000   (BOTH WALLS)
ITEM NO. 60<D-KA  >= 0.23500  WALL NO.    1
ITEM NO. 61<D-KP  >= 5.8790   WALL NO.    1
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

```

LAYER DESCRIPTORS FOR STEP NO. 2

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

```

ITEM NO. 1<NAME    >= 16.000    (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL  >= 0.0000   (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. 9<U-FRICT >= 29.000   (BOTH WALLS)
ITEM NO. 10<U-KA  >= 0.30400  WALL NO.    1
ITEM NO. 11<U-KP  >= 4.0410   WALL NO.    1
ITEM NO. 12<K0-NC >= 0.53000   (BOTH WALLS)
ITEM NO. 13<NEXP  >= 1.0000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)

```

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 177 di 1221
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ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.600 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.600 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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)

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 178 di 1221
---------	------------------	-------------	---	-----------	-----------------------

ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.600 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 5

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 179 di 1221
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ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 5

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.600 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 6

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 6

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 6

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.600 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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)



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 180 di 1221
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ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)
    
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DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 12 VALUES

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| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                       |
| NewProject.BaseDesignSection_28.A1M1R1_3484 |
| Exe Time :29 July 2019 17:58:40 |
|                                                                                       |
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PHASE DESCRIPTORS

STEP NO.	1	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-3.500	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 181 di 1221
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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

LEFT WALL      RIGHT WALL
Y              0.000      -0.9990E+30
Z-PC          0.000      0.000
Z-EXCAVATION  -3.500      0.000
Z-WATER_TABLE -26.00      -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL 0.000      0.000
ZQ            0.000      0.000
DZW_OF_THE_WATER_TABLE 0.000      0.000
QS_ON_THE_EXCAVATION_SIDE 0.000      0.000
ZQS          -0.9990E+30 -0.9990E+30
ZCUT         0.000      0.000
BALANCE LEVEL FOR PORE PRESSURES -18.00      -18.00
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

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STEP NO.      4

LEFT WALL      RIGHT WALL
Y              0.000      -0.9990E+30
Z-PC          0.000      0.000
Z-EXCAVATION  -8.700      0.000
Z-WATER_TABLE -26.00      -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL 0.000      0.000
ZQ            0.000      0.000
DZW_OF_THE_WATER_TABLE 0.000      0.000
QS_ON_THE_EXCAVATION_SIDE 0.000      0.000
ZQS          -0.9990E+30 -0.9990E+30
ZCUT         0.000      0.000
BALANCE LEVEL FOR PORE PRESSURES -18.00      -18.00
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
    
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 182 di 1221
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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 4

STEP NO.	5		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-8.700	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		10.00	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-9.000	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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 5

STEP NO.	6		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-12.60	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	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		-18.00	-18.00
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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
183 di 1221

-----end of step 6

LEFT-HAND WALL

LOWER LEVEL -18.00000
UPPER LEVEL 0.00000

RIGHT-HAND WALL

LOWER LEVEL -18.00000
UPPER LEVEL 0.00000

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| PARATIEPLUS(TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |

| NewProject.BaseDesignSection_28.A1M1R1_3484 |
| Exe Time :29 July 2019 17:58:40 |

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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 2

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

ACTIVATION TIME 2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 6.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 0.000000000000000E+000
FOUNDATION WIDTH (B) 40.000000000000000
ZETA-F..... 0.000000000000000E+000
Q-F 15.200000000000000
BETA 45.000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

INPUT DATA FOR INITIAL STRESS SET NO. 2
PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

ACTIVATION TIME 2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 6.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 0.000000000000000E+000
FOUNDATION WIDTH (B) 40.000000000000000
ZETA-F..... 0.000000000000000E+000
Q-F 11.540000000000000
BETA 30.000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION 4412

NO. OF D.P.W FOR THIS AREA 10847
MAX NO. OF D.P.W. AVAILABLE 81920
** MAX NO OF ITERATIONS SET TO 100

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7339E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 34.34 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7339E+05 RDR = 0.000
RATIOT= 0.000 RATIOR= 0.000
MAX UN= 0.000 IEQ= 182 NODE 91 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7339E+05 RIMNOR= 0.000

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 185 di 1221						
8 D	2.820	0.000	26.60 14.10	26.60	14.10	V-C	1.4147E+04	-1.400	0.000	1.000	1.000
14.10	0.000	0.000	Stratol_2_8_L_0								
9 D	3.222	0.000	30.40 16.11	30.40	16.11	V-C	1.4147E+04	-1.600	0.000	1.000	1.000
16.11	0.000	0.000	Stratol_2_8_L_0								
10 D	3.625	0.000	34.20 18.13	34.20	18.13	V-C	1.4147E+04	-1.800	0.000	1.000	1.000
18.13	0.000	0.000	Stratol_2_8_L_0								
11 D	4.028	0.000	38.00 20.14	38.00	20.14	V-C	1.4147E+04	-2.000	0.000	1.000	1.000
20.14	0.000	0.000	Stratol_2_8_L_0								
12 D	4.431	0.000	41.80 22.15	41.80	22.15	V-C	1.4147E+04	-2.200	0.000	1.000	1.000
22.15	0.000	0.000	Stratol_2_8_L_0								
13 D	4.834	0.000	45.60 24.17	45.60	24.17	V-C	1.4147E+04	-2.400	0.000	1.000	1.000
24.17	0.000	0.000	Stratol_2_8_L_0								
14 D	5.236	0.000	49.40 26.18	49.40	26.18	V-C	1.4147E+04	-2.600	0.000	1.000	1.000
26.18	0.000	0.000	Stratol_2_8_L_0								
15 D	5.639	0.000	53.20 28.20	53.20	28.20	V-C	1.4147E+04	-2.800	0.000	1.000	1.000
28.20	0.000	0.000	Stratol_2_8_L_0								
16 D	6.042	0.000	57.00 30.21	57.00	30.21	V-C	1.4147E+04	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Stratol_2_8_L_0								
17 D	6.445	0.000	60.80 32.22	60.80	32.22	V-C	1.4147E+04	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Stratol_2_8_L_0								
18 D	6.848	0.000	64.60 34.24	64.60	34.24	V-C	1.4147E+04	-3.400	0.000	1.000	1.000
34.24	0.000	0.000	Stratol_2_8_L_0								
19 D	7.250	0.000	68.40 36.25	68.40	36.25	V-C	1.4147E+04	-3.600	0.000	1.000	1.000
36.25	0.000	0.000	Stratol_2_8_L_0								
20 D	7.653	0.000	72.20 38.27	72.20	38.27	V-C	1.4147E+04	-3.800	0.000	1.000	1.000
38.27	0.000	0.000	Stratol_2_8_L_0								
21 D	8.056	0.000	76.00 40.28	76.00	40.28	V-C	1.4147E+04	-4.000	0.000	1.000	1.000
40.28	0.000	0.000	Stratol_2_8_L_0								
22 D	8.459	0.000	79.80 42.29	79.80	42.29	V-C	1.4147E+04	-4.200	0.000	1.000	1.000
42.29	0.000	0.000	Stratol_2_8_L_0								
23 D	8.862	0.000	83.60 44.31	83.60	44.31	V-C	1.4147E+04	-4.400	0.000	1.000	1.000
44.31	0.000	0.000	Stratol_2_8_L_0								
24 D	9.264	0.000	87.40 46.32	87.40	46.32	V-C	1.4147E+04	-4.600	0.000	1.000	1.000
46.32	0.000	0.000	Stratol_2_8_L_0								
25 D	9.667	0.000	91.20 48.34	91.20	48.34	V-C	1.4147E+04	-4.800	0.000	1.000	1.000
48.34	0.000	0.000	Stratol_2_8_L_0								
26 D	10.07	0.000	95.00 50.35	95.00	50.35	V-C	1.4147E+04	-5.000	0.000	1.000	1.000
50.35	0.000	0.000	Stratol_2_8_L_0								
27 D	10.47	0.000	98.80 52.36	98.80	52.36	V-C	1.4147E+04	-5.200	0.000	1.000	1.000
52.36	0.000	0.000	Stratol_2_8_L_0								
28 D	10.88	0.000	102.6 54.38	102.6	54.38	V-C	1.4147E+04	-5.400	0.000	1.000	1.000
54.38	0.000	0.000	Stratol_2_8_L_0								
29 D	11.28	0.000	106.4 56.39	106.4	56.39	V-C	1.4147E+04	-5.600	0.000	1.000	1.000
56.39	0.000	0.000	Stratol_2_8_L_0								
30 D	11.68	0.000	110.2 58.41	110.2	58.41	V-C	1.4147E+04	-5.800	0.000	1.000	1.000
58.41	0.000	0.000	Stratol_2_8_L_0								
31 D	12.08	0.000	114.0 60.42	114.0	60.42	V-C	1.4147E+04	-6.000	0.000	1.000	1.000
60.42	0.000	0.000	Stratol_2_8_L_0								
32 D	12.49	0.000	117.8 62.43	117.8	62.43	V-C	1.4147E+04	-6.200	0.000	1.000	1.000
62.43	0.000	0.000	Stratol_2_8_L_0								
33 D	12.89	0.000	121.6 64.45	121.6	64.45	V-C	1.4147E+04	-6.400	0.000	1.000	1.000
64.45	0.000	0.000	Stratol_2_8_L_0								
34 D	13.29	0.000	125.4 66.46	125.4	66.46	V-C	1.4147E+04	-6.600	0.000	1.000	1.000
66.46	0.000	0.000	Stratol_2_8_L_0								
35 D	13.70	0.000	129.2 68.48	129.2	68.48	V-C	1.4147E+04	-6.800	0.000	1.000	1.000
68.48	0.000	0.000	Stratol_2_8_L_0								
36 D	14.10	0.000	133.0 70.49	133.0	70.49	V-C	1.4147E+04	-7.000	0.000	1.000	1.000
70.49	0.000	0.000	Stratol_2_8_L_0								
37 D	14.50	0.000	136.8 72.50	136.8	72.50	V-C	1.4147E+04	-7.200	0.000	1.000	1.000
72.50	0.000	0.000	Stratol_2_8_L_0								
38 D	14.90	0.000	140.6 74.52	140.6	74.52	V-C	1.4147E+04	-7.400	0.000	1.000	1.000
74.52	0.000	0.000	Stratol_2_8_L_0								
39 D	15.31	0.000	144.4 76.53	144.4	76.53	V-C	1.4147E+04	-7.600	0.000	1.000	1.000
76.53	0.000	0.000	Stratol_2_8_L_0								
40 D	15.71	0.000	148.2 78.55	148.2	78.55	V-C	1.4147E+04	-7.800	0.000	1.000	1.000
78.55	0.000	0.000	Stratol_2_8_L_0								
41 D	16.11	0.000	152.0 80.56	152.0	80.56	V-C	1.4147E+04	-8.000	0.000	1.000	1.000
80.56	0.000	0.000	Stratol_2_8_L_0								
42 D	16.51	0.000	155.8 82.57	155.8	82.57	V-C	1.4147E+04	-8.200	0.000	1.000	1.000
82.57	0.000	0.000	Stratol_2_8_L_0								
43 D	16.92	0.000	159.6 84.59	159.6	84.59	V-C	1.4147E+04	-8.400	0.000	1.000	1.000
84.59	0.000	0.000	Stratol_2_8_L_0								
44 D	17.32	0.000	163.4 86.60	163.4	86.60	V-C	1.4147E+04	-8.600	0.000	1.000	1.000
86.60	0.000	0.000	Stratol_2_8_L_0								
45 D	17.72	0.000	167.2 88.62	167.2	88.62	V-C	1.4147E+04	-8.800	0.000	1.000	1.000
88.62	0.000	0.000	Stratol_2_8_L_0								
46 D	18.13	0.000	171.0 90.63	171.0	90.63	V-C	1.4147E+04	-9.000	0.000	1.000	1.000
90.63	0.000	0.000	Stratol_2_8_L_0								
47 D	18.53	0.000	174.8 92.64	174.8	92.64	V-C	1.4147E+04	-9.200	0.000	1.000	1.000
92.64	0.000	0.000	Stratol_2_8_L_0								
48 D	18.93	0.000	178.6 94.66	178.6	94.66	V-C	1.4147E+04	-9.400	0.000	1.000	1.000
94.66	0.000	0.000	Stratol_2_8_L_0								
49 D	19.33	0.000	182.4 96.67	182.4	96.67	V-C	1.4147E+04	-9.600	0.000	1.000	1.000
96.67	0.000	0.000	Stratol_2_8_L_0								
50 D	19.74	0.000	186.2 98.69	186.2	98.69	V-C	1.4147E+04	-9.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 186 di 1221
98.69	0.000	0.000	Strato1_2_8_L_0		
51 D	20.14	0.000	190.0 100.7	190.0	100.7
100.7	0.000	0.000	Strato1_2_8_L_0		
52 D	20.54	0.000	193.8 102.7	193.8	102.7
102.7	0.000	0.000	Strato1_2_8_L_0		
53 D	20.95	0.000	197.6 104.7	197.6	104.7
104.7	0.000	0.000	Strato1_2_8_L_0		
54 D	21.35	0.000	201.4 106.7	201.4	106.7
106.7	0.000	0.000	Strato1_2_8_L_0		
55 D	21.75	0.000	205.2 108.8	205.2	108.8
108.8	0.000	0.000	Strato1_2_8_L_0		
56 D	22.15	0.000	209.0 110.8	209.0	110.8
110.8	0.000	0.000	Strato1_2_8_L_0		
57 D	22.56	0.000	212.8 112.8	212.8	112.8
112.8	0.000	0.000	Strato1_2_8_L_0		
58 D	22.96	0.000	216.6 114.8	216.6	114.8
114.8	0.000	0.000	Strato1_2_8_L_0		
59 D	23.36	0.000	220.4 116.8	220.4	116.8
116.8	0.000	0.000	Strato1_2_8_L_0		
60 D	23.77	0.000	224.2 118.8	224.2	118.8
118.8	0.000	0.000	Strato1_2_8_L_0		
61 D	24.17	0.000	228.0 120.8	228.0	120.8
120.8	0.000	0.000	Strato1_2_8_L_0		
62 D	24.57	0.000	231.8 122.9	231.8	122.9
122.9	0.000	0.000	Strato1_2_8_L_0		
63 D	24.97	0.000	235.6 124.9	235.6	124.9
124.9	0.000	0.000	Strato1_2_8_L_0		
64 D	23.94	0.000	239.4 119.7	239.4	119.7
119.7	0.000	0.000	Strato2_3095_82743_L_0		
65 D	24.34	0.000	243.4 121.7	243.4	121.7
121.7	0.000	0.000	Strato2_3095_82743_L_0		
66 D	24.74	0.000	247.4 123.7	247.4	123.7
123.7	0.000	0.000	Strato2_3095_82743_L_0		
67 D	25.14	0.000	251.4 125.7	251.4	125.7
125.7	0.000	0.000	Strato2_3095_82743_L_0		
68 D	25.54	0.000	255.4 127.7	255.4	127.7
127.7	0.000	0.000	Strato2_3095_82743_L_0		
69 D	25.94	0.000	259.4 129.7	259.4	129.7
129.7	0.000	0.000	Strato2_3095_82743_L_0		
70 D	26.34	0.000	263.4 131.7	263.4	131.7
131.7	0.000	0.000	Strato2_3095_82743_L_0		
71 D	26.74	0.000	267.4 133.7	267.4	133.7
133.7	0.000	0.000	Strato2_3095_82743_L_0		
72 D	27.14	0.000	271.4 135.7	271.4	135.7
135.7	0.000	0.000	Strato2_3095_82743_L_0		
73 D	27.54	0.000	275.4 137.7	275.4	137.7
137.7	0.000	0.000	Strato2_3095_82743_L_0		
74 D	27.94	0.000	279.4 139.7	279.4	139.7
139.7	0.000	0.000	Strato2_3095_82743_L_0		
75 D	28.34	0.000	283.4 141.7	283.4	141.7
141.7	0.000	0.000	Strato2_3095_82743_L_0		
76 D	28.74	0.000	287.4 143.7	287.4	143.7
143.7	0.000	0.000	Strato2_3095_82743_L_0		
77 D	29.14	0.000	291.4 145.7	291.4	145.7
145.7	0.000	0.000	Strato2_3095_82743_L_0		
78 D	29.54	0.000	295.4 147.7	295.4	147.7
147.7	0.000	0.000	Strato2_3095_82743_L_0		
79 D	29.94	0.000	299.4 149.7	299.4	149.7
149.7	0.000	0.000	Strato2_3095_82743_L_0		
80 D	30.34	0.000	303.4 151.7	303.4	151.7
151.7	0.000	0.000	Strato2_3095_82743_L_0		
81 D	30.74	0.000	307.4 153.7	307.4	153.7
153.7	0.000	0.000	Strato2_3095_82743_L_0		
82 D	31.14	0.000	311.4 155.7	311.4	155.7
155.7	0.000	0.000	Strato2_3095_82743_L_0		
83 D	31.54	0.000	315.4 157.7	315.4	157.7
157.7	0.000	0.000	Strato2_3095_82743_L_0		
84 D	31.94	0.000	319.4 159.7	319.4	159.7
159.7	0.000	0.000	Strato2_3095_82743_L_0		
85 D	32.34	0.000	323.4 161.7	323.4	161.7
161.7	0.000	0.000	Strato2_3095_82743_L_0		
86 D	32.74	0.000	327.4 163.7	327.4	163.7
163.7	0.000	0.000	Strato2_3095_82743_L_0		
87 D	33.14	0.000	331.4 165.7	331.4	165.7
165.7	0.000	0.000	Strato2_3095_82743_L_0		
88 D	33.54	0.000	335.4 167.7	335.4	167.7
167.7	0.000	0.000	Strato2_3095_82743_L_0		
89 D	33.94	0.000	339.4 169.7	339.4	169.7
169.7	0.000	0.000	Strato2_3095_82743_L_0		
90 D	34.34	0.000	343.4 171.7	343.4	171.7
171.7	0.000	0.000	Strato2_3095_82743_L_0		
91 D	17.37	0.000	347.4 173.7	347.4	173.7
173.7	0.000	0.000	Strato2_3095_82743_L_0		



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 187 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          17:58:40          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	9817.	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Stratol_2_8_L_0									
2 D	0.4028	0.000	3.800	2.014	3.800	2.014	V-C	9817.	-0.2000	0.000	1.000	1.000
2.014	0.000	0.000	Stratol_2_8_L_0									
3 D	0.8056	0.000	7.600	4.028	7.600	4.028	V-C	9817.	-0.4000	0.000	1.000	1.000
4.028	0.000	0.000	Stratol_2_8_L_0									
4 D	1.208	0.000	11.40	6.042	11.40	6.042	V-C	9817.	-0.6000	0.000	1.000	1.000
6.042	0.000	0.000	Stratol_2_8_L_0									
5 D	1.611	0.000	15.20	8.056	15.20	8.056	V-C	9817.	-0.8000	0.000	1.000	1.000
8.056	0.000	0.000	Stratol_2_8_L_0									
6 D	2.014	0.000	19.00	10.07	19.00	10.07	V-C	9817.	-1.000	0.000	1.000	1.000
10.07	0.000	0.000	Stratol_2_8_L_0									
7 D	2.417	0.000	22.80	12.08	22.80	12.08	V-C	9817.	-1.200	0.000	1.000	1.000
12.08	0.000	0.000	Stratol_2_8_L_0									
8 D	2.820	0.000	26.60	14.10	26.60	14.10	V-C	9817.	-1.400	0.000	1.000	1.000
14.10	0.000	0.000	Stratol_2_8_L_0									
9 D	3.222	0.000	30.40	16.11	30.40	16.11	V-C	9817.	-1.600	0.000	1.000	1.000
16.11	0.000	0.000	Stratol_2_8_L_0									
10 D	3.625	0.000	34.20	18.13	34.20	18.13	V-C	9817.	-1.800	0.000	1.000	1.000
18.13	0.000	0.000	Stratol_2_8_L_0									
11 D	4.028	0.000	38.00	20.14	38.00	20.14	V-C	9817.	-2.000	0.000	1.000	1.000
20.14	0.000	0.000	Stratol_2_8_L_0									
12 D	4.431	0.000	41.80	22.15	41.80	22.15	V-C	9817.	-2.200	0.000	1.000	1.000
22.15	0.000	0.000	Stratol_2_8_L_0									
13 D	4.834	0.000	45.60	24.17	45.60	24.17	V-C	9817.	-2.400	0.000	1.000	1.000
24.17	0.000	0.000	Stratol_2_8_L_0									
14 D	5.236	0.000	49.40	26.18	49.40	26.18	V-C	9817.	-2.600	0.000	1.000	1.000
26.18	0.000	0.000	Stratol_2_8_L_0									
15 D	5.639	0.000	53.20	28.20	53.20	28.20	V-C	9817.	-2.800	0.000	1.000	1.000
28.20	0.000	0.000	Stratol_2_8_L_0									
16 D	6.042	0.000	57.00	30.21	57.00	30.21	V-C	9817.	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Stratol_2_8_L_0									
17 D	6.445	0.000	60.80	32.22	60.80	32.22	V-C	9817.	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Stratol_2_8_L_0									
18 D	6.848	0.000	64.60	34.24	64.60	34.24	V-C	9817.	-3.400	0.000	1.000	1.000
34.24	0.000	0.000	Stratol_2_8_L_0									
19 D	7.250	0.000	68.40	36.25	68.40	36.25	V-C	9817.	-3.600	0.000	1.000	1.000
36.25	0.000	0.000	Stratol_2_8_L_0									
20 D	7.653	0.000	72.20	38.27	72.20	38.27	V-C	9817.	-3.800	0.000	1.000	1.000
38.27	0.000	0.000	Stratol_2_8_L_0									
21 D	8.056	0.000	76.00	40.28	76.00	40.28	V-C	9817.	-4.000	0.000	1.000	1.000
40.28	0.000	0.000	Stratol_2_8_L_0									
22 D	8.459	0.000	79.80	42.29	79.80	42.29	V-C	9817.	-4.200	0.000	1.000	1.000
42.29	0.000	0.000	Stratol_2_8_L_0									
23 D	8.862	0.000	83.60	44.31	83.60	44.31	V-C	9817.	-4.400	0.000	1.000	1.000
44.31	0.000	0.000	Stratol_2_8_L_0									
24 D	9.264	0.000	87.40	46.32	87.40	46.32	V-C	9817.	-4.600	0.000	1.000	1.000
46.32	0.000	0.000	Stratol_2_8_L_0									
25 D	9.667	0.000	91.20	48.34	91.20	48.34	V-C	9817.	-4.800	0.000	1.000	1.000
48.34	0.000	0.000	Stratol_2_8_L_0									
26 D	10.07	0.000	95.00	50.35	95.00	50.35	V-C	9817.	-5.000	0.000	1.000	1.000
50.35	0.000	0.000	Stratol_2_8_L_0									
27 D	10.47	0.000	98.80	52.36	98.80	52.36	V-C	9817.	-5.200	0.000	1.000	1.000
52.36	0.000	0.000	Stratol_2_8_L_0									
28 D	10.88	0.000	102.6	54.38	102.6	54.38	V-C	9817.	-5.400	0.000	1.000	1.000
54.38	0.000	0.000	Stratol_2_8_L_0									
29 D	11.28	0.000	106.4	56.39	106.4	56.39	V-C	9817.	-5.600	0.000	1.000	1.000
56.39	0.000	0.000	Stratol_2_8_L_0									
30 D	11.68	0.000	110.2	58.41	110.2	58.41	V-C	9817.	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 188 di 1221
58.41	0.000	0.000	Strato1_2_8_L_0		
31 D	12.08	0.000	114.0 60.42	114.0	60.42
60.42	0.000	0.000	Strato1_2_8_L_0		
32 D	12.49	0.000	117.8 62.43	117.8	62.43
62.43	0.000	0.000	Strato1_2_8_L_0		
33 D	12.89	0.000	121.6 64.45	121.6	64.45
64.45	0.000	0.000	Strato1_2_8_L_0		
34 D	13.29	0.000	125.4 66.46	125.4	66.46
66.46	0.000	0.000	Strato1_2_8_L_0		
35 D	13.70	0.000	129.2 68.48	129.2	68.48
68.48	0.000	0.000	Strato1_2_8_L_0		
36 D	14.10	0.000	133.0 70.49	133.0	70.49
70.49	0.000	0.000	Strato1_2_8_L_0		
37 D	14.50	0.000	136.8 72.50	136.8	72.50
72.50	0.000	0.000	Strato1_2_8_L_0		
38 D	14.90	0.000	140.6 74.52	140.6	74.52
74.52	0.000	0.000	Strato1_2_8_L_0		
39 D	15.31	0.000	144.4 76.53	144.4	76.53
76.53	0.000	0.000	Strato1_2_8_L_0		
40 D	15.71	0.000	148.2 78.55	148.2	78.55
78.55	0.000	0.000	Strato1_2_8_L_0		
41 D	16.11	0.000	152.0 80.56	152.0	80.56
80.56	0.000	0.000	Strato1_2_8_L_0		
42 D	16.51	0.000	155.8 82.57	155.8	82.57
82.57	0.000	0.000	Strato1_2_8_L_0		
43 D	16.92	0.000	159.6 84.59	159.6	84.59
84.59	0.000	0.000	Strato1_2_8_L_0		
44 D	17.32	0.000	163.4 86.60	163.4	86.60
86.60	0.000	0.000	Strato1_2_8_L_0		
45 D	17.72	0.000	167.2 88.62	167.2	88.62
88.62	0.000	0.000	Strato1_2_8_L_0		
46 D	18.13	0.000	171.0 90.63	171.0	90.63
90.63	0.000	0.000	Strato1_2_8_L_0		
47 D	18.53	0.000	174.8 92.64	174.8	92.64
92.64	0.000	0.000	Strato1_2_8_L_0		
48 D	18.93	0.000	178.6 94.66	178.6	94.66
94.66	0.000	0.000	Strato1_2_8_L_0		
49 D	19.33	0.000	182.4 96.67	182.4	96.67
96.67	0.000	0.000	Strato1_2_8_L_0		
50 D	19.74	0.000	186.2 98.69	186.2	98.69
98.69	0.000	0.000	Strato1_2_8_L_0		
51 D	20.14	0.000	190.0 100.7	190.0	100.7
100.7	0.000	0.000	Strato1_2_8_L_0		
52 D	20.54	0.000	193.8 102.7	193.8	102.7
102.7	0.000	0.000	Strato1_2_8_L_0		
53 D	20.95	0.000	197.6 104.7	197.6	104.7
104.7	0.000	0.000	Strato1_2_8_L_0		
54 D	21.35	0.000	201.4 106.7	201.4	106.7
106.7	0.000	0.000	Strato1_2_8_L_0		
55 D	21.75	0.000	205.2 108.8	205.2	108.8
108.8	0.000	0.000	Strato1_2_8_L_0		
56 D	22.15	0.000	209.0 110.8	209.0	110.8
110.8	0.000	0.000	Strato1_2_8_L_0		
57 D	22.56	0.000	212.8 112.8	212.8	112.8
112.8	0.000	0.000	Strato1_2_8_L_0		
58 D	22.96	0.000	216.6 114.8	216.6	114.8
114.8	0.000	0.000	Strato1_2_8_L_0		
59 D	23.36	0.000	220.4 116.8	220.4	116.8
116.8	0.000	0.000	Strato1_2_8_L_0		
60 D	23.77	0.000	224.2 118.8	224.2	118.8
118.8	0.000	0.000	Strato1_2_8_L_0		
61 D	24.17	0.000	228.0 120.8	228.0	120.8
120.8	0.000	0.000	Strato1_2_8_L_0		
62 D	24.57	0.000	231.8 122.9	231.8	122.9
122.9	0.000	0.000	Strato1_2_8_L_0		
63 D	24.97	0.000	235.6 124.9	235.6	124.9
124.9	0.000	0.000	Strato1_2_8_L_0		
64 D	23.94	0.000	239.4 119.7	239.4	119.7
119.7	0.000	0.000	Strato2_3095_82743_L_0		
65 D	24.34	0.000	243.4 121.7	243.4	121.7
121.7	0.000	0.000	Strato2_3095_82743_L_0		
66 D	24.74	0.000	247.4 123.7	247.4	123.7
123.7	0.000	0.000	Strato2_3095_82743_L_0		
67 D	25.14	0.000	251.4 125.7	251.4	125.7
125.7	0.000	0.000	Strato2_3095_82743_L_0		
68 D	25.54	0.000	255.4 127.7	255.4	127.7
127.7	0.000	0.000	Strato2_3095_82743_L_0		
69 D	25.94	0.000	259.4 129.7	259.4	129.7
129.7	0.000	0.000	Strato2_3095_82743_L_0		
70 D	26.34	0.000	263.4 131.7	263.4	131.7
131.7	0.000	0.000	Strato2_3095_82743_L_0		
71 D	26.74	0.000	267.4 133.7	267.4	133.7
133.7	0.000	0.000	Strato2_3095_82743_L_0		
72 D	27.14	0.000	271.4 135.7	271.4	135.7
135.7	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 189 di 1221							
73 D	27.54	0.000	275.4	137.7	275.4	137.7	V-C	2.1690E+04	-14.40	0.000	1.000	1.000
137.7	0.000	0.000	Strato2_3095_82743_L_0									
74 D	27.94	0.000	279.4	139.7	279.4	139.7	V-C	2.1690E+04	-14.60	0.000	1.000	1.000
139.7	0.000	0.000	Strato2_3095_82743_L_0									
75 D	28.34	0.000	283.4	141.7	283.4	141.7	V-C	2.1690E+04	-14.80	0.000	1.000	1.000
141.7	0.000	0.000	Strato2_3095_82743_L_0									
76 D	28.74	0.000	287.4	143.7	287.4	143.7	V-C	2.1690E+04	-15.00	0.000	1.000	1.000
143.7	0.000	0.000	Strato2_3095_82743_L_0									
77 D	29.14	0.000	291.4	145.7	291.4	145.7	V-C	2.1690E+04	-15.20	0.000	1.000	1.000
145.7	0.000	0.000	Strato2_3095_82743_L_0									
78 D	29.54	0.000	295.4	147.7	295.4	147.7	V-C	2.1690E+04	-15.40	0.000	1.000	1.000
147.7	0.000	0.000	Strato2_3095_82743_L_0									
79 D	29.94	0.000	299.4	149.7	299.4	149.7	V-C	2.1690E+04	-15.60	0.000	1.000	1.000
149.7	0.000	0.000	Strato2_3095_82743_L_0									
80 D	30.34	0.000	303.4	151.7	303.4	151.7	V-C	2.1690E+04	-15.80	0.000	1.000	1.000
151.7	0.000	0.000	Strato2_3095_82743_L_0									
81 D	30.74	0.000	307.4	153.7	307.4	153.7	V-C	2.1690E+04	-16.00	0.000	1.000	1.000
153.7	0.000	0.000	Strato2_3095_82743_L_0									
82 D	31.14	0.000	311.4	155.7	311.4	155.7	V-C	2.1690E+04	-16.20	0.000	1.000	1.000
155.7	0.000	0.000	Strato2_3095_82743_L_0									
83 D	31.54	0.000	315.4	157.7	315.4	157.7	V-C	2.1690E+04	-16.40	0.000	1.000	1.000
157.7	0.000	0.000	Strato2_3095_82743_L_0									
84 D	31.94	0.000	319.4	159.7	319.4	159.7	V-C	2.1690E+04	-16.60	0.000	1.000	1.000
159.7	0.000	0.000	Strato2_3095_82743_L_0									
85 D	32.34	0.000	323.4	161.7	323.4	161.7	V-C	2.1690E+04	-16.80	0.000	1.000	1.000
161.7	0.000	0.000	Strato2_3095_82743_L_0									
86 D	32.74	0.000	327.4	163.7	327.4	163.7	V-C	2.1690E+04	-17.00	0.000	1.000	1.000
163.7	0.000	0.000	Strato2_3095_82743_L_0									
87 D	33.14	0.000	331.4	165.7	331.4	165.7	V-C	2.1690E+04	-17.20	0.000	1.000	1.000
165.7	0.000	0.000	Strato2_3095_82743_L_0									
88 D	33.54	0.000	335.4	167.7	335.4	167.7	V-C	2.1690E+04	-17.40	0.000	1.000	1.000
167.7	0.000	0.000	Strato2_3095_82743_L_0									
89 D	33.94	0.000	339.4	169.7	339.4	169.7	V-C	2.1690E+04	-17.60	0.000	1.000	1.000
169.7	0.000	0.000	Strato2_3095_82743_L_0									
90 D	34.34	0.000	343.4	171.7	343.4	171.7	V-C	2.1690E+04	-17.80	0.000	1.000	1.000
171.7	0.000	0.000	Strato2_3095_82743_L_0									
91 D	17.37	0.000	347.4	173.7	347.4	173.7	V-C	2.1690E+04	-18.00	0.000	1.000	1.000
173.7	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1M1R1_3484                                                                                       |
|          Exe Time :29 July 2019  17:58:40                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 190 di 1221
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25	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000
31	0.0000	0.0000	0.0000	0.0000
32	0.0000	0.0000	0.0000	0.0000
33	0.0000	0.0000	0.0000	0.0000
34	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000
36	0.0000	0.0000	0.0000	0.0000
37	0.0000	0.0000	0.0000	0.0000
38	0.0000	0.0000	0.0000	0.0000
39	0.0000	0.0000	0.0000	0.0000
40	0.0000	0.0000	0.0000	0.0000
41	0.0000	0.0000	0.0000	0.0000
42	0.0000	0.0000	0.0000	0.0000
43	0.0000	0.0000	0.0000	0.0000
44	0.0000	0.0000	0.0000	0.0000
45	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000
47	0.0000	0.0000	0.0000	0.0000
48	0.0000	0.0000	0.0000	0.0000
49	0.0000	0.0000	0.0000	0.0000
50	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	0.0000	0.0000
52	0.0000	0.0000	0.0000	0.0000
53	0.0000	0.0000	0.0000	0.0000
54	0.0000	0.0000	0.0000	0.0000
55	0.0000	0.0000	0.0000	0.0000
56	0.0000	0.0000	0.0000	0.0000
57	0.0000	0.0000	0.0000	0.0000
58	0.0000	0.0000	0.0000	0.0000
59	0.0000	0.0000	0.0000	0.0000
60	0.0000	0.0000	0.0000	0.0000
61	0.0000	0.0000	0.0000	0.0000
62	0.0000	0.0000	0.0000	0.0000
63	0.0000	0.0000	0.0000	0.0000
64	0.0000	0.0000	0.0000	0.0000
65	0.0000	0.0000	0.0000	0.0000
66	0.0000	0.0000	0.0000	0.0000
67	0.0000	0.0000	0.0000	0.0000
68	0.0000	0.0000	0.0000	0.0000
69	0.0000	0.0000	0.0000	0.0000
70	0.0000	0.0000	0.0000	0.0000
71	0.0000	0.0000	0.0000	0.0000
72	0.0000	0.0000	0.0000	0.0000
73	0.0000	0.0000	0.0000	0.0000
74	0.0000	0.0000	0.0000	0.0000
75	0.0000	0.0000	0.0000	0.0000
76	0.0000	0.0000	0.0000	0.0000
77	0.0000	0.0000	0.0000	0.0000
78	0.0000	0.0000	0.0000	0.0000
79	0.0000	0.0000	0.0000	0.0000
80	0.0000	0.0000	0.0000	0.0000
81	0.0000	0.0000	0.0000	0.0000
82	0.0000	0.0000	0.0000	0.0000
83	0.0000	0.0000	0.0000	0.0000
84	0.0000	0.0000	0.0000	0.0000
85	0.0000	0.0000	0.0000	0.0000
86	0.0000	0.0000	0.0000	0.0000
87	0.0000	0.0000	0.0000	0.0000
88	0.0000	0.0000	0.0000	0.0000
89	0.0000	0.0000	0.0000	0.0000
90	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
191 di 1221

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      17:58:40        |
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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

```

Tirante1_429      :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
C U R R E N T   T I M E   I S   1.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      17:58:40        |
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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 . 5

```

Tirante2_1507    :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
C U R R E N T   T I M E   I S   1.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

ITER      0  RNORM = 0.000      RMNORM= 0.000
RINORM=0.7405E+05 RIMNOR= 0.000
RENORM= 1630.      REMNOR= 0.000      RATIO =0.1484      TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 36.20      RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT      =0.7405E+05 RDR      = 0.000
RATIOT=0.1484      RATOR= 0.000
MAX UN= 8.803      IEQ=      35 NODE      18 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=0.7405E+05 RIMNOR= 0.000
RENORM= 108.2      REMNOR=0.1544E-19 RATIO =0.3823E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 36.20      RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT      =0.7405E+05 RDR      = 0.000
RATIOT=0.3823E-01 RATOR= 0.000
MAX UN= 4.135      IEQ=      3 NODE      2 DOF      1 Y-DISPL.F
MIN UN=-.2458E-09 IEQ=      37 NODE      19 DOF      1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

```

```

ITER      3  RNORM = 0.000      RMNORM= 0.000
RINORM=0.7405E+05 RIMNOR= 0.000
RENORM= 125.4      REMNOR=0.5496E-19 RATIO =0.4115E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 36.20      RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT      =0.7405E+05 RDR      = 0.000
RATIOT=0.4115E-01 RATOR= 0.000
MAX UN= 6.246      IEQ=      37 NODE      19 DOF      1 Y-DISPL.F
MIN UN=-.1934E-08 IEQ=      15 NODE      8 DOF      1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
192 di 1221

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.7405E+05 RIMNOR= 0.000
            RENORM= 13.44      REMNOR=0.9717E-19 RATIO =0.1347E-01 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 36.20      RMMAX = 0.000
            RTSMAL=0.1000E-03 RMSMAL= 0.000
            RDT =0.7405E+05 RDR = 0.000
            RATIOT=0.1347E-01 RATIOR= 0.000
            MAX UN= 2.739      IEQ= 55 NODE      28 DOF      1 Y-DISPL.F
            MIN UN=-.2459E-08 IEQ= 9 NODE      5 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

```

```

ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.7405E+05 RIMNOR= 0.000
            RENORM=0.7417E-01 REMNOR=0.6809E-19 RATIO =0.1001E-02 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 36.20      RMMAX = 0.000
            RTSMAL=0.1000E-03 RMSMAL= 0.000
            RDT =0.7405E+05 RDR = 0.000
            RATIOT=0.1001E-02 RATIOR= 0.000
            MAX UN=0.2553      IEQ= 63 NODE      32 DOF      1 Y-DISPL.F
            MIN UN=-.1732E-08 IEQ= 23 NODE      12 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      6  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.7405E+05 RIMNOR= 0.000
            RENORM=0.1555E-16 REMNOR=0.5203E-19 RATIO =0.1449E-10 TOLER =0.1000E-03      CONVERGED !
            RFMAX = 36.20      RMMAX = 0.000
            RTSMAL=0.1000E-03 RMSMAL= 0.000
            RDT =0.7405E+05 RDR = 0.000
            RATIOT=0.1449E-10 RATIOR= 0.000
            MAX UN=0.1498E-08 IEQ= 13 NODE      7 DOF      1 Y-DISPL.F
            MIN UN=-.1576E-08 IEQ= 27 NODE      14 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019      17:58:40                           |
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New Project
SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	7.9940724E-03	-1.1861381E-03	
2	7.7568460E-03	-1.1861188E-03	
3	7.5196294E-03	-1.1860318E-03	
4	7.2824419E-03	-1.1858157E-03	
5	7.0453167E-03	-1.1853952E-03	
6	6.8083034E-03	-1.1846813E-03	
7	6.5714705E-03	-1.1835732E-03	
8	6.3349079E-03	-1.1819581E-03	
9	6.0987293E-03	-1.1797121E-03	
10	5.8630741E-03	-1.1767007E-03	
11	5.6281097E-03	-1.1727791E-03	
12	5.3940335E-03	-1.1677912E-03	
13	5.1610754E-03	-1.1615696E-03	
14	4.9294999E-03	-1.1539354E-03	
15	4.6996081E-03	-1.1446987E-03	
16	4.4717406E-03	-1.1336582E-03	
17	4.2462792E-03	-1.1206022E-03	
18	4.0236489E-03	-1.1053083E-03	
19	3.8043206E-03	-1.0875431E-03	
20	3.5888103E-03	-1.0670982E-03	
21	3.3776673E-03	-1.0438637E-03	
22	3.1714492E-03	-1.0178643E-03	
23	2.9706953E-03	-9.8925927E-04	
24	2.7759036E-03	-9.5829642E-04	
25	2.5875170E-03	-9.2524367E-04	
26	2.4059276E-03	-8.9036861E-04	
27	2.2314733E-03	-8.5393788E-04	
28	2.0644385E-03	-8.1621758E-04	
29	1.9050553E-03	-7.7747388E-04	
30	1.7535002E-03	-7.3797257E-04	

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 193 di 1221
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31	1.6098989E-03	-6.9798067E-04
32	1.4743228E-03	-6.5776625E-04
33	1.3467893E-03	-6.1759912E-04
34	1.2272626E-03	-5.7774029E-04
35	1.1156574E-03	-5.3842588E-04
36	1.0118428E-03	-4.9986178E-04
37	9.1565077E-04	-4.6222683E-04
38	8.2687990E-04	-4.2567400E-04
39	7.4530041E-04	-3.9033255E-04
40	6.7065929E-04	-3.5631047E-04
41	6.0268279E-04	-3.2369560E-04
42	5.4108139E-04	-2.9255738E-04
43	4.8555651E-04	-2.6295026E-04
44	4.3579695E-04	-2.3491187E-04
45	3.9148581E-04	-2.0846652E-04
46	3.5230330E-04	-1.8362682E-04
47	3.1792796E-04	-1.6039399E-04
48	2.8803925E-04	-1.3875795E-04
49	2.6231983E-04	-1.1869803E-04
50	2.4045711E-04	-1.0018405E-04
51	2.2214567E-04	-8.3178275E-05
52	2.0708808E-04	-6.7636127E-05
53	1.9499679E-04	-5.3508043E-05
54	1.8559422E-04	-4.0739597E-05
55	1.7861413E-04	-2.9273419E-05
56	1.7380201E-04	-1.9049880E-05
57	1.7091543E-04	-1.0007565E-05
58	1.6972440E-04	-2.0839548E-06
59	1.7001147E-04	4.7839491E-06
60	1.7157180E-04	1.0659098E-05
61	1.7421309E-04	1.5603923E-05
62	1.7775543E-04	1.9679667E-05
63	1.8203100E-04	2.2946053E-05
64	1.8688377E-04	2.5461300E-05
65	1.9217033E-04	2.7298801E-05
66	1.9776391E-04	2.8545491E-05
67	2.0355460E-04	2.9283206E-05
68	2.0944806E-04	2.9588470E-05
69	2.1536560E-04	2.9532398E-05
70	2.2124129E-04	2.9180328E-05
71	2.2702198E-04	2.8591917E-05
72	2.3266592E-04	2.7821417E-05
73	2.3814167E-04	2.6917787E-05
74	2.4342708E-04	2.5924833E-05
75	2.4850823E-04	2.4881374E-05
76	2.5337853E-04	2.3821429E-05
77	2.5803765E-04	2.2774195E-05
78	2.6249069E-04	2.1764246E-05
79	2.6674720E-04	2.0811938E-05
80	2.7082040E-04	1.9933595E-05
81	2.7472639E-04	1.9141678E-05
82	2.7848342E-04	1.8444958E-05
83	2.8211107E-04	1.7848648E-05
84	2.8562969E-04	1.7354542E-05
85	2.8905976E-04	1.6960916E-05
86	2.9242059E-04	1.6662693E-05
87	2.9573064E-04	1.6451594E-05
88	2.9900628E-04	1.6316276E-05
89	3.0226125E-04	1.6242350E-05
90	3.0550615E-04	1.6212411E-05
91	3.0874778E-04	1.6206049E-05



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 194 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  17:58:40  |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.8129	-7.9941E-03	26.74	8.129	26.74	14.17	ACTIVE	0.000	0.000	0.000	1.000	1.000
8.129	0.000	0.000	Stratol_2_8_L_0									
2 D	1.223	-7.7568E-03	20.12	6.116	20.12	10.66	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
6.116	0.000	0.000	Stratol_2_8_L_0									
3 D	1.369	-7.5196E-03	22.52	6.845	22.52	11.93	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
6.845	0.000	0.000	Stratol_2_8_L_0									
4 D	1.800	-7.2824E-03	29.60	8.999	29.60	15.69	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
8.999	0.000	0.000	Stratol_2_8_L_0									
5 D	1.951	-7.0453E-03	32.10	9.757	32.10	17.01	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
9.757	0.000	0.000	Stratol_2_8_L_0									
6 D	2.290	-6.8083E-03	37.67	11.45	37.67	19.96	ACTIVE	0.000	-1.000	0.000	1.000	1.000
11.45	0.000	0.000	Stratol_2_8_L_0									
7 D	2.460	-6.5715E-03	40.46	12.30	40.46	21.45	ACTIVE	0.000	-1.200	0.000	1.000	1.000
12.30	0.000	0.000	Stratol_2_8_L_0									
8 D	2.765	-6.3349E-03	45.48	13.82	45.48	24.10	ACTIVE	0.000	-1.400	0.000	1.000	1.000
13.82	0.000	0.000	Stratol_2_8_L_0									
9 D	2.900	-6.0987E-03	47.70	14.50	47.70	25.28	ACTIVE	0.000	-1.600	0.000	1.000	1.000
14.50	0.000	0.000	Stratol_2_8_L_0									
10 D	3.192	-5.8631E-03	52.50	15.96	52.50	27.83	ACTIVE	0.000	-1.800	0.000	1.000	1.000
15.96	0.000	0.000	Stratol_2_8_L_0									
11 D	3.387	-5.6281E-03	55.71	16.93	55.71	29.52	ACTIVE	0.000	-2.000	0.000	1.000	1.000
16.93	0.000	0.000	Stratol_2_8_L_0									
12 D	3.666	-5.3940E-03	60.30	18.33	60.30	31.96	ACTIVE	0.000	-2.200	0.000	1.000	1.000
18.33	0.000	0.000	Stratol_2_8_L_0									
13 D	3.866	-5.1611E-03	63.58	19.33	63.58	33.70	ACTIVE	0.000	-2.400	0.000	1.000	1.000
19.33	0.000	0.000	Stratol_2_8_L_0									
14 D	4.137	-4.9295E-03	68.04	20.68	68.04	36.06	ACTIVE	0.000	-2.600	0.000	1.000	1.000
20.68	0.000	0.000	Stratol_2_8_L_0									
15 D	4.340	-4.6996E-03	71.38	21.70	71.38	37.83	ACTIVE	0.000	-2.800	0.000	1.000	1.000
21.70	0.000	0.000	Stratol_2_8_L_0									
16 D	4.579	-4.4717E-03	75.31	22.90	75.31	39.92	ACTIVE	0.000	-3.000	0.000	1.000	1.000
22.90	0.000	0.000	Stratol_2_8_L_0									
17 D	4.787	-4.2463E-03	78.73	23.93	78.73	41.73	ACTIVE	0.000	-3.200	0.000	1.000	1.000
23.93	0.000	0.000	Stratol_2_8_L_0									
18 D	5.049	-4.0236E-03	83.04	25.24	83.04	44.01	ACTIVE	0.000	-3.400	0.000	1.000	1.000
25.24	0.000	0.000	Stratol_2_8_L_0									
19 D	5.259	-3.8043E-03	86.49	26.29	86.49	45.84	ACTIVE	0.000	-3.600	0.000	1.000	1.000
26.29	0.000	0.000	Stratol_2_8_L_0									
20 D	5.517	-3.5888E-03	90.74	27.59	90.74	48.09	ACTIVE	0.000	-3.800	0.000	1.000	1.000
27.59	0.000	0.000	Stratol_2_8_L_0									
21 D	5.729	-3.3777E-03	94.22	28.64	94.22	49.94	ACTIVE	0.000	-4.000	0.000	1.000	1.000
28.64	0.000	0.000	Stratol_2_8_L_0									
22 D	5.984	-3.1714E-03	98.43	29.92	98.43	52.17	ACTIVE	0.000	-4.200	0.000	1.000	1.000
29.92	0.000	0.000	Stratol_2_8_L_0									
23 D	6.197	-2.9707E-03	101.9	30.99	101.9	54.02	ACTIVE	0.000	-4.400	0.000	1.000	1.000
30.99	0.000	0.000	Stratol_2_8_L_0									
24 D	6.433	-2.7759E-03	105.8	32.17	105.8	56.08	ACTIVE	0.000	-4.600	0.000	1.000	1.000
32.17	0.000	0.000	Stratol_2_8_L_0									
25 D	6.648	-2.5875E-03	109.3	33.24	109.3	57.95	ACTIVE	0.000	-4.800	0.000	1.000	1.000
33.24	0.000	0.000	Stratol_2_8_L_0									
26 D	6.900	-2.4059E-03	113.5	34.50	113.5	60.15	ACTIVE	0.000	-5.000	0.000	1.000	1.000
34.50	0.000	0.000	Stratol_2_8_L_0									
27 D	7.116	-2.2315E-03	117.0	35.58	117.0	62.03	ACTIVE	0.000	-5.200	0.000	1.000	1.000
35.58	0.000	0.000	Stratol_2_8_L_0									
28 D	7.367	-2.0644E-03	121.2	36.83	121.2	64.21	ACTIVE	0.000	-5.400	0.000	1.000	1.000
36.83	0.000	0.000	Stratol_2_8_L_0									
29 D	7.583	-1.9051E-03	124.7	37.92	124.7	66.10	ACTIVE	0.000	-5.600	0.000	1.000	1.000
37.92	0.000	0.000	Stratol_2_8_L_0									
30 D	7.832	-1.7535E-03	128.8	39.16	128.8	68.27	ACTIVE	0.000	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



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GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 195 di 1221
39.16	0.000	0.000	Strato1_2_8_L_0				
31 D	8.037	-1.6099E-03	132.2	40.18	132.2	70.06	ACTIVE 0.000 -6.000 0.000 1.000 1.000
40.18	0.000	0.000	Strato1_2_8_L_0				
32 D	8.285	-1.4743E-03	136.3	41.42	136.3	72.22	ACTIVE 0.000 -6.200 0.000 1.000 1.000
41.42	0.000	0.000	Strato1_2_8_L_0				
33 D	8.946	-1.3468E-03	139.9	44.73	139.9	74.12	UL-RL 2.1827E+04 -6.400 0.000 1.000 1.000
44.73	0.000	0.000	Strato1_2_8_L_0				
34 D	9.898	-1.2273E-03	143.9	49.49	143.9	76.28	UL-RL 2.1827E+04 -6.600 0.000 1.000 1.000
49.49	0.000	0.000	Strato1_2_8_L_0				
35 D	10.77	-1.1157E-03	147.5	53.84	147.5	78.19	UL-RL 2.1827E+04 -6.800 0.000 1.000 1.000
53.84	0.000	0.000	Strato1_2_8_L_0				
36 D	11.65	-1.0118E-03	151.6	58.25	151.6	80.33	UL-RL 2.1827E+04 -7.000 0.000 1.000 1.000
58.25	0.000	0.000	Strato1_2_8_L_0				
37 D	12.45	-9.1565E-04	155.2	62.26	155.2	82.25	UL-RL 2.1827E+04 -7.200 0.000 1.000 1.000
62.26	0.000	0.000	Strato1_2_8_L_0				
38 D	13.27	-8.2688E-04	159.2	66.33	159.2	84.38	UL-RL 2.1827E+04 -7.400 0.000 1.000 1.000
66.33	0.000	0.000	Strato1_2_8_L_0				
39 D	13.99	-7.4530E-04	162.7	69.95	162.7	86.21	UL-RL 2.1827E+04 -7.600 0.000 1.000 1.000
69.95	0.000	0.000	Strato1_2_8_L_0				
40 D	14.74	-6.7066E-04	166.7	73.71	166.7	88.34	UL-RL 2.1827E+04 -7.800 0.000 1.000 1.000
73.71	0.000	0.000	Strato1_2_8_L_0				
41 D	15.42	-6.0268E-04	170.3	77.12	170.3	90.27	UL-RL 2.1827E+04 -8.000 0.000 1.000 1.000
77.12	0.000	0.000	Strato1_2_8_L_0				
42 D	16.12	-5.4108E-04	174.3	80.59	174.3	92.40	UL-RL 2.1827E+04 -8.200 0.000 1.000 1.000
80.59	0.000	0.000	Strato1_2_8_L_0				
43 D	16.75	-4.8556E-04	178.0	83.73	178.0	94.33	UL-RL 2.1827E+04 -8.400 0.000 1.000 1.000
83.73	0.000	0.000	Strato1_2_8_L_0				
44 D	17.39	-4.3580E-04	182.0	86.93	182.0	96.45	UL-RL 2.1827E+04 -8.600 0.000 1.000 1.000
86.93	0.000	0.000	Strato1_2_8_L_0				
45 D	17.97	-3.9149E-04	185.6	89.83	185.6	98.38	UL-RL 2.1827E+04 -8.800 0.000 1.000 1.000
89.83	0.000	0.000	Strato1_2_8_L_0				
46 D	18.55	-3.5230E-04	189.5	92.73	189.5	100.4	UL-RL 2.1827E+04 -9.000 0.000 1.000 1.000
92.73	0.000	0.000	Strato1_2_8_L_0				
47 D	19.08	-3.1793E-04	193.1	95.42	193.1	102.4	UL-RL 2.1827E+04 -9.200 0.000 1.000 1.000
95.42	0.000	0.000	Strato1_2_8_L_0				
48 D	19.64	-2.8804E-04	197.1	98.18	197.1	104.5	UL-RL 2.1827E+04 -9.400 0.000 1.000 1.000
98.18	0.000	0.000	Strato1_2_8_L_0				
49 D	20.14	-2.6232E-04	200.8	100.7	200.8	106.4	UL-RL 2.1827E+04 -9.600 0.000 1.000 1.000
100.7	0.000	0.000	Strato1_2_8_L_0				
50 D	20.65	-2.4046E-04	204.7	103.3	204.7	108.5	UL-RL 2.1827E+04 -9.800 0.000 1.000 1.000
103.3	0.000	0.000	Strato1_2_8_L_0				
51 D	21.12	-2.2215E-04	208.4	105.6	208.4	110.5	UL-RL 2.1827E+04 -10.00 0.000 1.000 1.000
105.6	0.000	0.000	Strato1_2_8_L_0				
52 D	21.61	-2.0709E-04	212.4	108.0	212.4	112.6	UL-RL 2.1827E+04 -10.20 0.000 1.000 1.000
108.0	0.000	0.000	Strato1_2_8_L_0				
53 D	22.05	-1.9500E-04	216.0	110.2	216.0	114.5	UL-RL 2.1827E+04 -10.40 0.000 1.000 1.000
110.2	0.000	0.000	Strato1_2_8_L_0				
54 D	22.50	-1.8559E-04	219.9	112.5	219.9	116.5	UL-RL 2.1827E+04 -10.60 0.000 1.000 1.000
112.5	0.000	0.000	Strato1_2_8_L_0				
55 D	22.92	-1.7861E-04	223.6	114.6	223.6	118.5	UL-RL 2.1827E+04 -10.80 0.000 1.000 1.000
114.6	0.000	0.000	Strato1_2_8_L_0				
56 D	23.36	-1.7380E-04	227.5	116.8	227.5	120.6	UL-RL 2.1827E+04 -11.00 0.000 1.000 1.000
116.8	0.000	0.000	Strato1_2_8_L_0				
57 D	23.76	-1.7092E-04	231.2	118.8	231.2	122.5	UL-RL 2.1827E+04 -11.20 0.000 1.000 1.000
118.8	0.000	0.000	Strato1_2_8_L_0				
58 D	24.18	-1.6972E-04	235.1	120.9	235.1	124.6	UL-RL 2.1827E+04 -11.40 0.000 1.000 1.000
120.9	0.000	0.000	Strato1_2_8_L_0				
59 D	24.57	-1.7001E-04	238.8	122.9	238.8	126.6	UL-RL 2.1827E+04 -11.60 0.000 1.000 1.000
122.9	0.000	0.000	Strato1_2_8_L_0				
60 D	24.99	-1.7157E-04	242.8	124.9	242.8	128.7	UL-RL 2.1827E+04 -11.80 0.000 1.000 1.000
124.9	0.000	0.000	Strato1_2_8_L_0				
61 D	25.35	-1.7421E-04	246.4	126.8	246.4	130.6	UL-RL 2.1827E+04 -12.00 0.000 1.000 1.000
126.8	0.000	0.000	Strato1_2_8_L_0				
62 D	25.76	-1.7776E-04	250.3	128.8	250.3	132.7	UL-RL 2.1827E+04 -12.20 0.000 1.000 1.000
128.8	0.000	0.000	Strato1_2_8_L_0				
63 D	26.13	-1.8203E-04	254.0	130.6	254.0	134.6	UL-RL 2.1827E+04 -12.40 0.000 1.000 1.000
130.6	0.000	0.000	Strato1_2_8_L_0				
64 D	23.48	-1.8688E-04	257.9	117.4	257.9	129.0	UL-RL 6.1746E+04 -12.60 0.000 1.000 1.000
117.4	0.000	0.000	Strato2_3095_82743_L_0				
65 D	23.81	-1.9217E-04	261.8	119.0	261.8	130.9	UL-RL 6.1746E+04 -12.80 0.000 1.000 1.000
119.0	0.000	0.000	Strato2_3095_82743_L_0				
66 D	24.15	-1.9776E-04	266.0	120.8	266.0	133.0	UL-RL 6.1746E+04 -13.00 0.000 1.000 1.000
120.8	0.000	0.000	Strato2_3095_82743_L_0				
67 D	24.47	-2.0355E-04	269.9	122.4	269.9	134.9	UL-RL 6.1746E+04 -13.20 0.000 1.000 1.000
122.4	0.000	0.000	Strato2_3095_82743_L_0				
68 D	24.81	-2.0945E-04	274.0	124.1	274.0	137.0	UL-RL 6.1746E+04 -13.40 0.000 1.000 1.000
124.1	0.000	0.000	Strato2_3095_82743_L_0				
69 D	25.12	-2.1537E-04	277.8	125.6	277.8	138.9	UL-RL 6.1746E+04 -13.60 0.000 1.000 1.000
125.6	0.000	0.000	Strato2_3095_82743_L_0				
70 D	25.46	-2.2124E-04	281.9	127.3	281.9	141.0	UL-RL 6.1746E+04 -13.80 0.000 1.000 1.000
127.3	0.000	0.000	Strato2_3095_82743_L_0				
71 D	25.78	-2.2702E-04	285.8	128.9	285.8	142.9	UL-RL 6.1746E+04 -14.00 0.000 1.000 1.000
128.9	0.000	0.000	Strato2_3095_82743_L_0				
72 D	26.12	-2.3267E-04	289.9	130.6	289.9	145.0	UL-RL 6.1746E+04 -14.20 0.000 1.000 1.000
130.6	0.000	0.000	Strato2_3095_82743_L_0				



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 197 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                       |
|          NewProject.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          17:58:40          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
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	not available									
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
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	not available									
19 D	1.536	3.8043E-03	1.900	7.678	68.40	36.25	PASSIVE	0.000	-3.600	0.000	1.000	1.000
7.678	0.000	0.000	Stratol_2_8_L_0									
20 D	4.607	3.5888E-03	5.700	23.03	72.20	38.27	PASSIVE	0.000	-3.800	0.000	1.000	1.000
23.03	0.000	0.000	Stratol_2_8_L_0									
21 D	7.678	3.3777E-03	9.500	38.39	76.00	40.28	PASSIVE	0.000	-4.000	0.000	1.000	1.000
38.39	0.000	0.000	Stratol_2_8_L_0									
22 D	10.75	3.1714E-03	13.30	53.75	79.80	53.75	PASSIVE	0.000	-4.200	0.000	1.000	1.000
53.75	0.000	0.000	Stratol_2_8_L_0									
23 D	11.86	2.9707E-03	17.10	59.31	83.60	59.31	V-C	5049.	-4.400	0.000	1.000	1.000
59.31	0.000	0.000	Stratol_2_8_L_0									
24 D	12.07	2.7759E-03	20.90	60.34	87.40	60.34	V-C	5049.	-4.600	0.000	1.000	1.000
60.34	0.000	0.000	Stratol_2_8_L_0									
25 D	12.28	2.5875E-03	24.70	61.40	91.20	61.40	V-C	5049.	-4.800	0.000	1.000	1.000
61.40	0.000	0.000	Stratol_2_8_L_0									
26 D	12.50	2.4059E-03	28.50	62.50	95.00	62.50	V-C	5049.	-5.000	0.000	1.000	1.000
62.50	0.000	0.000	Stratol_2_8_L_0									
27 D	12.73	2.2315E-03	32.30	63.63	98.80	63.63	V-C	5049.	-5.200	0.000	1.000	1.000
63.63	0.000	0.000	Stratol_2_8_L_0									
28 D	12.96	2.0644E-03	36.10	64.80	102.6	64.80	V-C	5049.	-5.400	0.000	1.000	1.000
64.80	0.000	0.000	Stratol_2_8_L_0									
29 D	13.20	1.9051E-03	39.90	66.01	106.4	66.01	V-C	5049.	-5.600	0.000	1.000	1.000
66.01	0.000	0.000	Stratol_2_8_L_0									
30 D	13.45	1.7535E-03	43.70	67.26	110.2	67.26	V-C	5049.	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



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Doc. N.				Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 198 di 1221		
67.26	0.000	0.000	Strato1_2_8_L_0							
31 D	13.71	1.6099E-03	47.50 68.55	114.0	68.55	V-C 5049.	-6.000	0.000	1.000	1.000
68.55	0.000	0.000	Strato1_2_8_L_0							
32 D	13.98	1.4743E-03	51.30 69.88	117.8	69.88	V-C 5049.	-6.200	0.000	1.000	1.000
69.88	0.000	0.000	Strato1_2_8_L_0							
33 D	14.25	1.3468E-03	55.10 71.25	121.6	71.25	V-C 5049.	-6.400	0.000	1.000	1.000
71.25	0.000	0.000	Strato1_2_8_L_0							
34 D	14.53	1.2273E-03	58.90 72.66	125.4	72.66	V-C 5049.	-6.600	0.000	1.000	1.000
72.66	0.000	0.000	Strato1_2_8_L_0							
35 D	14.82	1.1157E-03	62.70 74.11	129.2	74.11	V-C 5049.	-6.800	0.000	1.000	1.000
74.11	0.000	0.000	Strato1_2_8_L_0							
36 D	15.12	1.0118E-03	66.50 75.60	133.0	75.60	V-C 5049.	-7.000	0.000	1.000	1.000
75.60	0.000	0.000	Strato1_2_8_L_0							
37 D	15.43	9.1565E-04	70.30 77.13	136.8	77.13	V-C 5049.	-7.200	0.000	1.000	1.000
77.13	0.000	0.000	Strato1_2_8_L_0							
38 D	15.74	8.2688E-04	74.10 78.69	140.6	78.69	V-C 5049.	-7.400	0.000	1.000	1.000
78.69	0.000	0.000	Strato1_2_8_L_0							
39 D	16.06	7.4530E-04	77.90 80.29	144.4	80.29	V-C 5049.	-7.600	0.000	1.000	1.000
80.29	0.000	0.000	Strato1_2_8_L_0							
40 D	16.39	6.7066E-04	81.70 81.93	148.2	81.93	V-C 5049.	-7.800	0.000	1.000	1.000
81.93	0.000	0.000	Strato1_2_8_L_0							
41 D	16.72	6.0268E-04	85.50 83.60	152.0	83.60	V-C 5049.	-8.000	0.000	1.000	1.000
83.60	0.000	0.000	Strato1_2_8_L_0							
42 D	17.06	5.4108E-04	89.30 85.31	155.8	85.31	V-C 5049.	-8.200	0.000	1.000	1.000
85.31	0.000	0.000	Strato1_2_8_L_0							
43 D	17.41	4.8556E-04	93.10 87.04	159.6	87.04	V-C 5049.	-8.400	0.000	1.000	1.000
87.04	0.000	0.000	Strato1_2_8_L_0							
44 D	17.76	4.3580E-04	96.90 88.80	163.4	88.80	V-C 5049.	-8.600	0.000	1.000	1.000
88.80	0.000	0.000	Strato1_2_8_L_0							
45 D	18.12	3.9149E-04	100.7 90.59	167.2	90.59	V-C 5049.	-8.800	0.000	1.000	1.000
90.59	0.000	0.000	Strato1_2_8_L_0							
46 D	18.44	3.5230E-04	104.5 92.22	171.0	92.50	UL-RL 1.5147E+04	-9.000	0.000	1.000	1.000
92.22	0.000	0.000	Strato1_2_8_L_0							
47 D	18.76	3.1793E-04	108.3 93.79	174.8	94.48	UL-RL 1.5147E+04	-9.200	0.000	1.000	1.000
93.79	0.000	0.000	Strato1_2_8_L_0							
48 D	19.09	2.8804E-04	112.1 95.43	178.6	96.45	UL-RL 1.5147E+04	-9.400	0.000	1.000	1.000
95.43	0.000	0.000	Strato1_2_8_L_0							
49 D	19.42	2.6232E-04	115.9 97.12	182.4	98.44	UL-RL 1.5147E+04	-9.600	0.000	1.000	1.000
97.12	0.000	0.000	Strato1_2_8_L_0							
50 D	19.77	2.4046E-04	119.7 98.86	186.2	100.4	UL-RL 1.5147E+04	-9.800	0.000	1.000	1.000
98.86	0.000	0.000	Strato1_2_8_L_0							
51 D	20.13	2.2215E-04	123.5 100.7	190.0	102.4	UL-RL 1.5147E+04	-10.00	0.000	1.000	1.000
100.7	0.000	0.000	Strato1_2_8_L_0							
52 D	20.50	2.0709E-04	127.3 102.5	193.8	104.4	UL-RL 1.5147E+04	-10.20	0.000	1.000	1.000
102.5	0.000	0.000	Strato1_2_8_L_0							
53 D	20.87	1.9500E-04	131.1 104.4	197.6	106.4	UL-RL 1.5147E+04	-10.40	0.000	1.000	1.000
104.4	0.000	0.000	Strato1_2_8_L_0							
54 D	21.26	1.8559E-04	134.9 106.3	201.4	108.4	UL-RL 1.5147E+04	-10.60	0.000	1.000	1.000
106.3	0.000	0.000	Strato1_2_8_L_0							
55 D	21.65	1.7861E-04	138.7 108.2	205.2	110.4	UL-RL 1.5147E+04	-10.80	0.000	1.000	1.000
108.2	0.000	0.000	Strato1_2_8_L_0							
56 D	22.04	1.7380E-04	142.5 110.2	209.0	112.4	UL-RL 1.5147E+04	-11.00	0.000	1.000	1.000
110.2	0.000	0.000	Strato1_2_8_L_0							
57 D	22.44	1.7092E-04	146.3 112.2	212.8	114.4	UL-RL 1.5147E+04	-11.20	0.000	1.000	1.000
112.2	0.000	0.000	Strato1_2_8_L_0							
58 D	22.85	1.6972E-04	150.1 114.2	216.6	116.4	UL-RL 1.5147E+04	-11.40	0.000	1.000	1.000
114.2	0.000	0.000	Strato1_2_8_L_0							
59 D	23.26	1.7001E-04	153.9 116.3	220.4	118.4	UL-RL 1.5147E+04	-11.60	0.000	1.000	1.000
116.3	0.000	0.000	Strato1_2_8_L_0							
60 D	23.67	1.7157E-04	157.7 118.4	224.2	120.4	UL-RL 1.5147E+04	-11.80	0.000	1.000	1.000
118.4	0.000	0.000	Strato1_2_8_L_0							
61 D	24.09	1.7421E-04	161.5 120.4	228.0	122.4	UL-RL 1.5147E+04	-12.00	0.000	1.000	1.000
120.4	0.000	0.000	Strato1_2_8_L_0							
62 D	24.51	1.7776E-04	165.3 122.5	231.8	124.4	UL-RL 1.5147E+04	-12.20	0.000	1.000	1.000
122.5	0.000	0.000	Strato1_2_8_L_0							
63 D	24.93	1.8203E-04	169.1 124.6	235.6	126.4	UL-RL 1.5147E+04	-12.40	0.000	1.000	1.000
124.6	0.000	0.000	Strato1_2_8_L_0							
64 D	21.60	1.8688E-04	172.9 108.0	239.4	119.7	UL-RL 3.3465E+04	-12.60	0.000	1.000	1.000
108.0	0.000	0.000	Strato2_3095_82743_L_0							
65 D	22.04	1.9217E-04	176.9 110.2	243.4	121.7	UL-RL 3.3465E+04	-12.80	0.000	1.000	1.000
110.2	0.000	0.000	Strato2_3095_82743_L_0							
66 D	22.48	1.9776E-04	180.9 112.4	247.4	123.7	UL-RL 3.3465E+04	-13.00	0.000	1.000	1.000
112.4	0.000	0.000	Strato2_3095_82743_L_0							
67 D	22.92	2.0355E-04	184.9 114.6	251.4	125.7	UL-RL 3.3465E+04	-13.20	0.000	1.000	1.000
114.6	0.000	0.000	Strato2_3095_82743_L_0							
68 D	23.37	2.0945E-04	188.9 116.8	255.4	127.7	UL-RL 3.3465E+04	-13.40	0.000	1.000	1.000
116.8	0.000	0.000	Strato2_3095_82743_L_0							
69 D	23.81	2.1537E-04	192.9 119.1	259.4	129.7	UL-RL 3.3465E+04	-13.60	0.000	1.000	1.000
119.1	0.000	0.000	Strato2_3095_82743_L_0							
70 D	24.25	2.2124E-04	196.9 121.3	263.4	131.7	UL-RL 3.3465E+04	-13.80	0.000	1.000	1.000
121.3	0.000	0.000	Strato2_3095_82743_L_0							
71 D	24.70	2.2702E-04	200.9 123.5	267.4	133.7	UL-RL 3.3465E+04	-14.00	0.000	1.000	1.000
123.5	0.000	0.000	Strato2_3095_82743_L_0							
72 D	25.14	2.3267E-04	204.9 125.7	271.4	135.7	UL-RL 3.3465E+04	-14.20	0.000	1.000	1.000
125.7	0.000	0.000	Strato2_3095_82743_L_0							

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  17:58:40  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.81290	-0.81290	1.22977E-11	0.16258
2	2.0360	-2.0360	-0.16258	0.56979
3	3.4050	-3.4050	-0.56979	1.2508
4	5.2048	-5.2048	-1.2508	2.2917
5	7.1562	-7.1562	-2.2917	3.7230
6	9.4464	-9.4464	-3.7230	5.6123
7	11.907	-11.907	-5.6123	7.9936
8	14.672	-14.672	-7.9936	10.928
9	17.572	-17.572	-10.928	14.442
10	20.764	-20.764	-14.442	18.595
11	24.151	-24.151	-18.595	23.425
12	27.817	-27.817	-23.425	28.989
13	31.683	-31.683	-28.989	35.325
14	35.820	-35.820	-35.325	42.489
15	40.160	-40.160	-42.489	50.521
16	44.739	-44.739	-50.521	59.469
17	49.526	-49.526	-59.469	69.374
18	54.575	-54.575	-69.374	80.289
19	58.298	-58.298	-80.289	91.949
20	59.208	-59.208	-91.949	103.79
21	57.259	-57.259	-103.79	115.24
22	52.494	-52.494	-115.24	125.74
23	46.830	-46.830	-125.74	135.11
24	41.196	-41.196	-135.11	143.35
25	35.564	-35.564	-143.35	150.46
26	29.965	-29.965	-150.46	156.45
27	24.355	-24.355	-156.45	161.32
28	18.761	-18.761	-161.32	165.08
29	13.143	-13.143	-165.08	167.70
30	7.5229	-7.5229	-167.70	169.21
31	1.8498	-1.8498	-169.21	169.58
32	-3.8412	3.8412	-169.58	168.81
33	-9.1453	9.1453	-168.81	166.98
34	-13.779	13.779	-166.98	164.23
35	-17.834	17.834	-164.23	160.66
36	-21.304	21.304	-160.66	156.40
37	-24.277	24.277	-156.40	151.54
38	-26.749	26.749	-151.54	146.19
39	-28.819	28.819	-146.19	140.43
40	-30.464	30.464	-140.43	134.34
41	-31.761	31.761	-134.34	127.98
42	-32.705	32.705	-127.98	121.44
43	-33.368	33.368	-121.44	114.77
44	-33.741	33.741	-114.77	108.02
45	-33.893	33.893	-108.02	101.24
46	-33.792	33.792	-101.24	94.483
47	-33.468	33.468	-94.483	87.790
48	-32.918	32.918	-87.790	81.206
49	-32.205	32.205	-81.206	74.765
50	-31.324	31.324	-74.765	68.500
51	-30.333	30.333	-68.500	62.433
52	-29.224	29.224	-62.433	56.589
53	-28.048	28.048	-56.589	50.979
54	-26.807	26.807	-50.979	45.618
55	-25.536	25.536	-45.618	40.511
56	-24.220	24.220	-40.511	35.667
57	-22.902	22.902	-35.667	31.086
58	-21.567	21.567	-31.086	26.773
59	-20.251	20.251	-26.773	22.723
60	-18.937	18.937	-22.723	18.935
61	-17.671	17.671	-18.935	15.401
62	-16.421	16.421	-15.401	12.117
63	-15.219	15.219	-12.117	9.0730

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 201 di 1221
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64	-13.330	13.330	-9.0730	6.4071
65	-11.557	11.557	-6.4071	4.0957
66	-9.8825	9.8825	-4.0957	2.1192
67	-8.3332	8.3332	-2.1192	0.45263
68	-6.8882	6.8882	-0.45263	-0.92502
69	-5.5799	5.5799	0.92502	-2.0410
70	-4.3754	4.3754	2.0410	-2.9161
71	-3.2946	3.2946	2.9161	-3.5750
72	-2.3132	2.3132	3.5750	-4.0376
73	-1.4493	1.4493	4.0376	-4.3275
74	-0.67810	0.67810	4.3275	-4.4631
75	-1.63119E-02	1.63119E-02	4.4631	-4.4664
76	0.55169	-0.55169	4.4664	-4.3560
77	1.0189	-1.0189	4.3560	-4.1523
78	1.4091	-1.4091	4.1523	-3.8705
79	1.7065	-1.7065	3.8705	-3.5292
80	1.9340	-1.9340	3.5292	-3.1424
81	2.0759	-2.0759	3.1424	-2.7272
82	2.1537	-2.1537	2.7272	-2.2964
83	2.1515	-2.1515	2.2964	-1.8662
84	2.0817	-2.0817	1.8662	-1.4498
85	1.9360	-1.9360	1.4498	-1.0626
86	1.7338	-1.7338	1.0626	-0.71582
87	1.4583	-1.4583	0.71582	-0.42416
88	1.1277	-1.1277	0.42416	-0.19862
89	0.72514	-0.72514	0.19862	-5.35959E-02
90	0.26798	-0.26798	5.35959E-02	1.87539E-12

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  17:58:40  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

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Tirante1_429      :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP  1
CURRENT TIME IS  2.0000

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POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  17:58:40  |
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New Project

STRESS RESULTS FOR GROUP NO. 5

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Tirante2_1507    :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP  1
CURRENT TIME IS  2.0000

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POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

ITER  0  RNORM = 0.000  RMNORM= 0.000
      RINORM=0.1904E+06  RIMNOR=0.1258E+07
      RENORM= 8234.    REMNOR=0.5203E-19  RATIO =0.2080  TOLER =0.1000E-03  NOT CONVERGED
      RFXMAX = 90.74  RMAX = 169.6
      RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
      RDT =0.1904E+06  RDR =0.1258E+07
      RATIOT=0.2080  RATIO= 0.000
      MAX UN=0.1498E-08  IEQ= 13 NODE  7 DOF  1 Y-DISPL.F

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 202 di 1221
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MIN UN=-90.74 IEQ= 31 NODE 16 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1904E+06 RIMNOR=0.1258E+07
RENORM= 6.363 REMNOR=0.3606E-19 RATIO =0.5781E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 90.74 RMMAX = 169.6
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.1904E+06 RDR =0.1258E+07
RATIOT=0.5781E-02 RATIO= 0.000
MAX UN=0.9921E-09 IEQ= 29 NODE 15 DOF 1 Y-DISPL.F
MIN UN=-1.247 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1904E+06 RIMNOR=0.1258E+07
RENORM=0.2359 REMNOR=0.2478E-19 RATIO =0.1113E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 90.74 RMMAX = 169.6
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.1904E+06 RDR =0.1258E+07
RATIOT=0.1113E-02 RATIO= 0.000
MAX UN=0.1138E-08 IEQ= 17 NODE 9 DOF 1 Y-DISPL.F
MIN UN=-.4066 IEQ= 23 NODE 12 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1904E+06 RIMNOR=0.1258E+07
RENORM=0.1081E-16 REMNOR=0.4430E-19 RATIO =0.7534E-11 TOLER =0.1000E-03 CONVERGED !
RFMAX = 90.74 RMMAX = 169.6
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.1904E+06 RDR =0.1258E+07
RATIOT=0.7534E-11 RATIO= 0.000
MAX UN=0.1348E-08 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
MIN UN=-.1152E-08 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|           PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017* |
|                                                                           |
|           NewProject.BaseDesignSection_28.A1M1R1_3484 |
|           Exe Time :29 July 2019   17:58:40 |
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New Project
SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	7.0661698E-03	-1.1222831E-03	
2	6.8417162E-03	-1.1222382E-03	
3	6.6172855E-03	-1.1220285E-03	
4	6.3929261E-03	-1.1214991E-03	
5	6.1687188E-03	-1.1204757E-03	
6	5.9447817E-03	-1.1187640E-03	
7	5.7212731E-03	-1.1161534E-03	
8	5.4983955E-03	-1.1124159E-03	
9	5.2763982E-03	-1.1073077E-03	
10	5.0555810E-03	-1.1005705E-03	
11	4.8362967E-03	-1.0919316E-03	
12	4.6189544E-03	-1.0811021E-03	
13	4.4040222E-03	-1.0677774E-03	
14	4.1920311E-03	-1.0516373E-03	
15	3.9835774E-03	-1.0323458E-03	
16	3.7793262E-03	-1.0095535E-03	
17	3.5798696E-03	-9.8505684E-04	
18	3.3852977E-03	-9.6064673E-04	
19	3.1956297E-03	-9.3595449E-04	
20	3.0109594E-03	-9.1060891E-04	
21	2.8314503E-03	-8.8430176E-04	
22	2.6573143E-03	-8.5686035E-04	
23	2.4887835E-03	-8.2825794E-04	
24	2.3260845E-03	-7.9856740E-04	
25	2.1694230E-03	-7.6789309E-04	
26	2.0189852E-03	-7.3635024E-04	
27	1.8749324E-03	-7.0406416E-04	

GENERAL CONTRACTOR

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 203 di 1221
28	1.7374000E-03	-6.7117042E-04			
29	1.6064957E-03	-6.3781516E-04			
30	1.4822950E-03	-6.0415442E-04			
31	1.3648432E-03	-5.7035514E-04			
32	1.2541503E-03	-5.3659478E-04			
33	1.1501901E-03	-5.0306145E-04			
34	1.0528981E-03	-4.6994302E-04			
35	9.6217429E-04	-4.3741045E-04			
36	8.7788543E-04	-4.0561213E-04			
37	7.9987193E-04	-3.7467641E-04			
38	7.2795008E-04	-3.4471242E-04			
39	6.6191607E-04	-3.1581173E-04			
40	6.0154974E-04	-2.8805027E-04			
41	5.4661625E-04	-2.6148921E-04			
42	4.9686988E-04	-2.3617607E-04			
43	4.5205917E-04	-2.1214747E-04			
44	4.1192385E-04	-1.8942748E-04			
45	3.7620019E-04	-1.6803041E-04			
46	3.4462311E-04	-1.4796197E-04			
47	3.1692701E-04	-1.2921933E-04			
48	2.9284776E-04	-1.1179089E-04			
49	2.7212448E-04	-9.5656643E-05			
50	2.5450077E-04	-8.0789001E-05			
51	2.3972667E-04	-6.7154403E-05			
52	2.2755929E-04	-5.4713846E-05			
53	2.1776427E-04	-4.3424388E-05			
54	2.1011592E-04	-3.3239226E-05			
55	2.0439823E-04	-2.4109292E-05			
56	2.0040524E-04	-1.5983788E-05			
57	1.9794124E-04	-8.8104969E-06			
58	1.9682110E-04	-2.5363130E-06			
59	1.9687034E-04	2.8922602E-06			
60	1.9792519E-04	7.5287023E-06			
61	1.9983255E-04	1.1426101E-05			
62	2.0244984E-04	1.4636578E-05			
63	2.0564478E-04	1.7211021E-05			
64	2.0929516E-04	1.9199170E-05			
65	2.1328930E-04	2.0660141E-05			
66	2.1752856E-04	2.1661188E-05			
67	2.2192734E-04	2.2265668E-05			
68	2.2641211E-04	2.2532863E-05			
69	2.3092145E-04	2.2517908E-05			
70	2.3540384E-04	2.2271447E-05			
71	2.3981767E-04	2.1839699E-05			
72	2.4413017E-04	2.1264732E-05			
73	2.4831655E-04	2.0584536E-05			
74	2.5235924E-04	1.9833136E-05			
75	2.5624707E-04	1.9040712E-05			
76	2.5997456E-04	1.8233749E-05			
77	2.6354112E-04	1.7434960E-05			
78	2.6695036E-04	1.6663453E-05			
79	2.7020937E-04	1.5935077E-05			
80	2.7332812E-04	1.5262576E-05			
81	2.7631878E-04	1.4655714E-05			
82	2.7919524E-04	1.4121405E-05			
83	2.8197246E-04	1.3663822E-05			
84	2.8466598E-04	1.3284502E-05			
85	2.8729152E-04	1.2982219E-05			
86	2.8986388E-04	1.2753126E-05			
87	2.9239723E-04	1.2590901E-05			
88	2.9490412E-04	1.2486866E-05			
89	2.9739512E-04	1.2429992E-05			
90	2.9987837E-04	1.2406930E-05			
91	3.0235910E-04	1.2402012E-05			



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 204 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  17:58:40  |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	1.891	-7.0662E-03	26.74	18.91	26.74	18.91	V-C	7276.	0.000	0.000	1.000	1.000
18.91	0.000	0.000	Stratol_2_8_L_0									
2 D	3.161	-6.8417E-03	20.12	15.81	20.12	15.81	V-C	7276.	-0.2000	0.000	1.000	1.000
15.81	0.000	0.000	Stratol_2_8_L_0									
3 D	3.360	-6.6173E-03	22.52	16.80	22.52	16.80	V-C	7276.	-0.4000	0.000	1.000	1.000
16.80	0.000	0.000	Stratol_2_8_L_0									
4 D	3.986	-6.3929E-03	29.60	19.93	29.60	19.93	V-C	7276.	-0.6000	0.000	1.000	1.000
19.93	0.000	0.000	Stratol_2_8_L_0									
5 D	4.194	-6.1687E-03	32.10	20.97	32.10	20.97	V-C	7276.	-0.8000	0.000	1.000	1.000
20.97	0.000	0.000	Stratol_2_8_L_0									
6 D	4.682	-5.9448E-03	37.67	23.41	37.67	23.41	V-C	7276.	-1.000	0.000	1.000	1.000
23.41	0.000	0.000	Stratol_2_8_L_0									
7 D	4.917	-5.7213E-03	40.46	24.58	40.46	24.58	V-C	7276.	-1.200	0.000	1.000	1.000
24.58	0.000	0.000	Stratol_2_8_L_0									
8 D	5.352	-5.4984E-03	45.48	26.76	45.48	26.76	V-C	7276.	-1.400	0.000	1.000	1.000
26.76	0.000	0.000	Stratol_2_8_L_0									
9 D	5.534	-5.2764E-03	47.70	27.67	47.70	27.67	V-C	7276.	-1.600	0.000	1.000	1.000
27.67	0.000	0.000	Stratol_2_8_L_0									
10 D	5.949	-5.0556E-03	52.50	29.75	52.50	29.75	V-C	7276.	-1.800	0.000	1.000	1.000
29.75	0.000	0.000	Stratol_2_8_L_0									
11 D	6.218	-4.8363E-03	55.71	31.09	55.71	31.09	V-C	7276.	-2.000	0.000	1.000	1.000
31.09	0.000	0.000	Stratol_2_8_L_0									
12 D	6.611	-4.6190E-03	60.30	33.06	60.30	33.06	V-C	7276.	-2.200	0.000	1.000	1.000
33.06	0.000	0.000	Stratol_2_8_L_0									
13 D	6.883	-4.4040E-03	63.58	34.42	63.58	34.42	V-C	7276.	-2.400	0.000	1.000	1.000
34.42	0.000	0.000	Stratol_2_8_L_0									
14 D	7.260	-4.1920E-03	68.04	36.30	68.04	36.30	V-C	7276.	-2.600	0.000	1.000	1.000
36.30	0.000	0.000	Stratol_2_8_L_0									
15 D	7.466	-3.9836E-03	71.38	37.33	71.38	37.83	UL-RL	2.1827E+04	-2.800	0.000	1.000	1.000
37.33	0.000	0.000	Stratol_2_8_L_0									
16 D	7.602	-3.7793E-03	75.31	38.01	75.31	39.92	UL-RL	2.1827E+04	-3.000	0.000	1.000	1.000
38.01	0.000	0.000	Stratol_2_8_L_0									
17 D	7.696	-3.5799E-03	78.73	38.48	78.73	41.73	UL-RL	2.1827E+04	-3.200	0.000	1.000	1.000
38.48	0.000	0.000	Stratol_2_8_L_0									
18 D	7.836	-3.3853E-03	83.04	39.18	83.04	44.01	UL-RL	2.1827E+04	-3.400	0.000	1.000	1.000
39.18	0.000	0.000	Stratol_2_8_L_0									
19 D	7.916	-3.1956E-03	86.49	39.58	86.49	45.84	UL-RL	2.1827E+04	-3.600	0.000	1.000	1.000
39.58	0.000	0.000	Stratol_2_8_L_0									
20 D	8.040	-3.0110E-03	90.74	40.20	90.74	48.09	UL-RL	2.1827E+04	-3.800	0.000	1.000	1.000
40.20	0.000	0.000	Stratol_2_8_L_0									
21 D	8.113	-2.8315E-03	94.22	40.57	94.22	49.94	UL-RL	2.1827E+04	-4.000	0.000	1.000	1.000
40.57	0.000	0.000	Stratol_2_8_L_0									
22 D	8.229	-2.6573E-03	98.43	41.14	98.43	52.17	UL-RL	2.1827E+04	-4.200	0.000	1.000	1.000
41.14	0.000	0.000	Stratol_2_8_L_0									
23 D	8.301	-2.4888E-03	101.9	41.50	101.9	54.02	UL-RL	2.1827E+04	-4.400	0.000	1.000	1.000
41.50	0.000	0.000	Stratol_2_8_L_0									
24 D	8.397	-2.3261E-03	105.8	41.98	105.8	56.08	UL-RL	2.1827E+04	-4.600	0.000	1.000	1.000
41.98	0.000	0.000	Stratol_2_8_L_0									
25 D	8.473	-2.1694E-03	109.3	42.37	109.3	57.95	UL-RL	2.1827E+04	-4.800	0.000	1.000	1.000
42.37	0.000	0.000	Stratol_2_8_L_0									
26 D	8.589	-2.0190E-03	113.5	42.95	113.5	60.15	UL-RL	2.1827E+04	-5.000	0.000	1.000	1.000
42.95	0.000	0.000	Stratol_2_8_L_0									
27 D	8.673	-1.8749E-03	117.0	43.36	117.0	62.03	UL-RL	2.1827E+04	-5.200	0.000	1.000	1.000
43.36	0.000	0.000	Stratol_2_8_L_0									
28 D	8.794	-1.7374E-03	121.2	43.97	121.2	64.21	UL-RL	2.1827E+04	-5.400	0.000	1.000	1.000
43.97	0.000	0.000	Stratol_2_8_L_0									
29 D	8.887	-1.6065E-03	124.7	44.43	124.7	66.10	UL-RL	2.1827E+04	-5.600	0.000	1.000	1.000
44.43	0.000	0.000	Stratol_2_8_L_0									
30 D	9.016	-1.4823E-03	128.8	45.08	128.8	68.27	UL-RL	2.1827E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR

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Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 205 di 1221
45.08	0.000	0.000	Strato1_2_8_L_0				
31 D	9.106	-1.3648E-03	132.2	45.53	132.2	70.06	UL-RL 2.1827E+04 -6.000 0.000 1.000 1.000
45.53	0.000	0.000	Strato1_2_8_L_0				
32 D	9.246	-1.2542E-03	136.3	46.23	136.3	72.22	UL-RL 2.1827E+04 -6.200 0.000 1.000 1.000
46.23	0.000	0.000	Strato1_2_8_L_0				
33 D	9.804	-1.1502E-03	139.9	49.02	139.9	74.12	UL-RL 2.1827E+04 -6.400 0.000 1.000 1.000
49.02	0.000	0.000	Strato1_2_8_L_0				
34 D	10.66	-1.0529E-03	143.9	53.29	143.9	76.28	UL-RL 2.1827E+04 -6.600 0.000 1.000 1.000
53.29	0.000	0.000	Strato1_2_8_L_0				
35 D	11.44	-9.6217E-04	147.5	57.19	147.5	78.19	UL-RL 2.1827E+04 -6.800 0.000 1.000 1.000
57.19	0.000	0.000	Strato1_2_8_L_0				
36 D	12.23	-8.7789E-04	151.6	61.17	151.6	80.33	UL-RL 2.1827E+04 -7.000 0.000 1.000 1.000
61.17	0.000	0.000	Strato1_2_8_L_0				
37 D	12.96	-7.9987E-04	155.2	64.79	155.2	82.25	UL-RL 2.1827E+04 -7.200 0.000 1.000 1.000
64.79	0.000	0.000	Strato1_2_8_L_0				
38 D	13.70	-7.2795E-04	159.2	68.49	159.2	84.38	UL-RL 2.1827E+04 -7.400 0.000 1.000 1.000
68.49	0.000	0.000	Strato1_2_8_L_0				
39 D	14.35	-6.6192E-04	162.7	71.77	162.7	86.21	UL-RL 2.1827E+04 -7.600 0.000 1.000 1.000
71.77	0.000	0.000	Strato1_2_8_L_0				
40 D	15.04	-6.0155E-04	166.7	75.21	166.7	88.34	UL-RL 2.1827E+04 -7.800 0.000 1.000 1.000
75.21	0.000	0.000	Strato1_2_8_L_0				
41 D	15.67	-5.4662E-04	170.3	78.34	170.3	90.27	UL-RL 2.1827E+04 -8.000 0.000 1.000 1.000
78.34	0.000	0.000	Strato1_2_8_L_0				
42 D	16.31	-4.9687E-04	174.3	81.55	174.3	92.40	UL-RL 2.1827E+04 -8.200 0.000 1.000 1.000
81.55	0.000	0.000	Strato1_2_8_L_0				
43 D	16.89	-4.5206E-04	178.0	84.46	178.0	94.33	UL-RL 2.1827E+04 -8.400 0.000 1.000 1.000
84.46	0.000	0.000	Strato1_2_8_L_0				
44 D	17.49	-4.1192E-04	182.0	87.45	182.0	96.45	UL-RL 2.1827E+04 -8.600 0.000 1.000 1.000
87.45	0.000	0.000	Strato1_2_8_L_0				
45 D	18.03	-3.7620E-04	185.6	90.17	185.6	98.38	UL-RL 2.1827E+04 -8.800 0.000 1.000 1.000
90.17	0.000	0.000	Strato1_2_8_L_0				
46 D	18.58	-3.4462E-04	189.5	92.89	189.5	100.4	UL-RL 2.1827E+04 -9.000 0.000 1.000 1.000
92.89	0.000	0.000	Strato1_2_8_L_0				
47 D	19.09	-3.1693E-04	193.1	95.44	193.1	102.4	UL-RL 2.1827E+04 -9.200 0.000 1.000 1.000
95.44	0.000	0.000	Strato1_2_8_L_0				
48 D	19.61	-2.9285E-04	197.1	98.07	197.1	104.5	UL-RL 2.1827E+04 -9.400 0.000 1.000 1.000
98.07	0.000	0.000	Strato1_2_8_L_0				
49 D	20.09	-2.7212E-04	200.8	100.5	200.8	106.4	UL-RL 2.1827E+04 -9.600 0.000 1.000 1.000
100.5	0.000	0.000	Strato1_2_8_L_0				
50 D	20.59	-2.5450E-04	204.7	103.0	204.7	108.5	UL-RL 2.1827E+04 -9.800 0.000 1.000 1.000
103.0	0.000	0.000	Strato1_2_8_L_0				
51 D	21.04	-2.3973E-04	208.4	105.2	208.4	110.5	UL-RL 2.1827E+04 -10.00 0.000 1.000 1.000
105.2	0.000	0.000	Strato1_2_8_L_0				
52 D	21.52	-2.2756E-04	212.4	107.6	212.4	112.6	UL-RL 2.1827E+04 -10.20 0.000 1.000 1.000
107.6	0.000	0.000	Strato1_2_8_L_0				
53 D	21.95	-2.1776E-04	216.0	109.8	216.0	114.5	UL-RL 2.1827E+04 -10.40 0.000 1.000 1.000
109.8	0.000	0.000	Strato1_2_8_L_0				
54 D	22.39	-2.1012E-04	219.9	112.0	219.9	116.5	UL-RL 2.1827E+04 -10.60 0.000 1.000 1.000
112.0	0.000	0.000	Strato1_2_8_L_0				
55 D	22.81	-2.0440E-04	223.6	114.0	223.6	118.5	UL-RL 2.1827E+04 -10.80 0.000 1.000 1.000
114.0	0.000	0.000	Strato1_2_8_L_0				
56 D	23.24	-2.0041E-04	227.5	116.2	227.5	120.6	UL-RL 2.1827E+04 -11.00 0.000 1.000 1.000
116.2	0.000	0.000	Strato1_2_8_L_0				
57 D	23.64	-1.9794E-04	231.2	118.2	231.2	122.5	UL-RL 2.1827E+04 -11.20 0.000 1.000 1.000
118.2	0.000	0.000	Strato1_2_8_L_0				
58 D	24.07	-1.9682E-04	235.1	120.3	235.1	124.6	UL-RL 2.1827E+04 -11.40 0.000 1.000 1.000
120.3	0.000	0.000	Strato1_2_8_L_0				
59 D	24.46	-1.9687E-04	238.8	122.3	238.8	126.6	UL-RL 2.1827E+04 -11.60 0.000 1.000 1.000
122.3	0.000	0.000	Strato1_2_8_L_0				
60 D	24.87	-1.9793E-04	242.8	124.4	242.8	128.7	UL-RL 2.1827E+04 -11.80 0.000 1.000 1.000
124.4	0.000	0.000	Strato1_2_8_L_0				
61 D	25.24	-1.9983E-04	246.4	126.2	246.4	130.6	UL-RL 2.1827E+04 -12.00 0.000 1.000 1.000
126.2	0.000	0.000	Strato1_2_8_L_0				
62 D	25.65	-2.0245E-04	250.3	128.2	250.3	132.7	UL-RL 2.1827E+04 -12.20 0.000 1.000 1.000
128.2	0.000	0.000	Strato1_2_8_L_0				
63 D	26.03	-2.0564E-04	254.0	130.1	254.0	134.6	UL-RL 2.1827E+04 -12.40 0.000 1.000 1.000
130.1	0.000	0.000	Strato1_2_8_L_0				
64 D	23.21	-2.0930E-04	257.9	116.0	257.9	129.0	UL-RL 6.1746E+04 -12.60 0.000 1.000 1.000
116.0	0.000	0.000	Strato2_3095_82743_L_0				
65 D	23.55	-2.1329E-04	261.8	117.7	261.8	130.9	UL-RL 6.1746E+04 -12.80 0.000 1.000 1.000
117.7	0.000	0.000	Strato2_3095_82743_L_0				
66 D	23.91	-2.1753E-04	266.0	119.5	266.0	133.0	UL-RL 6.1746E+04 -13.00 0.000 1.000 1.000
119.5	0.000	0.000	Strato2_3095_82743_L_0				
67 D	24.24	-2.2193E-04	269.9	121.2	269.9	134.9	UL-RL 6.1746E+04 -13.20 0.000 1.000 1.000
121.2	0.000	0.000	Strato2_3095_82743_L_0				
68 D	24.60	-2.2641E-04	274.0	123.0	274.0	137.0	UL-RL 6.1746E+04 -13.40 0.000 1.000 1.000
123.0	0.000	0.000	Strato2_3095_82743_L_0				
69 D	24.93	-2.3092E-04	277.8	124.6	277.8	138.9	UL-RL 6.1746E+04 -13.60 0.000 1.000 1.000
124.6	0.000	0.000	Strato2_3095_82743_L_0				
70 D	25.28	-2.3540E-04	281.9	126.4	281.9	141.0	UL-RL 6.1746E+04 -13.80 0.000 1.000 1.000
126.4	0.000	0.000	Strato2_3095_82743_L_0				
71 D	25.62	-2.3982E-04	285.8	128.1	285.8	142.9	UL-RL 6.1746E+04 -14.00 0.000 1.000 1.000
128.1	0.000	0.000	Strato2_3095_82743_L_0				
72 D	25.98	-2.4413E-04	289.9	129.9	289.9	145.0	UL-RL 6.1746E+04 -14.20 0.000 1.000 1.000
129.9	0.000	0.000	Strato2_3095_82743_L_0				

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 207 di 1221
11	0.000	--	--	--	--
0.000	0.000	0.000	not available		
12	0.000	--	--	--	--
0.000	0.000	0.000	not available		
13	0.000	--	--	--	--
0.000	0.000	0.000	not available		
14	0.000	--	--	--	--
0.000	0.000	0.000	not available		
15	0.000	--	--	--	--
0.000	0.000	0.000	not available		
16	0.000	--	--	--	--
0.000	0.000	0.000	not available		
17	0.000	--	--	--	--
0.000	0.000	0.000	not available		
18	0.000	--	--	--	--
0.000	0.000	0.000	not available		
19 D	0.1155	3.1956E-03	1.900 0.5776	68.40	36.25
0.5776	0.000	0.000	Stratol_2_8_L_0		
20 D	2.856	3.0110E-03	5.700 14.28	72.20	38.27
14.28	0.000	0.000	Stratol_2_8_L_0		
21 D	6.023	2.8315E-03	9.500 30.12	76.00	40.28
30.12	0.000	0.000	Stratol_2_8_L_0		
22 D	9.192	2.6573E-03	13.30 45.96	79.80	53.75
45.96	0.000	0.000	Stratol_2_8_L_0		
23 D	10.40	2.4888E-03	17.10 52.01	83.60	59.31
52.01	0.000	0.000	Stratol_2_8_L_0		
24 D	10.70	2.3261E-03	20.90 53.52	87.40	60.34
53.52	0.000	0.000	Stratol_2_8_L_0		
25 D	11.01	2.1694E-03	24.70 55.07	91.20	61.40
55.07	0.000	0.000	Stratol_2_8_L_0		
26 D	11.33	2.0190E-03	28.50 56.64	95.00	62.50
56.64	0.000	0.000	Stratol_2_8_L_0		
27 D	11.65	1.8749E-03	32.30 58.23	98.80	63.63
58.23	0.000	0.000	Stratol_2_8_L_0		
28 D	11.97	1.7374E-03	36.10 59.85	102.6	64.80
59.85	0.000	0.000	Stratol_2_8_L_0		
29 D	12.30	1.6065E-03	39.90 61.49	106.4	66.01
61.49	0.000	0.000	Stratol_2_8_L_0		
30 D	12.63	1.4823E-03	43.70 63.15	110.2	67.26
63.15	0.000	0.000	Stratol_2_8_L_0		
31 D	12.97	1.3648E-03	47.50 64.84	114.0	68.55
64.84	0.000	0.000	Stratol_2_8_L_0		
32 D	13.31	1.2542E-03	51.30 66.54	117.8	69.88
66.54	0.000	0.000	Stratol_2_8_L_0		
33 D	13.65	1.1502E-03	55.10 68.27	121.6	71.25
68.27	0.000	0.000	Stratol_2_8_L_0		
34 D	14.00	1.0529E-03	58.90 70.02	125.4	72.66
70.02	0.000	0.000	Stratol_2_8_L_0		
35 D	14.36	9.6217E-04	62.70 71.78	129.2	74.11
71.78	0.000	0.000	Stratol_2_8_L_0		
36 D	14.71	8.7789E-04	66.50 73.57	133.0	75.60
73.57	0.000	0.000	Stratol_2_8_L_0		
37 D	15.07	7.9987E-04	70.30 75.37	136.8	77.13
75.37	0.000	0.000	Stratol_2_8_L_0		
38 D	15.44	7.2795E-04	74.10 77.19	140.6	78.69
77.19	0.000	0.000	Stratol_2_8_L_0		
39 D	15.81	6.6192E-04	77.90 79.03	144.4	80.29
79.03	0.000	0.000	Stratol_2_8_L_0		
40 D	16.18	6.0155E-04	81.70 80.89	148.2	81.93
80.89	0.000	0.000	Stratol_2_8_L_0		
41 D	16.55	5.4662E-04	85.50 82.75	152.0	83.60
82.75	0.000	0.000	Stratol_2_8_L_0		
42 D	16.93	4.9687E-04	89.30 84.64	155.8	85.31
84.64	0.000	0.000	Stratol_2_8_L_0		
43 D	17.31	4.5206E-04	93.10 86.53	159.6	87.04
86.53	0.000	0.000	Stratol_2_8_L_0		
44 D	17.69	4.1192E-04	96.90 88.44	163.4	88.80
88.44	0.000	0.000	Stratol_2_8_L_0		
45 D	18.07	3.7620E-04	100.7 90.36	167.2	90.59
90.36	0.000	0.000	Stratol_2_8_L_0		
46 D	18.42	3.4462E-04	104.5 92.11	171.0	92.50
92.11	0.000	0.000	Stratol_2_8_L_0		
47 D	18.76	3.1693E-04	108.3 93.78	174.8	94.48
93.78	0.000	0.000	Stratol_2_8_L_0		
48 D	19.10	2.9285E-04	112.1 95.50	178.6	96.45
95.50	0.000	0.000	Stratol_2_8_L_0		
49 D	19.45	2.7212E-04	115.9 97.27	182.4	98.44
97.27	0.000	0.000	Stratol_2_8_L_0		
50 D	19.81	2.5450E-04	119.7 99.07	186.2	100.4
99.07	0.000	0.000	Stratol_2_8_L_0		
51 D	20.18	2.3973E-04	123.5 100.9	190.0	102.4
100.9	0.000	0.000	Stratol_2_8_L_0		
52 D	20.56	2.2756E-04	127.3 102.8	193.8	104.4
102.8	0.000	0.000	Stratol_2_8_L_0		
53 D	20.94	2.1776E-04	131.1 104.7	197.6	106.4

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 208 di 1221
104.7	0.000	0.000	Strato1_2_8_L_0		
54 D	21.33	2.1012E-04	134.9 106.7	201.4	108.4
106.7	0.000	0.000	Strato1_2_8_L_0		
55 D	21.72	2.0440E-04	138.7 108.6	205.2	110.4
108.6	0.000	0.000	Strato1_2_8_L_0		
56 D	22.12	2.0041E-04	142.5 110.6	209.0	112.4
110.6	0.000	0.000	Strato1_2_8_L_0		
57 D	22.53	1.9794E-04	146.3 112.6	212.8	114.4
112.6	0.000	0.000	Strato1_2_8_L_0		
58 D	22.93	1.9682E-04	150.1 114.7	216.6	116.4
114.7	0.000	0.000	Strato1_2_8_L_0		
59 D	23.34	1.9687E-04	153.9 116.7	220.4	118.4
116.7	0.000	0.000	Strato1_2_8_L_0		
60 D	23.75	1.9793E-04	157.7 118.8	224.2	120.4
118.8	0.000	0.000	Strato1_2_8_L_0		
61 D	24.17	1.9983E-04	161.5 120.8	228.0	122.4
120.8	0.000	0.000	Strato1_2_8_L_0		
62 D	24.58	2.0245E-04	165.3 122.9	231.8	124.4
122.9	0.000	0.000	Strato1_2_8_L_0		
63 D	25.00	2.0564E-04	169.1 125.0	235.6	126.4
125.0	0.000	0.000	Strato1_2_8_L_0		
64 D	21.75	2.0930E-04	172.9 108.7	239.4	119.7
108.7	0.000	0.000	Strato2_3095_82743_L_0		
65 D	22.18	2.1329E-04	176.9 110.9	243.4	121.7
110.9	0.000	0.000	Strato2_3095_82743_L_0		
66 D	22.61	2.1753E-04	180.9 113.1	247.4	123.7
113.1	0.000	0.000	Strato2_3095_82743_L_0		
67 D	23.05	2.2193E-04	184.9 115.2	251.4	125.7
115.2	0.000	0.000	Strato2_3095_82743_L_0		
68 D	23.48	2.2641E-04	188.9 117.4	255.4	127.7
117.4	0.000	0.000	Strato2_3095_82743_L_0		
69 D	23.91	2.3092E-04	192.9 119.6	259.4	129.7
119.6	0.000	0.000	Strato2_3095_82743_L_0		
70 D	24.35	2.3540E-04	196.9 121.7	263.4	131.7
121.7	0.000	0.000	Strato2_3095_82743_L_0		
71 D	24.78	2.3982E-04	200.9 123.9	267.4	133.7
123.9	0.000	0.000	Strato2_3095_82743_L_0		
72 D	25.22	2.4413E-04	204.9 126.1	271.4	135.7
126.1	0.000	0.000	Strato2_3095_82743_L_0		
73 D	25.65	2.4832E-04	208.9 128.2	275.4	137.7
128.2	0.000	0.000	Strato2_3095_82743_L_0		
74 D	26.08	2.5236E-04	212.9 130.4	279.4	139.7
130.4	0.000	0.000	Strato2_3095_82743_L_0		
75 D	26.51	2.5625E-04	216.9 132.5	283.4	141.7
132.5	0.000	0.000	Strato2_3095_82743_L_0		
76 D	26.94	2.5997E-04	220.9 134.7	287.4	143.7
134.7	0.000	0.000	Strato2_3095_82743_L_0		
77 D	27.36	2.6354E-04	224.9 136.8	291.4	145.7
136.8	0.000	0.000	Strato2_3095_82743_L_0		
78 D	27.79	2.6695E-04	228.9 138.9	295.4	147.7
138.9	0.000	0.000	Strato2_3095_82743_L_0		
79 D	28.21	2.7021E-04	232.9 141.1	299.4	149.7
141.1	0.000	0.000	Strato2_3095_82743_L_0		
80 D	28.64	2.7333E-04	236.9 143.2	303.4	151.7
143.2	0.000	0.000	Strato2_3095_82743_L_0		
81 D	29.06	2.7632E-04	240.9 145.3	307.4	153.7
145.3	0.000	0.000	Strato2_3095_82743_L_0		
82 D	29.48	2.7920E-04	244.9 147.4	311.4	155.7
147.4	0.000	0.000	Strato2_3095_82743_L_0		
83 D	29.91	2.8197E-04	248.9 149.5	315.4	157.7
149.5	0.000	0.000	Strato2_3095_82743_L_0		
84 D	30.33	2.8467E-04	252.9 151.6	319.4	159.7
151.6	0.000	0.000	Strato2_3095_82743_L_0		
85 D	30.75	2.8729E-04	256.9 153.7	323.4	161.7
153.7	0.000	0.000	Strato2_3095_82743_L_0		
86 D	31.17	2.8986E-04	260.9 155.8	327.4	163.7
155.8	0.000	0.000	Strato2_3095_82743_L_0		
87 D	31.59	2.9240E-04	264.9 157.9	331.4	165.7
157.9	0.000	0.000	Strato2_3095_82743_L_0		
88 D	32.01	2.9490E-04	268.9 160.0	335.4	167.7
160.0	0.000	0.000	Strato2_3095_82743_L_0		
89 D	32.42	2.9740E-04	272.9 162.1	339.4	169.7
162.1	0.000	0.000	Strato2_3095_82743_L_0		
90 D	32.84	2.9988E-04	276.9 164.2	343.4	171.7
164.2	0.000	0.000	Strato2_3095_82743_L_0		
91 D	16.63	3.0236E-04	280.9 166.3	347.4	173.7
166.3	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
209 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      17:58:40          |
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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_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 C U R R E N T T I M E I S 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.8909	-1.8909	3.98845E-11	0.37818
2	5.0519	-5.0519	-0.37818	1.3886
3	8.4124	-8.4124	-1.3886	3.0710
4	12.399	-12.399	-3.0710	5.5507
5	16.593	-16.593	-5.5507	8.8693
6	21.274	-21.274	-8.8693	13.124
7	26.191	-26.191	-13.124	18.362
8	31.544	-31.544	-18.362	24.671
9	37.078	-37.078	-24.671	32.087
10	43.027	-43.027	-32.087	40.692
11	49.245	-49.245	-40.692	50.541
12	55.856	-55.856	-50.541	61.712
13	62.740	-62.740	-61.712	74.260
14	70.000	-70.000	-74.260	88.260
15	77.466	-77.466	-88.260	103.75
16	-5.6717	5.6717	-103.75	102.62
17	2.0242	-2.0242	-102.62	103.02
18	9.8599	-9.8599	-103.02	105.00
19	17.660	-17.660	-105.00	108.53
20	22.844	-22.844	-108.53	113.10
21	24.934	-24.934	-113.10	118.08
22	23.971	-23.971	-118.08	122.88
23	21.870	-21.870	-122.88	127.25
24	19.563	-19.563	-127.25	131.16
25	17.022	-17.022	-131.16	134.57
26	14.285	-14.285	-134.57	137.43
27	11.311	-11.311	-137.43	139.69
28	8.1359	-8.1359	-139.69	141.32
29	4.7250	-4.7250	-141.32	142.26
30	1.1108	-1.1108	-142.26	142.48
31	-2.7502	2.7502	-142.48	141.93
32	-6.8131	6.8131	-141.93	140.57
33	-10.663	10.663	-140.57	138.44
34	-14.008	14.008	-138.44	135.64
35	-16.927	16.927	-135.64	132.25
36	-19.407	19.407	-132.25	128.37
37	-21.524	21.524	-128.37	124.06
38	-23.264	23.264	-124.06	119.41
39	-24.718	24.718	-119.41	114.47
40	-25.852	25.852	-114.47	109.30
41	-26.735	26.735	-109.30	103.95
42	-27.352	27.352	-103.95	98.479
43	-27.766	27.766	-98.479	92.926
44	-27.963	27.963	-92.926	87.334
45	-28.002	28.002	-87.334	81.733
46	-27.845	27.845	-81.733	76.164
47	-27.513	27.513	-76.164	70.662
48	-26.998	26.998	-70.662	65.262
49	-26.358	26.358	-65.262	59.991
50	-25.581	25.581	-59.991	54.874
51	-24.720	24.720	-54.874	49.930
52	-23.762	23.762	-49.930	45.178
53	-22.754	22.754	-45.178	40.627
54	-21.695	21.695	-40.627	36.288
55	-20.614	20.614	-36.288	32.165
56	-19.495	19.495	-32.165	28.266
57	-18.377	18.377	-28.266	24.591
58	-17.242	17.242	-24.591	21.142
59	-16.125	16.125	-21.142	17.917
60	-15.006	15.006	-17.917	14.916
61	-13.929	13.929	-14.916	12.130
62	-12.862	12.862	-12.130	9.5580
63	-11.834	11.834	-9.5580	7.1912

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
210 di 1221

64	-10.372	10.372	-7.1912	5.1168
65	-9.0012	9.0012	-5.1168	3.3165
66	-7.7032	7.7032	-3.3165	1.7759
67	-6.5039	6.5039	-1.7759	0.47520
68	-5.3819	5.3819	-0.47520	-0.60118
69	-4.3698	4.3698	0.60118	-1.4751
70	-3.4350	3.4350	1.4751	-2.1621
71	-2.5978	2.5978	2.1621	-2.6817
72	-1.8348	1.8348	2.6817	-3.0486
73	-1.1645	1.1645	3.0486	-3.2815
74	-0.56345	0.56345	3.2815	-3.3942
75	-4.90228E-02	4.90228E-02	3.3942	-3.4040
76	0.39338	-0.39338	3.4040	-3.3254
77	0.75578	-0.75578	3.3254	-3.1742
78	1.0610	-1.0610	3.1742	-2.9620
79	1.2925	-1.2925	2.9620	-2.7035
80	1.4723	-1.4723	2.7035	-2.4090
81	1.5838	-1.5838	2.4090	-2.0923
82	1.6481	-1.6481	2.0923	-1.7626
83	1.6485	-1.6485	1.7626	-1.4329
84	1.5971	-1.5971	1.4329	-1.1135
85	1.4851	-1.4851	1.1135	-0.81649
86	1.3316	-1.3316	0.81649	-0.55017
87	1.1195	-1.1195	0.55017	-0.32627
88	0.86705	-0.86705	0.32627	-0.15286
89	0.55715	-0.55715	0.15286	-4.14304E-02
90	0.20715	-0.20715	4.14304E-02	-5.25213E-12

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1MIR1_3484
|          Exe Time :29 July 2019      17:58:40
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New Project

STRESS RESULTS FOR GROUP NO. 4

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Tirante1_429      :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
CURRENT TIME IS   3.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	93.940	-6.68821E-04	-6.68821E-04	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1MIR1_3484
|          Exe Time :29 July 2019      17:58:40
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New Project

STRESS RESULTS FOR GROUP NO. 5

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Tirante2_1507    :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
CURRENT TIME IS   3.0000

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POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
--	----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER      0  RNORM = 0.000      RMNORM= 0.000
RINORM=0.1541E+06  RIMNOR=0.1026E+07
RENORM= 6333.      REMNOR=0.4430E-19  RATIO =0.2027      TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 90.74      RMMAX = 142.5
RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
RDT  =0.1541E+06  RDR  =0.1026E+07
RATIOT=0.2027     RATOR= 0.000
MAX UN= 17.69     IEQ=   87 NODE      44 DOF      1  Y-DISPL.F
MIN UN=-.1152E-08  IEQ=   13 NODE      7 DOF      1  Y-DISPL.F

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 211 di 1221
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NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1541E+06 RIMNOR=0.1026E+07
 RENORM= 587.5 REMNOR=0.4964E-18 RATIO =0.6175E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 142.5
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1541E+06 RDR =0.1026E+07
 RATIOT=0.6175E-01 RATIOR= 0.000
 MAX UN= 6.586 IEQ= 63 NODE 32 DOF 1 Y-DISPL.F
 MIN UN=-.1559E-08 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1541E+06 RIMNOR=0.1026E+07
 RENORM= 329.2 REMNOR=0.1001E-17 RATIO =0.4622E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 142.5
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1541E+06 RDR =0.1026E+07
 RATIOT=0.4622E-01 RATIOR= 0.000
 MAX UN= 7.220 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F
 MIN UN=-.3827E-08 IEQ= 73 NODE 37 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1541E+06 RIMNOR=0.1026E+07
 RENORM= 30.70 REMNOR=0.5270E-17 RATIO =0.1412E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 142.5
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1541E+06 RDR =0.1026E+07
 RATIOT=0.1412E-01 RATIOR= 0.000
 MAX UN= 3.721 IEQ= 107 NODE 54 DOF 1 Y-DISPL.F
 MIN UN=-.1348E-01 IEQ= 181 NODE 91 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1541E+06 RIMNOR=0.1026E+07
 RENORM=0.3268 REMNOR=0.2045E-17 RATIO =0.1456E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 142.5
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1541E+06 RDR =0.1026E+07
 RATIOT=0.1456E-02 RATIOR= 0.000
 MAX UN=0.4591 IEQ= 115 NODE 58 DOF 1 Y-DISPL.F
 MIN UN=-.8158E-08 IEQ= 39 NODE 20 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1541E+06 RIMNOR=0.1026E+07
 RENORM=0.3081E-04 REMNOR=0.1758E-17 RATIO =0.1414E-04 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 90.74 RMMAX = 142.5
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1541E+06 RDR =0.1026E+07
 RATIOT=0.1414E-04 RATIOR= 0.000
 MAX UN=0.7631E-08 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F
 MIN UN=-.5551E-02 IEQ= 179 NODE 90 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
212 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019    17:58:40                             |
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New Project

SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 4 (AT TIME 4.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.2855016E-02	-2.2099388E-03	
2	3.2413029E-02	-2.2099195E-03	
3	3.1971052E-02	-2.2098326E-03	
4	3.1529105E-02	-2.2096165E-03	
5	3.1087219E-02	-2.2091960E-03	
6	3.0645446E-02	-2.2084820E-03	
7	3.0203853E-02	-2.2073739E-03	
8	2.9762530E-02	-2.2057589E-03	
9	2.9321591E-02	-2.2035129E-03	
10	2.8881176E-02	-2.2005014E-03	
11	2.8441451E-02	-2.1965798E-03	
12	2.8002615E-02	-2.1915920E-03	
13	2.7564897E-02	-2.1853704E-03	
14	2.7128561E-02	-2.1777362E-03	
15	2.6693909E-02	-2.1684995E-03	
16	2.6261282E-02	-2.1574590E-03	
17	2.5830829E-02	-2.1478685E-03	
18	2.5401821E-02	-2.1429711E-03	
19	2.4973343E-02	-2.1425333E-03	
20	2.4544527E-02	-2.1463104E-03	
21	2.4114555E-02	-2.1540466E-03	
22	2.3682662E-02	-2.1654749E-03	
23	2.3248138E-02	-2.1803173E-03	
24	2.2810329E-02	-2.1982844E-03	
25	2.2368638E-02	-2.2190765E-03	
26	2.1922531E-02	-2.2423831E-03	
27	2.1471538E-02	-2.2678825E-03	
28	2.1015254E-02	-2.2952420E-03	
29	2.0553343E-02	-2.3241174E-03	
30	2.0085532E-02	-2.3541544E-03	
31	1.9611628E-02	-2.3849866E-03	
32	1.9131509E-02	-2.4162374E-03	
33	1.8645131E-02	-2.4475194E-03	
34	1.8152526E-02	-2.4784340E-03	
35	1.7653812E-02	-2.5085713E-03	
36	1.7149180E-02	-2.5375112E-03	
37	1.6638916E-02	-2.5648216E-03	
38	1.6123389E-02	-2.5900599E-03	
39	1.5603060E-02	-2.6127722E-03	
40	1.5078482E-02	-2.6324939E-03	
41	1.4550296E-02	-2.6487497E-03	
42	1.4019235E-02	-2.6610532E-03	
43	1.3486161E-02	-2.6689066E-03	
44	1.2952006E-02	-2.6718016E-03	
45	1.2417808E-02	-2.6692186E-03	
46	1.1884717E-02	-2.6606636E-03	
47	1.1353967E-02	-2.6457408E-03	
48	1.0826862E-02	-2.6241898E-03	
49	1.0304744E-02	-2.5958849E-03	
50	9.7889607E-03	-2.5608347E-03	
51	9.2808506E-03	-2.5191832E-03	
52	8.7817039E-03	-2.4712085E-03	
53	8.2927561E-03	-2.4173249E-03	
54	7.8151340E-03	-2.3580407E-03	
55	7.3498641E-03	-2.2938923E-03	
56	6.8978657E-03	-2.2254149E-03	
57	6.4599511E-03	-2.1531430E-03	
58	6.0368259E-03	-2.0776105E-03	
59	5.6290887E-03	-1.9993509E-03	
60	5.2372324E-03	-1.9188886E-03	
61	4.8616472E-03	-1.8367183E-03	
62	4.5026285E-03	-1.7532960E-03	
63	4.1603843E-03	-1.6690402E-03	
64	3.8350424E-03	-1.5843341E-03	
65	3.5266434E-03	-1.4997374E-03	
66	3.2350902E-03	-1.4160000E-03	
67	2.9601376E-03	-1.3338490E-03	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 214 di 1221							
18 D	5.049	-2.5402E-02	83.04	25.24	83.04	44.01	ACTIVE	0.000	-3.400	0.000	1.000	1.000
25.24	0.000	0.000	Stratol_2_8_L_0									
19 D	5.259	-2.4973E-02	86.49	26.29	86.49	45.84	ACTIVE	0.000	-3.600	0.000	1.000	1.000
26.29	0.000	0.000	Stratol_2_8_L_0									
20 D	5.517	-2.4545E-02	90.74	27.59	90.74	48.09	ACTIVE	0.000	-3.800	0.000	1.000	1.000
27.59	0.000	0.000	Stratol_2_8_L_0									
21 D	5.729	-2.4115E-02	94.22	28.64	94.22	49.94	ACTIVE	0.000	-4.000	0.000	1.000	1.000
28.64	0.000	0.000	Stratol_2_8_L_0									
22 D	5.984	-2.3683E-02	98.43	29.92	98.43	52.17	ACTIVE	0.000	-4.200	0.000	1.000	1.000
29.92	0.000	0.000	Stratol_2_8_L_0									
23 D	6.197	-2.3248E-02	101.9	30.99	101.9	54.02	ACTIVE	0.000	-4.400	0.000	1.000	1.000
30.99	0.000	0.000	Stratol_2_8_L_0									
24 D	6.433	-2.2810E-02	105.8	32.17	105.8	56.08	ACTIVE	0.000	-4.600	0.000	1.000	1.000
32.17	0.000	0.000	Stratol_2_8_L_0									
25 D	6.648	-2.2369E-02	109.3	33.24	109.3	57.95	ACTIVE	0.000	-4.800	0.000	1.000	1.000
33.24	0.000	0.000	Stratol_2_8_L_0									
26 D	6.900	-2.1923E-02	113.5	34.50	113.5	60.15	ACTIVE	0.000	-5.000	0.000	1.000	1.000
34.50	0.000	0.000	Stratol_2_8_L_0									
27 D	7.116	-2.1472E-02	117.0	35.58	117.0	62.03	ACTIVE	0.000	-5.200	0.000	1.000	1.000
35.58	0.000	0.000	Stratol_2_8_L_0									
28 D	7.367	-2.1015E-02	121.2	36.83	121.2	64.21	ACTIVE	0.000	-5.400	0.000	1.000	1.000
36.83	0.000	0.000	Stratol_2_8_L_0									
29 D	7.583	-2.0553E-02	124.7	37.92	124.7	66.10	ACTIVE	0.000	-5.600	0.000	1.000	1.000
37.92	0.000	0.000	Stratol_2_8_L_0									
30 D	7.832	-2.0086E-02	128.8	39.16	128.8	68.27	ACTIVE	0.000	-5.800	0.000	1.000	1.000
39.16	0.000	0.000	Stratol_2_8_L_0									
31 D	8.037	-1.9612E-02	132.2	40.18	132.2	70.06	ACTIVE	0.000	-6.000	0.000	1.000	1.000
40.18	0.000	0.000	Stratol_2_8_L_0									
32 D	8.285	-1.9132E-02	136.3	41.42	136.3	72.22	ACTIVE	0.000	-6.200	0.000	1.000	1.000
41.42	0.000	0.000	Stratol_2_8_L_0									
33 D	8.503	-1.8645E-02	139.9	42.52	139.9	74.12	ACTIVE	0.000	-6.400	0.000	1.000	1.000
42.52	0.000	0.000	Stratol_2_8_L_0									
34 D	8.750	-1.8153E-02	143.9	43.75	143.9	76.28	ACTIVE	0.000	-6.600	0.000	1.000	1.000
43.75	0.000	0.000	Stratol_2_8_L_0									
35 D	8.970	-1.7654E-02	147.5	44.85	147.5	78.19	ACTIVE	0.000	-6.800	0.000	1.000	1.000
44.85	0.000	0.000	Stratol_2_8_L_0									
36 D	9.215	-1.7149E-02	151.6	46.08	151.6	80.33	ACTIVE	0.000	-7.000	0.000	1.000	1.000
46.08	0.000	0.000	Stratol_2_8_L_0									
37 D	9.435	-1.6639E-02	155.2	47.18	155.2	82.25	ACTIVE	0.000	-7.200	0.000	1.000	1.000
47.18	0.000	0.000	Stratol_2_8_L_0									
38 D	9.680	-1.6123E-02	159.2	48.40	159.2	84.38	ACTIVE	0.000	-7.400	0.000	1.000	1.000
48.40	0.000	0.000	Stratol_2_8_L_0									
39 D	9.890	-1.5603E-02	162.7	49.45	162.7	86.21	ACTIVE	0.000	-7.600	0.000	1.000	1.000
49.45	0.000	0.000	Stratol_2_8_L_0									
40 D	10.13	-1.5078E-02	166.7	50.67	166.7	88.34	ACTIVE	0.000	-7.800	0.000	1.000	1.000
50.67	0.000	0.000	Stratol_2_8_L_0									
41 D	10.36	-1.4550E-02	170.3	51.78	170.3	90.27	ACTIVE	0.000	-8.000	0.000	1.000	1.000
51.78	0.000	0.000	Stratol_2_8_L_0									
42 D	10.60	-1.4019E-02	174.3	53.00	174.3	92.40	ACTIVE	0.000	-8.200	0.000	1.000	1.000
53.00	0.000	0.000	Stratol_2_8_L_0									
43 D	10.82	-1.3486E-02	178.0	54.10	178.0	94.33	ACTIVE	0.000	-8.400	0.000	1.000	1.000
54.10	0.000	0.000	Stratol_2_8_L_0									
44 D	11.06	-1.2952E-02	182.0	55.32	182.0	96.45	ACTIVE	0.000	-8.600	0.000	1.000	1.000
55.32	0.000	0.000	Stratol_2_8_L_0									
45 D	11.29	-1.2418E-02	185.6	56.43	185.6	98.38	ACTIVE	0.000	-8.800	0.000	1.000	1.000
56.43	0.000	0.000	Stratol_2_8_L_0									
46 D	11.52	-1.1885E-02	189.5	57.60	189.5	100.4	ACTIVE	0.000	-9.000	0.000	1.000	1.000
57.60	0.000	0.000	Stratol_2_8_L_0									
47 D	11.74	-1.1354E-02	193.1	58.71	193.1	102.4	ACTIVE	0.000	-9.200	0.000	1.000	1.000
58.71	0.000	0.000	Stratol_2_8_L_0									
48 D	11.98	-1.0827E-02	197.1	59.92	197.1	104.5	ACTIVE	0.000	-9.400	0.000	1.000	1.000
59.92	0.000	0.000	Stratol_2_8_L_0									
49 D	12.21	-1.0305E-02	200.8	61.03	200.8	106.4	ACTIVE	0.000	-9.600	0.000	1.000	1.000
61.03	0.000	0.000	Stratol_2_8_L_0									
50 D	12.45	-9.7890E-03	204.7	62.24	204.7	108.5	ACTIVE	0.000	-9.800	0.000	1.000	1.000
62.24	0.000	0.000	Stratol_2_8_L_0									
51 D	12.67	-9.2809E-03	208.4	63.36	208.4	110.5	ACTIVE	0.000	-10.00	0.000	1.000	1.000
63.36	0.000	0.000	Stratol_2_8_L_0									
52 D	12.91	-8.7817E-03	212.4	64.56	212.4	112.6	ACTIVE	0.000	-10.20	0.000	1.000	1.000
64.56	0.000	0.000	Stratol_2_8_L_0									
53 D	13.14	-8.2928E-03	216.0	65.68	216.0	114.5	ACTIVE	0.000	-10.40	0.000	1.000	1.000
65.68	0.000	0.000	Stratol_2_8_L_0									
54 D	13.37	-7.8151E-03	219.9	66.84	219.9	116.5	ACTIVE	0.000	-10.60	0.000	1.000	1.000
66.84	0.000	0.000	Stratol_2_8_L_0									
55 D	13.59	-7.3499E-03	223.6	67.96	223.6	118.5	ACTIVE	0.000	-10.80	0.000	1.000	1.000
67.96	0.000	0.000	Stratol_2_8_L_0									
56 D	13.83	-6.8979E-03	227.5	69.17	227.5	120.6	ACTIVE	0.000	-11.00	0.000	1.000	1.000
69.17	0.000	0.000	Stratol_2_8_L_0									
57 D	14.06	-6.4600E-03	231.2	70.28	231.2	122.5	ACTIVE	0.000	-11.20	0.000	1.000	1.000
70.28	0.000	0.000	Stratol_2_8_L_0									
58 D	14.30	-6.0368E-03	235.1	71.49	235.1	124.6	ACTIVE	0.000	-11.40	0.000	1.000	1.000
71.49	0.000	0.000	Stratol_2_8_L_0									
59 D	14.92	-5.6291E-03	238.8	74.59	238.8	126.6	UL-RL	8781.	-11.60	0.000	1.000	1.000
74.59	0.000	0.000	Stratol_2_8_L_0									
60 D	16.02	-5.2372E-03	242.8	80.10	242.8	128.7	UL-RL	8781.	-11.80	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 215 di 1221
80.10	0.000	0.000	Strato1_2_8_L_0		
61 D	17.05	-4.8616E-03	246.4 85.27	246.4	130.6
85.27	0.000	0.000	Strato1_2_8_L_0		
62 D	18.10	-4.5026E-03	250.3 90.48	250.3	132.7
90.48	0.000	0.000	Strato1_2_8_L_0		
63 D	19.08	-4.1604E-03	254.0 95.40	254.0	134.6
95.40	0.000	0.000	Strato1_2_8_L_0		
64 D	8.244	-3.8350E-03	257.9 41.22	257.9	129.0
41.22	0.000	0.000	Strato2_3095_82743_L_0		
65 D	8.428	-3.5266E-03	261.8 42.14	261.8	130.9
42.14	0.000	0.000	Strato2_3095_82743_L_0		
66 D	8.918	-3.2351E-03	266.0 44.59	266.0	133.0
44.59	0.000	0.000	Strato2_3095_82743_L_0		
67 D	10.64	-2.9601E-03	269.9 53.21	269.9	134.9
53.21	0.000	0.000	Strato2_3095_82743_L_0		
68 D	12.31	-2.7014E-03	274.0 61.53	274.0	137.0
61.53	0.000	0.000	Strato2_3095_82743_L_0		
69 D	13.86	-2.4584E-03	277.8 69.30	277.8	138.9
69.30	0.000	0.000	Strato2_3095_82743_L_0		
70 D	15.37	-2.2304E-03	281.9 76.86	281.9	141.0
76.86	0.000	0.000	Strato2_3095_82743_L_0		
71 D	16.79	-2.0169E-03	285.8 83.96	285.8	142.9
83.96	0.000	0.000	Strato2_3095_82743_L_0		
72 D	18.16	-1.8170E-03	289.9 90.82	289.9	145.0
90.82	0.000	0.000	Strato2_3095_82743_L_0		
73 D	19.45	-1.6298E-03	293.8 97.27	293.8	146.9
97.27	0.000	0.000	Strato2_3095_82743_L_0		
74 D	20.71	-1.4546E-03	298.0 103.5	298.0	149.0
103.5	0.000	0.000	Strato2_3095_82743_L_0		
75 D	21.88	-1.2904E-03	301.9 109.4	301.9	150.9
109.4	0.000	0.000	Strato2_3095_82743_L_0		
76 D	23.03	-1.1362E-03	305.9 115.1	305.9	152.9
115.1	0.000	0.000	Strato2_3095_82743_L_0		
77 D	24.11	-9.9122E-04	309.8 120.6	309.8	154.9
120.6	0.000	0.000	Strato2_3095_82743_L_0		
78 D	25.18	-8.5440E-04	313.9 125.9	313.9	157.0
125.9	0.000	0.000	Strato2_3095_82743_L_0		
79 D	26.19	-7.2485E-04	317.8 130.9	317.8	158.9
130.9	0.000	0.000	Strato2_3095_82743_L_0		
80 D	27.19	-6.0167E-04	321.9 135.9	321.9	161.0
135.9	0.000	0.000	Strato2_3095_82743_L_0		
81 D	28.14	-4.8399E-04	325.9 140.7	325.9	162.9
140.7	0.000	0.000	Strato2_3095_82743_L_0		
82 D	29.09	-3.7096E-04	330.0 145.5	330.0	165.0
145.5	0.000	0.000	Strato2_3095_82743_L_0		
83 D	30.01	-2.6181E-04	333.9 150.0	333.9	166.9
150.0	0.000	0.000	Strato2_3095_82743_L_0		
84 D	30.92	-1.5579E-04	337.9 154.6	337.9	169.0
154.6	0.000	0.000	Strato2_3095_82743_L_0		
85 D	31.80	-5.2226E-05	341.8 159.0	341.8	170.9
159.0	0.000	0.000	Strato2_3095_82743_L_0		
86 D	32.70	4.9485E-05	345.9 163.5	345.9	173.0
163.5	0.000	0.000	Strato2_3095_82743_L_0		
87 D	33.57	1.4988E-04	349.8 167.9	349.8	174.9
167.9	0.000	0.000	Strato2_3095_82743_L_0		
88 D	34.46	2.4940E-04	353.9 172.3	353.9	177.0
172.3	0.000	0.000	Strato2_3095_82743_L_0		
89 D	35.32	3.4843E-04	357.9 176.6	357.9	178.9
176.6	0.000	0.000	Strato2_3095_82743_L_0		
90 D	36.20	4.4721E-04	362.0 181.0	362.0	181.0
181.0	0.000	0.000	Strato2_3095_82743_L_0		
91 D	18.37	5.4592E-04	365.8 183.7	365.8	183.7
183.7	0.000	0.000	Strato2_3095_82743_L_0		



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 216 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                       |
|          NewProject.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          17:58:40          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.2000	0.000	1.000	1.000
2	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.6000	0.000	1.000	1.000
3	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.000	0.000	1.000	1.000
4	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.400	0.000	1.000	1.000
5	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.800	0.000	1.000	1.000
6	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.200	0.000	1.000	1.000
7	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.600	0.000	1.000	1.000
8	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.000	0.000	1.000	1.000
9	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.400	0.000	1.000	1.000
10	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.800	0.000	1.000	1.000
11	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
12	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
13	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
14	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000
15	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.800	0.000	1.000	1.000
16	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
17	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
18	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
19	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
20	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
21	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
22	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
23	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
24	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
25	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
26	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
27	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
28	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
29	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
30	0.000	--	--	--	--	--	REMOVED	--				

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 217 di 1221
0.000	0.000	0.000	not available		
31	0.000	--	--	--	--
0.000	0.000	0.000	not available		
32	0.000	--	--	--	--
0.000	0.000	0.000	not available		
33	0.000	--	--	--	--
0.000	0.000	0.000	not available		
34	0.000	--	--	--	--
0.000	0.000	0.000	not available		
35	0.000	--	--	--	--
0.000	0.000	0.000	not available		
36	0.000	--	--	--	--
0.000	0.000	0.000	not available		
37	0.000	--	--	--	--
0.000	0.000	0.000	not available		
38	0.000	--	--	--	--
0.000	0.000	0.000	not available		
39	0.000	--	--	--	--
0.000	0.000	0.000	not available		
40	0.000	--	--	--	--
0.000	0.000	0.000	not available		
41	0.000	--	--	--	--
0.000	0.000	0.000	not available		
42	0.000	--	--	--	--
0.000	0.000	0.000	not available		
43	0.000	--	--	--	--
0.000	0.000	0.000	not available		
44	0.000	--	--	--	--
0.000	0.000	0.000	not available		
45 D	1.536	1.2418E-02	1.900 7.678	167.2	90.59
7.678	0.000	0.000	Strato1_2_8_L_0		
46 D	4.607	1.1885E-02	5.700 23.03	171.0	92.50
23.03	0.000	0.000	Strato1_2_8_L_0		
47 D	7.678	1.1354E-02	9.500 38.39	174.8	94.48
38.39	0.000	0.000	Strato1_2_8_L_0		
48 D	10.75	1.0827E-02	13.30 53.75	178.6	96.45
53.75	0.000	0.000	Strato1_2_8_L_0		
49 D	13.82	1.0305E-02	17.10 69.10	182.4	98.44
69.10	0.000	0.000	Strato1_2_8_L_0		
50 D	16.89	9.7890E-03	20.90 84.46	186.2	100.4
84.46	0.000	0.000	Strato1_2_8_L_0		
51 D	19.96	9.2809E-03	24.70 99.81	190.0	102.4
99.81	0.000	0.000	Strato1_2_8_L_0		
52 D	23.03	8.7817E-03	28.50 115.2	193.8	115.2
115.2	0.000	0.000	Strato1_2_8_L_0		
53 D	24.45	8.2928E-03	32.30 122.2	197.6	122.2
122.2	0.000	0.000	Strato1_2_8_L_0		
54 D	24.65	7.8151E-03	36.10 123.3	201.4	123.3
123.3	0.000	0.000	Strato1_2_8_L_0		
55 D	24.86	7.3499E-03	39.90 124.3	205.2	124.3
124.3	0.000	0.000	Strato1_2_8_L_0		
56 D	25.08	6.8979E-03	43.70 125.4	209.0	125.4
125.4	0.000	0.000	Strato1_2_8_L_0		
57 D	25.30	6.4600E-03	47.50 126.5	212.8	126.5
126.5	0.000	0.000	Strato1_2_8_L_0		
58 D	25.53	6.0368E-03	51.30 127.7	216.6	127.7
127.7	0.000	0.000	Strato1_2_8_L_0		
59 D	25.77	5.6291E-03	55.10 128.8	220.4	128.8
128.8	0.000	0.000	Strato1_2_8_L_0		
60 D	26.01	5.2372E-03	58.90 130.1	224.2	130.1
130.1	0.000	0.000	Strato1_2_8_L_0		
61 D	26.26	4.8616E-03	62.70 131.3	228.0	131.3
131.3	0.000	0.000	Strato1_2_8_L_0		
62 D	26.52	4.5026E-03	66.50 132.6	231.8	132.6
132.6	0.000	0.000	Strato1_2_8_L_0		
63 D	26.79	4.1604E-03	70.30 133.9	235.6	133.9
133.9	0.000	0.000	Strato1_2_8_L_0		
64 D	24.12	3.8350E-03	74.10 120.6	239.4	120.6
120.6	0.000	0.000	Strato2_3095_82743_L_0		
65 D	24.14	3.5266E-03	78.10 120.7	243.4	121.7
120.7	0.000	0.000	Strato2_3095_82743_L_0		
66 D	23.83	3.2351E-03	82.10 119.2	247.4	123.7
119.2	0.000	0.000	Strato2_3095_82743_L_0		
67 D	23.57	2.9601E-03	86.10 117.9	251.4	125.7
117.9	0.000	0.000	Strato2_3095_82743_L_0		
68 D	23.35	2.7014E-03	90.10 116.7	255.4	127.7
116.7	0.000	0.000	Strato2_3095_82743_L_0		
69 D	23.17	2.4584E-03	94.10 115.8	259.4	129.7
115.8	0.000	0.000	Strato2_3095_82743_L_0		
70 D	23.02	2.2304E-03	98.10 115.1	263.4	131.7
115.1	0.000	0.000	Strato2_3095_82743_L_0		
71 D	22.91	2.0169E-03	102.1 114.6	267.4	133.7
114.6	0.000	0.000	Strato2_3095_82743_L_0		
72 D	22.84	1.8170E-03	106.1 114.2	271.4	135.7
114.2	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
219 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019      17:58:40                             |
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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_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 C U R R E N T T I M E I S 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.81290	-0.81290	1.12246E-10	0.16258
2	2.0360	-2.0360	-0.16258	0.56979
3	3.4050	-3.4050	-0.56979	1.2508
4	5.2048	-5.2048	-1.2508	2.2917
5	7.1562	-7.1562	-2.2917	3.7230
6	9.4464	-9.4464	-3.7230	5.6123
7	11.907	-11.907	-5.6123	7.9936
8	14.672	-14.672	-7.9936	10.928
9	17.572	-17.572	-10.928	14.442
10	20.764	-20.764	-14.442	18.595
11	24.151	-24.151	-18.595	23.425
12	27.817	-27.817	-23.425	28.989
13	31.683	-31.683	-28.989	35.325
14	35.820	-35.820	-35.325	42.489
15	40.160	-40.160	-42.489	50.521
16	-101.24	101.24	-50.521	30.274
17	-96.450	96.450	-30.274	10.984
18	-91.401	91.401	-10.984	-7.2960
19	-86.142	86.142	7.2960	-24.524
20	-80.625	80.625	24.524	-40.649
21	-74.896	74.896	40.649	-55.629
22	-68.912	68.912	55.629	-69.411
23	-62.715	62.715	69.411	-81.954
24	-56.281	56.281	81.954	-93.210
25	-49.633	49.633	93.210	-103.14
26	-42.733	42.733	103.14	-111.68
27	-35.617	35.617	111.68	-118.81
28	-28.250	28.250	118.81	-124.46
29	-20.667	20.667	124.46	-128.59
30	-12.834	12.834	128.59	-131.16
31	-4.7979	4.7979	131.16	-132.12
32	3.4866	-3.4866	132.12	-131.42
33	11.990	-11.990	131.42	-129.02
34	20.740	-20.740	129.02	-124.87
35	29.710	-29.710	124.87	-118.93
36	38.925	-38.925	118.93	-111.15
37	48.360	-48.360	111.15	-101.47
38	58.040	-58.040	101.47	-89.866
39	67.930	-67.930	89.866	-76.280
40	78.065	-78.065	76.280	-60.667
41	88.421	-88.421	60.667	-42.983
42	99.020	-99.020	42.983	-23.178
43	109.84	-109.84	23.178	-1.2104
44	120.90	-120.90	1.2104	22.971
45	130.66	-130.66	-22.971	49.102
46	137.57	-137.57	-49.102	76.615
47	141.63	-141.63	-76.615	104.94
48	142.87	-142.87	-104.94	133.51
49	141.25	-141.25	-133.51	161.77
50	136.81	-136.81	-161.77	189.13
51	129.52	-129.52	-189.13	215.03
52	119.40	-119.40	-215.03	238.91
53	108.09	-108.09	-238.91	260.53
54	96.807	-96.807	-260.53	279.89
55	85.539	-85.539	-279.89	297.00
56	74.295	-74.295	-297.00	311.86
57	63.052	-63.052	-311.86	324.47
58	51.818	-51.818	-324.47	334.83
59	40.967	-40.967	-334.83	343.02
60	30.975	-30.975	-343.02	349.22
61	21.766	-21.766	-349.22	353.57
62	13.340	-13.340	-353.57	356.24
63	5.6323	-5.6323	-356.24	357.37

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 220 di 1221
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64	-10.244	10.244	-357.37	355.32
65	-25.953	25.953	-355.32	350.13
66	-40.868	40.868	-350.13	341.95
67	-53.797	53.797	-341.95	331.20
68	-64.840	64.840	-331.20	318.23
69	-74.146	74.146	-318.23	303.40
70	-81.796	81.796	-303.40	287.04
71	-87.918	87.918	-287.04	269.46
72	-92.591	92.591	-269.46	250.94
73	-95.932	95.932	-250.94	231.75
74	-98.007	98.007	-231.75	212.15
75	-98.916	98.916	-212.15	192.37
76	-98.723	98.723	-192.37	172.62
77	-97.504	97.504	-172.62	153.12
78	-95.299	95.299	-153.12	134.06
79	-92.182	92.182	-134.06	115.62
80	-88.177	88.177	-115.62	97.989
81	-83.344	83.344	-97.989	81.320
82	-77.697	77.697	-81.320	65.781
83	-71.282	71.282	-65.781	51.525
84	-64.110	64.110	-51.525	38.702
85	-56.209	56.209	-38.702	27.460
86	-47.574	47.574	-27.460	17.945
87	-38.231	38.231	-17.945	10.299
88	-28.167	28.167	-10.299	4.6659
89	-17.404	17.404	-4.6659	1.1850
90	-5.9252	5.9252	-1.1850	6.69920E-12

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1MIR1_3484
|          Exe Time :29 July 2019      17:58:40
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR 1	151.12	-6.68821E-04	2.10471E-02	0.0000	2633.3	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1MIR1_3484
|          Exe Time :29 July 2019      17:58:40
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER      0  RNORM = 0.000      RMNORM= 0.000
RINORM=0.1032E+07  RIMNOR=0.5498E+07
RENORM=0.2568E+05  REMNOR=0.1758E-17  RATIO =0.1578      TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 161.0      RMMAX = 357.4
RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
RDT  =0.1032E+07  RDR  =0.5498E+07
RATIOT=0.1578      RATOR= 0.000
MAX UN= 1.060      IEQ=      5 NODE      3 DOF      1 Y-DISPL.F
MIN UN=-160.0     IEQ=      83 NODE     42 DOF     1 Y-DISPL.F

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto INOR

Lotto 12

Codifica Documento E E2 CL GA 2701 002

Rev. A

Foglio 221 di 1221

NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1032E+07 RIMNOR=0.5498E+07
            RENORM= 3.981      REMNOR=0.1584E-17 RATIO =0.1964E-02 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 161.0      RMMAX = 357.4
            RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
            RDT  =0.1032E+07 RDR  =0.5498E+07
            RATIO=0.1964E-02 RATIO= 0.000
            MAX UN= 1.023      IEQ=      3 NODE      2 DOF      1 Y-DISPL.F
            MIN UN=-.1182      IEQ=      89 NODE     45 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      3  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1032E+07 RIMNOR=0.5498E+07
            RENORM=0.6051      REMNOR=0.1802E-17 RATIO =0.7657E-03 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 161.0      RMMAX = 357.4
            RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
            RDT  =0.1032E+07 RDR  =0.5498E+07
            RATIO=0.7657E-03 RATIO= 0.000
            MAX UN=0.5748      IEQ=      21 NODE     11 DOF      1 Y-DISPL.F
            MIN UN=-.5612E-08 IEQ=      1 NODE      1 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1032E+07 RIMNOR=0.5498E+07
            RENORM=0.1117E-01 REMNOR=0.1806E-17 RATIO =0.1041E-03 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 161.0      RMMAX = 357.4
            RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
            RDT  =0.1032E+07 RDR  =0.5498E+07
            RATIO=0.1041E-03 RATIO= 0.000
            MAX UN=0.1057      IEQ=      29 NODE     15 DOF      1 Y-DISPL.F
            MIN UN=-.3216E-02 IEQ=      89 NODE     45 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1032E+07 RIMNOR=0.5498E+07
            RENORM=0.4883E-15 REMNOR=0.1843E-17 RATIO =0.2175E-10 TOLER =0.1000E-03 CONVERGED !
            RFMAX = 161.0      RMMAX = 357.4
            RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
            RDT  =0.1032E+07 RDR  =0.5498E+07
            RATIO=0.2175E-10 RATIO= 0.000
            MAX UN=0.1070E-07 IEQ=      3 NODE      2 DOF      1 Y-DISPL.F
            MIN UN=-.7622E-08 IEQ=      9 NODE      5 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                    |
|                                                                    |
|          NewProject.BaseDesignSection_28.A1M1r1_3484  |
|          Exe Time :29 July 2019  17:58:40  |
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New Project SOLUTION REACHED USING 5 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 5 (AT TIME 5.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.4427613E-02	-2.6596990E-03	
2	3.3895675E-02	-2.6596725E-03	
3	3.3363751E-02	-2.6595495E-03	
4	3.2831868E-02	-2.6592396E-03	
5	3.2300074E-02	-2.6586386E-03	
6	3.1768440E-02	-2.6576288E-03	
7	3.1237059E-02	-2.6560804E-03	
8	3.0706053E-02	-2.6538520E-03	
9	3.0175573E-02	-2.6507904E-03	
10	2.9645803E-02	-2.6467325E-03	
11	2.9116958E-02	-2.6415046E-03	
12	2.8589291E-02	-2.6349218E-03	
13	2.8063093E-02	-2.6267877E-03	
14	2.7538694E-02	-2.6168946E-03	
15	2.7016467E-02	-2.6050236E-03	
16	2.6496831E-02	-2.5909448E-03	

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 222 di 1221
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17	2.5980020E-02	-2.5778957E-03
18	2.5465390E-02	-2.5690990E-03
19	2.4952116E-02	-2.5642797E-03
20	2.4439432E-02	-2.5631445E-03
21	2.3926633E-02	-2.5653821E-03
22	2.3413076E-02	-2.5706629E-03
23	2.2898188E-02	-2.5786394E-03
24	2.2381468E-02	-2.5889462E-03
25	2.1862482E-02	-2.6012008E-03
26	2.1340884E-02	-2.6150032E-03
27	2.0816406E-02	-2.6299362E-03
28	2.0288864E-02	-2.6455650E-03
29	1.9758166E-02	-2.6614378E-03
30	1.9224306E-02	-2.6770862E-03
31	1.8687379E-02	-2.6920247E-03
32	1.8147577E-02	-2.7057517E-03
33	1.7605194E-02	-2.7177500E-03
34	1.7060628E-02	-2.7274862E-03
35	1.6514389E-02	-2.7344116E-03
36	1.5967091E-02	-2.7379621E-03
37	1.5419468E-02	-2.7375590E-03
38	1.4872370E-02	-2.7326089E-03
39	1.4326768E-02	-2.7225047E-03
40	1.3783756E-02	-2.7066263E-03
41	1.3244547E-02	-2.6843405E-03
42	1.2710479E-02	-2.6550016E-03
43	1.2182795E-02	-2.6217766E-03
44	1.1661820E-02	-2.5878200E-03
45	1.1147764E-02	-2.5524535E-03
46	1.0640978E-02	-2.5149924E-03
47	1.0141948E-02	-2.4748164E-03
48	9.6512651E-03	-2.4314411E-03
49	9.1696099E-03	-2.3845220E-03
50	8.6977087E-03	-2.3338540E-03
51	8.2363224E-03	-2.2793738E-03
52	7.7862037E-03	-2.2211580E-03
53	7.3480891E-03	-2.1594267E-03
54	6.9226460E-03	-2.0945009E-03
55	6.5104780E-03	-2.0267368E-03
56	6.1121164E-03	-1.9564970E-03
57	5.7280196E-03	-1.8841509E-03
58	5.3585714E-03	-1.8100748E-03
59	5.0040794E-03	-1.7346525E-03
60	4.6647747E-03	-1.6582657E-03
61	4.3408134E-03	-1.5812746E-03
62	4.0322833E-03	-1.5040072E-03
63	3.7392091E-03	-1.4267621E-03
64	3.4615590E-03	-1.3498088E-03
65	3.1992385E-03	-1.2735607E-03
66	2.9520493E-03	-1.1985928E-03
67	2.7196782E-03	-1.1254735E-03
68	2.5017127E-03	-1.0547246E-03
69	2.2976124E-03	-9.8678068E-04
70	2.1067885E-03	-9.2201537E-04
71	1.9285741E-03	-8.6073199E-04
72	1.7622475E-03	-8.0317145E-04
73	1.6070451E-03	-7.4951653E-04
74	1.4621720E-03	-6.9989590E-04
75	1.3268126E-03	-6.5438788E-04
76	1.2001406E-03	-6.1302381E-04
77	1.0813276E-03	-5.7579147E-04
78	9.6955206E-04	-5.4263784E-04
79	8.6400666E-04	-5.1347151E-04
80	7.6390614E-04	-4.8816491E-04
81	6.6849417E-04	-4.6655627E-04
82	5.7705005E-04	-4.4845137E-04
83	4.8889505E-04	-4.3362495E-04
84	4.0339851E-04	-4.2182196E-04
85	3.1997949E-04	-4.1275830E-04
86	2.3812909E-04	-4.0612331E-04
87	1.5739090E-04	-4.0157741E-04
88	7.7383260E-05	-3.9875450E-04
89	-2.1995794E-06	-3.9726170E-04
90	-8.1582127E-05	-3.9667949E-04
91	-1.6090236E-04	-3.9656197E-04



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 223 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      17:58:40         |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	1.117	-3.4428E-02	36.74	11.17	36.74	18.91	ACTIVE	0.000	0.000	0.000	1.000	1.000
11.17	0.000	0.000	Stratol_2_8_L_0									
2 D	1.831	-3.3896E-02	30.12	9.156	30.12	15.81	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
9.156	0.000	0.000	Stratol_2_8_L_0									
3 D	1.977	-3.3364E-02	32.52	9.885	32.52	16.80	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
9.885	0.000	0.000	Stratol_2_8_L_0									
4 D	2.408	-3.2832E-02	39.60	12.04	39.60	19.93	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
12.04	0.000	0.000	Stratol_2_8_L_0									
5 D	2.559	-3.2300E-02	42.10	12.80	42.10	20.97	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
12.80	0.000	0.000	Stratol_2_8_L_0									
6 D	2.898	-3.1768E-02	47.67	14.49	47.67	23.41	ACTIVE	0.000	-1.000	0.000	1.000	1.000
14.49	0.000	0.000	Stratol_2_8_L_0									
7 D	3.068	-3.1237E-02	50.46	15.34	50.46	24.58	ACTIVE	0.000	-1.200	0.000	1.000	1.000
15.34	0.000	0.000	Stratol_2_8_L_0									
8 D	3.373	-3.0706E-02	55.48	16.86	55.48	26.76	ACTIVE	0.000	-1.400	0.000	1.000	1.000
16.86	0.000	0.000	Stratol_2_8_L_0									
9 D	3.508	-3.0176E-02	57.70	17.54	57.70	27.67	ACTIVE	0.000	-1.600	0.000	1.000	1.000
17.54	0.000	0.000	Stratol_2_8_L_0									
10 D	3.800	-2.9646E-02	62.50	19.00	62.50	29.75	ACTIVE	0.000	-1.800	0.000	1.000	1.000
19.00	0.000	0.000	Stratol_2_8_L_0									
11 D	3.995	-2.9117E-02	65.71	19.97	65.71	31.09	ACTIVE	0.000	-2.000	0.000	1.000	1.000
19.97	0.000	0.000	Stratol_2_8_L_0									
12 D	4.274	-2.8589E-02	70.30	21.37	70.30	33.06	ACTIVE	0.000	-2.200	0.000	1.000	1.000
21.37	0.000	0.000	Stratol_2_8_L_0									
13 D	4.474	-2.8063E-02	73.58	22.37	73.58	34.42	ACTIVE	0.000	-2.400	0.000	1.000	1.000
22.37	0.000	0.000	Stratol_2_8_L_0									
14 D	4.745	-2.7539E-02	78.04	23.72	78.04	36.30	ACTIVE	0.000	-2.600	0.000	1.000	1.000
23.72	0.000	0.000	Stratol_2_8_L_0									
15 D	4.948	-2.7016E-02	81.38	24.74	81.38	37.83	ACTIVE	0.000	-2.800	0.000	1.000	1.000
24.74	0.000	0.000	Stratol_2_8_L_0									
16 D	5.225	-2.6497E-02	85.31	26.13	85.31	39.92	UL-RL	8781.	-3.000	0.000	1.000	1.000
26.13	0.000	0.000	Stratol_2_8_L_0									
17 D	5.585	-2.5980E-02	88.73	27.92	88.73	41.73	UL-RL	8781.	-3.200	0.000	1.000	1.000
27.92	0.000	0.000	Stratol_2_8_L_0									
18 D	5.997	-2.5465E-02	93.04	29.99	93.04	44.01	UL-RL	8781.	-3.400	0.000	1.000	1.000
29.99	0.000	0.000	Stratol_2_8_L_0									
19 D	6.356	-2.4952E-02	96.49	31.78	96.49	45.84	UL-RL	8781.	-3.600	0.000	1.000	1.000
31.78	0.000	0.000	Stratol_2_8_L_0									
20 D	6.762	-2.4439E-02	100.7	33.81	100.7	48.09	UL-RL	8781.	-3.800	0.000	1.000	1.000
33.81	0.000	0.000	Stratol_2_8_L_0									
21 D	7.119	-2.3927E-02	104.2	35.59	104.2	49.94	UL-RL	8781.	-4.000	0.000	1.000	1.000
35.59	0.000	0.000	Stratol_2_8_L_0									
22 D	7.518	-2.3413E-02	108.4	37.59	108.4	52.17	UL-RL	8781.	-4.200	0.000	1.000	1.000
37.59	0.000	0.000	Stratol_2_8_L_0									
23 D	7.872	-2.2898E-02	111.9	39.36	111.9	54.02	UL-RL	8781.	-4.400	0.000	1.000	1.000
39.36	0.000	0.000	Stratol_2_8_L_0									
24 D	8.247	-2.2381E-02	115.8	41.23	115.8	56.08	UL-RL	8781.	-4.600	0.000	1.000	1.000
41.23	0.000	0.000	Stratol_2_8_L_0									
25 D	8.597	-2.1862E-02	119.3	42.99	119.3	57.95	UL-RL	8781.	-4.800	0.000	1.000	1.000
42.99	0.000	0.000	Stratol_2_8_L_0									
26 D	8.982	-2.1341E-02	123.5	44.91	123.5	60.15	UL-RL	8781.	-5.000	0.000	1.000	1.000
44.91	0.000	0.000	Stratol_2_8_L_0									
27 D	9.327	-2.0816E-02	127.0	46.63	127.0	62.03	UL-RL	8781.	-5.200	0.000	1.000	1.000
46.63	0.000	0.000	Stratol_2_8_L_0									
28 D	9.702	-2.0289E-02	131.2	48.51	131.2	64.21	UL-RL	8781.	-5.400	0.000	1.000	1.000
48.51	0.000	0.000	Stratol_2_8_L_0									
29 D	10.04	-1.9758E-02	134.7	50.20	134.7	66.10	UL-RL	8781.	-5.600	0.000	1.000	1.000
50.20	0.000	0.000	Stratol_2_8_L_0									
30 D	10.40	-1.9224E-02	138.8	52.02	138.8	68.27	UL-RL	8781.	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 226 di 1221							
11	0.000	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-2.200	0.000	1.000	1.000		
12	0.000	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-2.600	0.000	1.000	1.000		
13	0.000	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-3.000	0.000	1.000	1.000		
14	0.000	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-3.400	0.000	1.000	1.000		
15	0.000	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-3.800	0.000	1.000	1.000		
16	0.000	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-4.200	0.000	1.000	1.000		
17	0.000	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-4.600	0.000	1.000	1.000		
18	0.000	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-5.000	0.000	1.000	1.000		
19	0.000	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-5.400	0.000	1.000	1.000		
20	0.000	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-5.800	0.000	1.000	1.000		
21	0.000	--	--	--	REMOVED	--	-6.000	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-6.200	0.000	1.000	1.000		
22	0.000	--	--	--	REMOVED	--	-6.400	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-6.600	0.000	1.000	1.000		
23	0.000	--	--	--	REMOVED	--	-6.800	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-7.000	0.000	1.000	1.000		
24	0.000	--	--	--	REMOVED	--	-7.200	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-7.400	0.000	1.000	1.000		
25	0.000	--	--	--	REMOVED	--	-7.600	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-7.800	0.000	1.000	1.000		
26	0.000	--	--	--	REMOVED	--	-8.000	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-8.200	0.000	1.000	1.000		
27	0.000	--	--	--	REMOVED	--	-8.400	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-8.600	0.000	1.000	1.000		
28	0.000	--	--	--	REMOVED	--	-8.800	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-9.000	0.000	1.000	1.000		
29	0.000	--	--	--	REMOVED	--	-9.200	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-9.400	0.000	1.000	1.000		
30	0.000	--	--	--	REMOVED	--	-9.600	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-9.800	0.000	1.000	1.000		
31	0.000	--	--	--	REMOVED	--	-10.000	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-10.200	0.000	1.000	1.000		
32	0.000	--	--	--	REMOVED	--	-10.400	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-10.600	0.000	1.000	1.000		
33	0.000	--	--	--	REMOVED	--	-10.800	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-11.000	0.000	1.000	1.000		
34	0.000	--	--	--	REMOVED	--	-11.200	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-11.400	0.000	1.000	1.000		
35	0.000	--	--	--	REMOVED	--	-11.600	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-11.800	0.000	1.000	1.000		
36	0.000	--	--	--	REMOVED	--	-12.000	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-12.200	0.000	1.000	1.000		
37	0.000	--	--	--	REMOVED	--	-12.400	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-12.600	0.000	1.000	1.000		
38	0.000	--	--	--	REMOVED	--	-12.800	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-13.000	0.000	1.000	1.000		
39	0.000	--	--	--	REMOVED	--	-13.200	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-13.400	0.000	1.000	1.000		
40	0.000	--	--	--	REMOVED	--	-13.600	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-13.800	0.000	1.000	1.000		
41	0.000	--	--	--	REMOVED	--	-14.000	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-14.200	0.000	1.000	1.000		
42	0.000	--	--	--	REMOVED	--	-14.400	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-14.600	0.000	1.000	1.000		
43	0.000	--	--	--	REMOVED	--	-14.800	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-15.000	0.000	1.000	1.000		
44	0.000	--	--	--	REMOVED	--	-15.200	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-15.400	0.000	1.000	1.000		
45 D	0.1191	1.1148E-02	1.900	0.5955	167.2	90.59	UL-RL	6094.	-8.800	0.000	1.000	1.000
0.5955	0.000	0.000	Stratol_2_8_L_0	--	--	--	UL-RL	6094.	-9.000	0.000	1.000	1.000
46 D	3.091	1.0641E-02	5.700	15.45	171.0	92.50	UL-RL	6094.	-9.200	0.000	1.000	1.000
15.45	0.000	0.000	Stratol_2_8_L_0	--	--	--	UL-RL	6094.	-9.400	0.000	1.000	1.000
47 D	6.201	1.0142E-02	9.500	31.00	174.8	94.48	UL-RL	6094.	-9.600	0.000	1.000	1.000
31.00	0.000	0.000	Stratol_2_8_L_0	--	--	--	UL-RL	6094.	-9.800	0.000	1.000	1.000
48 D	9.316	9.6513E-03	13.30	46.58	178.6	96.45	UL-RL	6094.	-10.000	0.000	1.000	1.000
46.58	0.000	0.000	Stratol_2_8_L_0	--	--	--	UL-RL	6094.	-10.200	0.000	1.000	1.000
49 D	12.44	9.1696E-03	17.10	62.18	182.4	98.44	UL-RL	6094.	-10.400	0.000	1.000	1.000
62.18	0.000	0.000	Stratol_2_8_L_0	--	--	--	UL-RL	6094.	-10.600	0.000	1.000	1.000
50 D	15.56	8.6977E-03	20.90	77.81	186.2	100.4	UL-RL	6094.	-10.800	0.000	1.000	1.000
77.81	0.000	0.000	Stratol_2_8_L_0	--	--	--	UL-RL	6094.	-11.000	0.000	1.000	1.000
51 D	18.69	8.2363E-03	24.70	93.45	190.0	102.4	UL-RL	6094.	-11.200	0.000	1.000	1.000
93.45	0.000	0.000	Stratol_2_8_L_0	--	--	--	UL-RL	6094.	-11.400	0.000	1.000	1.000
52 D	21.82	7.7862E-03	28.50	109.1	193.8	115.2	UL-RL	6094.	-11.600	0.000	1.000	1.000
109.1	0.000	0.000	Stratol_2_8_L_0	--	--	--	UL-RL	6094.	-11.800	0.000	1.000	1.000
53 D	23.29	7.3481E-03	32.30	116.5	197.6	122.2	UL-RL	6094.	-12.000	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 227 di 1221
116.5	0.000	0.000	Strato1_2_8_L_0		
54 D	23.56	6.9226E-03	36.10 117.8	201.4	123.3
117.8	0.000	0.000	Strato1_2_8_L_0		
55 D	23.84	6.5105E-03	39.90 119.2	205.2	124.3
119.2	0.000	0.000	Strato1_2_8_L_0		
56 D	24.12	6.1121E-03	43.70 120.6	209.0	125.4
120.6	0.000	0.000	Strato1_2_8_L_0		
57 D	24.41	5.7280E-03	47.50 122.0	212.8	126.5
122.0	0.000	0.000	Strato1_2_8_L_0		
58 D	24.70	5.3586E-03	51.30 123.5	216.6	127.7
123.5	0.000	0.000	Strato1_2_8_L_0		
59 D	25.01	5.0041E-03	55.10 125.0	220.4	128.8
125.0	0.000	0.000	Strato1_2_8_L_0		
60 D	25.31	4.6648E-03	58.90 126.6	224.2	130.1
126.6	0.000	0.000	Strato1_2_8_L_0		
61 D	25.63	4.3408E-03	62.70 128.1	228.0	131.3
128.1	0.000	0.000	Strato1_2_8_L_0		
62 D	25.95	4.0323E-03	66.50 129.7	231.8	132.6
129.7	0.000	0.000	Strato1_2_8_L_0		
63 D	26.27	3.7392E-03	70.30 131.4	235.6	133.9
131.4	0.000	0.000	Strato1_2_8_L_0		
64 D	23.12	3.4616E-03	74.10 115.6	239.4	120.6
115.6	0.000	0.000	Strato2_3095_82743_L_0		
65 D	23.25	3.1992E-03	78.10 116.3	243.4	121.7
116.3	0.000	0.000	Strato2_3095_82743_L_0		
66 D	23.07	2.9520E-03	82.10 115.4	247.4	123.7
115.4	0.000	0.000	Strato2_3095_82743_L_0		
67 D	22.92	2.7197E-03	86.10 114.6	251.4	125.7
114.6	0.000	0.000	Strato2_3095_82743_L_0		
68 D	22.81	2.5017E-03	90.10 114.1	255.4	127.7
114.1	0.000	0.000	Strato2_3095_82743_L_0		
69 D	22.73	2.2976E-03	94.10 113.7	259.4	129.7
113.7	0.000	0.000	Strato2_3095_82743_L_0		
70 D	22.69	2.1068E-03	98.10 113.4	263.4	131.7
113.4	0.000	0.000	Strato2_3095_82743_L_0		
71 D	22.68	1.9286E-03	102.1 113.4	267.4	133.7
113.4	0.000	0.000	Strato2_3095_82743_L_0		
72 D	22.69	1.7622E-03	106.1 113.5	271.4	135.7
113.5	0.000	0.000	Strato2_3095_82743_L_0		
73 D	22.73	1.6070E-03	110.1 113.7	275.4	137.7
113.7	0.000	0.000	Strato2_3095_82743_L_0		
74 D	22.80	1.4622E-03	114.1 114.0	279.4	139.7
114.0	0.000	0.000	Strato2_3095_82743_L_0		
75 D	22.89	1.3268E-03	118.1 114.5	283.4	141.7
114.5	0.000	0.000	Strato2_3095_82743_L_0		
76 D	23.00	1.2001E-03	122.1 115.0	287.4	143.7
115.0	0.000	0.000	Strato2_3095_82743_L_0		
77 D	23.13	1.0813E-03	126.1 115.7	291.4	145.7
115.7	0.000	0.000	Strato2_3095_82743_L_0		
78 D	23.28	9.6955E-04	130.1 116.4	295.4	147.7
116.4	0.000	0.000	Strato2_3095_82743_L_0		
79 D	23.44	8.6401E-04	134.1 117.2	299.4	149.7
117.2	0.000	0.000	Strato2_3095_82743_L_0		
80 D	23.62	7.6391E-04	138.1 118.1	303.4	151.7
118.1	0.000	0.000	Strato2_3095_82743_L_0		
81 D	23.81	6.6849E-04	142.1 119.0	307.4	153.7
119.0	0.000	0.000	Strato2_3095_82743_L_0		
82 D	24.00	5.7705E-04	146.1 120.0	311.4	155.7
120.0	0.000	0.000	Strato2_3095_82743_L_0		
83 D	24.20	4.8890E-04	150.1 121.0	315.4	157.7
121.0	0.000	0.000	Strato2_3095_82743_L_0		
84 D	24.41	4.0340E-04	154.1 122.1	319.4	159.7
122.1	0.000	0.000	Strato2_3095_82743_L_0		
85 D	24.62	3.1998E-04	158.1 123.1	323.4	161.7
123.1	0.000	0.000	Strato2_3095_82743_L_0		
86 D	24.84	2.3813E-04	162.1 124.2	327.4	163.7
124.2	0.000	0.000	Strato2_3095_82743_L_0		
87 D	25.06	1.5739E-04	166.1 125.3	331.4	165.7
125.3	0.000	0.000	Strato2_3095_82743_L_0		
88 D	25.27	7.7383E-05	170.1 126.4	335.4	167.7
126.4	0.000	0.000	Strato2_3095_82743_L_0		
89 D	25.49	-2.1996E-06	174.1 127.5	339.4	169.7
127.5	0.000	0.000	Strato2_3095_82743_L_0		
90 D	25.71	-8.1582E-05	178.1 128.6	343.4	171.7
128.6	0.000	0.000	Strato2_3095_82743_L_0		
91 D	12.96	-1.6090E-04	182.1 129.6	347.4	173.7
129.6	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



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12

Codifica Documento
E E2 CL GA 2701 002

Rev.
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228 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  17:58:40  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.1169	-1.1169	7.03370E-10	0.22338
2	2.9480	-2.9480	-0.22338	0.81299
3	4.9250	-4.9250	-0.81299	1.7980
4	7.3328	-7.3328	-1.7980	3.2645
5	9.8922	-9.8922	-3.2645	5.2430
6	12.790	-12.790	-5.2430	7.8011
7	15.859	-15.859	-7.8011	10.973
8	19.232	-19.232	-10.973	14.819
9	22.740	-22.740	-14.819	19.367
10	26.540	-26.540	-19.367	24.675
11	30.535	-30.535	-24.675	30.782
12	34.809	-34.809	-30.782	37.744
13	39.283	-39.283	-37.744	45.601
14	44.028	-44.028	-45.601	54.406
15	48.976	-48.976	-54.406	64.201
16	-92.353	92.353	-64.201	45.731
17	-86.768	86.768	-45.731	28.377
18	-80.771	80.771	-28.377	12.223
19	-74.415	74.415	-12.223	-2.6599
20	-67.653	67.653	2.6599	-16.191
21	-60.534	60.534	16.191	-28.297
22	-53.017	53.017	28.297	-38.901
23	-45.145	45.145	38.901	-47.930
24	-36.898	36.898	47.930	-55.309
25	-28.301	28.301	55.309	-60.969
26	-19.319	19.319	60.969	-64.833
27	-9.9925	9.9925	64.833	-66.832
28	-0.29031	0.29031	66.832	-66.890
29	9.7495	-9.7495	66.890	-64.940
30	20.154	-20.154	64.940	-60.909
31	30.874	-30.874	60.909	-54.734
32	41.946	-41.946	54.734	-46.345
33	53.336	-53.336	46.345	-35.678
34	65.064	-65.064	35.678	-22.665
35	77.094	-77.094	22.665	-7.2464
36	89.446	-89.446	7.2464	10.643
37	102.08	-102.08	-10.643	31.059
38	115.02	-115.02	-31.059	54.063
39	128.21	-128.21	-54.063	79.705
40	141.68	-141.68	-79.705	108.04
41	155.39	-155.39	-108.04	139.12
42	8.3265	-8.3265	-139.12	140.78
43	22.496	-22.496	-140.78	145.28
44	36.886	-36.886	-145.28	152.66
45	51.343	-51.343	-152.66	162.93
46	63.016	-63.016	-162.93	175.53
47	71.746	-71.746	-175.53	189.88
48	77.538	-77.538	-189.88	205.39
49	80.361	-80.361	-205.39	221.46
50	80.225	-80.225	-221.46	237.51
51	77.101	-77.101	-237.51	252.93
52	71.001	-71.001	-252.93	267.13
53	63.562	-63.562	-267.13	279.84
54	55.996	-55.996	-279.84	291.04
55	48.285	-48.285	-291.04	300.70
56	40.439	-40.439	-300.70	308.78
57	32.432	-32.432	-308.78	315.27
58	24.276	-24.276	-315.27	320.13
59	16.345	-16.345	-320.13	323.39
60	9.1162	-9.1162	-323.39	325.22
61	2.5166	-2.5166	-325.22	325.72
62	-3.4504	3.4504	-325.72	325.03
63	-8.8451	8.8451	-325.03	323.26

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 229 di 1221
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64	-20.860	20.860	-323.26	319.09
65	-33.061	33.061	-319.09	312.48
66	-44.808	44.808	-312.48	303.52
67	-54.895	54.895	-303.52	292.54
68	-63.408	63.408	-292.54	279.86
69	-70.483	70.483	-279.86	265.76
70	-76.185	76.185	-265.76	250.52
71	-80.630	80.630	-250.52	234.40
72	-83.885	83.885	-234.40	217.62
73	-86.050	86.050	-217.62	200.41
74	-87.183	87.183	-200.41	182.97
75	-87.371	87.371	-182.97	165.50
76	-86.667	86.667	-165.50	148.17
77	-85.139	85.139	-148.17	131.14
78	-82.817	82.817	-131.14	114.57
79	-79.765	79.765	-114.57	98.621
80	-76.003	76.003	-98.621	83.421
81	-71.583	71.583	-83.421	69.104
82	-66.515	66.515	-69.104	55.801
83	-60.839	60.839	-55.801	43.633
84	-54.565	54.565	-43.633	32.720
85	-47.715	47.715	-32.720	23.177
86	-40.283	40.283	-23.177	15.120
87	-32.294	32.294	-15.120	8.6614
88	-23.734	23.734	-8.6614	3.9147
89	-14.623	14.623	-3.9147	0.99010
90	-4.9505	4.9505	-0.99010	-1.28986E-12

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1MIR1_3484
|          Exe Time :29 July 2019      17:58:40
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	151.72	-6.68821E-04	2.12746E-02	0.0000	2633.3	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1MIR1_3484
|          Exe Time :29 July 2019      17:58:40
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	166.70	-1.26416E-03	-1.26416E-03	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

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ITER  0  RNORM = 0.000      RMNORM= 0.000
      RINORM=0.7453E+06  RIMNOR=0.4976E+07
      RENORM= 9477.      REMNOR=0.1843E-17  RATIO =0.1128      TOLER =0.1000E-03  NOT CONVERGED
      RFMAX = 161.0      RMMAX = 325.7
      RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
      RDT  =0.7453E+06  RDR  =0.4976E+07
      RATIOT=0.1128    RATIOR= 0.000
      MAX UN= 26.27    IEQ= 125 NODE      63 DOF  1  Y-DISPL.F
      MIN UN=-.7622E-08  IEQ= 9 NODE      5 DOF  1  Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



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Doc. N.

Progetto
INORLotto
12Codifica Documento
E E2 CL GA 2701 002Rev.
AFoglio
230 di 1221

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.7453E+06 RIMNOR=0.4976E+07
            RENORM= 864.6      REMNOR=0.3370E-17 RATIO =0.3406E-01 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 161.0      RMMAX = 325.7
            RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
            RDT =0.7453E+06 RDR =0.4976E+07
            RATIO=0.3406E-01 RATIO= 0.000
            MAX UN= 15.15      IEQ= 127 NODE      64 DOF 1 Y-DISPL.F
            MIN UN=-.1104      IEQ= 3 NODE      2 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER      3  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.7453E+06 RIMNOR=0.4976E+07
            RENORM= 169.3      REMNOR=0.2463E-17 RATIO =0.1507E-01 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 161.0      RMMAX = 325.7
            RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
            RDT =0.7453E+06 RDR =0.4976E+07
            RATIO=0.1507E-01 RATIO= 0.000
            MAX UN= 5.396      IEQ= 133 NODE      67 DOF 1 Y-DISPL.F
            MIN UN=-.4003      IEQ= 181 NODE      91 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.7453E+06 RIMNOR=0.4976E+07
            RENORM= 9.473      REMNOR=0.3833E-17 RATIO =0.3565E-02 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 161.0      RMMAX = 325.7
            RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
            RDT =0.7453E+06 RDR =0.4976E+07
            RATIO=0.3565E-02 RATIO= 0.000
            MAX UN= 1.527      IEQ= 19 NODE      10 DOF 1 Y-DISPL.F
            MIN UN=-.9611      IEQ= 5 NODE      3 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.7453E+06 RIMNOR=0.4976E+07
            RENORM=0.8078E-15 REMNOR=0.1924E-17 RATIO =0.3292E-10 TOLER =0.1000E-03 CONVERGED !
            RFMAX = 161.0      RMMAX = 325.7
            RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
            RDT =0.7453E+06 RDR =0.4976E+07
            RATIO=0.3292E-10 RATIO= 0.000
            MAX UN=0.1193E-07 IEQ= 3 NODE      2 DOF 1 Y-DISPL.F
            MIN UN=-.7423E-08 IEQ= 1 NODE      1 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
231 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  17:58:40  |
|          |
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New Project
SOLUTION REACHED USING 5 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 6 (AT TIME 6.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.3895497E-02	-1.5892850E-03	
2	3.3577642E-02	-1.5892549E-03	
3	3.3259802E-02	-1.5891209E-03	
4	3.2942006E-02	-1.5887955E-03	
5	3.2624303E-02	-1.5881816E-03	
6	3.2306760E-02	-1.5871788E-03	
7	3.1989464E-02	-1.5856851E-03	
8	3.1672526E-02	-1.5835878E-03	
9	3.1356078E-02	-1.5807627E-03	
10	3.1040278E-02	-1.5770754E-03	
11	3.0725314E-02	-1.5723812E-03	
12	3.0411403E-02	-1.5665240E-03	
13	3.0098794E-02	-1.5593363E-03	
14	2.9787769E-02	-1.5506392E-03	
15	2.9478651E-02	-1.5402429E-03	
16	2.9171799E-02	-1.5279460E-03	
17	2.8867371E-02	-1.5171721E-03	
18	2.8564601E-02	-1.5113341E-03	
19	2.8262524E-02	-1.5101984E-03	
20	2.7960224E-02	-1.5135205E-03	
21	2.7656836E-02	-1.5210444E-03	
22	2.7351544E-02	-1.5325032E-03	
23	2.7043591E-02	-1.5476187E-03	
24	2.6732274E-02	-1.5661018E-03	
25	2.6416947E-02	-1.5876528E-03	
26	2.6097029E-02	-1.6119609E-03	
27	2.5772000E-02	-1.6387046E-03	
28	2.5441407E-02	-1.6675511E-03	
29	2.5104864E-02	-1.6981564E-03	
30	2.4762052E-02	-1.7301659E-03	
31	2.4412729E-02	-1.7632136E-03	
32	2.4056723E-02	-1.7969226E-03	
33	2.3693941E-02	-1.8309054E-03	
34	2.3324369E-02	-1.8647637E-03	
35	2.2948073E-02	-1.8980875E-03	
36	2.2565200E-02	-1.9304566E-03	
37	2.2175983E-02	-1.9614390E-03	
38	2.1780746E-02	-1.9905921E-03	
39	2.1379899E-02	-2.0174619E-03	
40	2.0973946E-02	-2.0415838E-03	
41	2.0563482E-02	-2.0624827E-03	
42	2.0149192E-02	-2.0796722E-03	
43	1.9731584E-02	-2.0971712E-03	
44	1.9310038E-02	-2.1189884E-03	
45	1.8883738E-02	-2.1446046E-03	
46	1.8451978E-02	-2.1734889E-03	
47	1.8014160E-02	-2.2051000E-03	
48	1.7569793E-02	-2.2388857E-03	
49	1.7118501E-02	-2.2742826E-03	
50	1.6660013E-02	-2.3107166E-03	
51	1.6194184E-02	-2.3476024E-03	
52	1.5720977E-02	-2.3843438E-03	
53	1.5240492E-02	-2.4203329E-03	
54	1.4752936E-02	-2.4549516E-03	
55	1.4258645E-02	-2.4875707E-03	
56	1.3758083E-02	-2.5175500E-03	
57	1.3251844E-02	-2.5442386E-03	
58	1.2740651E-02	-2.5669742E-03	
59	1.2225363E-02	-2.5850838E-03	
60	1.1706972E-02	-2.5978832E-03	
61	1.1186610E-02	-2.6046772E-03	
62	1.0665548E-02	-2.6047598E-03	
63	1.0145201E-02	-2.5974141E-03	
64	9.6271265E-03	-2.5819123E-03	
65	9.1129868E-03	-2.5581525E-03	
66	8.6043736E-03	-2.5267715E-03	
67	8.1027296E-03	-2.4886205E-03	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 233 di 1221							
18 D	5.049	-2.8565E-02	83.04	25.24	93.04	44.01	ACTIVE	0.000	-3.400	0.000	1.000	1.000
25.24	0.000	0.000	Stratol_2_8_L_0									
19 D	5.259	-2.8263E-02	86.49	26.29	96.49	45.84	ACTIVE	0.000	-3.600	0.000	1.000	1.000
26.29	0.000	0.000	Stratol_2_8_L_0									
20 D	5.517	-2.7960E-02	90.74	27.59	100.7	48.09	ACTIVE	0.000	-3.800	0.000	1.000	1.000
27.59	0.000	0.000	Stratol_2_8_L_0									
21 D	5.729	-2.7657E-02	94.22	28.64	104.2	49.94	ACTIVE	0.000	-4.000	0.000	1.000	1.000
28.64	0.000	0.000	Stratol_2_8_L_0									
22 D	5.984	-2.7352E-02	98.43	29.92	108.4	52.17	ACTIVE	0.000	-4.200	0.000	1.000	1.000
29.92	0.000	0.000	Stratol_2_8_L_0									
23 D	6.197	-2.7044E-02	101.9	30.99	111.9	54.02	ACTIVE	0.000	-4.400	0.000	1.000	1.000
30.99	0.000	0.000	Stratol_2_8_L_0									
24 D	6.433	-2.6732E-02	105.8	32.17	115.8	56.08	ACTIVE	0.000	-4.600	0.000	1.000	1.000
32.17	0.000	0.000	Stratol_2_8_L_0									
25 D	6.648	-2.6417E-02	109.3	33.24	119.3	57.95	ACTIVE	0.000	-4.800	0.000	1.000	1.000
33.24	0.000	0.000	Stratol_2_8_L_0									
26 D	6.900	-2.6097E-02	113.5	34.50	123.5	60.15	ACTIVE	0.000	-5.000	0.000	1.000	1.000
34.50	0.000	0.000	Stratol_2_8_L_0									
27 D	7.116	-2.5772E-02	117.0	35.58	127.0	62.03	ACTIVE	0.000	-5.200	0.000	1.000	1.000
35.58	0.000	0.000	Stratol_2_8_L_0									
28 D	7.367	-2.5441E-02	121.2	36.83	131.2	64.21	ACTIVE	0.000	-5.400	0.000	1.000	1.000
36.83	0.000	0.000	Stratol_2_8_L_0									
29 D	7.583	-2.5105E-02	124.7	37.92	134.7	66.10	ACTIVE	0.000	-5.600	0.000	1.000	1.000
37.92	0.000	0.000	Stratol_2_8_L_0									
30 D	7.832	-2.4762E-02	128.8	39.16	138.8	68.27	ACTIVE	0.000	-5.800	0.000	1.000	1.000
39.16	0.000	0.000	Stratol_2_8_L_0									
31 D	8.037	-2.4413E-02	132.2	40.18	142.2	70.06	ACTIVE	0.000	-6.000	0.000	1.000	1.000
40.18	0.000	0.000	Stratol_2_8_L_0									
32 D	8.285	-2.4057E-02	136.3	41.42	146.3	72.22	ACTIVE	0.000	-6.200	0.000	1.000	1.000
41.42	0.000	0.000	Stratol_2_8_L_0									
33 D	8.503	-2.3694E-02	139.9	42.52	149.9	74.12	ACTIVE	0.000	-6.400	0.000	1.000	1.000
42.52	0.000	0.000	Stratol_2_8_L_0									
34 D	8.750	-2.3324E-02	143.9	43.75	153.9	76.28	ACTIVE	0.000	-6.600	0.000	1.000	1.000
43.75	0.000	0.000	Stratol_2_8_L_0									
35 D	8.970	-2.2948E-02	147.5	44.85	157.5	78.19	ACTIVE	0.000	-6.800	0.000	1.000	1.000
44.85	0.000	0.000	Stratol_2_8_L_0									
36 D	9.215	-2.2565E-02	151.6	46.08	161.6	80.33	ACTIVE	0.000	-7.000	0.000	1.000	1.000
46.08	0.000	0.000	Stratol_2_8_L_0									
37 D	9.435	-2.2176E-02	155.2	47.18	165.2	82.25	ACTIVE	0.000	-7.200	0.000	1.000	1.000
47.18	0.000	0.000	Stratol_2_8_L_0									
38 D	9.680	-2.1781E-02	159.2	48.40	169.2	84.38	ACTIVE	0.000	-7.400	0.000	1.000	1.000
48.40	0.000	0.000	Stratol_2_8_L_0									
39 D	9.890	-2.1380E-02	162.7	49.45	172.7	86.21	ACTIVE	0.000	-7.600	0.000	1.000	1.000
49.45	0.000	0.000	Stratol_2_8_L_0									
40 D	10.13	-2.0974E-02	166.7	50.67	176.7	88.34	ACTIVE	0.000	-7.800	0.000	1.000	1.000
50.67	0.000	0.000	Stratol_2_8_L_0									
41 D	10.36	-2.0563E-02	170.3	51.78	180.3	90.27	ACTIVE	0.000	-8.000	0.000	1.000	1.000
51.78	0.000	0.000	Stratol_2_8_L_0									
42 D	10.60	-2.0149E-02	174.3	53.00	184.3	92.40	ACTIVE	0.000	-8.200	0.000	1.000	1.000
53.00	0.000	0.000	Stratol_2_8_L_0									
43 D	10.82	-1.9732E-02	178.0	54.10	188.0	94.33	ACTIVE	0.000	-8.400	0.000	1.000	1.000
54.10	0.000	0.000	Stratol_2_8_L_0									
44 D	11.06	-1.9310E-02	182.0	55.32	192.0	96.45	ACTIVE	0.000	-8.600	0.000	1.000	1.000
55.32	0.000	0.000	Stratol_2_8_L_0									
45 D	11.29	-1.8884E-02	185.6	56.43	195.6	98.38	ACTIVE	0.000	-8.800	0.000	1.000	1.000
56.43	0.000	0.000	Stratol_2_8_L_0									
46 D	11.52	-1.8452E-02	189.5	57.60	199.5	100.4	ACTIVE	0.000	-9.000	0.000	1.000	1.000
57.60	0.000	0.000	Stratol_2_8_L_0									
47 D	11.74	-1.8014E-02	193.1	58.71	203.1	102.4	ACTIVE	0.000	-9.200	0.000	1.000	1.000
58.71	0.000	0.000	Stratol_2_8_L_0									
48 D	11.98	-1.7570E-02	197.1	59.92	207.1	104.5	ACTIVE	0.000	-9.400	0.000	1.000	1.000
59.92	0.000	0.000	Stratol_2_8_L_0									
49 D	12.21	-1.7119E-02	200.8	61.03	210.8	106.4	ACTIVE	0.000	-9.600	0.000	1.000	1.000
61.03	0.000	0.000	Stratol_2_8_L_0									
50 D	12.45	-1.6660E-02	204.7	62.24	214.7	108.5	ACTIVE	0.000	-9.800	0.000	1.000	1.000
62.24	0.000	0.000	Stratol_2_8_L_0									
51 D	12.67	-1.6194E-02	208.4	63.36	218.4	110.5	ACTIVE	0.000	-10.00	0.000	1.000	1.000
63.36	0.000	0.000	Stratol_2_8_L_0									
52 D	12.91	-1.5721E-02	212.4	64.56	222.4	112.6	ACTIVE	0.000	-10.20	0.000	1.000	1.000
64.56	0.000	0.000	Stratol_2_8_L_0									
53 D	13.14	-1.5240E-02	216.0	65.68	226.0	114.5	ACTIVE	0.000	-10.40	0.000	1.000	1.000
65.68	0.000	0.000	Stratol_2_8_L_0									
54 D	13.37	-1.4753E-02	219.9	66.84	229.9	116.5	ACTIVE	0.000	-10.60	0.000	1.000	1.000
66.84	0.000	0.000	Stratol_2_8_L_0									
55 D	13.59	-1.4259E-02	223.6	67.96	233.6	118.5	ACTIVE	0.000	-10.80	0.000	1.000	1.000
67.96	0.000	0.000	Stratol_2_8_L_0									
56 D	13.83	-1.3758E-02	227.5	69.17	237.5	120.6	ACTIVE	0.000	-11.00	0.000	1.000	1.000
69.17	0.000	0.000	Stratol_2_8_L_0									
57 D	14.06	-1.3252E-02	231.2	70.28	241.2	122.5	ACTIVE	0.000	-11.20	0.000	1.000	1.000
70.28	0.000	0.000	Stratol_2_8_L_0									
58 D	14.30	-1.2741E-02	235.1	71.49	245.1	124.6	ACTIVE	0.000	-11.40	0.000	1.000	1.000
71.49	0.000	0.000	Stratol_2_8_L_0									
59 D	14.52	-1.2225E-02	238.8	72.61	248.8	126.6	ACTIVE	0.000	-11.60	0.000	1.000	1.000
72.61	0.000	0.000	Stratol_2_8_L_0									
60 D	14.76	-1.1707E-02	242.8	73.80	252.8	128.7	ACTIVE	0.000	-11.80	0.000	1.000	1.000

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Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 234 di 1221
73.80	0.000	0.000	Strato1_2_8_L_0				
61 D	14.98	-1.1187E-02	246.4	74.89	256.4	130.6	ACTIVE 0.000 -12.00 0.000 1.000 1.000
74.89	0.000	0.000	Strato1_2_8_L_0				
62 D	15.22	-1.0666E-02	250.3	76.09	260.3	132.7	ACTIVE 0.000 -12.20 0.000 1.000 1.000
76.09	0.000	0.000	Strato1_2_8_L_0				
63 D	15.44	-1.0145E-02	254.0	77.21	264.0	134.6	ACTIVE 0.000 -12.40 0.000 1.000 1.000
77.21	0.000	0.000	Strato1_2_8_L_0				
64 D	8.244	-9.6271E-03	257.9	41.22	267.9	129.0	ACTIVE 0.000 -12.60 0.000 1.000 1.000
41.22	0.000	0.000	Strato2_3095_82743_L_0				
65 D	8.428	-9.1130E-03	261.8	42.14	271.8	130.9	ACTIVE 0.000 -12.80 0.000 1.000 1.000
42.14	0.000	0.000	Strato2_3095_82743_L_0				
66 D	8.622	-8.6044E-03	266.0	43.11	276.0	133.0	ACTIVE 0.000 -13.00 0.000 1.000 1.000
43.11	0.000	0.000	Strato2_3095_82743_L_0				
67 D	8.805	-8.1027E-03	269.9	44.03	279.9	134.9	ACTIVE 0.000 -13.20 0.000 1.000 1.000
44.03	0.000	0.000	Strato2_3095_82743_L_0				
68 D	8.999	-7.6093E-03	274.0	44.99	284.0	137.0	ACTIVE 0.000 -13.40 0.000 1.000 1.000
44.99	0.000	0.000	Strato2_3095_82743_L_0				
69 D	9.178	-7.1252E-03	277.8	45.89	287.8	138.9	ACTIVE 0.000 -13.60 0.000 1.000 1.000
45.89	0.000	0.000	Strato2_3095_82743_L_0				
70 D	9.372	-6.6513E-03	281.9	46.86	291.9	141.0	ACTIVE 0.000 -13.80 0.000 1.000 1.000
46.86	0.000	0.000	Strato2_3095_82743_L_0				
71 D	9.555	-6.1882E-03	285.8	47.78	295.8	142.9	ACTIVE 0.000 -14.00 0.000 1.000 1.000
47.78	0.000	0.000	Strato2_3095_82743_L_0				
72 D	9.749	-5.7364E-03	289.9	48.74	299.9	145.0	ACTIVE 0.000 -14.20 0.000 1.000 1.000
48.74	0.000	0.000	Strato2_3095_82743_L_0				
73 D	9.932	-5.2963E-03	293.8	49.66	303.8	146.9	ACTIVE 0.000 -14.40 0.000 1.000 1.000
49.66	0.000	0.000	Strato2_3095_82743_L_0				
74 D	10.13	-4.8681E-03	298.0	50.63	308.0	149.0	ACTIVE 0.000 -14.60 0.000 1.000 1.000
50.63	0.000	0.000	Strato2_3095_82743_L_0				
75 D	10.31	-4.4515E-03	301.9	51.55	311.9	150.9	ACTIVE 0.000 -14.80 0.000 1.000 1.000
51.55	0.000	0.000	Strato2_3095_82743_L_0				
76 D	10.50	-4.0466E-03	305.9	52.49	315.9	152.9	ACTIVE 0.000 -15.00 0.000 1.000 1.000
52.49	0.000	0.000	Strato2_3095_82743_L_0				
77 D	11.81	-3.6527E-03	309.8	59.05	319.8	154.9	UL-RL 2.4012E+04 -15.20 0.000 1.000 1.000
59.05	0.000	0.000	Strato2_3095_82743_L_0				
78 D	14.06	-3.2695E-03	313.9	70.28	323.9	157.0	UL-RL 2.4012E+04 -15.40 0.000 1.000 1.000
70.28	0.000	0.000	Strato2_3095_82743_L_0				
79 D	16.23	-2.8961E-03	317.8	81.17	327.8	158.9	UL-RL 2.4012E+04 -15.60 0.000 1.000 1.000
81.17	0.000	0.000	Strato2_3095_82743_L_0				
80 D	18.39	-2.5318E-03	321.9	91.94	331.9	161.0	UL-RL 2.4012E+04 -15.80 0.000 1.000 1.000
91.94	0.000	0.000	Strato2_3095_82743_L_0				
81 D	20.48	-2.1756E-03	325.9	102.4	335.9	162.9	UL-RL 2.4012E+04 -16.00 0.000 1.000 1.000
102.4	0.000	0.000	Strato2_3095_82743_L_0				
82 D	22.56	-1.8265E-03	330.0	112.8	340.0	165.0	UL-RL 2.4012E+04 -16.20 0.000 1.000 1.000
112.8	0.000	0.000	Strato2_3095_82743_L_0				
83 D	24.60	-1.4836E-03	333.9	123.0	343.9	166.9	UL-RL 2.4012E+04 -16.40 0.000 1.000 1.000
123.0	0.000	0.000	Strato2_3095_82743_L_0				
84 D	26.62	-1.1459E-03	337.9	133.1	347.9	169.0	UL-RL 2.4012E+04 -16.60 0.000 1.000 1.000
133.1	0.000	0.000	Strato2_3095_82743_L_0				
85 D	28.60	-8.1223E-04	341.8	143.0	351.8	170.9	UL-RL 2.4012E+04 -16.80 0.000 1.000 1.000
143.0	0.000	0.000	Strato2_3095_82743_L_0				
86 D	30.60	-4.8180E-04	345.9	153.0	355.9	173.0	UL-RL 2.4012E+04 -17.00 0.000 1.000 1.000
153.0	0.000	0.000	Strato2_3095_82743_L_0				
87 D	32.56	-1.5369E-04	349.8	162.8	359.8	174.9	UL-RL 2.4012E+04 -17.20 0.000 1.000 1.000
162.8	0.000	0.000	Strato2_3095_82743_L_0				
88 D	34.53	1.7286E-04	353.9	172.7	363.9	177.3	UL-RL 2.4012E+04 -17.40 0.000 1.000 1.000
172.7	0.000	0.000	Strato2_3095_82743_L_0				
89 D	36.38	4.9848E-04	357.9	181.9	367.9	181.9	V-C 8004. -17.60 0.000 1.000 1.000
181.9	0.000	0.000	Strato2_3095_82743_L_0				
90 D	37.61	8.2365E-04	362.0	188.1	372.0	188.1	V-C 8004. -17.80 0.000 1.000 1.000
188.1	0.000	0.000	Strato2_3095_82743_L_0				
91 D	19.26	1.1487E-03	365.8	192.6	375.8	192.6	V-C 8004. -18.00 0.000 1.000 1.000
192.6	0.000	0.000	Strato2_3095_82743_L_0				



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 235 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                       |
|          NewProject.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          17:58:40          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 6.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.2000	0.000	1.000	1.000
2	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.6000	0.000	1.000	1.000
3	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.000	0.000	1.000	1.000
4	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.400	0.000	1.000	1.000
5	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.800	0.000	1.000	1.000
6	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.200	0.000	1.000	1.000
7	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.600	0.000	1.000	1.000
8	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.000	0.000	1.000	1.000
9	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.400	0.000	1.000	1.000
10	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.800	0.000	1.000	1.000
11	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
12	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
13	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
14	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000
15	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.800	0.000	1.000	1.000
16	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
17	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
18	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
19	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
20	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
21	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
22	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
23	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
24	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
25	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
26	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
27	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
28	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
29	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
30	0.000	--	--	--	--	--	REMOVED	--				

GENERAL CONTRACTOR



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Codifica Documento
E E2 CL GA 2701 002

Rev.
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Foglio
238 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019          17:58:40      |
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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_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 C U R R E N T T I M E I S 6.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.2692	-1.2692	7.42805E-10	0.25383
2	3.1037	-3.1037	-0.25383	0.87458
3	4.9643	-4.9643	-0.87458	1.8674
4	7.1851	-7.1851	-1.8674	3.3045
5	9.1940	-9.1940	-3.3045	5.1433
6	11.484	-11.484	-5.1433	7.4401
7	13.945	-13.945	-7.4401	10.229
8	16.709	-16.709	-10.229	13.571
9	19.610	-19.610	-13.571	17.493
10	22.802	-22.802	-17.493	22.053
11	26.189	-26.189	-22.053	27.291
12	29.855	-29.855	-27.291	33.262
13	33.721	-33.721	-33.262	40.006
14	37.858	-37.858	-40.006	47.578
15	42.198	-42.198	-47.578	56.017
16	-106.35	106.35	-56.017	34.748
17	-101.56	101.56	-34.748	14.435
18	-96.514	96.514	-14.435	-4.8678
19	-91.255	91.255	4.8678	-23.119
20	-85.738	85.738	23.119	-40.266
21	-80.009	80.009	40.266	-56.268
22	-74.025	74.025	56.268	-71.073
23	-67.828	67.828	71.073	-84.639
24	-61.394	61.394	84.639	-96.918
25	-54.746	54.746	96.918	-107.87
26	-47.846	47.846	107.87	-117.44
27	-40.730	40.730	117.44	-125.58
28	-33.363	33.363	125.58	-132.25
29	-25.780	25.780	132.25	-137.41
30	-17.947	17.947	137.41	-141.00
31	-9.9110	9.9110	141.00	-142.98
32	-1.6264	1.6264	142.98	-143.31
33	6.8769	-6.8769	143.31	-141.93
34	15.627	-15.627	141.93	-138.81
35	24.597	-24.597	138.81	-133.89
36	33.812	-33.812	133.89	-127.12
37	43.247	-43.247	127.12	-118.48
38	52.927	-52.927	118.48	-107.89
39	62.817	-62.817	107.89	-95.326
40	72.952	-72.952	95.326	-80.736
41	83.308	-83.308	80.736	-64.074
42	-96.360	96.360	64.074	-83.346
43	-85.540	85.540	83.346	-100.45
44	-74.476	74.476	100.45	-115.35
45	-63.190	63.190	115.35	-127.99
46	-51.670	51.670	127.99	-138.32
47	-39.928	39.928	138.32	-146.31
48	-27.944	27.944	146.31	-151.90
49	-15.738	15.738	151.90	-155.04
50	-3.2893	3.2893	155.04	-155.70
51	9.3820	-9.3820	155.70	-153.82
52	22.295	-22.295	153.82	-149.37
53	35.430	-35.430	149.37	-142.28
54	48.799	-48.799	142.28	-132.52
55	62.392	-62.392	132.52	-120.04
56	76.225	-76.225	120.04	-104.80
57	90.282	-90.282	104.80	-86.740
58	104.58	-104.58	86.740	-65.824
59	119.10	-119.10	65.824	-42.004
60	133.86	-133.86	42.004	-15.232
61	148.84	-148.84	15.232	14.536
62	164.06	-164.06	-14.536	47.348
63	179.50	-179.50	-47.348	83.248

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 239 di 1221
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64	168.35	-168.35	-83.248	116.92
65	152.67	-152.67	-116.92	147.45
66	132.49	-132.49	-147.45	173.95
67	112.19	-112.19	-173.95	196.39
68	92.095	-92.095	-196.39	214.81
69	72.227	-72.227	-214.81	229.25
70	52.613	-52.613	-229.25	239.77
71	33.247	-33.247	-239.77	246.42
72	14.142	-14.142	-246.42	249.25
73	-4.7130	4.7130	-249.25	248.31
74	-23.311	23.311	-248.31	243.65
75	-41.668	41.668	-243.65	235.31
76	-59.534	59.534	-235.31	223.41
77	-75.154	75.154	-223.41	208.38
78	-87.616	87.616	-208.38	190.85
79	-97.008	97.008	-190.85	171.45
80	-103.37	103.37	-171.45	150.78
81	-106.79	106.79	-150.78	129.42
82	-107.29	107.29	-129.42	107.96
83	-104.94	104.94	-107.96	86.971
84	-99.753	99.753	-86.971	67.019
85	-91.776	91.776	-67.019	48.664
86	-81.012	81.012	-48.664	32.462
87	-67.491	67.491	-32.462	18.964
88	-51.206	51.206	-18.964	8.7224
89	-32.283	32.283	-8.7224	2.2657
90	-11.328	11.328	-2.2657	9.05565E-12

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1M1R1_3484
|          Exe Time :29 July 2019  17:58:40
+-----+

```

New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit		
ANCHOR	1	158.53	-6.68821E-04	2.38584E-02	0.0000	2633.3	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1M1R1_3484
|          Exe Time :29 July 2019  17:58:40
+-----+

```

New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit		
ANCHOR	1	196.98	-1.26416E-03	5.92108E-03	0.0000	4214.1	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 240 di 1221
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```
+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019      17:58:40                             |
+-----+
```

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	2
2	CONVERGENCE :YES	6
3	CONVERGENCE :YES	4
4	CONVERGENCE :YES	6
5	CONVERGENCE :YES	5
6	CONVERGENCE :YES	5

END OF PROCESS FOR PROBLEM
New Project
NONLINEAR SOLUTION CPU TIME 0.08 [sec]
DATABASE CREATION CPU TIME..... 0.34 [sec]

1.7. 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:lunedì 29 luglio 2019 17:58:40

* 1: Defining general settings

UNIT m kN

TITLE New Project

DELTA 0.2

option param itemax 100

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)

WALL LeftWall_32 0 -18 0 1

* 3: Defining surfaces for wall(s)

SOIL 0_L LeftWall_32 -18 0 1 0

SOIL 0_R LeftWall_32 -18 0 2 180

* 4: Defining soil layers

*

* Soil Profile (Strato1_2_8_L_0)

*

LDATA Strato1_2_8_L_0 0 LeftWall_32

ATREST 0.53 1 1

WEIGHT 19 9 10

PERMEABILITY 1E-06

RESISTANCE 0 29

YOUNG 2E+04 6E+04

ENDL

*

* Soil Profile (Strato2_3095_82743_L_0)

*

LDATA Strato2_3095_82743_L_0 -12.6 LeftWall_32

ATREST 0.5 0.5 1

WEIGHT 20 10 10

PERMEABILITY 0.0001

RESISTANCE 20 35

YOUNG 5E+04 1.5E+05

ENDL

* 5: Defining structural materials

* Steel material: 108 Name=Fe360 E=206000200 kPa

MATERIAL Fe360_108 2.06E+08

* Concrete material: 104 Name=C25/30 E=31475800 kPa

MATERIAL C2530_104 3.148E+07

* Rebar material: 124 Name=acciaio armonico E=200100000 kPa

MATERIAL acciaioarmonico_124 2.001E+08

* Concrete material: 103 Name=C20/25 E=29962000 kPa

MATERIAL C2025_103 2.996E+07

* 6: Defining structural elements

* 6.1: Beams and combined Wall Elements

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 241 di 1221
---------	------------------	-------------	---	-----------	-----------------------

BEAM WallElement_33 LeftWall_32 -18 0 C2530_104 0.6848 00 00 0

* 6.2: Supports

WIRE Tirante1_429 LeftWall_32 -3 acciaioarmonico_124 1.316E-05 93.94 15 0 0
WIRE Tirante2_1507 LeftWall_32 -8.2 acciaioarmonico_124 2.106E-05 166.7 15 0 0

* 6.3: Strips

STRIP LeftWall_32 2 6 0 40 0 15.2 45
STRIP LeftWall_32 2 6 0 40 0 13 30

* 7: Defining Steps

STEP Stage1_31
CHANGE Strato1_2_8_L_0 U-FRICT=23.91 LeftWall_32
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato1_2_8_L_0 U-KA=0.375 LeftWall_32
CHANGE Strato1_2_8_L_0 U-KP=3.038 LeftWall_32
CHANGE Strato1_2_8_L_0 D-KA=0.375 LeftWall_32
CHANGE Strato1_2_8_L_0 D-KP=3.038 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-FRICT=29.26 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-KA=0.3 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-KP=4.102 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-KA=0.3 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-KP=4.102 LeftWall_32
CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-COHE=16 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -26 0 -18 0 0
ADD WallElement_33
ENDSTEP

STEP Stage2_158
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -3.5
WATER -26 0 -18 0 0
ENDSTEP

STEP Stage3_617
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -3.5
WATER -26 0 -18 0 0
ADD Tirante1_429
ENDSTEP

STEP Stage4_714
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -8.7
WATER -26 0 -18 0 0
ENDSTEP

STEP Stage5_1682
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -8.7
SURCHARGE 10 0 0 -9
WATER -26 0 -18 0 0
ADD Tirante2_1507
ENDSTEP

STEP Stage6_1779
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
242 di 1221

```

CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -12.6
SURCHARGE 0 0 0 0
WATER -26 0 -18 0 0
ENDSTEP

```

1.8. Design Assumption : A2+M2+R1 - File di Paratie - File di output (.out)

```

-----
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019      17:58:40                             |
|                                                                                               |
-----

```

```

*****
*                                                                                               *
*  PARATIE PLUS Non-Linear Spring Engine                                                       *
*                                                                                               *
*          AN ELASTOPLASTIC FINITE ELEMENT PROGRAM                                           *
*          FOR FLEXIBLE EARTH-RETAINING STRUCTURES                                           *
*                                                                                               *
*          Written by Ce.A.S. s.r.l. (ITALY)                                                  *
*          with the scientific supervision of                                                  *
*          Roberto Nova - full professor SOIL MECHANICS                                     *
*          at Politecnico di Milano (ITALY)                                                  *
*                                                                                               *
*****
*                                                                                               *
*  RELEASE  2017.1      *Build date:Jul 11, 2017*  *                                                                                               *
*                                                                                               *
*                                                                                               *
*  Ce.A.S.    S.R.L  CENTRO DI ANALISI STRUTTURALE                                           *
*                                                                                               *
*          VIALE  GIUSTINIANO 10                                                             *
*          20129  M I L A N O (ITALIA)                                                       *
*                                                                                               *
*  TEL.      +39 02 2020221  (+39 035 23 67 19)                                             *
*                                                                                               *
*  FAX       +39 02 29512533  (+39 035 42285 49)                                           *
*                                                                                               *
*  email     bruno.becci@ceas.it                                                            *
*                                                                                               *
*  Web Page  www.ceas.it                                                                    *
*****

```

```

JOB : NewProject.BaseDesignSection_28.A2M2R1_3514
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL_STRESS >
ACCEPTED <PARAM ITEMAX 100 >
ACCEPTED <CONTROL HINGES 0 0.0001 0.001 >

```

```

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

```

PRELIMINARY OPERATIONS CPU TIME 0.01 [sec]

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
243 di 1221

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      17:58:40  |
|-----+-----

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 91
NO. OF COORDINATES (NCOORD) ..... 2
NO. OF NODE DOFS (NDOF) ..... 2
NO. OF EQUATIONS (NEQ) ..... 182
NO. OF CONSTRAINTS CARDS (NVINC) ..... 0
NO. OF ELEMENT GROUPS (NEG) ..... 5
NO. OF SOLUTION STEPS (NSTE) ..... 6
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 102
NO. OF LONG NAMES (LASTNAME) ..... 24
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH ..... 1
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 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      17:58:40  |
|-----+-----

```

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 102

```

1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 100
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -18 0 1
7 : SOIL 0_L LeftWall_32 -18 0 1 0
8 : SOIL 0_R LeftWall_32 -18 0 2 180
9 : LDATA Strato1_2_8_L_0 0 LeftWall_32
10 : ATREST 0.53 1 1
11 : WEIGHT 19 9 10
12 : PERMEABILITY 1E-06
13 : RESISTANCE 0 29
14 : YOUNG 2E+04 6E+04
15 : ENDL
16 : LDATA Strato2_3095_82743_L_0 -12.6 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 20 10 10
19 : PERMEABILITY 0.0001
20 : RESISTANCE 20 35
21 : YOUNG 5E+04 1.5E+05
22 : ENDL

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 244 di 1221
---------	------------------	-------------	---	-----------	-----------------------

23 : MATERIAL Fe360_108 2.06E+08
 24 : MATERIAL C2530_104 3.148E+07
 25 : MATERIAL acciaioarmonico_124 2.001E+08
 26 : MATERIAL C2025_103 2.996E+07
 27 : BEAM WallElement_33 LeftWall_32 -18 0 C2530_104 0.6848 00 00 0
 28 : WIRE Tirante1_429 LeftWall_32 -3 acciaioarmonico_124 1.316E-05 93.94 15 0 0
 29 : WIRE Tirante2_1507 LeftWall_32 -8.2 acciaioarmonico_124 2.106E-05 166.7 15 0 0
 30 : STRIP LeftWall_32 2 6 0 40 0 15.2 45
 31 : STRIP LeftWall_32 2 6 0 40 0 13 30
 32 : STEP Stage1_31
 33 : CHANGE Strato1_2_8_L_0 U-FRICT=23.91 LeftWall_32
 34 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
 35 : CHANGE Strato1_2_8_L_0 U-KA=0.375 LeftWall_32
 36 : CHANGE Strato1_2_8_L_0 U-KP=3.038 LeftWall_32
 37 : CHANGE Strato1_2_8_L_0 D-KA=0.375 LeftWall_32
 38 : CHANGE Strato1_2_8_L_0 D-KP=3.038 LeftWall_32
 39 : CHANGE Strato2_3095_82743_L_0 U-FRICT=29.26 LeftWall_32
 40 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
 41 : CHANGE Strato2_3095_82743_L_0 U-KA=0.3 LeftWall_32
 42 : CHANGE Strato2_3095_82743_L_0 U-KP=4.102 LeftWall_32
 43 : CHANGE Strato2_3095_82743_L_0 D-KA=0.3 LeftWall_32
 44 : CHANGE Strato2_3095_82743_L_0 D-KP=4.102 LeftWall_32
 45 : CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
 46 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
 47 : CHANGE Strato2_3095_82743_L_0 U-COHE=16 LeftWall_32
 48 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
 49 : SETWALL LeftWall_32
 50 : GEOM 0 0
 51 : WATER -26 0 -18 0 0
 52 : ADD WallElement_33
 53 : ENDSTEP
 54 : STEP Stage2_158
 55 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
 56 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
 57 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
 58 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
 59 : SETWALL LeftWall_32
 60 : GEOM 0 -3.5
 61 : WATER -26 0 -18 0 0
 62 : ENDSTEP
 63 : STEP Stage3_617
 64 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
 65 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
 66 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
 67 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
 68 : SETWALL LeftWall_32
 69 : GEOM 0 -3.5
 70 : WATER -26 0 -18 0 0
 71 : ADD Tirante1_429
 72 : ENDSTEP
 73 : STEP Stage4_714
 74 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
 75 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
 76 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
 77 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
 78 : SETWALL LeftWall_32
 79 : GEOM 0 -8.7
 80 : WATER -26 0 -18 0 0
 81 : ENDSTEP
 82 : STEP Stage5_1682
 83 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
 84 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
 85 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
 86 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
 87 : SETWALL LeftWall_32
 88 : GEOM 0 -8.7
 89 : SURCHARGE 10 0 0 -9
 90 : WATER -26 0 -18 0 0
 91 : ADD Tirante2_1507
 92 : ENDSTEP
 93 : STEP Stage6_1779
 94 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
 95 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
 96 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
 97 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
 98 : SETWALL LeftWall_32
 99 : GEOM 0 -12.6
 100 : SURCHARGE 0 0 0 0
 101 : WATER -26 0 -18 0 0
 102 : ENDSTEP



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 245 di 1221
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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019          17:58:40      |
+-----+
    
```

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 -10.2000 /
53	0.0000	-10.4000 /	54	0.0000 -10.6000 /	55	0.0000 -10.8000 /	56	0.0000 -11.0000 /
57	0.0000	-11.2000 /	58	0.0000 -11.4000 /	59	0.0000 -11.6000 /	60	0.0000 -11.8000 /
61	0.0000	-12.0000 /	62	0.0000 -12.2000 /	63	0.0000 -12.4000 /	64	0.0000 -12.6000 /
65	0.0000	-12.8000 /	66	0.0000 -13.0000 /	67	0.0000 -13.2000 /	68	0.0000 -13.4000 /
69	0.0000	-13.6000 /	70	0.0000 -13.8000 /	71	0.0000 -14.0000 /	72	0.0000 -14.2000 /
73	0.0000	-14.4000 /	74	0.0000 -14.6000 /	75	0.0000 -14.8000 /	76	0.0000 -15.0000 /
77	0.0000	-15.2000 /	78	0.0000 -15.4000 /	79	0.0000 -15.6000 /	80	0.0000 -15.8000 /
81	0.0000	-16.0000 /	82	0.0000 -16.2000 /	83	0.0000 -16.4000 /	84	0.0000 -16.6000 /
85	0.0000	-16.8000 /	86	0.0000 -17.0000 /	87	0.0000 -17.2000 /	88	0.0000 -17.4000 /
89	0.0000	-17.6000 /	90	0.0000 -17.8000 /	91	0.0000 -18.0000 /		

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019          17:58:40      |
+-----+
    
```

```

ELEMENT GROUP NO. 1

O_L
5 91 0 1 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0 0
.....
.....2D PLASTIC SOIL .....
.....
    
```

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	active
6	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
    
```

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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.								Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 246 di 1221
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	1	0.2000	0.000	0.000	0.000	1.000					
22	22	1	0.2000	0.000	0.000	0.000	1.000					
23	23	1	0.2000	0.000	0.000	0.000	1.000					
24	24	1	0.2000	0.000	0.000	0.000	1.000					
25	25	1	0.2000	0.000	0.000	0.000	1.000					
26	26	1	0.2000	0.000	0.000	0.000	1.000					
27	27	1	0.2000	0.000	0.000	0.000	1.000					
28	28	1	0.2000	0.000	0.000	0.000	1.000					
29	29	1	0.2000	0.000	0.000	0.000	1.000					
30	30	1	0.2000	0.000	0.000	0.000	1.000					
31	31	1	0.2000	0.000	0.000	0.000	1.000					
32	32	1	0.2000	0.000	0.000	0.000	1.000					
33	33	1	0.2000	0.000	0.000	0.000	1.000					
34	34	1	0.2000	0.000	0.000	0.000	1.000					
35	35	1	0.2000	0.000	0.000	0.000	1.000					
36	36	1	0.2000	0.000	0.000	0.000	1.000					
37	37	1	0.2000	0.000	0.000	0.000	1.000					
38	38	1	0.2000	0.000	0.000	0.000	1.000					
39	39	1	0.2000	0.000	0.000	0.000	1.000					
40	40	1	0.2000	0.000	0.000	0.000	1.000					
41	41	1	0.2000	0.000	0.000	0.000	1.000					
42	42	1	0.2000	0.000	0.000	0.000	1.000					
43	43	1	0.2000	0.000	0.000	0.000	1.000					
44	44	1	0.2000	0.000	0.000	0.000	1.000					
45	45	1	0.2000	0.000	0.000	0.000	1.000					
46	46	1	0.2000	0.000	0.000	0.000	1.000					
47	47	1	0.2000	0.000	0.000	0.000	1.000					
48	48	1	0.2000	0.000	0.000	0.000	1.000					
49	49	1	0.2000	0.000	0.000	0.000	1.000					
50	50	1	0.2000	0.000	0.000	0.000	1.000					
51	51	1	0.2000	0.000	0.000	0.000	1.000					
52	52	1	0.2000	0.000	0.000	0.000	1.000					
53	53	1	0.2000	0.000	0.000	0.000	1.000					
54	54	1	0.2000	0.000	0.000	0.000	1.000					
55	55	1	0.2000	0.000	0.000	0.000	1.000					
56	56	1	0.2000	0.000	0.000	0.000	1.000					
57	57	1	0.2000	0.000	0.000	0.000	1.000					
58	58	1	0.2000	0.000	0.000	0.000	1.000					
59	59	1	0.2000	0.000	0.000	0.000	1.000					
60	60	1	0.2000	0.000	0.000	0.000	1.000					
61	61	1	0.2000	0.000	0.000	0.000	1.000					
62	62	1	0.2000	0.000	0.000	0.000	1.000					
63	63	1	0.2000	0.000	0.000	0.000	1.000					
64	64	1	0.2000	0.000	0.000	0.000	1.000					
65	65	2	0.2000	0.000	0.000	0.000	1.000					
66	66	2	0.2000	0.000	0.000	0.000	1.000					
67	67	2	0.2000	0.000	0.000	0.000	1.000					
68	68	2	0.2000	0.000	0.000	0.000	1.000					
69	69	2	0.2000	0.000	0.000	0.000	1.000					
70	70	2	0.2000	0.000	0.000	0.000	1.000					
71	71	2	0.2000	0.000	0.000	0.000	1.000					
72	72	2	0.2000	0.000	0.000	0.000	1.000					
73	73	2	0.2000	0.000	0.000	0.000	1.000					
74	74	2	0.2000	0.000	0.000	0.000	1.000					
75	75	2	0.2000	0.000	0.000	0.000	1.000					
76	76	2	0.2000	0.000	0.000	0.000	1.000					
77	77	2	0.2000	0.000	0.000	0.000	1.000					
78	78	2	0.2000	0.000	0.000	0.000	1.000					
79	79	2	0.2000	0.000	0.000	0.000	1.000					
80	80	2	0.2000	0.000	0.000	0.000	1.000					
81	81	2	0.2000	0.000	0.000	0.000	1.000					
82	82	2	0.2000	0.000	0.000	0.000	1.000					
83	83	2	0.2000	0.000	0.000	0.000	1.000					
84	84	2	0.2000	0.000	0.000	0.000	1.000					
85	85	2	0.2000	0.000	0.000	0.000	1.000					
86	86	2	0.2000	0.000	0.000	0.000	1.000					
87	87	2	0.2000	0.000	0.000	0.000	1.000					

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 247 di 1221
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88	88	2	0.2000	0.000	0.000	0.000	1.000
89	89	2	0.2000	0.000	0.000	0.000	1.000
90	90	2	0.2000	0.000	0.000	0.000	1.000
91	91	2	0.1000	0.000	0.000	0.000	1.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      17:58:40        |
|-----+-----

```

```

ELEMENT GROUP NO.  2

O_R      :
 5 91  0  1  0  0  0  0  0  0  0  0  0  0  0  0  2  0  0  0  0  0
.....
.....2D PLASTIC SOIL .....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
 1  active
 2  active
 3  active
 4  active
 5  active
 6  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

```

```

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  1  0.2000  0.000  0.000  0.000  2.000
22 22  1  0.2000  0.000  0.000  0.000  2.000
23 23  1  0.2000  0.000  0.000  0.000  2.000
24 24  1  0.2000  0.000  0.000  0.000  2.000
25 25  1  0.2000  0.000  0.000  0.000  2.000
26 26  1  0.2000  0.000  0.000  0.000  2.000
27 27  1  0.2000  0.000  0.000  0.000  2.000
28 28  1  0.2000  0.000  0.000  0.000  2.000
29 29  1  0.2000  0.000  0.000  0.000  2.000
30 30  1  0.2000  0.000  0.000  0.000  2.000
31 31  1  0.2000  0.000  0.000  0.000  2.000
32 32  1  0.2000  0.000  0.000  0.000  2.000
33 33  1  0.2000  0.000  0.000  0.000  2.000
34 34  1  0.2000  0.000  0.000  0.000  2.000
35 35  1  0.2000  0.000  0.000  0.000  2.000

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 248 di 1221
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36	36	1	0.2000	0.000	0.000	0.000	2.000
37	37	1	0.2000	0.000	0.000	0.000	2.000
38	38	1	0.2000	0.000	0.000	0.000	2.000
39	39	1	0.2000	0.000	0.000	0.000	2.000
40	40	1	0.2000	0.000	0.000	0.000	2.000
41	41	1	0.2000	0.000	0.000	0.000	2.000
42	42	1	0.2000	0.000	0.000	0.000	2.000
43	43	1	0.2000	0.000	0.000	0.000	2.000
44	44	1	0.2000	0.000	0.000	0.000	2.000
45	45	1	0.2000	0.000	0.000	0.000	2.000
46	46	1	0.2000	0.000	0.000	0.000	2.000
47	47	1	0.2000	0.000	0.000	0.000	2.000
48	48	1	0.2000	0.000	0.000	0.000	2.000
49	49	1	0.2000	0.000	0.000	0.000	2.000
50	50	1	0.2000	0.000	0.000	0.000	2.000
51	51	1	0.2000	0.000	0.000	0.000	2.000
52	52	1	0.2000	0.000	0.000	0.000	2.000
53	53	1	0.2000	0.000	0.000	0.000	2.000
54	54	1	0.2000	0.000	0.000	0.000	2.000
55	55	1	0.2000	0.000	0.000	0.000	2.000
56	56	1	0.2000	0.000	0.000	0.000	2.000
57	57	1	0.2000	0.000	0.000	0.000	2.000
58	58	1	0.2000	0.000	0.000	0.000	2.000
59	59	1	0.2000	0.000	0.000	0.000	2.000
60	60	1	0.2000	0.000	0.000	0.000	2.000
61	61	1	0.2000	0.000	0.000	0.000	2.000
62	62	1	0.2000	0.000	0.000	0.000	2.000
63	63	1	0.2000	0.000	0.000	0.000	2.000
64	64	1	0.2000	0.000	0.000	0.000	2.000
65	65	2	0.2000	0.000	0.000	0.000	2.000
66	66	2	0.2000	0.000	0.000	0.000	2.000
67	67	2	0.2000	0.000	0.000	0.000	2.000
68	68	2	0.2000	0.000	0.000	0.000	2.000
69	69	2	0.2000	0.000	0.000	0.000	2.000
70	70	2	0.2000	0.000	0.000	0.000	2.000
71	71	2	0.2000	0.000	0.000	0.000	2.000
72	72	2	0.2000	0.000	0.000	0.000	2.000
73	73	2	0.2000	0.000	0.000	0.000	2.000
74	74	2	0.2000	0.000	0.000	0.000	2.000
75	75	2	0.2000	0.000	0.000	0.000	2.000
76	76	2	0.2000	0.000	0.000	0.000	2.000
77	77	2	0.2000	0.000	0.000	0.000	2.000
78	78	2	0.2000	0.000	0.000	0.000	2.000
79	79	2	0.2000	0.000	0.000	0.000	2.000
80	80	2	0.2000	0.000	0.000	0.000	2.000
81	81	2	0.2000	0.000	0.000	0.000	2.000
82	82	2	0.2000	0.000	0.000	0.000	2.000
83	83	2	0.2000	0.000	0.000	0.000	2.000
84	84	2	0.2000	0.000	0.000	0.000	2.000
85	85	2	0.2000	0.000	0.000	0.000	2.000
86	86	2	0.2000	0.000	0.000	0.000	2.000
87	87	2	0.2000	0.000	0.000	0.000	2.000
88	88	2	0.2000	0.000	0.000	0.000	2.000
89	89	2	0.2000	0.000	0.000	0.000	2.000
90	90	2	0.2000	0.000	0.000	0.000	2.000
91	91	2	0.1000	0.000	0.000	0.000	2.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
249 di 1221

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                     |
|          NewProject.BaseDesignSection_28.A2M2R1_3514          |
|          Exe Time :29 July 2019          17:58:40          |
+-----+

```

ELEMENT GROUP NO. 3

```

WallElement_33          :
  2 90 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
- 4 active
- 5 active
- 6 active

material set no. 1

```

prop( 1) young modulus      0.314800E+08
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future .....0.280300E-43

```

```

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

```

- 1 1.000
- 2 1.000
- 3 1.000
- 4 1.000
- 5 1.000
- 6 1.000

element data

el	na	nb	mat	erc1	erc2	thick	by-i	by-j
1	1	2	1	0.000	0.000	0.6848	0.000	0.000
2	2	3	1	0.000	0.000	0.6848	0.000	0.000
3	3	4	1	0.000	0.000	0.6848	0.000	0.000
4	4	5	1	0.000	0.000	0.6848	0.000	0.000
5	5	6	1	0.000	0.000	0.6848	0.000	0.000
6	6	7	1	0.000	0.000	0.6848	0.000	0.000
7	7	8	1	0.000	0.000	0.6848	0.000	0.000
8	8	9	1	0.000	0.000	0.6848	0.000	0.000
9	9	10	1	0.000	0.000	0.6848	0.000	0.000
10	10	11	1	0.000	0.000	0.6848	0.000	0.000
11	11	12	1	0.000	0.000	0.6848	0.000	0.000
12	12	13	1	0.000	0.000	0.6848	0.000	0.000
13	13	14	1	0.000	0.000	0.6848	0.000	0.000
14	14	15	1	0.000	0.000	0.6848	0.000	0.000
15	15	16	1	0.000	0.000	0.6848	0.000	0.000
16	16	17	1	0.000	0.000	0.6848	0.000	0.000
17	17	18	1	0.000	0.000	0.6848	0.000	0.000
18	18	19	1	0.000	0.000	0.6848	0.000	0.000
19	19	20	1	0.000	0.000	0.6848	0.000	0.000
20	20	21	1	0.000	0.000	0.6848	0.000	0.000
21	21	22	1	0.000	0.000	0.6848	0.000	0.000
22	22	23	1	0.000	0.000	0.6848	0.000	0.000
23	23	24	1	0.000	0.000	0.6848	0.000	0.000
24	24	25	1	0.000	0.000	0.6848	0.000	0.000
25	25	26	1	0.000	0.000	0.6848	0.000	0.000
26	26	27	1	0.000	0.000	0.6848	0.000	0.000
27	27	28	1	0.000	0.000	0.6848	0.000	0.000
28	28	29	1	0.000	0.000	0.6848	0.000	0.000
29	29	30	1	0.000	0.000	0.6848	0.000	0.000
30	30	31	1	0.000	0.000	0.6848	0.000	0.000
31	31	32	1	0.000	0.000	0.6848	0.000	0.000
32	32	33	1	0.000	0.000	0.6848	0.000	0.000
33	33	34	1	0.000	0.000	0.6848	0.000	0.000
34	34	35	1	0.000	0.000	0.6848	0.000	0.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.									Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 250 di 1221
35	35	36	1	0.000	0.000	0.6848	0.000	0.000					
36	36	37	1	0.000	0.000	0.6848	0.000	0.000					
37	37	38	1	0.000	0.000	0.6848	0.000	0.000					
38	38	39	1	0.000	0.000	0.6848	0.000	0.000					
39	39	40	1	0.000	0.000	0.6848	0.000	0.000					
40	40	41	1	0.000	0.000	0.6848	0.000	0.000					
41	41	42	1	0.000	0.000	0.6848	0.000	0.000					
42	42	43	1	0.000	0.000	0.6848	0.000	0.000					
43	43	44	1	0.000	0.000	0.6848	0.000	0.000					
44	44	45	1	0.000	0.000	0.6848	0.000	0.000					
45	45	46	1	0.000	0.000	0.6848	0.000	0.000					
46	46	47	1	0.000	0.000	0.6848	0.000	0.000					
47	47	48	1	0.000	0.000	0.6848	0.000	0.000					
48	48	49	1	0.000	0.000	0.6848	0.000	0.000					
49	49	50	1	0.000	0.000	0.6848	0.000	0.000					
50	50	51	1	0.000	0.000	0.6848	0.000	0.000					
51	51	52	1	0.000	0.000	0.6848	0.000	0.000					
52	52	53	1	0.000	0.000	0.6848	0.000	0.000					
53	53	54	1	0.000	0.000	0.6848	0.000	0.000					
54	54	55	1	0.000	0.000	0.6848	0.000	0.000					
55	55	56	1	0.000	0.000	0.6848	0.000	0.000					
56	56	57	1	0.000	0.000	0.6848	0.000	0.000					
57	57	58	1	0.000	0.000	0.6848	0.000	0.000					
58	58	59	1	0.000	0.000	0.6848	0.000	0.000					
59	59	60	1	0.000	0.000	0.6848	0.000	0.000					
60	60	61	1	0.000	0.000	0.6848	0.000	0.000					
61	61	62	1	0.000	0.000	0.6848	0.000	0.000					
62	62	63	1	0.000	0.000	0.6848	0.000	0.000					
63	63	64	1	0.000	0.000	0.6848	0.000	0.000					
64	64	65	1	0.000	0.000	0.6848	0.000	0.000					
65	65	66	1	0.000	0.000	0.6848	0.000	0.000					
66	66	67	1	0.000	0.000	0.6848	0.000	0.000					
67	67	68	1	0.000	0.000	0.6848	0.000	0.000					
68	68	69	1	0.000	0.000	0.6848	0.000	0.000					
69	69	70	1	0.000	0.000	0.6848	0.000	0.000					
70	70	71	1	0.000	0.000	0.6848	0.000	0.000					
71	71	72	1	0.000	0.000	0.6848	0.000	0.000					
72	72	73	1	0.000	0.000	0.6848	0.000	0.000					
73	73	74	1	0.000	0.000	0.6848	0.000	0.000					
74	74	75	1	0.000	0.000	0.6848	0.000	0.000					
75	75	76	1	0.000	0.000	0.6848	0.000	0.000					
76	76	77	1	0.000	0.000	0.6848	0.000	0.000					
77	77	78	1	0.000	0.000	0.6848	0.000	0.000					
78	78	79	1	0.000	0.000	0.6848	0.000	0.000					
79	79	80	1	0.000	0.000	0.6848	0.000	0.000					
80	80	81	1	0.000	0.000	0.6848	0.000	0.000					
81	81	82	1	0.000	0.000	0.6848	0.000	0.000					
82	82	83	1	0.000	0.000	0.6848	0.000	0.000					
83	83	84	1	0.000	0.000	0.6848	0.000	0.000					
84	84	85	1	0.000	0.000	0.6848	0.000	0.000					
85	85	86	1	0.000	0.000	0.6848	0.000	0.000					
86	86	87	1	0.000	0.000	0.6848	0.000	0.000					
87	87	88	1	0.000	0.000	0.6848	0.000	0.000					
88	88	89	1	0.000	0.000	0.6848	0.000	0.000					
89	89	90	1	0.000	0.000	0.6848	0.000	0.000					
90	90	91	1	0.000	0.000	0.6848	0.000	0.000					

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
251 di 1221

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514 |
|          Exe Time :29 July 2019      17:58:40      |
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```

ELEMENT GROUP NO.  4

Tirante1_429      :
 6  1  0  1  0  0  0  0  0  0  0  0  0  0  0  1  0  0  2  0
.....
.....2D POST-TENSION ANCHOR.....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
 1  inactive
 2  inactive
 3  active
 4  active
 5  active
 6  active

```

```

material set no.  1

prop( 1) angle      15.0000
prop( 2) young modulus 0.200100E+09
prop( 3) modification time 0.00000
prop( 4) new young modulus 0.00000

```

```

no. of step variable items:  2
step  -ve lim  +ve lim
-----
 1  0.000  0.000
 2  0.000  0.000
 3  0.000  0.000
 4  0.000  0.000
 5  0.000  0.000
 6  0.000  0.000

```

```

element data

el  n  mat      a/l    pinit    yieldc    yieldt
-----
 1  16  1  0.1316E-04  93.94    0.000    0.000

```

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514 |
|          Exe Time :29 July 2019      17:58:40      |
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```

```

ELEMENT GROUP NO.  5

Tirante2_1507      :
 6  1  0  1  0  0  0  0  0  0  0  0  0  0  0  1  0  0  2  0
.....
.....2D POST-TENSION ANCHOR.....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
 1  inactive
 2  inactive
 3  inactive
 4  inactive
 5  active
 6  active

```

```

material set no.  1

prop( 1) angle      15.0000
prop( 2) young modulus 0.200100E+09
prop( 3) modification time 0.00000

```

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
252 di 1221

prop(4) new young modulus 0.00000

no. of step variable items: 2
step -ve lim +ve lim

step	-ve lim	+ve lim
1	0.000	0.000
2	0.000	0.000
3	0.000	0.000
4	0.000	0.000
5	0.000	0.000
6	0.000	0.000

element data

el	n	mat	a/l	pinit	yieldc	yieldt
1	42	1	0.2106E-04	166.7	0.000	0.000

```

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|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  17:58:40  |
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```

NO. OF NODAL LOADS (NLOAD) 0
 NO. OF LOAD CURVES (NL CUR) 12
 MAXIMUM POINTS/LCURVE (NPTM)..... 5

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  17:58:40  |
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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
7.00000	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
7.00000	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
7.00000	0.0000E+00

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
253 di 1221

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
4.20000	0.0000E+00
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
5.20000	0.0000E+00
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
6.20000	0.0000E+00
7.00000	0.0000E+00

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
7.00000	0.1000E+01

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
254 di 1221

LOAD FUNCTION NUMBER = 11
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
7.00000	0.1000E+01

LOAD FUNCTION NUMBER = 12
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
7.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019    17:58:40                             |
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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
STEP	4	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	4	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	6	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	6	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
255 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514 |
|          Exe Time :29 July 2019      17:58:40      |
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NO. OF LAYERS 2
 NO. OF DATA PER LAYER..... 100

```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514 |
|          Exe Time :29 July 2019      17:58:40      |
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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    >= 16.000    (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL  >= 0.0000   (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. 9<U-FRICT >= 23.910   WALL NO.    1
ITEM NO. 9<U-FRICT >= 29.000   WALL NO.    2
ITEM NO. 10<U-KA  >= 0.37500   WALL NO.    1
ITEM NO. 11<U-KP  >= 3.0380    WALL NO.    1
ITEM NO. 12<K0-NC >= 0.53000   (BOTH WALLS)
ITEM NO. 13<NEXP  >= 1.0000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 20000.    (BOTH WALLS)
ITEM NO. 18<EUR   >= 60000.    (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 23.910   WALL NO.    1
ITEM NO. 59<D-FRICT >= 29.000   WALL NO.    2
ITEM NO. 60<D-KA  >= 0.37500   WALL NO.    1
ITEM NO. 61<D-KP  >= 3.0380    WALL NO.    1
ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

```

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

```

ITEM NO. 1<NAME    >= 17.000    (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL  >= -12.600   (BOTH WALLS)
ITEM NO. 4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000    (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000   (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO. 8<U-COHE >= 16.000    WALL NO.    1
ITEM NO. 8<U-COHE >= 20.000    WALL NO.    2
ITEM NO. 9<U-FRICT >= 29.260   WALL NO.    1
ITEM NO. 9<U-FRICT >= 35.000    WALL NO.    2
ITEM NO. 10<U-KA  >= 0.30000   WALL NO.    1
ITEM NO. 11<U-KP  >= 4.1020    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   >= 50000.    (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.15000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 58<D-COHE >= 16.000    WALL NO.    1
ITEM NO. 58<D-COHE >= 20.000    WALL NO.    2
ITEM NO. 59<D-FRICT >= 29.260   WALL NO.    1
ITEM NO. 59<D-FRICT >= 35.000    WALL NO.    2
ITEM NO. 60<D-KA  >= 0.30000   WALL NO.    1
ITEM NO. 61<D-KP  >= 4.1020    WALL NO.    1

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 256 di 1221
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ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.37500 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.0380 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.37500 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.0380 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.600 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 16.000 WALL NO. 1
 ITEM NO. 8<U-COHE >= 20.000 WALL NO. 2
 ITEM NO. 9<U-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.30000 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.1020 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 16.000 WALL NO. 1
 ITEM NO. 58<D-COHE >= 20.000 WALL NO. 2
 ITEM NO. 59<D-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.30000 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.1020 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.37500 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.0380 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 257 di 1221
---------	------------------	-------------	---	-----------	-----------------------

ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.37500 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.0380 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.600 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 16.000 WALL NO. 1
 ITEM NO. 8<U-COHE >= 20.000 WALL NO. 2
 ITEM NO. 9<U-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.30000 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.1020 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 16.000 WALL NO. 1
 ITEM NO. 58<D-COHE >= 20.000 WALL NO. 2
 ITEM NO. 59<D-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.30000 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.1020 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.37500 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.0380 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.37500 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.0380 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.600 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 16.000 WALL NO. 1
 ITEM NO. 8<U-COHE >= 20.000 WALL NO. 2

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 258 di 1221
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ITEM NO.	9<U-FRICT >=	29.260	WALL NO.	1
ITEM NO.	9<U-FRICT >=	35.000	WALL NO.	2
ITEM NO.	10<U-KA >=	0.30000	WALL NO.	1
ITEM NO.	11<U-KP >=	4.1020	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 >=	50000.	(BOTH WALLS)	
ITEM NO.	18<EUR >=	0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM >=	0.10000E-03	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>=	1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL >=	0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE >=	16.000	WALL NO.	1
ITEM NO.	58<D-COHE >=	20.000	WALL NO.	2
ITEM NO.	59<D-FRICT >=	29.260	WALL NO.	1
ITEM NO.	59<D-FRICT >=	35.000	WALL NO.	2
ITEM NO.	60<D-KA >=	0.30000	WALL NO.	1
ITEM NO.	61<D-KP >=	4.1020	WALL NO.	1
ITEM NO.	77<D-PERM >=	0.10000E-03	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 5

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 5

ITEM NO.	1<NAME >=	16.000	(BOTH WALLS)	
ITEM NO.	2<NATURE >=	1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL >=	0.0000	(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.	9<U-FRICT >=	23.910	WALL NO.	1
ITEM NO.	9<U-FRICT >=	29.000	WALL NO.	2
ITEM NO.	10<U-KA >=	0.37500	WALL NO.	1
ITEM NO.	11<U-KP >=	3.0380	WALL NO.	1
ITEM NO.	12<K0-NC >=	0.53000	(BOTH WALLS)	
ITEM NO.	13<NEXP >=	1.0000	(BOTH WALLS)	
ITEM NO.	14<OCR >=	1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL >=	1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC >=	20000.	(BOTH WALLS)	
ITEM NO.	18<EUR >=	60000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM >=	0.10000E-05	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>=	1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL >=	0.0000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT >=	23.910	WALL NO.	1
ITEM NO.	59<D-FRICT >=	29.000	WALL NO.	2
ITEM NO.	60<D-KA >=	0.37500	WALL NO.	1
ITEM NO.	61<D-KP >=	3.0380	WALL NO.	1
ITEM NO.	77<D-PERM >=	0.10000E-05	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 5

ITEM NO.	1<NAME >=	17.000	(BOTH WALLS)	
ITEM NO.	2<NATURE >=	1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL >=	-12.600	(BOTH WALLS)	
ITEM NO.	4<WALL >=	1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD >=	20.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB >=	10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW >=	10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE >=	16.000	WALL NO.	1
ITEM NO.	8<U-COHE >=	20.000	WALL NO.	2
ITEM NO.	9<U-FRICT >=	29.260	WALL NO.	1
ITEM NO.	9<U-FRICT >=	35.000	WALL NO.	2
ITEM NO.	10<U-KA >=	0.30000	WALL NO.	1
ITEM NO.	11<U-KP >=	4.1020	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 >=	50000.	(BOTH WALLS)	
ITEM NO.	18<EUR >=	0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM >=	0.10000E-03	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>=	1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL >=	0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE >=	16.000	WALL NO.	1
ITEM NO.	58<D-COHE >=	20.000	WALL NO.	2
ITEM NO.	59<D-FRICT >=	29.260	WALL NO.	1
ITEM NO.	59<D-FRICT >=	35.000	WALL NO.	2
ITEM NO.	60<D-KA >=	0.30000	WALL NO.	1
ITEM NO.	61<D-KP >=	4.1020	WALL NO.	1
ITEM NO.	77<D-PERM >=	0.10000E-03	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 6

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AFoglio
259 di 1221

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 6

ITEM NO. 1<NAME >= 16.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.37500 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.0380 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.37500 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.0380 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 6

ITEM NO. 1<NAME >= 17.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -12.600 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 16.000 WALL NO. 1
 ITEM NO. 8<U-COHE >= 20.000 WALL NO. 2
 ITEM NO. 9<U-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.30000 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.1020 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 16.000 WALL NO. 1
 ITEM NO. 58<D-COHE >= 20.000 WALL NO. 2
 ITEM NO. 59<D-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.30000 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.1020 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 12 VALUES

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12

Codifica Documento
E E2 CL GA 2701 002

Rev.
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Foglio
260 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  17:58:40  |
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PHASE DESCRIPTORS

STEP NO.	1	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-3.500	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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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Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
261 di 1221

=====end of step 2

STEP NO.	3	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-3.500	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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

STEP NO.	4	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-8.700	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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 4

STEP NO.	5	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-8.700	0.000

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 262 di 1221
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Z-WATER_TABLE                -26.00    -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL    10.00     0.000
ZQ                             0.000     0.000
DZW_OF_THE_WATER_TABLE       0.000     0.000
QS_ON_THE_EXCAVATION_SIDE    0.000     0.000
ZQS                            -9.000    -0.9990E+30
ZCUT                          0.000     0.000
BALANCE LEVEL FOR PORE PRESSURES  -18.00    -18.00
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 5

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STEP NO.      6

LEFT WALL    RIGHT WALL
Y            0.000    -0.9990E+30
Z-PC        0.000     0.000
Z-EXCAVATION -12.60     0.000
Z-WATER_TABLE -26.00    -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL    0.000     0.000
ZQ           0.000     0.000
DZW_OF_THE_WATER_TABLE       0.000     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  -18.00    -18.00
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 6

LEFT-HAND WALL

```

LOWER LEVEL    -18.00000
UPPER LEVEL     0.00000
    
```

RIGHT-HAND WALL

```

LOWER LEVEL    -18.00000
UPPER LEVEL     0.00000
    
```

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
263 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      17:58:40          |
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INITIAL STRESS TABLES

SECTION

NUMBER OF DEFINED TABLES 2

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

ACTIVATION TIME 2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 6.0000

TYPE BOUSSINESQ

```

HORIZONTAL DISTANCE (DY) 0.000000000000000E+000
FOUNDATION WIDTH (B) 40.000000000000000
ZETA-F..... 0.000000000000000E+000
Q-F ..... 15.200000000000000
BETA ..... 45.000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

```

INPUT DATA FOR INITIAL STRESS SET NO. 2
PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

ACTIVATION TIME 2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 6.0000

TYPE BOUSSINESQ

```

HORIZONTAL DISTANCE (DY) 0.000000000000000E+000
FOUNDATION WIDTH (B) 40.000000000000000
ZETA-F..... 0.000000000000000E+000
Q-F ..... 13.000000000000000
BETA ..... 30.000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

```

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION 4412

NO. OF D.P.W FOR THIS AREA 10847
MAX NO. OF D.P.W. AVAILABLE 81920
** MAX NO OF ITERATIONS SET TO 100

```

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7339E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 34.34 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7339E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 182 NODE 91 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

```

```

ITER 1 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7339E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 34.34 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7339E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 182 NODE 91 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

```

```

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7339E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 34.34 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7339E+05 RDR = 0.000

```


GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 265 di 1221							
16 D	6.042	0.000	57.00	30.21	57.00	30.21	V-C	1.2810E+04	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Stratol_2_8_L_0									
17 D	6.445	0.000	60.80	32.22	60.80	32.22	V-C	1.2810E+04	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Stratol_2_8_L_0									
18 D	6.848	0.000	64.60	34.24	64.60	34.24	V-C	1.2810E+04	-3.400	0.000	1.000	1.000
34.24	0.000	0.000	Stratol_2_8_L_0									
19 D	7.250	0.000	68.40	36.25	68.40	36.25	V-C	1.2810E+04	-3.600	0.000	1.000	1.000
36.25	0.000	0.000	Stratol_2_8_L_0									
20 D	7.653	0.000	72.20	38.27	72.20	38.27	V-C	1.2810E+04	-3.800	0.000	1.000	1.000
38.27	0.000	0.000	Stratol_2_8_L_0									
21 D	8.056	0.000	76.00	40.28	76.00	40.28	V-C	1.2810E+04	-4.000	0.000	1.000	1.000
40.28	0.000	0.000	Stratol_2_8_L_0									
22 D	8.459	0.000	79.80	42.29	79.80	42.29	V-C	1.2810E+04	-4.200	0.000	1.000	1.000
42.29	0.000	0.000	Stratol_2_8_L_0									
23 D	8.862	0.000	83.60	44.31	83.60	44.31	V-C	1.2810E+04	-4.400	0.000	1.000	1.000
44.31	0.000	0.000	Stratol_2_8_L_0									
24 D	9.264	0.000	87.40	46.32	87.40	46.32	V-C	1.2810E+04	-4.600	0.000	1.000	1.000
46.32	0.000	0.000	Stratol_2_8_L_0									
25 D	9.667	0.000	91.20	48.34	91.20	48.34	V-C	1.2810E+04	-4.800	0.000	1.000	1.000
48.34	0.000	0.000	Stratol_2_8_L_0									
26 D	10.07	0.000	95.00	50.35	95.00	50.35	V-C	1.2810E+04	-5.000	0.000	1.000	1.000
50.35	0.000	0.000	Stratol_2_8_L_0									
27 D	10.47	0.000	98.80	52.36	98.80	52.36	V-C	1.2810E+04	-5.200	0.000	1.000	1.000
52.36	0.000	0.000	Stratol_2_8_L_0									
28 D	10.88	0.000	102.6	54.38	102.6	54.38	V-C	1.2810E+04	-5.400	0.000	1.000	1.000
54.38	0.000	0.000	Stratol_2_8_L_0									
29 D	11.28	0.000	106.4	56.39	106.4	56.39	V-C	1.2810E+04	-5.600	0.000	1.000	1.000
56.39	0.000	0.000	Stratol_2_8_L_0									
30 D	11.68	0.000	110.2	58.41	110.2	58.41	V-C	1.2810E+04	-5.800	0.000	1.000	1.000
58.41	0.000	0.000	Stratol_2_8_L_0									
31 D	12.08	0.000	114.0	60.42	114.0	60.42	V-C	1.2810E+04	-6.000	0.000	1.000	1.000
60.42	0.000	0.000	Stratol_2_8_L_0									
32 D	12.49	0.000	117.8	62.43	117.8	62.43	V-C	1.2810E+04	-6.200	0.000	1.000	1.000
62.43	0.000	0.000	Stratol_2_8_L_0									
33 D	12.89	0.000	121.6	64.45	121.6	64.45	V-C	1.2810E+04	-6.400	0.000	1.000	1.000
64.45	0.000	0.000	Stratol_2_8_L_0									
34 D	13.29	0.000	125.4	66.46	125.4	66.46	V-C	1.2810E+04	-6.600	0.000	1.000	1.000
66.46	0.000	0.000	Stratol_2_8_L_0									
35 D	13.70	0.000	129.2	68.48	129.2	68.48	V-C	1.2810E+04	-6.800	0.000	1.000	1.000
68.48	0.000	0.000	Stratol_2_8_L_0									
36 D	14.10	0.000	133.0	70.49	133.0	70.49	V-C	1.2810E+04	-7.000	0.000	1.000	1.000
70.49	0.000	0.000	Stratol_2_8_L_0									
37 D	14.50	0.000	136.8	72.50	136.8	72.50	V-C	1.2810E+04	-7.200	0.000	1.000	1.000
72.50	0.000	0.000	Stratol_2_8_L_0									
38 D	14.90	0.000	140.6	74.52	140.6	74.52	V-C	1.2810E+04	-7.400	0.000	1.000	1.000
74.52	0.000	0.000	Stratol_2_8_L_0									
39 D	15.31	0.000	144.4	76.53	144.4	76.53	V-C	1.2810E+04	-7.600	0.000	1.000	1.000
76.53	0.000	0.000	Stratol_2_8_L_0									
40 D	15.71	0.000	148.2	78.55	148.2	78.55	V-C	1.2810E+04	-7.800	0.000	1.000	1.000
78.55	0.000	0.000	Stratol_2_8_L_0									
41 D	16.11	0.000	152.0	80.56	152.0	80.56	V-C	1.2810E+04	-8.000	0.000	1.000	1.000
80.56	0.000	0.000	Stratol_2_8_L_0									
42 D	16.51	0.000	155.8	82.57	155.8	82.57	V-C	1.2810E+04	-8.200	0.000	1.000	1.000
82.57	0.000	0.000	Stratol_2_8_L_0									
43 D	16.92	0.000	159.6	84.59	159.6	84.59	V-C	1.2810E+04	-8.400	0.000	1.000	1.000
84.59	0.000	0.000	Stratol_2_8_L_0									
44 D	17.32	0.000	163.4	86.60	163.4	86.60	V-C	1.2810E+04	-8.600	0.000	1.000	1.000
86.60	0.000	0.000	Stratol_2_8_L_0									
45 D	17.72	0.000	167.2	88.62	167.2	88.62	V-C	1.2810E+04	-8.800	0.000	1.000	1.000
88.62	0.000	0.000	Stratol_2_8_L_0									
46 D	18.13	0.000	171.0	90.63	171.0	90.63	V-C	1.2810E+04	-9.000	0.000	1.000	1.000
90.63	0.000	0.000	Stratol_2_8_L_0									
47 D	18.53	0.000	174.8	92.64	174.8	92.64	V-C	1.2810E+04	-9.200	0.000	1.000	1.000
92.64	0.000	0.000	Stratol_2_8_L_0									
48 D	18.93	0.000	178.6	94.66	178.6	94.66	V-C	1.2810E+04	-9.400	0.000	1.000	1.000
94.66	0.000	0.000	Stratol_2_8_L_0									
49 D	19.33	0.000	182.4	96.67	182.4	96.67	V-C	1.2810E+04	-9.600	0.000	1.000	1.000
96.67	0.000	0.000	Stratol_2_8_L_0									
50 D	19.74	0.000	186.2	98.69	186.2	98.69	V-C	1.2810E+04	-9.800	0.000	1.000	1.000
98.69	0.000	0.000	Stratol_2_8_L_0									
51 D	20.14	0.000	190.0	100.7	190.0	100.7	V-C	1.2810E+04	-10.000	0.000	1.000	1.000
100.7	0.000	0.000	Stratol_2_8_L_0									
52 D	20.54	0.000	193.8	102.7	193.8	102.7	V-C	1.2810E+04	-10.200	0.000	1.000	1.000
102.7	0.000	0.000	Stratol_2_8_L_0									
53 D	20.95	0.000	197.6	104.7	197.6	104.7	V-C	1.2810E+04	-10.400	0.000	1.000	1.000
104.7	0.000	0.000	Stratol_2_8_L_0									
54 D	21.35	0.000	201.4	106.7	201.4	106.7	V-C	1.2810E+04	-10.600	0.000	1.000	1.000
106.7	0.000	0.000	Stratol_2_8_L_0									
55 D	21.75	0.000	205.2	108.8	205.2	108.8	V-C	1.2810E+04	-10.800	0.000	1.000	1.000
108.8	0.000	0.000	Stratol_2_8_L_0									
56 D	22.15	0.000	209.0	110.8	209.0	110.8	V-C	1.2810E+04	-11.000	0.000	1.000	1.000
110.8	0.000	0.000	Stratol_2_8_L_0									
57 D	22.56	0.000	212.8	112.8	212.8	112.8	V-C	1.2810E+04	-11.200	0.000	1.000	1.000
112.8	0.000	0.000	Stratol_2_8_L_0									
58 D	22.96	0.000	216.6	114.8	216.6	114.8	V-C	1.2810E+04	-11.400	0.000	1.000	1.000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 266 di 1221
114.8	0.000	0.000	Strato1_2_8_L_0		
59 D	23.36	0.000	220.4 116.8	220.4	116.8
116.8	0.000	0.000	Strato1_2_8_L_0		
60 D	23.77	0.000	224.2 118.8	224.2	118.8
118.8	0.000	0.000	Strato1_2_8_L_0		
61 D	24.17	0.000	228.0 120.8	228.0	120.8
120.8	0.000	0.000	Strato1_2_8_L_0		
62 D	24.57	0.000	231.8 122.9	231.8	122.9
122.9	0.000	0.000	Strato1_2_8_L_0		
63 D	24.97	0.000	235.6 124.9	235.6	124.9
124.9	0.000	0.000	Strato1_2_8_L_0		
64 D	23.94	0.000	239.4 119.7	239.4	119.7
119.7	0.000	0.000	Strato2_3095_82743_L_0		
65 D	24.34	0.000	243.4 121.7	243.4	121.7
121.7	0.000	0.000	Strato2_3095_82743_L_0		
66 D	24.74	0.000	247.4 123.7	247.4	123.7
123.7	0.000	0.000	Strato2_3095_82743_L_0		
67 D	25.14	0.000	251.4 125.7	251.4	125.7
125.7	0.000	0.000	Strato2_3095_82743_L_0		
68 D	25.54	0.000	255.4 127.7	255.4	127.7
127.7	0.000	0.000	Strato2_3095_82743_L_0		
69 D	25.94	0.000	259.4 129.7	259.4	129.7
129.7	0.000	0.000	Strato2_3095_82743_L_0		
70 D	26.34	0.000	263.4 131.7	263.4	131.7
131.7	0.000	0.000	Strato2_3095_82743_L_0		
71 D	26.74	0.000	267.4 133.7	267.4	133.7
133.7	0.000	0.000	Strato2_3095_82743_L_0		
72 D	27.14	0.000	271.4 135.7	271.4	135.7
135.7	0.000	0.000	Strato2_3095_82743_L_0		
73 D	27.54	0.000	275.4 137.7	275.4	137.7
137.7	0.000	0.000	Strato2_3095_82743_L_0		
74 D	27.94	0.000	279.4 139.7	279.4	139.7
139.7	0.000	0.000	Strato2_3095_82743_L_0		
75 D	28.34	0.000	283.4 141.7	283.4	141.7
141.7	0.000	0.000	Strato2_3095_82743_L_0		
76 D	28.74	0.000	287.4 143.7	287.4	143.7
143.7	0.000	0.000	Strato2_3095_82743_L_0		
77 D	29.14	0.000	291.4 145.7	291.4	145.7
145.7	0.000	0.000	Strato2_3095_82743_L_0		
78 D	29.54	0.000	295.4 147.7	295.4	147.7
147.7	0.000	0.000	Strato2_3095_82743_L_0		
79 D	29.94	0.000	299.4 149.7	299.4	149.7
149.7	0.000	0.000	Strato2_3095_82743_L_0		
80 D	30.34	0.000	303.4 151.7	303.4	151.7
151.7	0.000	0.000	Strato2_3095_82743_L_0		
81 D	30.74	0.000	307.4 153.7	307.4	153.7
153.7	0.000	0.000	Strato2_3095_82743_L_0		
82 D	31.14	0.000	311.4 155.7	311.4	155.7
155.7	0.000	0.000	Strato2_3095_82743_L_0		
83 D	31.54	0.000	315.4 157.7	315.4	157.7
157.7	0.000	0.000	Strato2_3095_82743_L_0		
84 D	31.94	0.000	319.4 159.7	319.4	159.7
159.7	0.000	0.000	Strato2_3095_82743_L_0		
85 D	32.34	0.000	323.4 161.7	323.4	161.7
161.7	0.000	0.000	Strato2_3095_82743_L_0		
86 D	32.74	0.000	327.4 163.7	327.4	163.7
163.7	0.000	0.000	Strato2_3095_82743_L_0		
87 D	33.14	0.000	331.4 165.7	331.4	165.7
165.7	0.000	0.000	Strato2_3095_82743_L_0		
88 D	33.54	0.000	335.4 167.7	335.4	167.7
167.7	0.000	0.000	Strato2_3095_82743_L_0		
89 D	33.94	0.000	339.4 169.7	339.4	169.7
169.7	0.000	0.000	Strato2_3095_82743_L_0		
90 D	34.34	0.000	343.4 171.7	343.4	171.7
171.7	0.000	0.000	Strato2_3095_82743_L_0		
91 D	17.37	0.000	347.4 173.7	347.4	173.7
173.7	0.000	0.000	Strato2_3095_82743_L_0		



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
267 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A2M2R1_3514                                                                                   |
|          Exe Time :29 July 2019          17:58:40                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	1.0842E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Stratol_2_8_L_0									
2 D	0.4028	0.000	3.800	2.014	3.800	2.014	V-C	1.0842E+04	-0.2000	0.000	1.000	1.000
2.014	0.000	0.000	Stratol_2_8_L_0									
3 D	0.8056	0.000	7.600	4.028	7.600	4.028	V-C	1.0842E+04	-0.4000	0.000	1.000	1.000
4.028	0.000	0.000	Stratol_2_8_L_0									
4 D	1.208	0.000	11.40	6.042	11.40	6.042	V-C	1.0842E+04	-0.6000	0.000	1.000	1.000
6.042	0.000	0.000	Stratol_2_8_L_0									
5 D	1.611	0.000	15.20	8.056	15.20	8.056	V-C	1.0842E+04	-0.8000	0.000	1.000	1.000
8.056	0.000	0.000	Stratol_2_8_L_0									
6 D	2.014	0.000	19.00	10.07	19.00	10.07	V-C	1.0842E+04	-1.000	0.000	1.000	1.000
10.07	0.000	0.000	Stratol_2_8_L_0									
7 D	2.417	0.000	22.80	12.08	22.80	12.08	V-C	1.0842E+04	-1.200	0.000	1.000	1.000
12.08	0.000	0.000	Stratol_2_8_L_0									
8 D	2.820	0.000	26.60	14.10	26.60	14.10	V-C	1.0842E+04	-1.400	0.000	1.000	1.000
14.10	0.000	0.000	Stratol_2_8_L_0									
9 D	3.222	0.000	30.40	16.11	30.40	16.11	V-C	1.0842E+04	-1.600	0.000	1.000	1.000
16.11	0.000	0.000	Stratol_2_8_L_0									
10 D	3.625	0.000	34.20	18.13	34.20	18.13	V-C	1.0842E+04	-1.800	0.000	1.000	1.000
18.13	0.000	0.000	Stratol_2_8_L_0									
11 D	4.028	0.000	38.00	20.14	38.00	20.14	V-C	1.0842E+04	-2.000	0.000	1.000	1.000
20.14	0.000	0.000	Stratol_2_8_L_0									
12 D	4.431	0.000	41.80	22.15	41.80	22.15	V-C	1.0842E+04	-2.200	0.000	1.000	1.000
22.15	0.000	0.000	Stratol_2_8_L_0									
13 D	4.834	0.000	45.60	24.17	45.60	24.17	V-C	1.0842E+04	-2.400	0.000	1.000	1.000
24.17	0.000	0.000	Stratol_2_8_L_0									
14 D	5.236	0.000	49.40	26.18	49.40	26.18	V-C	1.0842E+04	-2.600	0.000	1.000	1.000
26.18	0.000	0.000	Stratol_2_8_L_0									
15 D	5.639	0.000	53.20	28.20	53.20	28.20	V-C	1.0842E+04	-2.800	0.000	1.000	1.000
28.20	0.000	0.000	Stratol_2_8_L_0									
16 D	6.042	0.000	57.00	30.21	57.00	30.21	V-C	1.0842E+04	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Stratol_2_8_L_0									
17 D	6.445	0.000	60.80	32.22	60.80	32.22	V-C	1.0842E+04	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Stratol_2_8_L_0									
18 D	6.848	0.000	64.60	34.24	64.60	34.24	V-C	1.0842E+04	-3.400	0.000	1.000	1.000
34.24	0.000	0.000	Stratol_2_8_L_0									
19 D	7.250	0.000	68.40	36.25	68.40	36.25	V-C	1.0842E+04	-3.600	0.000	1.000	1.000
36.25	0.000	0.000	Stratol_2_8_L_0									
20 D	7.653	0.000	72.20	38.27	72.20	38.27	V-C	1.0842E+04	-3.800	0.000	1.000	1.000
38.27	0.000	0.000	Stratol_2_8_L_0									
21 D	8.056	0.000	76.00	40.28	76.00	40.28	V-C	1.0842E+04	-4.000	0.000	1.000	1.000
40.28	0.000	0.000	Stratol_2_8_L_0									
22 D	8.459	0.000	79.80	42.29	79.80	42.29	V-C	1.0842E+04	-4.200	0.000	1.000	1.000
42.29	0.000	0.000	Stratol_2_8_L_0									
23 D	8.862	0.000	83.60	44.31	83.60	44.31	V-C	1.0842E+04	-4.400	0.000	1.000	1.000
44.31	0.000	0.000	Stratol_2_8_L_0									
24 D	9.264	0.000	87.40	46.32	87.40	46.32	V-C	1.0842E+04	-4.600	0.000	1.000	1.000
46.32	0.000	0.000	Stratol_2_8_L_0									
25 D	9.667	0.000	91.20	48.34	91.20	48.34	V-C	1.0842E+04	-4.800	0.000	1.000	1.000
48.34	0.000	0.000	Stratol_2_8_L_0									
26 D	10.07	0.000	95.00	50.35	95.00	50.35	V-C	1.0842E+04	-5.000	0.000	1.000	1.000
50.35	0.000	0.000	Stratol_2_8_L_0									
27 D	10.47	0.000	98.80	52.36	98.80	52.36	V-C	1.0842E+04	-5.200	0.000	1.000	1.000
52.36	0.000	0.000	Stratol_2_8_L_0									
28 D	10.88	0.000	102.6	54.38	102.6	54.38	V-C	1.0842E+04	-5.400	0.000	1.000	1.000
54.38	0.000	0.000	Stratol_2_8_L_0									
29 D	11.28	0.000	106.4	56.39	106.4	56.39	V-C	1.0842E+04	-5.600	0.000	1.000	1.000
56.39	0.000	0.000	Stratol_2_8_L_0									
30 D	11.68	0.000	110.2	58.41	110.2	58.41	V-C	1.0842E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



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GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 268 di 1221
58.41	0.000	0.000	Strato1_2_8_L_0		
31 D	12.08	0.000	114.0 60.42	114.0	60.42
60.42	0.000	0.000	Strato1_2_8_L_0		
32 D	12.49	0.000	117.8 62.43	117.8	62.43
62.43	0.000	0.000	Strato1_2_8_L_0		
33 D	12.89	0.000	121.6 64.45	121.6	64.45
64.45	0.000	0.000	Strato1_2_8_L_0		
34 D	13.29	0.000	125.4 66.46	125.4	66.46
66.46	0.000	0.000	Strato1_2_8_L_0		
35 D	13.70	0.000	129.2 68.48	129.2	68.48
68.48	0.000	0.000	Strato1_2_8_L_0		
36 D	14.10	0.000	133.0 70.49	133.0	70.49
70.49	0.000	0.000	Strato1_2_8_L_0		
37 D	14.50	0.000	136.8 72.50	136.8	72.50
72.50	0.000	0.000	Strato1_2_8_L_0		
38 D	14.90	0.000	140.6 74.52	140.6	74.52
74.52	0.000	0.000	Strato1_2_8_L_0		
39 D	15.31	0.000	144.4 76.53	144.4	76.53
76.53	0.000	0.000	Strato1_2_8_L_0		
40 D	15.71	0.000	148.2 78.55	148.2	78.55
78.55	0.000	0.000	Strato1_2_8_L_0		
41 D	16.11	0.000	152.0 80.56	152.0	80.56
80.56	0.000	0.000	Strato1_2_8_L_0		
42 D	16.51	0.000	155.8 82.57	155.8	82.57
82.57	0.000	0.000	Strato1_2_8_L_0		
43 D	16.92	0.000	159.6 84.59	159.6	84.59
84.59	0.000	0.000	Strato1_2_8_L_0		
44 D	17.32	0.000	163.4 86.60	163.4	86.60
86.60	0.000	0.000	Strato1_2_8_L_0		
45 D	17.72	0.000	167.2 88.62	167.2	88.62
88.62	0.000	0.000	Strato1_2_8_L_0		
46 D	18.13	0.000	171.0 90.63	171.0	90.63
90.63	0.000	0.000	Strato1_2_8_L_0		
47 D	18.53	0.000	174.8 92.64	174.8	92.64
92.64	0.000	0.000	Strato1_2_8_L_0		
48 D	18.93	0.000	178.6 94.66	178.6	94.66
94.66	0.000	0.000	Strato1_2_8_L_0		
49 D	19.33	0.000	182.4 96.67	182.4	96.67
96.67	0.000	0.000	Strato1_2_8_L_0		
50 D	19.74	0.000	186.2 98.69	186.2	98.69
98.69	0.000	0.000	Strato1_2_8_L_0		
51 D	20.14	0.000	190.0 100.7	190.0	100.7
100.7	0.000	0.000	Strato1_2_8_L_0		
52 D	20.54	0.000	193.8 102.7	193.8	102.7
102.7	0.000	0.000	Strato1_2_8_L_0		
53 D	20.95	0.000	197.6 104.7	197.6	104.7
104.7	0.000	0.000	Strato1_2_8_L_0		
54 D	21.35	0.000	201.4 106.7	201.4	106.7
106.7	0.000	0.000	Strato1_2_8_L_0		
55 D	21.75	0.000	205.2 108.8	205.2	108.8
108.8	0.000	0.000	Strato1_2_8_L_0		
56 D	22.15	0.000	209.0 110.8	209.0	110.8
110.8	0.000	0.000	Strato1_2_8_L_0		
57 D	22.56	0.000	212.8 112.8	212.8	112.8
112.8	0.000	0.000	Strato1_2_8_L_0		
58 D	22.96	0.000	216.6 114.8	216.6	114.8
114.8	0.000	0.000	Strato1_2_8_L_0		
59 D	23.36	0.000	220.4 116.8	220.4	116.8
116.8	0.000	0.000	Strato1_2_8_L_0		
60 D	23.77	0.000	224.2 118.8	224.2	118.8
118.8	0.000	0.000	Strato1_2_8_L_0		
61 D	24.17	0.000	228.0 120.8	228.0	120.8
120.8	0.000	0.000	Strato1_2_8_L_0		
62 D	24.57	0.000	231.8 122.9	231.8	122.9
122.9	0.000	0.000	Strato1_2_8_L_0		
63 D	24.97	0.000	235.6 124.9	235.6	124.9
124.9	0.000	0.000	Strato1_2_8_L_0		
64 D	23.94	0.000	239.4 119.7	239.4	119.7
119.7	0.000	0.000	Strato2_3095_82743_L_0		
65 D	24.34	0.000	243.4 121.7	243.4	121.7
121.7	0.000	0.000	Strato2_3095_82743_L_0		
66 D	24.74	0.000	247.4 123.7	247.4	123.7
123.7	0.000	0.000	Strato2_3095_82743_L_0		
67 D	25.14	0.000	251.4 125.7	251.4	125.7
125.7	0.000	0.000	Strato2_3095_82743_L_0		
68 D	25.54	0.000	255.4 127.7	255.4	127.7
127.7	0.000	0.000	Strato2_3095_82743_L_0		
69 D	25.94	0.000	259.4 129.7	259.4	129.7
129.7	0.000	0.000	Strato2_3095_82743_L_0		
70 D	26.34	0.000	263.4 131.7	263.4	131.7
131.7	0.000	0.000	Strato2_3095_82743_L_0		
71 D	26.74	0.000	267.4 133.7	267.4	133.7
133.7	0.000	0.000	Strato2_3095_82743_L_0		
72 D	27.14	0.000	271.4 135.7	271.4	135.7
135.7	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
270 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A2M2R1_3514                                                                                       |
|          Exe Time :29 July 2019          17:58:40                                                                                           |
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New Project

STRESS RESULTS FOR GROUP NO. 3

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WallElement_33          :
ELEMENT TYPE          2 NO.OF ELEMENTS. IN THIS GROUP          90
CURRENT TIME IS          1.0000

```

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000
31	0.0000	0.0000	0.0000	0.0000
32	0.0000	0.0000	0.0000	0.0000
33	0.0000	0.0000	0.0000	0.0000
34	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000
36	0.0000	0.0000	0.0000	0.0000
37	0.0000	0.0000	0.0000	0.0000
38	0.0000	0.0000	0.0000	0.0000
39	0.0000	0.0000	0.0000	0.0000
40	0.0000	0.0000	0.0000	0.0000
41	0.0000	0.0000	0.0000	0.0000
42	0.0000	0.0000	0.0000	0.0000
43	0.0000	0.0000	0.0000	0.0000
44	0.0000	0.0000	0.0000	0.0000
45	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000
47	0.0000	0.0000	0.0000	0.0000
48	0.0000	0.0000	0.0000	0.0000
49	0.0000	0.0000	0.0000	0.0000
50	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	0.0000	0.0000
52	0.0000	0.0000	0.0000	0.0000
53	0.0000	0.0000	0.0000	0.0000
54	0.0000	0.0000	0.0000	0.0000
55	0.0000	0.0000	0.0000	0.0000
56	0.0000	0.0000	0.0000	0.0000
57	0.0000	0.0000	0.0000	0.0000
58	0.0000	0.0000	0.0000	0.0000
59	0.0000	0.0000	0.0000	0.0000
60	0.0000	0.0000	0.0000	0.0000
61	0.0000	0.0000	0.0000	0.0000
62	0.0000	0.0000	0.0000	0.0000
63	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 271 di 1221
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64	0.0000	0.0000	0.0000	0.0000
65	0.0000	0.0000	0.0000	0.0000
66	0.0000	0.0000	0.0000	0.0000
67	0.0000	0.0000	0.0000	0.0000
68	0.0000	0.0000	0.0000	0.0000
69	0.0000	0.0000	0.0000	0.0000
70	0.0000	0.0000	0.0000	0.0000
71	0.0000	0.0000	0.0000	0.0000
72	0.0000	0.0000	0.0000	0.0000
73	0.0000	0.0000	0.0000	0.0000
74	0.0000	0.0000	0.0000	0.0000
75	0.0000	0.0000	0.0000	0.0000
76	0.0000	0.0000	0.0000	0.0000
77	0.0000	0.0000	0.0000	0.0000
78	0.0000	0.0000	0.0000	0.0000
79	0.0000	0.0000	0.0000	0.0000
80	0.0000	0.0000	0.0000	0.0000
81	0.0000	0.0000	0.0000	0.0000
82	0.0000	0.0000	0.0000	0.0000
83	0.0000	0.0000	0.0000	0.0000
84	0.0000	0.0000	0.0000	0.0000
85	0.0000	0.0000	0.0000	0.0000
86	0.0000	0.0000	0.0000	0.0000
87	0.0000	0.0000	0.0000	0.0000
88	0.0000	0.0000	0.0000	0.0000
89	0.0000	0.0000	0.0000	0.0000
90	0.0000	0.0000	0.0000	0.0000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      17:58:40
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New Project

STRESS RESULTS FOR GROUP NO. 4

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Tirante1_429      :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP  1
CURRENT TIME IS  1.0000

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POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      17:58:40
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New Project

STRESS RESULTS FOR GROUP NO. 5

```

Tirante2_1507    :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP  1
CURRENT TIME IS  1.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

ITER  0  RNORM = 0.000  RMNORM= 0.000
      RINORM=0.7438E+05 RIMNOR= 0.000
      RENORM= 1736.    REMNOR= 0.000  RATIO =0.1528  TOLER =0.1000E-03  NOT CONVERGED
      RFMAX = 36.30   RRMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT  =0.7438E+05 RDR  = 0.000
      RATIOT=0.1528  RATIOR= 0.000
      MAX UN= 8.909  IEQ=  35 NODE  18 DOF  1  Y-DISPL.F

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 272 di 1221
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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=0.7438E+05 RIMNOR= 0.000
RENORM= 181.7 REMNOR=0.2527E-19 RATIO =0.4943E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 36.30 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7438E+05 RDR = 0.000
RATIOT=0.4943E-01 RATOR= 0.000
MAX UN= 4.598 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
MIN UN=-.2065E-09 IEQ= 61 NODE 31 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7438E+05 RIMNOR= 0.000
RENORM= 299.2 REMNOR=0.5219E-18 RATIO =0.6342E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 36.30 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7438E+05 RDR = 0.000
RATIOT=0.6342E-01 RATOR= 0.000
MAX UN= 8.936 IEQ= 49 NODE 25 DOF 1 Y-DISPL.F
MIN UN=-.4682E-08 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7438E+05 RIMNOR= 0.000
RENORM= 31.85 REMNOR=0.3098E-18 RATIO =0.2069E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 36.30 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7438E+05 RDR = 0.000
RATIOT=0.2069E-01 RATOR= 0.000
MAX UN= 3.831 IEQ= 71 NODE 36 DOF 1 Y-DISPL.F
MIN UN=-.3446E-08 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7438E+05 RIMNOR= 0.000
RENORM=0.2902 REMNOR=0.1571E-18 RATIO =0.1975E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 36.30 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7438E+05 RDR = 0.000
RATIOT=0.1975E-02 RATOR= 0.000
MAX UN=0.5244 IEQ= 81 NODE 41 DOF 1 Y-DISPL.F
MIN UN=-.2635E-08 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7438E+05 RIMNOR= 0.000
RENORM=0.4363E-16 REMNOR=0.1377E-18 RATIO =0.2422E-10 TOLER =0.1000E-03 CONVERGED !
RFMAX = 36.30 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7438E+05 RDR = 0.000
RATIOT=0.2422E-10 RATOR= 0.000
MAX UN=0.2132E-08 IEQ= 31 NODE 16 DOF 1 Y-DISPL.F
MIN UN=-.2466E-08 IEQ= 29 NODE 15 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
273 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|          |
|          NewProject.BaseDesignSection_28.A2M2R1_3514 |
|          Exe Time :29 July 2019          17:58:40 |
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New Project

SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	1.5012004E-02	-2.0497445E-03	
2	1.4602057E-02	-2.0497193E-03	
3	1.4192123E-02	-2.0496068E-03	
4	1.3782226E-02	-2.0493279E-03	
5	1.3372409E-02	-2.0487864E-03	
6	1.2962736E-02	-2.0478690E-03	
7	1.2553295E-02	-2.0464477E-03	
8	1.2144200E-02	-2.0443797E-03	
9	1.1735597E-02	-2.0415082E-03	
10	1.1327662E-02	-2.0376638E-03	
11	1.0920608E-02	-2.0326646E-03	
12	1.0514686E-02	-2.0263143E-03	
13	1.0110186E-02	-2.0184027E-03	
14	9.7074438E-03	-2.0087058E-03	
15	9.3068389E-03	-1.9969856E-03	
16	8.9088013E-03	-1.9829900E-03	
17	8.5138123E-03	-1.9664543E-03	
18	8.1224074E-03	-1.9471008E-03	
19	7.7351792E-03	-1.9246378E-03	
20	7.3527781E-03	-1.8987874E-03	
21	6.9759041E-03	-1.8693399E-03	
22	6.6052895E-03	-1.8361817E-03	
23	6.2416800E-03	-1.7992949E-03	
24	5.8858167E-03	-1.7587580E-03	
25	5.5384103E-03	-1.7147452E-03	
26	5.2001322E-03	-1.6675278E-03	
27	4.8715906E-03	-1.6174383E-03	
28	4.5533257E-03	-1.5648173E-03	
29	4.2458121E-03	-1.5099934E-03	
30	3.9494556E-03	-1.4532836E-03	
31	3.6646039E-03	-1.3949952E-03	
32	3.3915429E-03	-1.3354256E-03	
33	3.1304999E-03	-1.2748634E-03	
34	2.8816451E-03	-1.2135885E-03	
35	2.6450950E-03	-1.1518732E-03	
36	2.4209088E-03	-1.0899812E-03	
37	2.2090971E-03	-1.0281707E-03	
38	2.0096183E-03	-9.6669341E-04	
39	1.8223811E-03	-9.0579563E-04	
40	1.6472461E-03	-8.4571960E-04	
41	1.4840235E-03	-7.8670289E-04	
42	1.3324758E-03	-7.2897937E-04	
43	1.1923271E-03	-6.7277922E-04	
44	1.0632495E-03	-6.1830732E-04	
45	9.4487811E-04	-5.6573644E-04	
46	8.3681860E-04	-5.1521022E-04	
47	7.3864994E-04	-4.6684513E-04	
48	6.4993034E-04	-4.2073309E-04	
49	5.7020226E-04	-3.7694364E-04	
50	4.9899522E-04	-3.3552526E-04	
51	4.3583202E-04	-2.9650886E-04	
52	3.8023007E-04	-2.5990844E-04	
53	3.3170696E-04	-2.2572475E-04	
54	2.8978003E-04	-1.9394307E-04	
55	2.5397150E-04	-1.6453488E-04	
56	2.2381059E-04	-1.3745903E-04	
57	1.9883587E-04	-1.1266341E-04	
58	1.7859730E-04	-9.0086773E-05	
59	1.6265781E-04	-6.9660460E-05	
60	1.5059473E-04	-5.1309896E-05	
61	1.4200074E-04	-3.4956012E-05	
62	1.3648468E-04	-2.0516783E-05	
63	1.3367197E-04	-7.9083523E-06	
64	1.3320496E-04	2.9543205E-06	
65	1.3474503E-04	1.2186995E-05	
66	1.3798078E-04	1.9935055E-05	
67	1.4262962E-04	2.6341619E-05	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E2 CL GA 2701 002	Rev. A	Foglio 275 di 1221							
18 D	6.303	-8.1224E-03	84.04	31.52	84.04	44.54	ACTIVE	0.000	-3.400	0.000	1.000	1.000
31.52	0.000	0.000	Stratol_2_8_L_0									
19 D	6.562	-7.7352E-03	87.50	32.81	87.50	46.37	ACTIVE	0.000	-3.600	0.000	1.000	1.000
32.81	0.000	0.000	Stratol_2_8_L_0									
20 D	6.882	-7.3528E-03	91.76	34.41	91.76	48.63	ACTIVE	0.000	-3.800	0.000	1.000	1.000
34.41	0.000	0.000	Stratol_2_8_L_0									
21 D	7.143	-6.9759E-03	95.24	35.72	95.24	50.48	ACTIVE	0.000	-4.000	0.000	1.000	1.000
35.72	0.000	0.000	Stratol_2_8_L_0									
22 D	7.459	-6.6053E-03	99.45	37.29	99.45	52.71	ACTIVE	0.000	-4.200	0.000	1.000	1.000
37.29	0.000	0.000	Stratol_2_8_L_0									
23 D	7.722	-6.2417E-03	103.0	38.61	103.0	54.57	ACTIVE	0.000	-4.400	0.000	1.000	1.000
38.61	0.000	0.000	Stratol_2_8_L_0									
24 D	8.011	-5.8858E-03	106.8	40.05	106.8	56.61	ACTIVE	0.000	-4.600	0.000	1.000	1.000
40.05	0.000	0.000	Stratol_2_8_L_0									
25 D	8.276	-5.5384E-03	110.3	41.38	110.3	58.48	ACTIVE	0.000	-4.800	0.000	1.000	1.000
41.38	0.000	0.000	Stratol_2_8_L_0									
26 D	8.587	-5.2001E-03	114.5	42.94	114.5	60.68	ACTIVE	0.000	-5.000	0.000	1.000	1.000
42.94	0.000	0.000	Stratol_2_8_L_0									
27 D	8.854	-4.8716E-03	118.1	44.27	118.1	62.57	ACTIVE	0.000	-5.200	0.000	1.000	1.000
44.27	0.000	0.000	Stratol_2_8_L_0									
28 D	9.163	-4.5533E-03	122.2	45.82	122.2	64.75	ACTIVE	0.000	-5.400	0.000	1.000	1.000
45.82	0.000	0.000	Stratol_2_8_L_0									
29 D	9.431	-4.2458E-03	125.7	47.15	125.7	66.65	ACTIVE	0.000	-5.600	0.000	1.000	1.000
47.15	0.000	0.000	Stratol_2_8_L_0									
30 D	9.738	-3.9495E-03	129.8	48.69	129.8	68.82	ACTIVE	0.000	-5.800	0.000	1.000	1.000
48.69	0.000	0.000	Stratol_2_8_L_0									
31 D	9.988	-3.6646E-03	133.2	49.94	133.2	70.58	ACTIVE	0.000	-6.000	0.000	1.000	1.000
49.94	0.000	0.000	Stratol_2_8_L_0									
32 D	10.29	-3.3915E-03	137.3	51.47	137.3	72.75	ACTIVE	0.000	-6.200	0.000	1.000	1.000
51.47	0.000	0.000	Stratol_2_8_L_0									
33 D	10.56	-3.1305E-03	140.9	52.82	140.9	74.66	ACTIVE	0.000	-6.400	0.000	1.000	1.000
52.82	0.000	0.000	Stratol_2_8_L_0									
34 D	10.87	-2.8816E-03	144.9	54.35	144.9	76.81	ACTIVE	0.000	-6.600	0.000	1.000	1.000
54.35	0.000	0.000	Stratol_2_8_L_0									
35 D	11.14	-2.6451E-03	148.5	55.70	148.5	78.73	ACTIVE	0.000	-6.800	0.000	1.000	1.000
55.70	0.000	0.000	Stratol_2_8_L_0									
36 D	11.44	-2.4209E-03	152.6	57.22	152.6	80.87	ACTIVE	0.000	-7.000	0.000	1.000	1.000
57.22	0.000	0.000	Stratol_2_8_L_0									
37 D	11.72	-2.2091E-03	156.2	58.58	156.2	82.79	ACTIVE	0.000	-7.200	0.000	1.000	1.000
58.58	0.000	0.000	Stratol_2_8_L_0									
38 D	12.02	-2.0096E-03	160.2	60.09	160.2	84.93	ACTIVE	0.000	-7.400	0.000	1.000	1.000
60.09	0.000	0.000	Stratol_2_8_L_0									
39 D	12.28	-1.8224E-03	163.7	61.38	163.7	86.74	ACTIVE	0.000	-7.600	0.000	1.000	1.000
61.38	0.000	0.000	Stratol_2_8_L_0									
40 D	12.58	-1.6472E-03	167.7	62.88	167.7	88.88	ACTIVE	0.000	-7.800	0.000	1.000	1.000
62.88	0.000	0.000	Stratol_2_8_L_0									
41 D	12.85	-1.4840E-03	171.3	64.25	171.3	90.81	ACTIVE	0.000	-8.000	0.000	1.000	1.000
64.25	0.000	0.000	Stratol_2_8_L_0									
42 D	13.32	-1.3325E-03	175.3	66.60	175.3	92.93	UL-RL	1.9764E+04	-8.200	0.000	1.000	1.000
66.60	0.000	0.000	Stratol_2_8_L_0									
43 D	14.26	-1.1923E-03	179.0	71.30	179.0	94.86	UL-RL	1.9764E+04	-8.400	0.000	1.000	1.000
71.30	0.000	0.000	Stratol_2_8_L_0									
44 D	15.19	-1.0632E-03	183.0	75.97	183.0	96.98	UL-RL	1.9764E+04	-8.600	0.000	1.000	1.000
75.97	0.000	0.000	Stratol_2_8_L_0									
45 D	16.05	-9.4488E-04	186.6	80.25	186.6	98.92	UL-RL	1.9764E+04	-8.800	0.000	1.000	1.000
80.25	0.000	0.000	Stratol_2_8_L_0									
46 D	16.88	-8.3682E-04	190.5	84.41	190.5	100.9	UL-RL	1.9764E+04	-9.000	0.000	1.000	1.000
84.41	0.000	0.000	Stratol_2_8_L_0									
47 D	17.66	-7.3865E-04	194.1	88.29	194.1	102.9	UL-RL	1.9764E+04	-9.200	0.000	1.000	1.000
88.29	0.000	0.000	Stratol_2_8_L_0									
48 D	18.43	-6.4993E-04	198.1	92.15	198.1	105.0	UL-RL	1.9764E+04	-9.400	0.000	1.000	1.000
92.15	0.000	0.000	Stratol_2_8_L_0									
49 D	19.13	-5.7020E-04	201.8	95.67	201.8	106.9	UL-RL	1.9764E+04	-9.600	0.000	1.000	1.000
95.67	0.000	0.000	Stratol_2_8_L_0									
50 D	19.84	-4.9900E-04	205.8	99.19	205.8	109.1	UL-RL	1.9764E+04	-9.800	0.000	1.000	1.000
99.19	0.000	0.000	Stratol_2_8_L_0									
51 D	20.48	-4.3583E-04	209.4	102.4	209.4	111.0	UL-RL	1.9764E+04	-10.00	0.000	1.000	1.000
102.4	0.000	0.000	Stratol_2_8_L_0									
52 D	21.12	-3.8023E-04	213.4	105.6	213.4	113.1	UL-RL	1.9764E+04	-10.20	0.000	1.000	1.000
105.6	0.000	0.000	Stratol_2_8_L_0									
53 D	21.70	-3.3171E-04	217.1	108.5	217.1	115.0	UL-RL	1.9764E+04	-10.40	0.000	1.000	1.000
108.5	0.000	0.000	Stratol_2_8_L_0									
54 D	22.27	-2.8978E-04	220.9	111.3	220.9	117.1	UL-RL	1.9764E+04	-10.60	0.000	1.000	1.000
111.3	0.000	0.000	Stratol_2_8_L_0									
55 D	22.80	-2.5397E-04	224.6	114.0	224.6	119.0	UL-RL	1.9764E+04	-10.80	0.000	1.000	1.000
114.0	0.000	0.000	Stratol_2_8_L_0									
56 D	23.34	-2.2381E-04	228.5	116.7	228.5	121.1	UL-RL	1.9764E+04	-11.00	0.000	1.000	1.000
116.7	0.000	0.000	Stratol_2_8_L_0									
57 D	23.83	-1.9884E-04	232.2	119.1	232.2	123.1	UL-RL	1.9764E+04	-11.20	0.000	1.000	1.000
119.1	0.000	0.000	Stratol_2_8_L_0									
58 D	24.33	-1.7860E-04	236.2	121.6	236.2	125.2	UL-RL	1.9764E+04	-11.40	0.000	1.000	1.000
121.6	0.000	0.000	Stratol_2_8_L_0									
59 D	24.78	-1.6266E-04	239.9	123.9	239.9	127.1	UL-RL	1.9764E+04	-11.60	0.000	1.000	1.000
123.9	0.000	0.000	Stratol_2_8_L_0									
60 D	25.25	-1.5059E-04	243.8	126.2	243.8	129.2	UL-RL	1.9764E+04	-11.80	0.000	1.000	1.000

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 276 di 1221
126.2	0.000	0.000	Strato1_2_8_L_0		
61 D	25.66	-1.4200E-04	247.4 128.3	247.4	131.1
128.3	0.000	0.000	Strato1_2_8_L_0		
62 D	26.10	-1.3648E-04	251.3 130.5	251.3	133.2
130.5	0.000	0.000	Strato1_2_8_L_0		
63 D	26.50	-1.3367E-04	255.0 132.5	255.0	135.2
132.5	0.000	0.000	Strato1_2_8_L_0		
64 D	24.43	-1.3320E-04	258.9 122.2	258.9	129.5
122.2	0.000	0.000	Strato2_3095_82743_L_0		
65 D	24.81	-1.3475E-04	262.8 124.0	262.8	131.4
124.0	0.000	0.000	Strato2_3095_82743_L_0		
66 D	25.18	-1.3798E-04	267.0 125.9	267.0	133.5
125.9	0.000	0.000	Strato2_3095_82743_L_0		
67 D	25.52	-1.4263E-04	270.9 127.6	270.9	135.4
127.6	0.000	0.000	Strato2_3095_82743_L_0		
68 D	25.87	-1.4844E-04	275.0 129.4	275.0	137.5
129.4	0.000	0.000	Strato2_3095_82743_L_0		
69 D	26.18	-1.5518E-04	278.8 130.9	278.8	139.4
130.9	0.000	0.000	Strato2_3095_82743_L_0		
70 D	26.51	-1.6265E-04	282.9 132.5	282.9	141.5
132.5	0.000	0.000	Strato2_3095_82743_L_0		
71 D	26.81	-1.7068E-04	286.8 134.1	286.8	143.4
134.1	0.000	0.000	Strato2_3095_82743_L_0		
72 D	27.13	-1.7911E-04	290.9 135.6	290.9	145.5
135.6	0.000	0.000	Strato2_3095_82743_L_0		
73 D	27.43	-1.8781E-04	294.9 137.1	294.9	147.4
137.1	0.000	0.000	Strato2_3095_82743_L_0		
74 D	27.74	-1.9669E-04	299.0 138.7	299.0	149.5
138.7	0.000	0.000	Strato2_3095_82743_L_0		
75 D	28.03	-2.0564E-04	302.9 140.2	302.9	151.4
140.2	0.000	0.000	Strato2_3095_82743_L_0		
76 D	28.34	-2.1460E-04	306.9 141.7	306.9	153.5
141.7	0.000	0.000	Strato2_3095_82743_L_0		
77 D	28.63	-2.2351E-04	310.8 143.1	310.8	155.4
143.1	0.000	0.000	Strato2_3095_82743_L_0		
78 D	28.94	-2.3233E-04	314.9 144.7	314.9	157.5
144.7	0.000	0.000	Strato2_3095_82743_L_0		
79 D	29.24	-2.4103E-04	318.8 146.2	318.8	159.4
146.2	0.000	0.000	Strato2_3095_82743_L_0		
80 D	29.56	-2.4959E-04	323.0 147.8	323.0	161.5
147.8	0.000	0.000	Strato2_3095_82743_L_0		
81 D	29.86	-2.5801E-04	326.9 149.3	326.9	163.4
149.3	0.000	0.000	Strato2_3095_82743_L_0		
82 D	30.18	-2.6630E-04	331.0 150.9	331.0	165.5
150.9	0.000	0.000	Strato2_3095_82743_L_0		
83 D	30.48	-2.7444E-04	334.9 152.4	334.9	167.4
152.4	0.000	0.000	Strato2_3095_82743_L_0		
84 D	30.79	-2.8247E-04	338.9 154.0	338.9	169.5
154.0	0.000	0.000	Strato2_3095_82743_L_0		
85 D	31.10	-2.9039E-04	342.8 155.5	342.8	171.4
155.5	0.000	0.000	Strato2_3095_82743_L_0		
86 D	31.42	-2.9823E-04	346.9 157.1	346.9	173.5
157.1	0.000	0.000	Strato2_3095_82743_L_0		
87 D	31.73	-3.0600E-04	350.9 158.6	350.9	175.4
158.6	0.000	0.000	Strato2_3095_82743_L_0		
88 D	32.05	-3.1373E-04	355.0 160.3	355.0	177.5
160.3	0.000	0.000	Strato2_3095_82743_L_0		
89 D	32.36	-3.2143E-04	358.9 161.8	358.9	179.4
161.8	0.000	0.000	Strato2_3095_82743_L_0		
90 D	32.69	-3.2911E-04	363.0 163.4	363.0	181.5
163.4	0.000	0.000	Strato2_3095_82743_L_0		
91 D	16.49	-3.3679E-04	366.8 164.9	366.8	183.4
164.9	0.000	0.000	Strato2_3095_82743_L_0		



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
277 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A2M2R1_3514                                                                                   |
|          Exe Time :29 July 2019          17:58:40                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
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	not available									
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
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	not available									
19 D	1.154	7.7352E-03	1.900	5.772	68.40	36.25	PASSIVE	0.000	-3.600	0.000	1.000	1.000
5.772	0.000	0.000	Stratol_2_8_L_0									
20 D	3.463	7.3528E-03	5.700	17.32	72.20	38.27	PASSIVE	0.000	-3.800	0.000	1.000	1.000
17.32	0.000	0.000	Stratol_2_8_L_0									
21 D	5.772	6.9759E-03	9.500	28.86	76.00	40.28	PASSIVE	0.000	-4.000	0.000	1.000	1.000
28.86	0.000	0.000	Stratol_2_8_L_0									
22 D	8.081	6.6053E-03	13.30	40.41	79.80	42.29	PASSIVE	0.000	-4.200	0.000	1.000	1.000
40.41	0.000	0.000	Stratol_2_8_L_0									
23 D	10.39	6.2417E-03	17.10	51.95	83.60	51.95	PASSIVE	0.000	-4.400	0.000	1.000	1.000
51.95	0.000	0.000	Stratol_2_8_L_0									
24 D	12.70	5.8858E-03	20.90	63.49	87.40	63.49	PASSIVE	0.000	-4.600	0.000	1.000	1.000
63.49	0.000	0.000	Stratol_2_8_L_0									
25 D	15.01	5.5384E-03	24.70	75.04	91.20	75.04	PASSIVE	0.000	-4.800	0.000	1.000	1.000
75.04	0.000	0.000	Stratol_2_8_L_0									
26 D	15.87	5.2001E-03	28.50	79.35	95.00	79.35	V-C	5576.	-5.000	0.000	1.000	1.000
79.35	0.000	0.000	Stratol_2_8_L_0									
27 D	15.91	4.8716E-03	32.30	79.53	98.80	79.53	V-C	5576.	-5.200	0.000	1.000	1.000
79.53	0.000	0.000	Stratol_2_8_L_0									
28 D	15.95	4.5533E-03	36.10	79.77	102.6	79.77	V-C	5576.	-5.400	0.000	1.000	1.000
79.77	0.000	0.000	Stratol_2_8_L_0									
29 D	16.01	4.2458E-03	39.90	80.07	106.4	80.07	V-C	5576.	-5.600	0.000	1.000	1.000
80.07	0.000	0.000	Stratol_2_8_L_0									
30 D	16.09	3.9495E-03	43.70	80.43	110.2	80.43	V-C	5576.	-5.800	0.000	1.000	1.000

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Doc. N.				Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 278 di 1221
80.43	0.000	0.000	Strato1_2_8_L_0					
31 D	16.17	3.6646E-03	47.50 80.85	114.0	80.85	V-C 5576.	-6.000	0.000 1.000 1.000
80.85	0.000	0.000	Strato1_2_8_L_0					
32 D	16.27	3.3915E-03	51.30 81.34	117.8	81.34	V-C 5576.	-6.200	0.000 1.000 1.000
81.34	0.000	0.000	Strato1_2_8_L_0					
33 D	16.38	3.1305E-03	55.10 81.90	121.6	81.90	V-C 5576.	-6.400	0.000 1.000 1.000
81.90	0.000	0.000	Strato1_2_8_L_0					
34 D	16.51	2.8816E-03	58.90 82.53	125.4	82.53	V-C 5576.	-6.600	0.000 1.000 1.000
82.53	0.000	0.000	Strato1_2_8_L_0					
35 D	16.64	2.6451E-03	62.70 83.22	129.2	83.22	V-C 5576.	-6.800	0.000 1.000 1.000
83.22	0.000	0.000	Strato1_2_8_L_0					
36 D	16.80	2.4209E-03	66.50 83.99	133.0	83.99	V-C 5576.	-7.000	0.000 1.000 1.000
83.99	0.000	0.000	Strato1_2_8_L_0					
37 D	16.96	2.2091E-03	70.30 84.82	136.8	84.82	V-C 5576.	-7.200	0.000 1.000 1.000
84.82	0.000	0.000	Strato1_2_8_L_0					
38 D	17.14	2.0096E-03	74.10 85.72	140.6	85.72	V-C 5576.	-7.400	0.000 1.000 1.000
85.72	0.000	0.000	Strato1_2_8_L_0					
39 D	17.34	1.8224E-03	77.90 86.69	144.4	86.69	V-C 5576.	-7.600	0.000 1.000 1.000
86.69	0.000	0.000	Strato1_2_8_L_0					
40 D	17.55	1.6472E-03	81.70 87.73	148.2	87.73	V-C 5576.	-7.800	0.000 1.000 1.000
87.73	0.000	0.000	Strato1_2_8_L_0					
41 D	17.77	1.4840E-03	85.50 88.83	152.0	88.83	V-C 5576.	-8.000	0.000 1.000 1.000
88.83	0.000	0.000	Strato1_2_8_L_0					
42 D	18.00	1.3325E-03	89.30 90.00	155.8	90.00	V-C 5576.	-8.200	0.000 1.000 1.000
90.00	0.000	0.000	Strato1_2_8_L_0					
43 D	18.25	1.1923E-03	93.10 91.24	159.6	91.24	V-C 5576.	-8.400	0.000 1.000 1.000
91.24	0.000	0.000	Strato1_2_8_L_0					
44 D	18.51	1.0632E-03	96.90 92.53	163.4	92.53	V-C 5576.	-8.600	0.000 1.000 1.000
92.53	0.000	0.000	Strato1_2_8_L_0					
45 D	18.78	9.4488E-04	100.7 93.88	167.2	93.88	V-C 5576.	-8.800	0.000 1.000 1.000
93.88	0.000	0.000	Strato1_2_8_L_0					
46 D	19.06	8.3682E-04	104.5 95.30	171.0	95.30	V-C 5576.	-9.000	0.000 1.000 1.000
95.30	0.000	0.000	Strato1_2_8_L_0					
47 D	19.35	7.3865E-04	108.3 96.76	174.8	96.76	V-C 5576.	-9.200	0.000 1.000 1.000
96.76	0.000	0.000	Strato1_2_8_L_0					
48 D	19.66	6.4993E-04	112.1 98.28	178.6	98.28	V-C 5576.	-9.400	0.000 1.000 1.000
98.28	0.000	0.000	Strato1_2_8_L_0					
49 D	19.97	5.7020E-04	115.9 99.85	182.4	99.85	V-C 5576.	-9.600	0.000 1.000 1.000
99.85	0.000	0.000	Strato1_2_8_L_0					
50 D	20.29	4.9900E-04	119.7 101.5	186.2	101.5	V-C 5576.	-9.800	0.000 1.000 1.000
101.5	0.000	0.000	Strato1_2_8_L_0					
51 D	20.63	4.3583E-04	123.5 103.1	190.0	103.1	V-C 5576.	-10.00	0.000 1.000 1.000
103.1	0.000	0.000	Strato1_2_8_L_0					
52 D	20.97	3.8023E-04	127.3 104.8	193.8	104.8	V-C 5576.	-10.20	0.000 1.000 1.000
104.8	0.000	0.000	Strato1_2_8_L_0					
53 D	21.24	3.3171E-04	131.1 106.2	197.6	106.8	UL-RL 1.6728E+04	-10.40	0.000 1.000 1.000
106.2	0.000	0.000	Strato1_2_8_L_0					
54 D	21.52	2.8978E-04	134.9 107.6	201.4	108.7	UL-RL 1.6728E+04	-10.60	0.000 1.000 1.000
107.6	0.000	0.000	Strato1_2_8_L_0					
55 D	21.82	2.5397E-04	138.7 109.1	205.2	110.7	UL-RL 1.6728E+04	-10.80	0.000 1.000 1.000
109.1	0.000	0.000	Strato1_2_8_L_0					
56 D	22.13	2.2381E-04	142.5 110.6	209.0	112.7	UL-RL 1.6728E+04	-11.00	0.000 1.000 1.000
110.6	0.000	0.000	Strato1_2_8_L_0					
57 D	22.46	1.9884E-04	146.3 112.3	212.8	114.7	UL-RL 1.6728E+04	-11.20	0.000 1.000 1.000
112.3	0.000	0.000	Strato1_2_8_L_0					
58 D	22.80	1.7860E-04	150.1 114.0	216.6	116.7	UL-RL 1.6728E+04	-11.40	0.000 1.000 1.000
114.0	0.000	0.000	Strato1_2_8_L_0					
59 D	23.16	1.6266E-04	153.9 115.8	220.4	118.7	UL-RL 1.6728E+04	-11.60	0.000 1.000 1.000
115.8	0.000	0.000	Strato1_2_8_L_0					
60 D	23.53	1.5059E-04	157.7 117.7	224.2	120.7	UL-RL 1.6728E+04	-11.80	0.000 1.000 1.000
117.7	0.000	0.000	Strato1_2_8_L_0					
61 D	23.92	1.4200E-04	161.5 119.6	228.0	122.7	UL-RL 1.6728E+04	-12.00	0.000 1.000 1.000
119.6	0.000	0.000	Strato1_2_8_L_0					
62 D	24.31	1.3648E-04	165.3 121.5	231.8	124.7	UL-RL 1.6728E+04	-12.20	0.000 1.000 1.000
121.5	0.000	0.000	Strato1_2_8_L_0					
63 D	24.71	1.3367E-04	169.1 123.5	235.6	126.6	UL-RL 1.6728E+04	-12.40	0.000 1.000 1.000
123.5	0.000	0.000	Strato1_2_8_L_0					
64 D	21.35	1.3320E-04	172.9 106.7	239.4	119.7	UL-RL 3.7671E+04	-12.60	0.000 1.000 1.000
106.7	0.000	0.000	Strato2_3095_82743_L_0					
65 D	21.77	1.3475E-04	176.9 108.8	243.4	121.7	UL-RL 3.7671E+04	-12.80	0.000 1.000 1.000
108.8	0.000	0.000	Strato2_3095_82743_L_0					
66 D	22.19	1.3798E-04	180.9 111.0	247.4	123.7	UL-RL 3.7671E+04	-13.00	0.000 1.000 1.000
111.0	0.000	0.000	Strato2_3095_82743_L_0					
67 D	22.63	1.4263E-04	184.9 113.2	251.4	125.7	UL-RL 3.7671E+04	-13.20	0.000 1.000 1.000
113.2	0.000	0.000	Strato2_3095_82743_L_0					
68 D	23.08	1.4844E-04	188.9 115.4	255.4	127.7	UL-RL 3.7671E+04	-13.40	0.000 1.000 1.000
115.4	0.000	0.000	Strato2_3095_82743_L_0					
69 D	23.54	1.5518E-04	192.9 117.7	259.4	129.7	UL-RL 3.7671E+04	-13.60	0.000 1.000 1.000
117.7	0.000	0.000	Strato2_3095_82743_L_0					
70 D	24.00	1.6265E-04	196.9 120.0	263.4	131.7	UL-RL 3.7671E+04	-13.80	0.000 1.000 1.000
120.0	0.000	0.000	Strato2_3095_82743_L_0					
71 D	24.46	1.7068E-04	200.9 122.3	267.4	133.7	UL-RL 3.7671E+04	-14.00	0.000 1.000 1.000
122.3	0.000	0.000	Strato2_3095_82743_L_0					
72 D	24.93	1.7911E-04	204.9 124.7	271.4	135.7	UL-RL 3.7671E+04	-14.20	0.000 1.000 1.000
124.7	0.000	0.000	Strato2_3095_82743_L_0					



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 279 di 1221
73 D	25.40	1.8781E-04	208.9	127.0	275.4
127.0	0.000	0.000	Strato2_3095_82743_L_0		137.7
74 D	25.87	1.9669E-04	212.9	129.4	279.4
129.4	0.000	0.000	Strato2_3095_82743_L_0		139.7
75 D	26.34	2.0564E-04	216.9	131.7	283.4
131.7	0.000	0.000	Strato2_3095_82743_L_0		141.7
76 D	26.81	2.1460E-04	220.9	134.1	287.4
134.1	0.000	0.000	Strato2_3095_82743_L_0		143.7
77 D	27.28	2.2351E-04	224.9	136.4	291.4
136.4	0.000	0.000	Strato2_3095_82743_L_0		145.7
78 D	27.75	2.3233E-04	228.9	138.8	295.4
138.8	0.000	0.000	Strato2_3095_82743_L_0		147.7
79 D	28.22	2.4103E-04	232.9	141.1	299.4
141.1	0.000	0.000	Strato2_3095_82743_L_0		149.7
80 D	28.69	2.4959E-04	236.9	143.5	303.4
143.5	0.000	0.000	Strato2_3095_82743_L_0		151.7
81 D	29.16	2.5801E-04	240.9	145.8	307.4
145.8	0.000	0.000	Strato2_3095_82743_L_0		153.7
82 D	29.62	2.6630E-04	244.9	148.1	311.4
148.1	0.000	0.000	Strato2_3095_82743_L_0		155.7
83 D	30.09	2.7444E-04	248.9	150.4	315.4
150.4	0.000	0.000	Strato2_3095_82743_L_0		157.7
84 D	30.55	2.8247E-04	252.9	152.7	319.4
152.7	0.000	0.000	Strato2_3095_82743_L_0		159.7
85 D	31.01	2.9039E-04	256.9	155.1	323.4
155.1	0.000	0.000	Strato2_3095_82743_L_0		161.7
86 D	31.47	2.9823E-04	260.9	157.4	327.4
157.4	0.000	0.000	Strato2_3095_82743_L_0		163.7
87 D	31.93	3.0600E-04	264.9	159.7	331.4
159.7	0.000	0.000	Strato2_3095_82743_L_0		165.7
88 D	32.40	3.1373E-04	268.9	162.0	335.4
162.0	0.000	0.000	Strato2_3095_82743_L_0		167.7
89 D	32.86	3.2143E-04	272.9	164.3	339.4
164.3	0.000	0.000	Strato2_3095_82743_L_0		169.7
90 D	33.32	3.2911E-04	276.9	166.6	343.4
166.6	0.000	0.000	Strato2_3095_82743_L_0		171.7
91 D	16.89	3.3679E-04	280.9	168.9	347.4
168.9	0.000	0.000	Strato2_3095_82743_L_0		173.7

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A2M2R1_3514                                                                                   |
|          Exe Time :29 July 2019          17:58:40                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.0575	-1.0575	-8.00124E-11	0.21150
2	2.6250	-2.6250	-0.21150	0.73650
3	4.3831	-4.3831	-0.73650	1.6131
4	6.6770	-6.6770	-1.6131	2.9485
5	9.1603	-9.1603	-2.9485	4.7806
6	12.063	-12.063	-4.7806	7.1932
7	15.177	-15.177	-7.1932	10.229
8	18.667	-18.667	-10.229	13.962
9	22.317	-22.317	-13.962	18.425
10	26.329	-26.329	-18.425	23.691
11	30.582	-30.582	-23.691	29.807
12	35.180	-35.180	-29.807	36.843
13	40.025	-40.025	-36.843	44.848
14	45.205	-45.205	-44.848	53.889
15	50.636	-50.636	-53.889	64.017
16	56.358	-56.358	-64.017	75.288
17	62.338	-62.338	-75.288	87.756
18	68.641	-68.641	-87.756	101.48
19	74.049	-74.049	-101.48	116.29
20	77.467	-77.467	-116.29	131.79
21	78.838	-78.838	-131.79	147.55
22	78.216	-78.216	-147.55	163.20
23	75.548	-75.548	-163.20	178.31
24	70.859	-70.859	-178.31	192.48

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 280 di 1221
25	64.128	-64.128	-192.48	205.30	
26	56.846	-56.846	-205.30	216.67	
27	49.795	-49.795	-216.67	226.63	
28	43.004	-43.004	-226.63	235.23	
29	36.422	-36.422	-235.23	242.52	
30	30.075	-30.075	-242.52	248.53	
31	23.892	-23.892	-248.53	253.31	
32	17.918	-17.918	-253.31	256.90	
33	12.102	-12.102	-256.90	259.32	
34	6.4656	-6.4656	-259.32	260.61	
35	0.96094	-0.96094	-260.61	260.80	
36	-4.3930	4.3930	-260.80	259.92	
37	-9.6420	9.6420	-259.92	257.99	
38	-14.769	14.769	-257.99	255.04	
39	-19.832	19.832	-255.04	251.07	
40	-24.802	24.802	-251.07	246.11	
41	-29.719	29.719	-246.11	240.17	
42	-34.400	34.400	-240.17	233.29	
43	-38.387	38.387	-233.29	225.61	
44	-41.699	41.699	-225.61	217.27	
45	-44.427	44.427	-217.27	208.39	
46	-46.605	46.605	-208.39	199.07	
47	-48.299	48.299	-199.07	189.41	
48	-49.525	49.525	-189.41	179.50	
49	-50.360	50.360	-179.50	169.43	
50	-50.817	50.817	-169.43	159.27	
51	-50.966	50.966	-159.27	149.07	
52	-50.816	50.816	-149.07	138.91	
53	-50.363	50.363	-138.91	128.84	
54	-49.614	49.614	-128.84	118.91	
55	-48.630	48.630	-118.91	109.19	
56	-47.419	47.419	-109.19	99.704	
57	-46.050	46.050	-99.704	90.494	
58	-44.527	44.527	-90.494	81.588	
59	-42.909	42.909	-81.588	73.006	
60	-41.196	41.196	-73.006	64.767	
61	-39.454	39.454	-64.767	56.876	
62	-37.664	37.664	-56.876	49.344	
63	-35.872	35.872	-49.344	42.169	
64	-32.788	32.788	-42.169	35.612	
65	-29.748	29.748	-35.612	29.662	
66	-26.759	26.759	-29.662	24.310	
67	-23.872	23.872	-24.310	19.536	
68	-21.083	21.083	-19.536	15.319	
69	-18.445	18.445	-15.319	11.630	
70	-15.936	15.936	-11.630	8.4432	
71	-13.590	13.590	-8.4432	5.7252	
72	-11.391	11.391	-5.7252	3.4471	
73	-9.3662	9.3662	-3.4471	1.5738	
74	-7.4978	7.4978	-1.5738	7.42619E-02	
75	-5.8075	5.8075	-7.42619E-02	-1.0872	
76	-4.2850	4.2850	1.0872	-1.9442	
77	-2.9392	2.9392	1.9442	-2.5321	
78	-1.7487	1.7487	2.5321	-2.8818	
79	-0.73081	0.73081	2.8818	-3.0280	
80	0.13644	-0.13644	3.0280	-3.0007	
81	0.83664	-0.83664	3.0007	-2.8334	
82	1.3913	-1.3913	2.8334	-2.5551	
83	1.7843	-1.7843	2.5551	-2.1983	
84	2.0274	-2.0274	2.1983	-1.7928	
85	2.1134	-2.1134	1.7928	-1.3701	
86	2.0620	-2.0620	1.3701	-0.95769	
87	1.8565	-1.8565	0.95769	-0.58638	
88	1.5156	-1.5156	0.58638	-0.28327	
89	1.0223	-1.0223	0.28327	-7.88170E-02	
90	0.39408	-0.39408	7.88170E-02	-1.55720E-12	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
281 di 1221

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      17:58:40  |
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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

```

Tirante1_429      :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
C U R R E N T   T I M E   I S   2.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      17:58:40  |
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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 . 5

```

Tirante2_1507    :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
C U R R E N T   T I M E   I S   2.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

ITER      0  RNORM = 0.000      RMNORM= 0.000
RINORM=0.3269E+06  RIMNOR=0.3404E+07
RENORM= 8234.      REMNOR=0.1377E-18  RATIO =0.1587      TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 90.74      RMMAX = 260.8
RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
RDT =0.3269E+06  RDR =0.3404E+07
RATIOT=0.1587      RATOR= 0.000
MAX UN=0.1778E-08  IEQ= 35 NODE      18 DOF  1  Y-DISPL.F
MIN UN=-90.74      IEQ= 31 NODE      16 DOF  1  Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

```

```

ITER      2  RNORM = 0.000      RMNORM= 0.000
RINORM=0.3269E+06  RIMNOR=0.3404E+07
RENORM= 12.61      REMNOR=0.2202E-18  RATIO =0.6210E-02  TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 90.74      RMMAX = 260.8
RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
RDT =0.3269E+06  RDR =0.3404E+07
RATIOT=0.6210E-02  RATOR= 0.000
MAX UN=0.1769E-08  IEQ= 47 NODE      24 DOF  1  Y-DISPL.F
MIN UN=-1.427      IEQ= 3 NODE      2 DOF  1  Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

```

```

ITER      3  RNORM = 0.000      RMNORM= 0.000
RINORM=0.3269E+06  RIMNOR=0.3404E+07
RENORM=0.2663      REMNOR=0.2621E-18  RATIO =0.9027E-03  TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 90.74      RMMAX = 260.8
RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
RDT =0.3269E+06  RDR =0.3404E+07
RATIOT=0.9027E-03  RATOR= 0.000
MAX UN=0.3116E-01  IEQ= 95 NODE      48 DOF  1  Y-DISPL.F
MIN UN=-.4408      IEQ= 33 NODE      17 DOF  1  Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
282 di 1221

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ITER      4 RNORM = 0.000      RMNORM= 0.000
RINORM=0.3269E+06 RIMNOR=0.3404E+07
RENORM=0.4779E-16 REMNOR=0.2411E-18 RATIO =0.1209E-10 TOLER =0.1000E-03      CONVERGED !
RFMAX = 90.74      RMMAX = 260.8
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT      =0.3269E+06 RDR      =0.3404E+07
RATIOT=0.1209E-10 RATIO= 0.000
MAX UN=0.2625E-08 IEQ=      7 NODE      4 DOF      1 Y-DISPL.F
MIN UN=-.3087E-08 IEQ=      9 NODE      5 DOF      1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      17:58:40  |
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New Project
SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	1.3788415E-02	-1.9352949E-03	
2	1.3401359E-02	-1.9352438E-03	
3	1.3014330E-02	-1.9350053E-03	
4	1.2627381E-02	-1.9344043E-03	
5	1.2240605E-02	-1.9332452E-03	
6	1.1854135E-02	-1.9313118E-03	
7	1.1468148E-02	-1.9283709E-03	
8	1.1082870E-02	-1.9241717E-03	
9	1.0698581E-02	-1.9184471E-03	
10	1.0315612E-02	-1.9109152E-03	
11	9.9343550E-03	-1.9012799E-03	
12	9.5552612E-03	-1.8892284E-03	
13	9.1788466E-03	-1.8744319E-03	
14	8.8056945E-03	-1.8565452E-03	
15	8.4364586E-03	-1.8352074E-03	
16	8.0718667E-03	-1.8100417E-03	
17	7.7125796E-03	-1.7828112E-03	
18	7.3587633E-03	-1.7552645E-03	
19	7.0105229E-03	-1.7269806E-03	
20	6.6680491E-03	-1.6975268E-03	
21	6.3316181E-03	-1.6664852E-03	
22	6.0015837E-03	-1.6335120E-03	
23	5.6783576E-03	-1.5983731E-03	
24	5.3623887E-03	-1.5609446E-03	
25	5.0541350E-03	-1.5212124E-03	
26	4.7540509E-03	-1.4792734E-03	
27	4.4625613E-03	-1.4352988E-03	
28	4.1800542E-03	-1.3894810E-03	
29	3.9068803E-03	-1.3420131E-03	
30	3.6433475E-03	-1.2930887E-03	
31	3.3897289E-03	-1.2429033E-03	
32	3.1462571E-03	-1.1916537E-03	
33	2.9131251E-03	-1.1395384E-03	
34	2.6904861E-03	-1.0867570E-03	
35	2.4784543E-03	-1.0335110E-03	
36	2.2771003E-03	-9.8000232E-04	
37	2.0864573E-03	-9.2643522E-04	
38	1.9065164E-03	-8.7301524E-04	
39	1.7372276E-03	-8.1994962E-04	
40	1.5784998E-03	-7.6744791E-04	
41	1.4301976E-03	-7.1572110E-04	
42	1.2921428E-03	-6.6498191E-04	
43	1.1641219E-03	-6.1544394E-04	
44	1.0458728E-03	-5.6730031E-04	
45	9.3709845E-04	-5.2071593E-04	
46	8.3747322E-04	-4.7583008E-04	
47	7.4664550E-04	-4.3275795E-04	
48	6.6424293E-04	-3.9159248E-04	
49	5.8987695E-04	-3.5240590E-04	
50	5.2314551E-04	-3.1525082E-04	
51	4.6363878E-04	-2.8016338E-04	
52	4.1094045E-04	-2.4716389E-04	
53	3.6463298E-04	-2.1626005E-04	
54	3.2429707E-04	-1.8744653E-04	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 283 di 1221
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55	2.8951614E-04	-1.6070642E-04
56	2.5987821E-04	-1.3601072E-04
57	2.3497820E-04	-1.1331972E-04
58	2.1441992E-04	-9.2584701E-05
59	1.9781767E-04	-7.3749455E-05
60	1.8479764E-04	-5.6751713E-05
61	1.7499896E-04	-4.1524422E-05
62	1.6807454E-04	-2.7997203E-05
63	1.6369158E-04	-1.6097389E-05
64	1.6153204E-04	-5.7506155E-06
65	1.6129434E-04	3.1412325E-06
66	1.6269963E-04	1.0699432E-05
67	1.6549324E-04	1.7044578E-05
68	1.6944427E-04	2.2295030E-05
69	1.7434582E-04	2.6566793E-05
70	1.8001314E-04	2.9970765E-05
71	1.8628335E-04	3.2613092E-05
72	1.9301431E-04	3.4594552E-05
73	2.0008344E-04	3.6010084E-05
74	2.0738654E-04	3.6948454E-05
75	2.1483650E-04	3.7491995E-05
76	2.2236206E-04	3.7716452E-05
77	2.2990640E-04	3.7690648E-05
78	2.3742576E-04	3.7476455E-05
79	2.4488810E-04	3.7129032E-05
80	2.5227173E-04	3.6696869E-05
81	2.5956399E-04	3.6221848E-05
82	2.6675997E-04	3.5739320E-05
83	2.7386114E-04	3.5278192E-05
84	2.8087417E-04	3.4861012E-05
85	2.8780989E-04	3.4503822E-05
86	2.9468069E-04	3.4216306E-05
87	3.0150129E-04	3.4001960E-05
88	3.0828618E-04	3.3858222E-05
89	3.1504872E-04	3.3776492E-05
90	3.2179994E-04	3.3742159E-05
91	3.2854737E-04	3.3734615E-05

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019  17:58:40                               |
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New Project

STRESS RESULTS FOR GROUP NO. 1

O_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 3.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1 D	2.155	-1.3788E-02	28.20	21.55	28.20	21.55	V-C	6588.	0.000	0.000	1.000	1.000
21.55	0.000	0.000	Strato1_2_8_L_0									
2 D	3.581	-1.3401E-02	20.90	17.91	20.90	17.91	V-C	6588.	-0.2000	0.000	1.000	1.000
17.91	0.000	0.000	Strato1_2_8_L_0									
3 D	3.794	-1.3014E-02	23.44	18.97	23.44	18.97	V-C	6588.	-0.4000	0.000	1.000	1.000
18.97	0.000	0.000	Strato1_2_8_L_0									
4 D	4.448	-1.2627E-02	30.59	22.24	30.59	22.24	V-C	6588.	-0.6000	0.000	1.000	1.000
22.24	0.000	0.000	Strato1_2_8_L_0									
5 D	4.659	-1.2241E-02	33.11	23.29	33.11	23.29	V-C	6588.	-0.8000	0.000	1.000	1.000
23.29	0.000	0.000	Strato1_2_8_L_0									
6 D	5.163	-1.1854E-02	38.70	25.82	38.70	25.82	V-C	6588.	-1.000	0.000	1.000	1.000
25.82	0.000	0.000	Strato1_2_8_L_0									
7 D	5.401	-1.1468E-02	41.51	27.01	41.51	27.01	V-C	6588.	-1.200	0.000	1.000	1.000
27.01	0.000	0.000	Strato1_2_8_L_0									
8 D	5.850	-1.1083E-02	46.53	29.25	46.53	29.25	V-C	6588.	-1.400	0.000	1.000	1.000
29.25	0.000	0.000	Strato1_2_8_L_0									
9 D	6.022	-1.0699E-02	48.67	30.11	48.67	30.11	V-C	6588.	-1.600	0.000	1.000	1.000
30.11	0.000	0.000	Strato1_2_8_L_0									
10 D	6.451	-1.0316E-02	53.49	32.25	53.49	32.25	V-C	6588.	-1.800	0.000	1.000	1.000
32.25	0.000	0.000	Strato1_2_8_L_0									
11 D	6.724	-9.9344E-03	56.71	33.62	56.71	33.62	V-C	6588.	-2.000	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 284 di 1221				
33.62	0.000	0.000	Stratol1_2_8_L_0								
12 D	7.130	-9.5553E-03	61.31 35.65	61.31	35.65	V-C	6588.	-2.200	0.000	1.000	1.000
35.65	0.000	0.000	Stratol1_2_8_L_0								
13 D	7.407	-9.1788E-03	64.60 37.04	64.60	37.04	V-C	6588.	-2.400	0.000	1.000	1.000
37.04	0.000	0.000	Stratol1_2_8_L_0								
14 D	7.796	-8.8057E-03	69.07 38.98	69.07	38.98	V-C	6588.	-2.600	0.000	1.000	1.000
38.98	0.000	0.000	Stratol1_2_8_L_0								
15 D	8.074	-8.4365E-03	72.41 40.37	72.41	40.37	V-C	6588.	-2.800	0.000	1.000	1.000
40.37	0.000	0.000	Stratol1_2_8_L_0								
16 D	8.402	-8.0719E-03	76.30 42.01	76.30	42.01	V-C	6588.	-3.000	0.000	1.000	1.000
42.01	0.000	0.000	Stratol1_2_8_L_0								
17 D	8.682	-7.7126E-03	79.72 43.41	79.72	43.41	V-C	6588.	-3.200	0.000	1.000	1.000
43.41	0.000	0.000	Stratol1_2_8_L_0								
18 D	9.046	-7.3588E-03	84.04 45.23	84.04	45.23	V-C	6588.	-3.400	0.000	1.000	1.000
45.23	0.000	0.000	Stratol1_2_8_L_0								
19 D	9.326	-7.0105E-03	87.50 46.63	87.50	46.63	V-C	6588.	-3.600	0.000	1.000	1.000
46.63	0.000	0.000	Stratol1_2_8_L_0								
20 D	9.588	-6.6680E-03	91.76 47.94	91.76	48.63	UL-RL	1.9764E+04	-3.800	0.000	1.000	1.000
47.94	0.000	0.000	Stratol1_2_8_L_0								
21 D	9.690	-6.3316E-03	95.24 48.45	95.24	50.48	UL-RL	1.9764E+04	-4.000	0.000	1.000	1.000
48.45	0.000	0.000	Stratol1_2_8_L_0								
22 D	9.845	-6.0016E-03	99.45 49.23	99.45	52.71	UL-RL	1.9764E+04	-4.200	0.000	1.000	1.000
49.23	0.000	0.000	Stratol1_2_8_L_0								
23 D	9.948	-5.6784E-03	103.0 49.74	103.0	54.57	UL-RL	1.9764E+04	-4.400	0.000	1.000	1.000
49.74	0.000	0.000	Stratol1_2_8_L_0								
24 D	10.08	-5.3624E-03	106.8 50.40	106.8	56.61	UL-RL	1.9764E+04	-4.600	0.000	1.000	1.000
50.40	0.000	0.000	Stratol1_2_8_L_0								
25 D	10.19	-5.0541E-03	110.3 50.95	110.3	58.48	UL-RL	1.9764E+04	-4.800	0.000	1.000	1.000
50.95	0.000	0.000	Stratol1_2_8_L_0								
26 D	10.35	-4.7541E-03	114.5 51.75	114.5	60.68	UL-RL	1.9764E+04	-5.000	0.000	1.000	1.000
51.75	0.000	0.000	Stratol1_2_8_L_0								
27 D	10.47	-4.4626E-03	118.1 52.35	118.1	62.57	UL-RL	1.9764E+04	-5.200	0.000	1.000	1.000
52.35	0.000	0.000	Stratol1_2_8_L_0								
28 D	10.64	-4.1801E-03	122.2 53.19	122.2	64.75	UL-RL	1.9764E+04	-5.400	0.000	1.000	1.000
53.19	0.000	0.000	Stratol1_2_8_L_0								
29 D	10.77	-3.9069E-03	125.7 53.85	125.7	66.65	UL-RL	1.9764E+04	-5.600	0.000	1.000	1.000
53.85	0.000	0.000	Stratol1_2_8_L_0								
30 D	10.95	-3.6433E-03	129.8 54.74	129.8	68.82	UL-RL	1.9764E+04	-5.800	0.000	1.000	1.000
54.74	0.000	0.000	Stratol1_2_8_L_0								
31 D	11.07	-3.3897E-03	133.2 55.37	133.2	70.58	UL-RL	1.9764E+04	-6.000	0.000	1.000	1.000
55.37	0.000	0.000	Stratol1_2_8_L_0								
32 D	11.26	-3.1463E-03	137.3 56.32	137.3	72.75	UL-RL	1.9764E+04	-6.200	0.000	1.000	1.000
56.32	0.000	0.000	Stratol1_2_8_L_0								
33 D	11.42	-2.9131E-03	140.9 57.12	140.9	74.66	UL-RL	1.9764E+04	-6.400	0.000	1.000	1.000
57.12	0.000	0.000	Stratol1_2_8_L_0								
34 D	11.63	-2.6905E-03	144.9 58.13	144.9	76.81	UL-RL	1.9764E+04	-6.600	0.000	1.000	1.000
58.13	0.000	0.000	Stratol1_2_8_L_0								
35 D	11.80	-2.4785E-03	148.5 59.00	148.5	78.73	UL-RL	1.9764E+04	-6.800	0.000	1.000	1.000
59.00	0.000	0.000	Stratol1_2_8_L_0								
36 D	12.01	-2.2771E-03	152.6 60.06	152.6	80.87	UL-RL	1.9764E+04	-7.000	0.000	1.000	1.000
60.06	0.000	0.000	Stratol1_2_8_L_0								
37 D	12.20	-2.0865E-03	156.2 61.00	156.2	82.79	UL-RL	1.9764E+04	-7.200	0.000	1.000	1.000
61.00	0.000	0.000	Stratol1_2_8_L_0								
38 D	12.43	-1.9065E-03	160.2 62.13	160.2	84.93	UL-RL	1.9764E+04	-7.400	0.000	1.000	1.000
62.13	0.000	0.000	Stratol1_2_8_L_0								
39 D	12.61	-1.7372E-03	163.7 63.06	163.7	86.74	UL-RL	1.9764E+04	-7.600	0.000	1.000	1.000
63.06	0.000	0.000	Stratol1_2_8_L_0								
40 D	12.85	-1.5785E-03	167.7 64.24	167.7	88.88	UL-RL	1.9764E+04	-7.800	0.000	1.000	1.000
64.24	0.000	0.000	Stratol1_2_8_L_0								
41 D	13.06	-1.4302E-03	171.3 65.31	171.3	90.81	UL-RL	1.9764E+04	-8.000	0.000	1.000	1.000
65.31	0.000	0.000	Stratol1_2_8_L_0								
42 D	13.48	-1.2921E-03	175.3 67.39	175.3	92.93	UL-RL	1.9764E+04	-8.200	0.000	1.000	1.000
67.39	0.000	0.000	Stratol1_2_8_L_0								
43 D	14.37	-1.1641E-03	179.0 71.86	179.0	94.86	UL-RL	1.9764E+04	-8.400	0.000	1.000	1.000
71.86	0.000	0.000	Stratol1_2_8_L_0								
44 D	15.26	-1.0459E-03	183.0 76.31	183.0	96.98	UL-RL	1.9764E+04	-8.600	0.000	1.000	1.000
76.31	0.000	0.000	Stratol1_2_8_L_0								
45 D	16.08	-9.3710E-04	186.6 80.40	186.6	98.92	UL-RL	1.9764E+04	-8.800	0.000	1.000	1.000
80.40	0.000	0.000	Stratol1_2_8_L_0								
46 D	16.88	-8.3747E-04	190.5 84.40	190.5	100.9	UL-RL	1.9764E+04	-9.000	0.000	1.000	1.000
84.40	0.000	0.000	Stratol1_2_8_L_0								
47 D	17.63	-7.4665E-04	194.1 88.13	194.1	102.9	UL-RL	1.9764E+04	-9.200	0.000	1.000	1.000
88.13	0.000	0.000	Stratol1_2_8_L_0								
48 D	18.37	-6.6424E-04	198.1 91.87	198.1	105.0	UL-RL	1.9764E+04	-9.400	0.000	1.000	1.000
91.87	0.000	0.000	Stratol1_2_8_L_0								
49 D	19.06	-5.8988E-04	201.8 95.28	201.8	106.9	UL-RL	1.9764E+04	-9.600	0.000	1.000	1.000
95.28	0.000	0.000	Stratol1_2_8_L_0								
50 D	19.74	-5.2315E-04	205.8 98.71	205.8	109.1	UL-RL	1.9764E+04	-9.800	0.000	1.000	1.000
98.71	0.000	0.000	Stratol1_2_8_L_0								
51 D	20.37	-4.6364E-04	209.4 101.8	209.4	111.0	UL-RL	1.9764E+04	-10.00	0.000	1.000	1.000
101.8	0.000	0.000	Stratol1_2_8_L_0								
52 D	21.00	-4.1094E-04	213.4 105.0	213.4	113.1	UL-RL	1.9764E+04	-10.20	0.000	1.000	1.000
105.0	0.000	0.000	Stratol1_2_8_L_0								
53 D	21.57	-3.6463E-04	217.1 107.8	217.1	115.0	UL-RL	1.9764E+04	-10.40	0.000	1.000	1.000
107.8	0.000	0.000	Stratol1_2_8_L_0								



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 286 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A2M2R1_3514                                                                                       |
|          Exe Time :29 July 2019          17:58:40                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
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	not available									
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
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	not available									
19 D	0.1425	7.0105E-03	1.900	0.7125	68.40	36.25	ACTIVE	0.000	-3.600	0.000	1.000	1.000
0.7125	0.000	0.000	Stratol_2_8_L_0									
20 D	1.173	6.6680E-03	5.700	5.863	72.20	38.27	UL-RL	1.6728E+04	-3.800	0.000	1.000	1.000
5.863	0.000	0.000	Stratol_2_8_L_0									
21 D	3.617	6.3316E-03	9.500	18.08	76.00	40.28	UL-RL	1.6728E+04	-4.000	0.000	1.000	1.000
18.08	0.000	0.000	Stratol_2_8_L_0									
22 D	6.061	6.0016E-03	13.30	30.31	79.80	42.29	UL-RL	1.6728E+04	-4.200	0.000	1.000	1.000
30.31	0.000	0.000	Stratol_2_8_L_0									
23 D	8.505	5.6784E-03	17.10	42.53	83.60	51.95	UL-RL	1.6728E+04	-4.400	0.000	1.000	1.000
42.53	0.000	0.000	Stratol_2_8_L_0									
24 D	10.95	5.3624E-03	20.90	54.74	87.40	63.49	UL-RL	1.6728E+04	-4.600	0.000	1.000	1.000
54.74	0.000	0.000	Stratol_2_8_L_0									
25 D	13.39	5.0541E-03	24.70	66.94	91.20	75.04	UL-RL	1.6728E+04	-4.800	0.000	1.000	1.000
66.94	0.000	0.000	Stratol_2_8_L_0									
26 D	14.38	4.7541E-03	28.50	71.88	95.00	79.35	UL-RL	1.6728E+04	-5.000	0.000	1.000	1.000
71.88	0.000	0.000	Stratol_2_8_L_0									
27 D	14.54	4.4626E-03	32.30	72.69	98.80	79.53	UL-RL	1.6728E+04	-5.200	0.000	1.000	1.000
72.69	0.000	0.000	Stratol_2_8_L_0									
28 D	14.70	4.1801E-03	36.10	73.52	102.6	79.77	UL-RL	1.6728E+04	-5.400	0.000	1.000	1.000
73.52	0.000	0.000	Stratol_2_8_L_0									
29 D	14.88	3.9069E-03	39.90	74.40	106.4	80.07	UL-RL	1.6728E+04	-5.600	0.000	1.000	1.000
74.40	0.000	0.000	Stratol_2_8_L_0									
30 D	15.06	3.6433E-03	43.70	75.31	110.2	80.43	UL-RL	1.6728E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



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Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 287 di 1221
75.31	0.000	0.000	Strato1_2_8_L_0				
31 D	15.25	3.3897E-03	47.50 76.26	114.0	80.85	UL-RL 1.6728E+04	-6.000 0.000 1.000 1.000
76.26	0.000	0.000	Strato1_2_8_L_0				
32 D	15.45	3.1463E-03	51.30 77.24	117.8	81.34	UL-RL 1.6728E+04	-6.200 0.000 1.000 1.000
77.24	0.000	0.000	Strato1_2_8_L_0				
33 D	15.65	2.9131E-03	55.10 78.27	121.6	81.90	UL-RL 1.6728E+04	-6.400 0.000 1.000 1.000
78.27	0.000	0.000	Strato1_2_8_L_0				
34 D	15.87	2.6905E-03	58.90 79.33	125.4	82.53	UL-RL 1.6728E+04	-6.600 0.000 1.000 1.000
79.33	0.000	0.000	Strato1_2_8_L_0				
35 D	16.09	2.4785E-03	62.70 80.44	129.2	83.22	UL-RL 1.6728E+04	-6.800 0.000 1.000 1.000
80.44	0.000	0.000	Strato1_2_8_L_0				
36 D	16.32	2.2771E-03	66.50 81.58	133.0	83.99	UL-RL 1.6728E+04	-7.000 0.000 1.000 1.000
81.58	0.000	0.000	Strato1_2_8_L_0				
37 D	16.55	2.0865E-03	70.30 82.77	136.8	84.82	UL-RL 1.6728E+04	-7.200 0.000 1.000 1.000
82.77	0.000	0.000	Strato1_2_8_L_0				
38 D	16.80	1.9065E-03	74.10 84.00	140.6	85.72	UL-RL 1.6728E+04	-7.400 0.000 1.000 1.000
84.00	0.000	0.000	Strato1_2_8_L_0				
39 D	17.05	1.7372E-03	77.90 85.27	144.4	86.69	UL-RL 1.6728E+04	-7.600 0.000 1.000 1.000
85.27	0.000	0.000	Strato1_2_8_L_0				
40 D	17.32	1.5785E-03	81.70 86.58	148.2	87.73	UL-RL 1.6728E+04	-7.800 0.000 1.000 1.000
86.58	0.000	0.000	Strato1_2_8_L_0				
41 D	17.59	1.4302E-03	85.50 87.93	152.0	88.83	UL-RL 1.6728E+04	-8.000 0.000 1.000 1.000
87.93	0.000	0.000	Strato1_2_8_L_0				
42 D	17.87	1.2921E-03	89.30 89.33	155.8	90.00	UL-RL 1.6728E+04	-8.200 0.000 1.000 1.000
89.33	0.000	0.000	Strato1_2_8_L_0				
43 D	18.15	1.1641E-03	93.10 90.76	159.6	91.24	UL-RL 1.6728E+04	-8.400 0.000 1.000 1.000
90.76	0.000	0.000	Strato1_2_8_L_0				
44 D	18.45	1.0459E-03	96.90 92.24	163.4	92.53	UL-RL 1.6728E+04	-8.600 0.000 1.000 1.000
92.24	0.000	0.000	Strato1_2_8_L_0				
45 D	18.75	9.3710E-04	100.7 93.75	167.2	93.88	UL-RL 1.6728E+04	-8.800 0.000 1.000 1.000
93.75	0.000	0.000	Strato1_2_8_L_0				
46 D	19.06	8.3747E-04	104.5 95.30	171.0	95.30	V-C 5576.	-9.000 0.000 1.000 1.000
95.30	0.000	0.000	Strato1_2_8_L_0				
47 D	19.36	7.4665E-04	108.3 96.81	174.8	96.81	V-C 5576.	-9.200 0.000 1.000 1.000
96.81	0.000	0.000	Strato1_2_8_L_0				
48 D	19.67	6.6424E-04	112.1 98.36	178.6	98.36	V-C 5576.	-9.400 0.000 1.000 1.000
98.36	0.000	0.000	Strato1_2_8_L_0				
49 D	19.99	5.8988E-04	115.9 99.96	182.4	99.96	V-C 5576.	-9.600 0.000 1.000 1.000
99.96	0.000	0.000	Strato1_2_8_L_0				
50 D	20.32	5.2315E-04	119.7 101.6	186.2	101.6	V-C 5576.	-9.800 0.000 1.000 1.000
101.6	0.000	0.000	Strato1_2_8_L_0				
51 D	20.66	4.6364E-04	123.5 103.3	190.0	103.3	V-C 5576.	-10.00 0.000 1.000 1.000
103.3	0.000	0.000	Strato1_2_8_L_0				
52 D	21.00	4.1094E-04	127.3 105.0	193.8	105.0	V-C 5576.	-10.20 0.000 1.000 1.000
105.0	0.000	0.000	Strato1_2_8_L_0				
53 D	21.35	3.6463E-04	131.1 106.8	197.6	106.8	V-C 5576.	-10.40 0.000 1.000 1.000
106.8	0.000	0.000	Strato1_2_8_L_0				
54 D	21.64	3.2430E-04	134.9 108.2	201.4	108.7	UL-RL 1.6728E+04	-10.60 0.000 1.000 1.000
108.2	0.000	0.000	Strato1_2_8_L_0				
55 D	21.93	2.8952E-04	138.7 109.7	205.2	110.7	UL-RL 1.6728E+04	-10.80 0.000 1.000 1.000
109.7	0.000	0.000	Strato1_2_8_L_0				
56 D	22.25	2.5988E-04	142.5 111.2	209.0	112.7	UL-RL 1.6728E+04	-11.00 0.000 1.000 1.000
111.2	0.000	0.000	Strato1_2_8_L_0				
57 D	22.58	2.3498E-04	146.3 112.9	212.8	114.7	UL-RL 1.6728E+04	-11.20 0.000 1.000 1.000
112.9	0.000	0.000	Strato1_2_8_L_0				
58 D	22.92	2.1442E-04	150.1 114.6	216.6	116.7	UL-RL 1.6728E+04	-11.40 0.000 1.000 1.000
114.6	0.000	0.000	Strato1_2_8_L_0				
59 D	23.28	1.9782E-04	153.9 116.4	220.4	118.7	UL-RL 1.6728E+04	-11.60 0.000 1.000 1.000
116.4	0.000	0.000	Strato1_2_8_L_0				
60 D	23.65	1.8480E-04	157.7 118.2	224.2	120.7	UL-RL 1.6728E+04	-11.80 0.000 1.000 1.000
118.2	0.000	0.000	Strato1_2_8_L_0				
61 D	24.03	1.7500E-04	161.5 120.1	228.0	122.7	UL-RL 1.6728E+04	-12.00 0.000 1.000 1.000
120.1	0.000	0.000	Strato1_2_8_L_0				
62 D	24.41	1.6807E-04	165.3 122.1	231.8	124.7	UL-RL 1.6728E+04	-12.20 0.000 1.000 1.000
122.1	0.000	0.000	Strato1_2_8_L_0				
63 D	24.81	1.6369E-04	169.1 124.1	235.6	126.6	UL-RL 1.6728E+04	-12.40 0.000 1.000 1.000
124.1	0.000	0.000	Strato1_2_8_L_0				
64 D	21.56	1.6153E-04	172.9 107.8	239.4	119.7	UL-RL 3.7671E+04	-12.60 0.000 1.000 1.000
107.8	0.000	0.000	Strato2_3095_82743_L_0				
65 D	21.97	1.6129E-04	176.9 109.8	243.4	121.7	UL-RL 3.7671E+04	-12.80 0.000 1.000 1.000
109.8	0.000	0.000	Strato2_3095_82743_L_0				
66 D	22.38	1.6270E-04	180.9 111.9	247.4	123.7	UL-RL 3.7671E+04	-13.00 0.000 1.000 1.000
111.9	0.000	0.000	Strato2_3095_82743_L_0				
67 D	22.81	1.6549E-04	184.9 114.0	251.4	125.7	UL-RL 3.7671E+04	-13.20 0.000 1.000 1.000
114.0	0.000	0.000	Strato2_3095_82743_L_0				
68 D	23.24	1.6944E-04	188.9 116.2	255.4	127.7	UL-RL 3.7671E+04	-13.40 0.000 1.000 1.000
116.2	0.000	0.000	Strato2_3095_82743_L_0				
69 D	23.68	1.7435E-04	192.9 118.4	259.4	129.7	UL-RL 3.7671E+04	-13.60 0.000 1.000 1.000
118.4	0.000	0.000	Strato2_3095_82743_L_0				
70 D	24.13	1.8001E-04	196.9 120.6	263.4	131.7	UL-RL 3.7671E+04	-13.80 0.000 1.000 1.000
120.6	0.000	0.000	Strato2_3095_82743_L_0				
71 D	24.58	1.8628E-04	200.9 122.9	267.4	133.7	UL-RL 3.7671E+04	-14.00 0.000 1.000 1.000
122.9	0.000	0.000	Strato2_3095_82743_L_0				
72 D	25.04	1.9301E-04	204.9 125.2	271.4	135.7	UL-RL 3.7671E+04	-14.20 0.000 1.000 1.000
125.2	0.000	0.000	Strato2_3095_82743_L_0				

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  17:58:40  |
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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_33      :
ELEMENT TYPE      2 NO.OF ELEMENTS. IN THIS GROUP  90
C U R R E N T   T I M E   I S   3.0000

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	2.1550	-2.1550	-6.98819E-12	0.43100
2	5.7365	-5.7365	-0.43100	1.5783
3	9.5310	-9.5310	-1.5783	3.4845
4	13.979	-13.979	-3.4845	6.2802
5	18.637	-18.637	-6.2802	10.008
6	23.801	-23.801	-10.008	14.768
7	29.202	-29.202	-14.768	20.608
8	35.052	-35.052	-20.608	27.619
9	41.075	-41.075	-27.619	35.834
10	47.525	-47.525	-35.834	45.339
11	54.250	-54.250	-45.339	56.189
12	61.379	-61.379	-56.189	68.465
13	68.787	-68.787	-68.465	82.222
14	76.582	-76.582	-82.222	97.539
15	84.657	-84.657	-97.539	114.47
16	2.3195	-2.3195	-114.47	114.93
17	11.002	-11.002	-114.93	117.13
18	20.048	-20.048	-117.13	121.14
19	29.231	-29.231	-121.14	126.99
20	37.647	-37.647	-126.99	134.52
21	43.720	-43.720	-134.52	143.26
22	47.504	-47.504	-143.26	152.76
23	48.947	-48.947	-152.76	162.55
24	48.079	-48.079	-162.55	172.17
25	44.882	-44.882	-172.17	181.15
26	40.856	-40.856	-181.15	189.32
27	36.790	-36.790	-189.32	196.68
28	32.724	-32.724	-196.68	203.22
29	28.615	-28.615	-203.22	208.94
30	24.502	-24.502	-208.94	213.84
31	20.326	-20.326	-213.84	217.91
32	16.142	-16.142	-217.91	221.14
33	11.912	-11.912	-221.14	223.52
34	7.6710	-7.6710	-223.52	225.05
35	3.3826	-3.3826	-225.05	225.73
36	-0.92178	0.92178	-225.73	225.55
37	-5.2757	5.2757	-225.55	224.49
38	-9.6502	9.6502	-224.49	222.56
39	-14.092	14.092	-222.56	219.74
40	-18.560	18.560	-219.74	216.03
41	-23.084	23.084	-216.03	211.41
42	-27.471	27.471	-211.41	205.92
43	-31.252	31.252	-205.92	199.67
44	-34.438	34.438	-199.67	192.78
45	-37.109	37.109	-192.78	185.36
46	-39.289	39.289	-185.36	177.50
47	-41.025	41.025	-177.50	169.30
48	-42.323	42.323	-169.30	160.83
49	-43.258	43.258	-160.83	152.18
50	-43.836	43.836	-152.18	143.41
51	-44.127	44.127	-143.41	134.59
52	-44.133	44.133	-134.59	125.76
53	-43.917	43.917	-125.76	116.98
54	-43.420	43.420	-116.98	108.29
55	-42.695	42.695	-108.29	99.755
56	-41.748	41.748	-99.755	91.405
57	-40.643	40.643	-91.405	83.277
58	-39.381	39.381	-83.277	75.401
59	-38.019	38.019	-75.401	67.797
60	-36.556	36.556	-67.797	60.486
61	-35.055	35.055	-60.486	53.475
62	-33.496	33.496	-53.475	46.776
63	-31.922	31.922	-46.776	40.391

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
290 di 1221

64	-29.363	29.363	-40.391	34.518
65	-26.814	26.814	-34.518	29.156
66	-24.283	24.283	-29.156	24.299
67	-21.818	21.818	-24.299	19.936
68	-19.419	19.419	-19.936	16.052
69	-17.135	17.135	-16.052	12.625
70	-14.948	14.948	-12.625	9.6354
71	-12.890	12.890	-9.6354	7.0574
72	-10.948	10.948	-7.0574	4.8677
73	-9.1509	9.1509	-4.8677	3.0376
74	-7.4804	7.4804	-3.0376	1.5415
75	-5.9602	5.9602	-1.5415	0.34945
76	-4.5814	4.5814	-0.34945	-0.56683
77	-3.3541	3.3541	0.56683	-1.2376
78	-2.2580	2.2580	1.2376	-1.6892
79	-1.3115	1.3115	1.6892	-1.9515
80	-0.49384	0.49384	1.9515	-2.0503
81	0.17768	-0.17768	2.0503	-2.0148
82	0.72372	-0.72372	2.0148	-1.8700
83	1.1275	-1.1275	1.8700	-1.6445
84	1.4001	-1.4001	1.6445	-1.3645
85	1.5339	-1.5339	1.3645	-1.0577
86	1.5482	-1.5482	1.0577	-0.74807
87	1.4261	-1.4261	0.74807	-0.46285
88	1.1858	-1.1858	0.46285	-0.22568
89	0.81063	-0.81063	0.22568	-6.35576E-02
90	0.31779	-0.31779	6.35576E-02	-3.25473E-12

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      17:58:40
|
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New Project

STRESS RESULTS FOR GROUP NO. 4

```

Tirante1_429      :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
CURRENT TIME IS  3.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit		
ANCHOR	1	93.940	-8.08417E-04	-8.08417E-04	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      17:58:40
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New Project

STRESS RESULTS FOR GROUP NO. 5

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Tirante2_1507    :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
CURRENT TIME IS  3.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****								

```

ITER      0  RNORM = 0.000      RMNORM= 0.000
RINORM=0.2447E+06  RIMNOR=0.2773E+07
RENORM= 7658.      REMNOR=0.2411E-18  RATIO =0.1769      TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 90.74      RMMAX = 225.7
RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
RDT =0.2447E+06   RDR =0.2773E+07
RATIOT=0.1769     RATOR= 0.000
MAX UN= 18.45     IEQ=      87 NODE      44 DOF      1  Y-DISPL.F
MIN UN=-.3087E-08  IEQ=      9 NODE      5 DOF      1  Y-DISPL.F

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 291 di 1221
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NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2447E+06 RIMNOR=0.2773E+07
 RENORM= 1371. REMNOR=0.9303E-18 RATIO =0.7484E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 225.7
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.2447E+06 RDR =0.2773E+07
 RATIOT=0.7484E-01 RATIOR= 0.000
 MAX UN= 8.028 IEQ= 77 NODE 39 DOF 1 Y-DISPL.F
 MIN UN=-.1610E-08 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2447E+06 RIMNOR=0.2773E+07
 RENORM= 1547. REMNOR=0.4721E-17 RATIO =0.7952E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 225.7
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.2447E+06 RDR =0.2773E+07
 RATIOT=0.7952E-01 RATIOR= 0.000
 MAX UN= 15.47 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
 MIN UN=-.9287 IEQ= 179 NODE 90 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2447E+06 RIMNOR=0.2773E+07
 RENORM= 575.1 REMNOR=0.1724E-16 RATIO =0.4848E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 225.7
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.2447E+06 RDR =0.2773E+07
 RATIOT=0.4848E-01 RATIOR= 0.000
 MAX UN= 16.29 IEQ= 139 NODE 70 DOF 1 Y-DISPL.F
 MIN UN=-4.121 IEQ= 173 NODE 87 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2447E+06 RIMNOR=0.2773E+07
 RENORM= 8.205 REMNOR=0.1047E-16 RATIO =0.5790E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 225.7
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.2447E+06 RDR =0.2773E+07
 RATIOT=0.5790E-02 RATIOR= 0.000
 MAX UN= 2.852 IEQ= 149 NODE 75 DOF 1 Y-DISPL.F
 MIN UN=-.1920 IEQ= 167 NODE 84 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2447E+06 RIMNOR=0.2773E+07
 RENORM=0.3268E-02 REMNOR=0.5257E-17 RATIO =0.1156E-03 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 225.7
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.2447E+06 RDR =0.2773E+07
 RATIOT=0.1156E-03 RATIOR= 0.000
 MAX UN=0.1401E-07 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
 MIN UN=-.3754E-01 IEQ= 171 NODE 86 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 7 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2447E+06 RIMNOR=0.2773E+07
 RENORM=0.1633E-04 REMNOR=0.3455E-17 RATIO =0.8169E-05 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 90.74 RMMAX = 225.7
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.2447E+06 RDR =0.2773E+07
 RATIOT=0.8169E-05 RATIOR= 0.000
 MAX UN=0.2436E-02 IEQ= 149 NODE 75 DOF 1 Y-DISPL.F
 MIN UN=-.1337E-02 IEQ= 181 NODE 91 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
292 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                          |
|          NewProject.BaseDesignSection_28.A2M2R1_3514          |
|          Exe Time :29 July 2019          17:58:40          |
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New Project

SOLUTION REACHED USING 7 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 4 (AT TIME 4.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	6.4947473E-02	-3.9399556E-03	
2	6.4159484E-02	-3.9399305E-03	
3	6.3371507E-02	-3.9398179E-03	
4	6.2583568E-02	-3.9395390E-03	
5	6.1795709E-02	-3.9389976E-03	
6	6.1007994E-02	-3.9380801E-03	
7	6.0220510E-02	-3.9366588E-03	
8	5.9433373E-02	-3.9345908E-03	
9	5.8646728E-02	-3.9317194E-03	
10	5.7860750E-02	-3.9278750E-03	
11	5.7075655E-02	-3.9228757E-03	
12	5.6291690E-02	-3.9165254E-03	
13	5.5509148E-02	-3.9086139E-03	
14	5.4728364E-02	-3.8989170E-03	
15	5.3949717E-02	-3.8871967E-03	
16	5.3173637E-02	-3.8732011E-03	
17	5.2400286E-02	-3.8614503E-03	
18	5.1628606E-02	-3.8564514E-03	
19	5.0857275E-02	-3.8579127E-03	
20	5.0085031E-02	-3.8655288E-03	
21	4.9310675E-02	-3.8789806E-03	
22	4.8533072E-02	-3.8979351E-03	
23	4.7751157E-02	-3.9220456E-03	
24	4.6963938E-02	-3.9509516E-03	
25	4.6170485E-02	-3.9842799E-03	
26	4.5369957E-02	-4.0216437E-03	
27	4.4561586E-02	-4.0626427E-03	
28	4.3744685E-02	-4.1068628E-03	
29	4.2918658E-02	-4.1538760E-03	
30	4.2082982E-02	-4.2032414E-03	
31	4.1237235E-02	-4.2545037E-03	
32	4.0381085E-02	-4.3071945E-03	
33	3.9514294E-02	-4.3608324E-03	
34	3.8636722E-02	-4.4149220E-03	
35	3.7748334E-02	-4.4689544E-03	
36	3.6849184E-02	-4.5224075E-03	
37	3.5939445E-02	-4.5747449E-03	
38	3.5019397E-02	-4.6254167E-03	
39	3.4089427E-02	-4.6738597E-03	
40	3.3150045E-02	-4.7194967E-03	
41	3.2201859E-02	-4.7617383E-03	
42	3.1245597E-02	-4.7999814E-03	
43	3.0282156E-02	-4.8336071E-03	
44	2.9312509E-02	-4.8619852E-03	
45	2.8337759E-02	-4.8844715E-03	
46	2.7359155E-02	-4.9004351E-03	
47	2.6378057E-02	-4.9093142E-03	
48	2.5395932E-02	-4.9106432E-03	
49	2.4414333E-02	-4.9040527E-03	
50	2.3434862E-02	-4.8892691E-03	
51	2.2459183E-02	-4.8661149E-03	
52	2.1488970E-02	-4.8345084E-03	
53	2.0525933E-02	-4.7944646E-03	
54	1.9571740E-02	-4.7460938E-03	
55	1.8628037E-02	-4.6896030E-03	
56	1.7696420E-02	-4.6252953E-03	
57	1.6778413E-02	-4.5535697E-03	
58	1.5875453E-02	-4.4749214E-03	
59	1.4988868E-02	-4.3899193E-03	
60	1.4119870E-02	-4.2991506E-03	
61	1.3269554E-02	-4.2031892E-03	
62	1.2438903E-02	-4.1025959E-03	
63	1.1628788E-02	-3.9979192E-03	
64	1.0839972E-02	-3.8896952E-03	
65	1.0073098E-02	-3.7786538E-03	
66	9.3286371E-03	-3.6657098E-03	
67	8.6068814E-03	-3.5517507E-03	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 294 di 1221						
18 D	6.303	-5.1629E-02	84.04 31.52	84.04	45.23	ACTIVE	0.000	-3.400	0.000	1.000	1.000
31.52	0.000	0.000	Stratol_2_8_L_0								
19 D	6.562	-5.0857E-02	87.50 32.81	87.50	46.63	ACTIVE	0.000	-3.600	0.000	1.000	1.000
32.81	0.000	0.000	Stratol_2_8_L_0								
20 D	6.882	-5.0085E-02	91.76 34.41	91.76	48.63	ACTIVE	0.000	-3.800	0.000	1.000	1.000
34.41	0.000	0.000	Stratol_2_8_L_0								
21 D	7.143	-4.9311E-02	95.24 35.72	95.24	50.48	ACTIVE	0.000	-4.000	0.000	1.000	1.000
35.72	0.000	0.000	Stratol_2_8_L_0								
22 D	7.459	-4.8533E-02	99.45 37.29	99.45	52.71	ACTIVE	0.000	-4.200	0.000	1.000	1.000
37.29	0.000	0.000	Stratol_2_8_L_0								
23 D	7.722	-4.7751E-02	103.0 38.61	103.0	54.57	ACTIVE	0.000	-4.400	0.000	1.000	1.000
38.61	0.000	0.000	Stratol_2_8_L_0								
24 D	8.011	-4.6964E-02	106.8 40.05	106.8	56.61	ACTIVE	0.000	-4.600	0.000	1.000	1.000
40.05	0.000	0.000	Stratol_2_8_L_0								
25 D	8.276	-4.6170E-02	110.3 41.38	110.3	58.48	ACTIVE	0.000	-4.800	0.000	1.000	1.000
41.38	0.000	0.000	Stratol_2_8_L_0								
26 D	8.587	-4.5370E-02	114.5 42.94	114.5	60.68	ACTIVE	0.000	-5.000	0.000	1.000	1.000
42.94	0.000	0.000	Stratol_2_8_L_0								
27 D	8.854	-4.4562E-02	118.1 44.27	118.1	62.57	ACTIVE	0.000	-5.200	0.000	1.000	1.000
44.27	0.000	0.000	Stratol_2_8_L_0								
28 D	9.163	-4.3745E-02	122.2 45.82	122.2	64.75	ACTIVE	0.000	-5.400	0.000	1.000	1.000
45.82	0.000	0.000	Stratol_2_8_L_0								
29 D	9.431	-4.2919E-02	125.7 47.15	125.7	66.65	ACTIVE	0.000	-5.600	0.000	1.000	1.000
47.15	0.000	0.000	Stratol_2_8_L_0								
30 D	9.738	-4.2083E-02	129.8 48.69	129.8	68.82	ACTIVE	0.000	-5.800	0.000	1.000	1.000
48.69	0.000	0.000	Stratol_2_8_L_0								
31 D	9.988	-4.1237E-02	133.2 49.94	133.2	70.58	ACTIVE	0.000	-6.000	0.000	1.000	1.000
49.94	0.000	0.000	Stratol_2_8_L_0								
32 D	10.29	-4.0381E-02	137.3 51.47	137.3	72.75	ACTIVE	0.000	-6.200	0.000	1.000	1.000
51.47	0.000	0.000	Stratol_2_8_L_0								
33 D	10.56	-3.9514E-02	140.9 52.82	140.9	74.66	ACTIVE	0.000	-6.400	0.000	1.000	1.000
52.82	0.000	0.000	Stratol_2_8_L_0								
34 D	10.87	-3.8637E-02	144.9 54.35	144.9	76.81	ACTIVE	0.000	-6.600	0.000	1.000	1.000
54.35	0.000	0.000	Stratol_2_8_L_0								
35 D	11.14	-3.7748E-02	148.5 55.70	148.5	78.73	ACTIVE	0.000	-6.800	0.000	1.000	1.000
55.70	0.000	0.000	Stratol_2_8_L_0								
36 D	11.44	-3.6849E-02	152.6 57.22	152.6	80.87	ACTIVE	0.000	-7.000	0.000	1.000	1.000
57.22	0.000	0.000	Stratol_2_8_L_0								
37 D	11.72	-3.5939E-02	156.2 58.58	156.2	82.79	ACTIVE	0.000	-7.200	0.000	1.000	1.000
58.58	0.000	0.000	Stratol_2_8_L_0								
38 D	12.02	-3.5019E-02	160.2 60.09	160.2	84.93	ACTIVE	0.000	-7.400	0.000	1.000	1.000
60.09	0.000	0.000	Stratol_2_8_L_0								
39 D	12.28	-3.4089E-02	163.7 61.38	163.7	86.74	ACTIVE	0.000	-7.600	0.000	1.000	1.000
61.38	0.000	0.000	Stratol_2_8_L_0								
40 D	12.58	-3.3150E-02	167.7 62.88	167.7	88.88	ACTIVE	0.000	-7.800	0.000	1.000	1.000
62.88	0.000	0.000	Stratol_2_8_L_0								
41 D	12.85	-3.2202E-02	171.3 64.25	171.3	90.81	ACTIVE	0.000	-8.000	0.000	1.000	1.000
64.25	0.000	0.000	Stratol_2_8_L_0								
42 D	13.15	-3.1246E-02	175.3 65.75	175.3	92.93	ACTIVE	0.000	-8.200	0.000	1.000	1.000
65.75	0.000	0.000	Stratol_2_8_L_0								
43 D	13.42	-3.0282E-02	179.0 67.12	179.0	94.86	ACTIVE	0.000	-8.400	0.000	1.000	1.000
67.12	0.000	0.000	Stratol_2_8_L_0								
44 D	13.72	-2.9313E-02	183.0 68.62	183.0	96.98	ACTIVE	0.000	-8.600	0.000	1.000	1.000
68.62	0.000	0.000	Stratol_2_8_L_0								
45 D	14.00	-2.8338E-02	186.6 69.99	186.6	98.92	ACTIVE	0.000	-8.800	0.000	1.000	1.000
69.99	0.000	0.000	Stratol_2_8_L_0								
46 D	14.29	-2.7359E-02	190.5 71.43	190.5	100.9	ACTIVE	0.000	-9.000	0.000	1.000	1.000
71.43	0.000	0.000	Stratol_2_8_L_0								
47 D	14.56	-2.6378E-02	194.1 72.80	194.1	102.9	ACTIVE	0.000	-9.200	0.000	1.000	1.000
72.80	0.000	0.000	Stratol_2_8_L_0								
48 D	14.86	-2.5396E-02	198.1 74.29	198.1	105.0	ACTIVE	0.000	-9.400	0.000	1.000	1.000
74.29	0.000	0.000	Stratol_2_8_L_0								
49 D	15.13	-2.4414E-02	201.8 75.67	201.8	106.9	ACTIVE	0.000	-9.600	0.000	1.000	1.000
75.67	0.000	0.000	Stratol_2_8_L_0								
50 D	15.43	-2.3435E-02	205.8 77.16	205.8	109.1	ACTIVE	0.000	-9.800	0.000	1.000	1.000
77.16	0.000	0.000	Stratol_2_8_L_0								
51 D	15.71	-2.2459E-02	209.4 78.53	209.4	111.0	ACTIVE	0.000	-10.00	0.000	1.000	1.000
78.53	0.000	0.000	Stratol_2_8_L_0								
52 D	16.00	-2.1489E-02	213.4 80.02	213.4	113.1	ACTIVE	0.000	-10.20	0.000	1.000	1.000
80.02	0.000	0.000	Stratol_2_8_L_0								
53 D	16.28	-2.0526E-02	217.1 81.40	217.1	115.0	ACTIVE	0.000	-10.40	0.000	1.000	1.000
81.40	0.000	0.000	Stratol_2_8_L_0								
54 D	16.57	-1.9572E-02	220.9 82.83	220.9	117.1	ACTIVE	0.000	-10.60	0.000	1.000	1.000
82.83	0.000	0.000	Stratol_2_8_L_0								
55 D	16.84	-1.8628E-02	224.6 84.21	224.6	119.0	ACTIVE	0.000	-10.80	0.000	1.000	1.000
84.21	0.000	0.000	Stratol_2_8_L_0								
56 D	17.14	-1.7696E-02	228.5 85.70	228.5	121.1	ACTIVE	0.000	-11.00	0.000	1.000	1.000
85.70	0.000	0.000	Stratol_2_8_L_0								
57 D	17.42	-1.6778E-02	232.2 87.08	232.2	123.1	ACTIVE	0.000	-11.20	0.000	1.000	1.000
87.08	0.000	0.000	Stratol_2_8_L_0								
58 D	17.71	-1.5875E-02	236.2 88.56	236.2	125.2	ACTIVE	0.000	-11.40	0.000	1.000	1.000
88.56	0.000	0.000	Stratol_2_8_L_0								
59 D	17.99	-1.4989E-02	239.9 89.94	239.9	127.1	ACTIVE	0.000	-11.60	0.000	1.000	1.000
89.94	0.000	0.000	Stratol_2_8_L_0								
60 D	18.28	-1.4120E-02	243.8 91.42	243.8	129.2	ACTIVE	0.000	-11.80	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 295 di 1221						
91.42	0.000	0.000	Strato1_2_8_L_0								
61 D	18.55	-1.3270E-02	247.4 92.76	247.4	131.1	ACTIVE	0.000	-12.00	0.000	1.000	1.000
92.76	0.000	0.000	Strato1_2_8_L_0								
62 D	18.85	-1.2439E-02	251.3 94.24	251.3	133.2	ACTIVE	0.000	-12.20	0.000	1.000	1.000
94.24	0.000	0.000	Strato1_2_8_L_0								
63 D	19.13	-1.1629E-02	255.0 95.63	255.0	135.2	ACTIVE	0.000	-12.40	0.000	1.000	1.000
95.63	0.000	0.000	Strato1_2_8_L_0								
64 D	12.03	-1.0840E-02	258.9 60.15	258.9	129.5	ACTIVE	0.000	-12.60	0.000	1.000	1.000
60.15	0.000	0.000	Strato2_3095_82743_L_0								
65 D	12.26	-1.0073E-02	262.8 61.32	262.8	131.4	ACTIVE	0.000	-12.80	0.000	1.000	1.000
61.32	0.000	0.000	Strato2_3095_82743_L_0								
66 D	12.51	-9.3286E-03	267.0 62.56	267.0	133.5	ACTIVE	0.000	-13.00	0.000	1.000	1.000
62.56	0.000	0.000	Strato2_3095_82743_L_0								
67 D	12.75	-8.6069E-03	270.9 63.73	270.9	135.4	ACTIVE	0.000	-13.20	0.000	1.000	1.000
63.73	0.000	0.000	Strato2_3095_82743_L_0								
68 D	12.99	-7.9080E-03	275.0 64.97	275.0	137.5	ACTIVE	0.000	-13.40	0.000	1.000	1.000
64.97	0.000	0.000	Strato2_3095_82743_L_0								
69 D	13.22	-7.2318E-03	278.8 66.11	278.8	139.4	ACTIVE	0.000	-13.60	0.000	1.000	1.000
66.11	0.000	0.000	Strato2_3095_82743_L_0								
70 D	13.47	-6.5782E-03	282.9 67.35	282.9	141.5	UL-RL	2.2067E+04	-13.80	0.000	1.000	1.000
67.35	0.000	0.000	Strato2_3095_82743_L_0								
71 D	13.70	-5.9468E-03	286.8 68.52	286.8	143.4	UL-RL	2.2067E+04	-14.00	0.000	1.000	1.000
68.52	0.000	0.000	Strato2_3095_82743_L_0								
72 D	13.95	-5.3369E-03	290.9 69.76	290.9	145.5	UL-RL	2.2067E+04	-14.20	0.000	1.000	1.000
69.76	0.000	0.000	Strato2_3095_82743_L_0								
73 D	14.19	-4.7481E-03	294.9 70.94	294.9	147.4	UL-RL	2.2067E+04	-14.40	0.000	1.000	1.000
70.94	0.000	0.000	Strato2_3095_82743_L_0								
74 D	14.43	-4.1794E-03	299.0 72.17	299.0	149.5	UL-RL	2.2067E+04	-14.60	0.000	1.000	1.000
72.17	0.000	0.000	Strato2_3095_82743_L_0								
75 D	14.67	-3.6298E-03	302.9 73.35	302.9	151.4	UL-RL	2.2067E+04	-14.80	0.000	1.000	1.000
73.35	0.000	0.000	Strato2_3095_82743_L_0								
76 D	15.56	-3.0983E-03	306.9 77.79	306.9	153.5	UL-RL	2.2067E+04	-15.00	0.000	1.000	1.000
77.79	0.000	0.000	Strato2_3095_82743_L_0								
77 D	18.17	-2.5835E-03	310.8 90.86	310.8	155.4	UL-RL	2.2067E+04	-15.20	0.000	1.000	1.000
90.86	0.000	0.000	Strato2_3095_82743_L_0								
78 D	20.74	-2.0842E-03	314.9 103.7	314.9	157.5	UL-RL	2.2067E+04	-15.40	0.000	1.000	1.000
103.7	0.000	0.000	Strato2_3095_82743_L_0								
79 D	23.22	-1.5988E-03	318.8 116.1	318.8	159.4	UL-RL	2.2067E+04	-15.60	0.000	1.000	1.000
116.1	0.000	0.000	Strato2_3095_82743_L_0								
80 D	25.67	-1.1258E-03	323.0 128.4	323.0	161.5	UL-RL	2.2067E+04	-15.80	0.000	1.000	1.000
128.4	0.000	0.000	Strato2_3095_82743_L_0								
81 D	28.06	-6.6371E-04	326.9 140.3	326.9	163.4	UL-RL	2.2067E+04	-16.00	0.000	1.000	1.000
140.3	0.000	0.000	Strato2_3095_82743_L_0								
82 D	30.42	-2.1095E-04	331.0 152.1	331.0	165.5	UL-RL	2.2067E+04	-16.20	0.000	1.000	1.000
152.1	0.000	0.000	Strato2_3095_82743_L_0								
83 D	32.73	2.3399E-04	334.9 163.6	334.9	167.4	UL-RL	2.2067E+04	-16.40	0.000	1.000	1.000
163.6	0.000	0.000	Strato2_3095_82743_L_0								
84 D	34.03	6.7255E-04	338.9 170.1	338.9	171.9	UL-RL	2.2067E+04	-16.60	0.000	1.000	1.000
170.1	0.000	0.000	Strato2_3095_82743_L_0								
85 D	35.23	1.1061E-03	342.8 176.2	342.8	176.5	UL-RL	2.2067E+04	-16.80	0.000	1.000	1.000
176.2	0.000	0.000	Strato2_3095_82743_L_0								
86 D	36.28	1.5358E-03	346.9 181.4	346.9	181.6	UL-RL	2.2067E+04	-17.00	0.000	1.000	1.000
181.4	0.000	0.000	Strato2_3095_82743_L_0								
87 D	37.29	1.9627E-03	350.9 186.4	350.9	186.6	UL-RL	2.2067E+04	-17.20	0.000	1.000	1.000
186.4	0.000	0.000	Strato2_3095_82743_L_0								
88 D	38.32	2.3879E-03	355.0 191.6	355.0	191.7	UL-RL	2.2067E+04	-17.40	0.000	1.000	1.000
191.6	0.000	0.000	Strato2_3095_82743_L_0								
89 D	39.32	2.8119E-03	358.9 196.6	358.9	196.7	UL-RL	2.2067E+04	-17.60	0.000	1.000	1.000
196.6	0.000	0.000	Strato2_3095_82743_L_0								
90 D	40.35	3.2355E-03	363.0 201.8	363.0	201.8	UL-RL	2.2067E+04	-17.80	0.000	1.000	1.000
201.8	0.000	0.000	Strato2_3095_82743_L_0								
91 D	20.67	3.6589E-03	366.8 206.7	366.8	206.7	V-C	7356.	-18.00	0.000	1.000	1.000
206.7	0.000	0.000	Strato2_3095_82743_L_0								



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 296 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                       |
|          NewProject.BaseDesignSection_28.A2M2R1_3514          |
|          Exe Time :29 July 2019          17:58:40          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.2000	0.000	1.000	1.000
2	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.6000	0.000	1.000	1.000
3	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.000	0.000	1.000	1.000
4	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.400	0.000	1.000	1.000
5	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.800	0.000	1.000	1.000
6	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.200	0.000	1.000	1.000
7	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.600	0.000	1.000	1.000
8	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.000	0.000	1.000	1.000
9	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.400	0.000	1.000	1.000
10	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.800	0.000	1.000	1.000
11	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
12	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
13	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
14	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000
15	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.800	0.000	1.000	1.000
16	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
17	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
18	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
19	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
20	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
21	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
22	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
23	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
24	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
25	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
26	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
27	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
28	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
29	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
30	0.000	--	--	--	--	--	REMOVED	--				

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 297 di 1221
0.000	0.000	0.000	not available		
31	0.000	--	--	--	--
0.000	0.000	0.000	not available		
32	0.000	--	--	--	--
0.000	0.000	0.000	not available		
33	0.000	--	--	--	--
0.000	0.000	0.000	not available		
34	0.000	--	--	--	--
0.000	0.000	0.000	not available		
35	0.000	--	--	--	--
0.000	0.000	0.000	not available		
36	0.000	--	--	--	--
0.000	0.000	0.000	not available		
37	0.000	--	--	--	--
0.000	0.000	0.000	not available		
38	0.000	--	--	--	--
0.000	0.000	0.000	not available		
39	0.000	--	--	--	--
0.000	0.000	0.000	not available		
40	0.000	--	--	--	--
0.000	0.000	0.000	not available		
41	0.000	--	--	--	--
0.000	0.000	0.000	not available		
42	0.000	--	--	--	--
0.000	0.000	0.000	not available		
43	0.000	--	--	--	--
0.000	0.000	0.000	not available		
44	0.000	--	--	--	--
0.000	0.000	0.000	not available		
45 D	1.154	2.8338E-02	1.900 5.772	167.2	93.88
5.772	0.000	0.000	Strato1_2_8_L_0		
46 D	3.463	2.7359E-02	5.700 17.32	171.0	95.30
17.32	0.000	0.000	Strato1_2_8_L_0		
47 D	5.772	2.6378E-02	9.500 28.86	174.8	96.81
28.86	0.000	0.000	Strato1_2_8_L_0		
48 D	8.081	2.5396E-02	13.30 40.41	178.6	98.36
40.41	0.000	0.000	Strato1_2_8_L_0		
49 D	10.39	2.4414E-02	17.10 51.95	182.4	99.96
51.95	0.000	0.000	Strato1_2_8_L_0		
50 D	12.70	2.3435E-02	20.90 63.49	186.2	101.6
63.49	0.000	0.000	Strato1_2_8_L_0		
51 D	15.01	2.2459E-02	24.70 75.04	190.0	103.3
75.04	0.000	0.000	Strato1_2_8_L_0		
52 D	17.32	2.1489E-02	28.50 86.58	193.8	105.0
86.58	0.000	0.000	Strato1_2_8_L_0		
53 D	19.63	2.0526E-02	32.30 98.13	197.6	106.8
98.13	0.000	0.000	Strato1_2_8_L_0		
54 D	21.93	1.9572E-02	36.10 109.7	201.4	109.7
109.7	0.000	0.000	Strato1_2_8_L_0		
55 D	24.24	1.8628E-02	39.90 121.2	205.2	121.2
121.2	0.000	0.000	Strato1_2_8_L_0		
56 D	26.55	1.7696E-02	43.70 132.8	209.0	132.8
132.8	0.000	0.000	Strato1_2_8_L_0		
57 D	28.86	1.6778E-02	47.50 144.3	212.8	144.3
144.3	0.000	0.000	Strato1_2_8_L_0		
58 D	30.22	1.5875E-02	51.30 151.1	216.6	151.1
151.1	0.000	0.000	Strato1_2_8_L_0		
59 D	30.22	1.4989E-02	55.10 151.1	220.4	151.1
151.1	0.000	0.000	Strato1_2_8_L_0		
60 D	30.22	1.4120E-02	58.90 151.1	224.2	151.1
151.1	0.000	0.000	Strato1_2_8_L_0		
61 D	30.24	1.3270E-02	62.70 151.2	228.0	151.2
151.2	0.000	0.000	Strato1_2_8_L_0		
62 D	30.26	1.2439E-02	66.50 151.3	231.8	151.3
151.3	0.000	0.000	Strato1_2_8_L_0		
63 D	30.30	1.1629E-02	70.30 151.5	235.6	151.5
151.5	0.000	0.000	Strato1_2_8_L_0		
64 D	31.59	1.0840E-02	74.10 158.0	239.4	158.0
158.0	0.000	0.000	Strato2_3095_82743_L_0		
65 D	31.24	1.0073E-02	78.10 156.2	243.4	156.2
156.2	0.000	0.000	Strato2_3095_82743_L_0		
66 D	30.91	9.3286E-03	82.10 154.6	247.4	154.6
154.6	0.000	0.000	Strato2_3095_82743_L_0		
67 D	30.61	8.6069E-03	86.10 153.0	251.4	153.0
153.0	0.000	0.000	Strato2_3095_82743_L_0		
68 D	30.33	7.9080E-03	90.10 151.6	255.4	151.6
151.6	0.000	0.000	Strato2_3095_82743_L_0		
69 D	30.07	7.2318E-03	94.10 150.3	259.4	150.3
150.3	0.000	0.000	Strato2_3095_82743_L_0		
70 D	29.83	6.5782E-03	98.10 149.2	263.4	149.2
149.2	0.000	0.000	Strato2_3095_82743_L_0		
71 D	29.62	5.9468E-03	102.1 148.1	267.4	148.1
148.1	0.000	0.000	Strato2_3095_82743_L_0		
72 D	29.43	5.3369E-03	106.1 147.2	271.4	147.2
147.2	0.000	0.000	Strato2_3095_82743_L_0		



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 298 di 1221
73 D 29.26 4.7481E-03 110.1 146.3 275.4 146.3 UL-RL 1.5155E+04 -14.40 0.000 1.000 1.000					
146.3 0.000 0.000 Strato2_3095_82743_L_0					
74 D 29.11 4.1794E-03 114.1 145.6 279.4 145.6 UL-RL 1.5155E+04 -14.60 0.000 1.000 1.000					
145.6 0.000 0.000 Strato2_3095_82743_L_0					
75 D 28.98 3.6298E-03 118.1 144.9 283.4 144.9 UL-RL 1.5155E+04 -14.80 0.000 1.000 1.000					
144.9 0.000 0.000 Strato2_3095_82743_L_0					
76 D 28.87 3.0983E-03 122.1 144.3 287.4 144.3 UL-RL 1.5155E+04 -15.00 0.000 1.000 1.000					
144.3 0.000 0.000 Strato2_3095_82743_L_0					
77 D 28.04 2.5835E-03 126.1 140.2 291.4 145.7 UL-RL 1.5155E+04 -15.20 0.000 1.000 1.000					
140.2 0.000 0.000 Strato2_3095_82743_L_0					
78 D 26.99 2.0842E-03 130.1 135.0 295.4 147.7 UL-RL 1.5155E+04 -15.40 0.000 1.000 1.000					
135.0 0.000 0.000 Strato2_3095_82743_L_0					
79 D 25.99 1.5988E-03 134.1 129.9 299.4 149.7 UL-RL 1.5155E+04 -15.60 0.000 1.000 1.000					
129.9 0.000 0.000 Strato2_3095_82743_L_0					
80 D 25.02 1.1258E-03 138.1 125.1 303.4 151.7 UL-RL 1.5155E+04 -15.80 0.000 1.000 1.000					
125.1 0.000 0.000 Strato2_3095_82743_L_0					
81 D 24.08 6.6371E-04 142.1 120.4 307.4 153.7 UL-RL 1.5155E+04 -16.00 0.000 1.000 1.000					
120.4 0.000 0.000 Strato2_3095_82743_L_0					
82 D 23.17 2.1095E-04 146.1 115.9 311.4 155.7 UL-RL 1.5155E+04 -16.20 0.000 1.000 1.000					
115.9 0.000 0.000 Strato2_3095_82743_L_0					
83 D 22.28 -2.3399E-04 150.1 111.4 315.4 157.7 UL-RL 1.5155E+04 -16.40 0.000 1.000 1.000					
111.4 0.000 0.000 Strato2_3095_82743_L_0					
84 D 21.41 -6.7255E-04 154.1 107.1 319.4 159.7 UL-RL 1.5155E+04 -16.60 0.000 1.000 1.000					
107.1 0.000 0.000 Strato2_3095_82743_L_0					
85 D 20.56 -1.1061E-03 158.1 102.8 323.4 161.7 UL-RL 1.5155E+04 -16.80 0.000 1.000 1.000					
102.8 0.000 0.000 Strato2_3095_82743_L_0					
86 D 19.71 -1.5358E-03 162.1 98.55 327.4 163.7 UL-RL 1.5155E+04 -17.00 0.000 1.000 1.000					
98.55 0.000 0.000 Strato2_3095_82743_L_0					
87 D 18.87 -1.9627E-03 166.1 94.35 331.4 165.7 UL-RL 1.5155E+04 -17.20 0.000 1.000 1.000					
94.35 0.000 0.000 Strato2_3095_82743_L_0					
88 D 18.04 -2.3879E-03 170.1 90.18 335.4 167.7 UL-RL 1.5155E+04 -17.40 0.000 1.000 1.000					
90.18 0.000 0.000 Strato2_3095_82743_L_0					
89 D 17.20 -2.8119E-03 174.1 86.02 339.4 169.7 UL-RL 1.5155E+04 -17.60 0.000 1.000 1.000					
86.02 0.000 0.000 Strato2_3095_82743_L_0					
90 D 16.37 -3.2355E-03 178.1 81.86 343.4 171.7 UL-RL 1.5155E+04 -17.80 0.000 1.000 1.000					
81.86 0.000 0.000 Strato2_3095_82743_L_0					
91 D 7.771 -3.6589E-03 182.1 77.71 347.4 173.7 UL-RL 1.5155E+04 -18.00 0.000 1.000 1.000					
77.71 0.000 0.000 Strato2_3095_82743_L_0					

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                       |
|          NewProject.BaseDesignSection_28.A2M2R1_3514          |
|          Exe Time :29 July 2019          17:58:40          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1 1.0575 -1.0575 -5.24076E-11 0.21150				
2 2.6250 -2.6250 -0.21150 0.73650				
3 4.3831 -4.3831 -0.73650 1.6131				
4 6.6770 -6.6770 -1.6131 2.9485				
5 9.1603 -9.1603 -2.9485 4.7806				
6 12.063 -12.063 -4.7806 7.1932				
7 15.177 -15.177 -7.1932 10.229				
8 18.667 -18.667 -10.229 13.962				
9 22.317 -22.317 -13.962 18.425				
10 26.329 -26.329 -18.425 23.691				
11 30.582 -30.582 -23.691 29.807				
12 35.180 -35.180 -29.807 36.843				
13 40.025 -40.025 -36.843 44.848				
14 45.205 -45.205 -44.848 53.889				
15 50.636 -50.636 -53.889 64.017				
16 -145.19 145.19 -64.017 34.978				
17 -139.21 139.21 -34.978 7.1356				
18 -132.91 132.91 -7.1356 -19.446				
19 -126.35 126.35 19.446 -44.716				
20 -119.47 119.47 44.716 -68.609				
21 -112.32 112.32 68.609 -91.073				
22 -104.86 104.86 91.073 -112.05				
23 -97.142 97.142 112.05 -131.47				
24 -89.131 89.131 131.47 -149.30				

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 299 di 1221
25	-80.855	80.855	149.30	-165.47	
26	-72.268	72.268	165.47	-179.93	
27	-63.414	63.414	179.93	-192.61	
28	-54.250	54.250	192.61	-203.46	
29	-44.819	44.819	203.46	-212.42	
30	-35.081	35.081	212.42	-219.44	
31	-25.093	25.093	219.44	-224.46	
32	-14.798	14.798	224.46	-227.42	
33	-4.2336	4.2336	227.42	-228.26	
34	6.6359	-6.6359	228.26	-226.94	
35	17.776	-17.776	226.94	-223.38	
36	29.220	-29.220	223.38	-217.54	
37	40.935	-40.935	217.54	-209.35	
38	52.953	-52.953	209.35	-198.76	
39	65.228	-65.228	198.76	-185.71	
40	77.805	-77.805	185.71	-170.15	
41	90.655	-90.655	170.15	-152.02	
42	103.81	-103.81	152.02	-131.26	
43	117.23	-117.23	131.26	-107.81	
44	130.95	-130.95	107.81	-81.623	
45	143.80	-143.80	81.623	-52.863	
46	154.62	-154.62	52.863	-21.939	
47	163.41	-163.41	21.939	10.743	
48	170.18	-170.18	-10.743	44.779	
49	174.93	-174.93	-44.779	79.765	
50	177.66	-177.66	-79.765	115.30	
51	178.36	-178.36	-115.30	150.97	
52	177.05	-177.05	-150.97	186.38	
53	173.70	-173.70	-186.38	221.12	
54	168.34	-168.34	-221.12	254.79	
55	160.94	-160.94	-254.79	286.97	
56	151.52	-151.52	-286.97	317.28	
57	140.08	-140.08	-317.28	345.29	
58	127.56	-127.56	-345.29	370.81	
59	115.33	-115.33	-370.81	393.87	
60	103.40	-103.40	-393.87	414.55	
61	91.711	-91.711	-414.55	432.90	
62	80.296	-80.296	-432.90	448.95	
63	69.121	-69.121	-448.95	462.78	
64	49.558	-49.558	-462.78	472.69	
65	30.581	-30.581	-472.69	478.81	
66	12.180	-12.180	-478.81	481.24	
67	-5.6812	5.6812	-481.24	480.11	
68	-23.014	23.014	-480.11	475.50	
69	-39.861	39.861	-475.50	467.53	
70	-56.226	56.226	-467.53	456.29	
71	-72.144	72.144	-456.29	441.86	
72	-87.624	87.624	-441.86	424.33	
73	-102.70	102.70	-424.33	403.79	
74	-117.38	117.38	-403.79	380.32	
75	-131.69	131.69	-380.32	353.98	
76	-145.00	145.00	-353.98	324.98	
77	-154.87	154.87	-324.98	294.00	
78	-161.12	161.12	-294.00	261.78	
79	-163.88	163.88	-261.78	229.00	
80	-163.23	163.23	-229.00	196.36	
81	-159.25	159.25	-196.36	164.51	
82	-152.00	152.00	-164.51	134.11	
83	-141.56	141.56	-134.11	105.80	
84	-128.94	128.94	-105.80	80.007	
85	-114.27	114.27	-80.007	57.154	
86	-97.700	97.700	-57.154	37.614	
87	-79.282	79.282	-37.614	21.758	
88	-59.002	59.002	-21.758	9.9572	
89	-36.882	36.882	-9.9572	2.5809	
90	-12.904	12.904	-2.5809	5.62261E-12	

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 300 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      17:58:40          |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	208.66	-8.08417E-04	4.27565E-02	0.0000	2633.3	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      17:58:40          |
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER      0  RNORM = 0.000      RMNORM= 0.000
RINORM=0.2019E+07 RIMNOR=0.1037E+08
RENORM=0.2568E+05 REMNOR=0.3455E-17 RATIO =0.1128      TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 201.6      RMMAX = 481.2
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT      =0.2019E+07 RDR      =0.1037E+08
RATIOT=0.1128      RATOR= 0.000
MAX UN= 1.060      IEQ=    17 NODE      9 DOF  1  Y-DISPL.F
MIN UN=-160.0      IEQ=    83 NODE     42 DOF  1  Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
RINORM=0.2019E+07 RIMNOR=0.1037E+08
RENORM= 5.304      REMNOR=0.9416E-17 RATIO =0.1621E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 201.6      RMMAX = 481.2
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT      =0.2019E+07 RDR      =0.1037E+08
RATIOT=0.1621E-02 RATOR= 0.000
MAX UN= 1.074      IEQ=     3 NODE      2 DOF  1  Y-DISPL.F
MIN UN=-.7486      IEQ=    89 NODE     45 DOF  1  Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      3  RNORM = 0.000      RMNORM= 0.000
RINORM=0.2019E+07 RIMNOR=0.1037E+08
RENORM=0.7804      REMNOR=0.6290E-17 RATIO =0.6217E-03 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 201.6      RMMAX = 481.2
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT      =0.2019E+07 RDR      =0.1037E+08
RATIOT=0.6217E-03 RATOR= 0.000
MAX UN=0.6292      IEQ=    23 NODE     12 DOF  1  Y-DISPL.F
MIN UN=-.1265E-07 IEQ=    11 NODE      6 DOF  1  Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
301 di 1221

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ITER      4 RNORM = 0.000      RMNORM= 0.000
RINORM=0.2019E+07 RIMNOR=0.1037E+08
RENORM=0.2298E-02 REMNOR=0.5664E-17 RATIO =0.3374E-04 TOLER =0.1000E-03      CONVERGED !
RFMAX = 201.6      RMMAX = 481.2
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT      =0.2019E+07 RDR      =0.1037E+08
RATIOT=0.3374E-04 RATIO R= 0.000
MAX UN=0.4720E-01 IEQ=      33 NODE      17 DOF      1 Y-DISPL.F
MIN UN=-.8422E-02 IEQ=      89 NODE      45 DOF      1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      17:58:40  |
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New Project
SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 5 (AT TIME 5.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	6.6736969E-02	-4.4350803E-03	
2	6.5849955E-02	-4.4350463E-03	
3	6.4962959E-02	-4.4348892E-03	
4	6.4076015E-02	-4.4344946E-03	
5	6.3189185E-02	-4.4337306E-03	
6	6.2302557E-02	-4.4324481E-03	
7	6.1416252E-02	-4.4304837E-03	
8	6.0530421E-02	-4.4276590E-03	
9	5.9645258E-02	-4.4237816E-03	
10	5.8760993E-02	-4.4186463E-03	
11	5.7877898E-02	-4.4120357E-03	
12	5.6996292E-02	-4.4037179E-03	
13	5.6116541E-02	-4.3934472E-03	
14	5.5239061E-02	-4.3809638E-03	
15	5.4364321E-02	-4.3659940E-03	
16	5.3492848E-02	-4.3482505E-03	
17	5.2624906E-02	-4.3322362E-03	
18	5.1759539E-02	-4.3224423E-03	
19	5.0895536E-02	-4.3185403E-03	
20	5.0031753E-02	-4.3201810E-03	
21	4.9167119E-02	-4.3269941E-03	
22	4.8300637E-02	-4.3385890E-03	
23	4.7431392E-02	-4.3545545E-03	
24	4.6558557E-02	-4.3744589E-03	
25	4.5681380E-02	-4.3978513E-03	
26	4.4799215E-02	-4.4242608E-03	
27	4.3911507E-02	-4.4531967E-03	
28	4.3017802E-02	-4.4841485E-03	
29	4.2117753E-02	-4.5165860E-03	
30	4.1211110E-02	-4.5499601E-03	
31	4.0297745E-02	-4.5837022E-03	
32	3.9377644E-02	-4.6172251E-03	
33	3.8450910E-02	-4.6499236E-03	
34	3.7517771E-02	-4.6811743E-03	
35	3.6578584E-02	-4.7103353E-03	
36	3.5633824E-02	-4.7367477E-03	
37	3.4684113E-02	-4.7597349E-03	
38	3.3730205E-02	-4.7786035E-03	
39	3.2772994E-02	-4.7926435E-03	
40	3.1813523E-02	-4.8011297E-03	
41	3.0852966E-02	-4.8033215E-03	
42	2.9892645E-02	-4.7984634E-03	
43	2.8933828E-02	-4.7896086E-03	
44	2.7976870E-02	-4.7797967E-03	
45	2.7022031E-02	-4.7682313E-03	
46	2.6069748E-02	-4.7541073E-03	
47	2.5120611E-02	-4.7366491E-03	
48	2.4175357E-02	-4.7151631E-03	
49	2.3234858E-02	-4.6890570E-03	
50	2.2300080E-02	-4.6578394E-03	
51	2.1372089E-02	-4.6211213E-03	
52	2.0452008E-02	-4.5786154E-03	
53	1.9541032E-02	-4.5301390E-03	
54	1.8640356E-02	-4.4756107E-03	
55	1.7751189E-02	-4.4150537E-03	

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 303 di 1221							
12 D	5.348	-5.6996E-02	71.31	26.74	71.31	35.65	ACTIVE	0.000	-2.200	0.000	1.000	1.000
26.74	0.000	0.000	Stratol_2_8_L_0									
13 D	5.595	-5.6117E-02	74.60	27.98	74.60	37.04	ACTIVE	0.000	-2.400	0.000	1.000	1.000
27.98	0.000	0.000	Stratol_2_8_L_0									
14 D	5.930	-5.5239E-02	79.07	29.65	79.07	38.98	ACTIVE	0.000	-2.600	0.000	1.000	1.000
29.65	0.000	0.000	Stratol_2_8_L_0									
15 D	6.181	-5.4364E-02	82.41	30.90	82.41	40.37	ACTIVE	0.000	-2.800	0.000	1.000	1.000
30.90	0.000	0.000	Stratol_2_8_L_0									
16 D	6.472	-5.3493E-02	86.30	32.36	86.30	42.01	ACTIVE	0.000	-3.000	0.000	1.000	1.000
32.36	0.000	0.000	Stratol_2_8_L_0									
17 D	6.729	-5.2625E-02	89.72	33.65	89.72	43.41	ACTIVE	0.000	-3.200	0.000	1.000	1.000
33.65	0.000	0.000	Stratol_2_8_L_0									
18 D	7.155	-5.1760E-02	94.04	35.78	94.04	45.23	UL-RL	7951.	-3.400	0.000	1.000	1.000
35.78	0.000	0.000	Stratol_2_8_L_0									
19 D	7.562	-5.0896E-02	97.50	37.81	97.50	46.63	UL-RL	7951.	-3.600	0.000	1.000	1.000
37.81	0.000	0.000	Stratol_2_8_L_0									
20 D	8.027	-5.0032E-02	101.8	40.13	101.8	48.63	UL-RL	7951.	-3.800	0.000	1.000	1.000
40.13	0.000	0.000	Stratol_2_8_L_0									
21 D	8.431	-4.9167E-02	105.2	42.16	105.2	50.48	UL-RL	7951.	-4.000	0.000	1.000	1.000
42.16	0.000	0.000	Stratol_2_8_L_0									
22 D	8.888	-4.8301E-02	109.5	44.44	109.5	52.71	UL-RL	7951.	-4.200	0.000	1.000	1.000
44.44	0.000	0.000	Stratol_2_8_L_0									
23 D	9.290	-4.7431E-02	113.0	46.45	113.0	54.57	UL-RL	7951.	-4.400	0.000	1.000	1.000
46.45	0.000	0.000	Stratol_2_8_L_0									
24 D	9.715	-4.6559E-02	116.8	48.58	116.8	56.61	UL-RL	7951.	-4.600	0.000	1.000	1.000
48.58	0.000	0.000	Stratol_2_8_L_0									
25 D	10.11	-4.5681E-02	120.3	50.57	120.3	58.48	UL-RL	7951.	-4.800	0.000	1.000	1.000
50.57	0.000	0.000	Stratol_2_8_L_0									
26 D	10.56	-4.4799E-02	124.5	52.78	124.5	60.68	UL-RL	7951.	-5.000	0.000	1.000	1.000
52.78	0.000	0.000	Stratol_2_8_L_0									
27 D	10.95	-4.3912E-02	128.1	54.74	128.1	62.57	UL-RL	7951.	-5.200	0.000	1.000	1.000
54.74	0.000	0.000	Stratol_2_8_L_0									
28 D	11.38	-4.3018E-02	132.2	56.90	132.2	64.75	UL-RL	7951.	-5.400	0.000	1.000	1.000
56.90	0.000	0.000	Stratol_2_8_L_0									
29 D	11.76	-4.2118E-02	135.7	58.82	135.7	66.65	UL-RL	7951.	-5.600	0.000	1.000	1.000
58.82	0.000	0.000	Stratol_2_8_L_0									
30 D	12.18	-4.1211E-02	139.8	60.92	139.8	68.82	UL-RL	7951.	-5.800	0.000	1.000	1.000
60.92	0.000	0.000	Stratol_2_8_L_0									
31 D	12.54	-4.0298E-02	143.2	62.71	143.2	70.58	UL-RL	7951.	-6.000	0.000	1.000	1.000
62.71	0.000	0.000	Stratol_2_8_L_0									
32 D	12.95	-3.9378E-02	147.3	64.75	147.3	72.75	UL-RL	7951.	-6.200	0.000	1.000	1.000
64.75	0.000	0.000	Stratol_2_8_L_0									
33 D	13.32	-3.8451E-02	150.9	66.58	150.9	74.66	UL-RL	7951.	-6.400	0.000	1.000	1.000
66.58	0.000	0.000	Stratol_2_8_L_0									
34 D	13.71	-3.7518E-02	154.9	68.54	154.9	76.81	UL-RL	7951.	-6.600	0.000	1.000	1.000
68.54	0.000	0.000	Stratol_2_8_L_0									
35 D	14.06	-3.6579E-02	158.5	70.30	158.5	78.73	UL-RL	7951.	-6.800	0.000	1.000	1.000
70.30	0.000	0.000	Stratol_2_8_L_0									
36 D	14.44	-3.5634E-02	162.6	72.18	162.6	80.87	UL-RL	7951.	-7.000	0.000	1.000	1.000
72.18	0.000	0.000	Stratol_2_8_L_0									
37 D	14.77	-3.4684E-02	166.2	73.86	166.2	82.79	UL-RL	7951.	-7.200	0.000	1.000	1.000
73.86	0.000	0.000	Stratol_2_8_L_0									
38 D	15.13	-3.3730E-02	170.2	75.64	170.2	84.93	UL-RL	7951.	-7.400	0.000	1.000	1.000
75.64	0.000	0.000	Stratol_2_8_L_0									
39 D	15.43	-3.2773E-02	173.7	77.14	173.7	86.74	UL-RL	7951.	-7.600	0.000	1.000	1.000
77.14	0.000	0.000	Stratol_2_8_L_0									
40 D	15.76	-3.1814E-02	177.7	78.81	177.7	88.88	UL-RL	7951.	-7.800	0.000	1.000	1.000
78.81	0.000	0.000	Stratol_2_8_L_0									
41 D	16.05	-3.0853E-02	181.3	80.27	181.3	90.81	UL-RL	7951.	-8.000	0.000	1.000	1.000
80.27	0.000	0.000	Stratol_2_8_L_0									
42 D	16.36	-2.9893E-02	185.3	81.81	185.3	92.93	UL-RL	7951.	-8.200	0.000	1.000	1.000
81.81	0.000	0.000	Stratol_2_8_L_0									
43 D	16.63	-2.8934E-02	189.0	83.14	189.0	94.86	UL-RL	7951.	-8.400	0.000	1.000	1.000
83.14	0.000	0.000	Stratol_2_8_L_0									
44 D	16.91	-2.7977E-02	193.0	84.54	193.0	96.98	UL-RL	7951.	-8.600	0.000	1.000	1.000
84.54	0.000	0.000	Stratol_2_8_L_0									
45 D	17.15	-2.7022E-02	196.6	85.75	196.6	98.92	UL-RL	7951.	-8.800	0.000	1.000	1.000
85.75	0.000	0.000	Stratol_2_8_L_0									
46 D	17.40	-2.6070E-02	200.5	86.98	200.5	100.9	UL-RL	7951.	-9.000	0.000	1.000	1.000
86.98	0.000	0.000	Stratol_2_8_L_0									
47 D	17.62	-2.5121E-02	204.1	88.10	204.1	102.9	UL-RL	7951.	-9.200	0.000	1.000	1.000
88.10	0.000	0.000	Stratol_2_8_L_0									
48 D	17.86	-2.4175E-02	208.1	89.30	208.1	105.0	UL-RL	7951.	-9.400	0.000	1.000	1.000
89.30	0.000	0.000	Stratol_2_8_L_0									
49 D	18.07	-2.3235E-02	211.8	90.35	211.8	106.9	UL-RL	7951.	-9.600	0.000	1.000	1.000
90.35	0.000	0.000	Stratol_2_8_L_0									
50 D	18.30	-2.2300E-02	215.8	91.48	215.8	109.1	UL-RL	7951.	-9.800	0.000	1.000	1.000
91.48	0.000	0.000	Stratol_2_8_L_0									
51 D	18.50	-2.1372E-02	219.4	92.48	219.4	111.0	UL-RL	7951.	-10.00	0.000	1.000	1.000
92.48	0.000	0.000	Stratol_2_8_L_0									
52 D	18.71	-2.0452E-02	223.4	93.57	223.4	113.1	UL-RL	7951.	-10.20	0.000	1.000	1.000
93.57	0.000	0.000	Stratol_2_8_L_0									
53 D	18.91	-1.9541E-02	227.1	94.53	227.1	115.0	UL-RL	7951.	-10.40	0.000	1.000	1.000
94.53	0.000	0.000	Stratol_2_8_L_0									
54 D	19.11	-1.8640E-02	230.9	95.54	230.9	117.1	UL-RL	7951.	-10.60	0.000	1.000	1.000

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 304 di 1221
95.54	0.000	0.000	Strato1_2_8_L_0				
55 D	19.30	-1.7751E-02	234.6	96.49	234.6	119.0	UL-RL 7951.
96.49	0.000	0.000	Strato1_2_8_L_0				
56 D	19.51	-1.6875E-02	238.5	97.53	238.5	121.1	UL-RL 7951.
97.53	0.000	0.000	Strato1_2_8_L_0				
57 D	19.69	-1.6012E-02	242.2	98.47	242.2	123.1	UL-RL 7951.
98.47	0.000	0.000	Strato1_2_8_L_0				
58 D	19.90	-1.5164E-02	246.2	99.51	246.2	125.2	UL-RL 7951.
99.51	0.000	0.000	Strato1_2_8_L_0				
59 D	20.09	-1.4333E-02	249.9	100.5	249.9	127.1	UL-RL 7951.
100.5	0.000	0.000	Strato1_2_8_L_0				
60 D	20.30	-1.3518E-02	253.8	101.5	253.8	129.2	UL-RL 7951.
101.5	0.000	0.000	Strato1_2_8_L_0				
61 D	20.48	-1.2721E-02	257.4	102.4	257.4	131.1	UL-RL 7951.
102.4	0.000	0.000	Strato1_2_8_L_0				
62 D	20.70	-1.1943E-02	261.3	103.5	261.3	133.2	UL-RL 7951.
103.5	0.000	0.000	Strato1_2_8_L_0				
63 D	20.89	-1.1184E-02	265.0	104.5	265.0	135.2	UL-RL 7951.
104.5	0.000	0.000	Strato1_2_8_L_0				
64 D	14.78	-1.0444E-02	268.9	73.88	268.9	129.5	UL-RL 2.2067E+04
73.88	0.000	0.000	Strato2_3095_82743_L_0				
65 D	14.80	-9.7254E-03	272.8	74.00	272.8	131.4	UL-RL 2.2067E+04
74.00	0.000	0.000	Strato2_3095_82743_L_0				
66 D	14.84	-9.0272E-03	277.0	74.22	277.0	133.5	UL-RL 2.2067E+04
74.22	0.000	0.000	Strato2_3095_82743_L_0				
67 D	14.88	-8.3498E-03	280.9	74.41	280.9	135.4	UL-RL 2.2067E+04
74.41	0.000	0.000	Strato2_3095_82743_L_0				
68 D	14.94	-7.6934E-03	285.0	74.71	285.0	137.5	UL-RL 2.2067E+04
74.71	0.000	0.000	Strato2_3095_82743_L_0				
69 D	14.99	-7.0579E-03	288.8	74.95	288.8	139.4	UL-RL 2.2067E+04
74.95	0.000	0.000	Strato2_3095_82743_L_0				
70 D	15.07	-6.4432E-03	292.9	75.33	292.9	141.5	UL-RL 2.2067E+04
75.33	0.000	0.000	Strato2_3095_82743_L_0				
71 D	15.14	-5.8488E-03	296.8	75.69	296.8	143.4	UL-RL 2.2067E+04
75.69	0.000	0.000	Strato2_3095_82743_L_0				
72 D	15.23	-5.2742E-03	300.9	76.14	300.9	145.5	UL-RL 2.2067E+04
76.14	0.000	0.000	Strato2_3095_82743_L_0				
73 D	15.32	-4.7190E-03	304.9	76.58	304.9	147.4	UL-RL 2.2067E+04
76.58	0.000	0.000	Strato2_3095_82743_L_0				
74 D	15.42	-4.1822E-03	309.0	77.11	309.0	149.5	UL-RL 2.2067E+04
77.11	0.000	0.000	Strato2_3095_82743_L_0				
75 D	15.52	-3.6631E-03	312.9	77.61	312.9	151.4	UL-RL 2.2067E+04
77.61	0.000	0.000	Strato2_3095_82743_L_0				
76 D	16.28	-3.1606E-03	316.9	81.42	316.9	153.5	UL-RL 2.2067E+04
81.42	0.000	0.000	Strato2_3095_82743_L_0				
77 D	18.77	-2.6735E-03	320.8	93.87	320.8	155.4	UL-RL 2.2067E+04
93.87	0.000	0.000	Strato2_3095_82743_L_0				
78 D	21.22	-2.2007E-03	324.9	106.1	324.9	157.5	UL-RL 2.2067E+04
106.1	0.000	0.000	Strato2_3095_82743_L_0				
79 D	23.60	-1.7408E-03	328.8	118.0	328.8	159.4	UL-RL 2.2067E+04
118.0	0.000	0.000	Strato2_3095_82743_L_0				
80 D	25.94	-1.2923E-03	333.0	129.7	333.0	161.5	UL-RL 2.2067E+04
129.7	0.000	0.000	Strato2_3095_82743_L_0				
81 D	28.22	-8.5393E-04	336.9	141.1	336.9	163.4	UL-RL 2.2067E+04
141.1	0.000	0.000	Strato2_3095_82743_L_0				
82 D	30.48	-4.2414E-04	341.0	152.4	341.0	165.5	UL-RL 2.2067E+04
152.4	0.000	0.000	Strato2_3095_82743_L_0				
83 D	32.69	-1.5680E-06	344.9	163.4	344.9	168.6	UL-RL 2.2067E+04
163.4	0.000	0.000	Strato2_3095_82743_L_0				
84 D	33.89	4.1510E-04	348.9	169.5	348.9	175.1	UL-RL 2.2067E+04
169.5	0.000	0.000	Strato2_3095_82743_L_0				
85 D	35.00	8.2714E-04	352.8	175.0	352.8	181.2	UL-RL 2.2067E+04
175.0	0.000	0.000	Strato2_3095_82743_L_0				
86 D	35.95	1.2356E-03	356.9	179.8	356.9	186.4	UL-RL 2.2067E+04
179.8	0.000	0.000	Strato2_3095_82743_L_0				
87 D	36.87	1.6416E-03	360.9	184.4	360.9	191.4	UL-RL 2.2067E+04
184.4	0.000	0.000	Strato2_3095_82743_L_0				
88 D	37.81	2.0459E-03	365.0	189.0	365.0	196.6	UL-RL 2.2067E+04
189.0	0.000	0.000	Strato2_3095_82743_L_0				
89 D	38.72	2.4492E-03	368.9	193.6	368.9	201.6	UL-RL 2.2067E+04
193.6	0.000	0.000	Strato2_3095_82743_L_0				
90 D	39.66	2.8520E-03	373.0	198.3	373.0	206.8	UL-RL 2.2067E+04
198.3	0.000	0.000	Strato2_3095_82743_L_0				
91 D	20.28	3.2547E-03	376.8	202.8	376.8	211.7	UL-RL 2.2067E+04
202.8	0.000	0.000	Strato2_3095_82743_L_0				



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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A2M2R1_3514                                                                                   |
|          Exe Time :29 July 2019          17:58:40                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.2000	0.000	1.000	1.000
2	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.6000	0.000	1.000	1.000
3	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.000	0.000	1.000	1.000
4	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.400	0.000	1.000	1.000
5	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.800	0.000	1.000	1.000
6	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.200	0.000	1.000	1.000
7	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.600	0.000	1.000	1.000
8	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.000	0.000	1.000	1.000
9	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.400	0.000	1.000	1.000
10	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.800	0.000	1.000	1.000
11	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
12	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
13	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
14	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000
15	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.800	0.000	1.000	1.000
16	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
17	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
18	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
19	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
20	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
21	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
22	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
23	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
24	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
25	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
26	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
27	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
28	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
29	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
30	0.000	--	--	--	--	--	REMOVED	--				

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 306 di 1221
0.000	0.000	0.000	not available		
31	0.000	--	--	--	--
0.000	0.000	0.000	not available		
32	0.000	--	--	--	--
0.000	0.000	0.000	not available		
33	0.000	--	--	--	--
0.000	0.000	0.000	not available		
34	0.000	--	--	--	--
0.000	0.000	0.000	not available		
35	0.000	--	--	--	--
0.000	0.000	0.000	not available		
36	0.000	--	--	--	--
0.000	0.000	0.000	not available		
37	0.000	--	--	--	--
0.000	0.000	0.000	not available		
38	0.000	--	--	--	--
0.000	0.000	0.000	not available		
39	0.000	--	--	--	--
0.000	0.000	0.000	not available		
40	0.000	--	--	--	--
0.000	0.000	0.000	not available		
41	0.000	--	--	--	--
0.000	0.000	0.000	not available		
42	0.000	--	--	--	--
0.000	0.000	0.000	not available		
43	0.000	--	--	--	--
0.000	0.000	0.000	not available		
44	0.000	--	--	--	--
0.000	0.000	0.000	not available		
45 D	0.1509	2.7022E-02	1.900 0.7546	167.2	93.88
0.7546	0.000	0.000	Strato1_2_8_L_0		
46 D	1.728	2.6070E-02	5.700 8.639	171.0	95.30
8.639	0.000	0.000	Strato1_2_8_L_0		
47 D	4.080	2.5121E-02	9.500 20.40	174.8	96.81
20.40	0.000	0.000	Strato1_2_8_L_0		
48 D	6.438	2.4175E-02	13.30 32.19	178.6	98.36
32.19	0.000	0.000	Strato1_2_8_L_0		
49 D	8.802	2.3235E-02	17.10 44.01	182.4	99.96
44.01	0.000	0.000	Strato1_2_8_L_0		
50 D	11.17	2.2300E-02	20.90 55.86	186.2	101.6
55.86	0.000	0.000	Strato1_2_8_L_0		
51 D	13.54	2.1372E-02	24.70 67.72	190.0	103.3
67.72	0.000	0.000	Strato1_2_8_L_0		
52 D	15.92	2.0452E-02	28.50 79.60	193.8	105.0
79.60	0.000	0.000	Strato1_2_8_L_0		
53 D	18.30	1.9541E-02	32.30 91.50	197.6	106.8
91.50	0.000	0.000	Strato1_2_8_L_0		
54 D	20.68	1.8640E-02	36.10 103.4	201.4	109.7
103.4	0.000	0.000	Strato1_2_8_L_0		
55 D	23.06	1.7751E-02	39.90 115.3	205.2	121.2
115.3	0.000	0.000	Strato1_2_8_L_0		
56 D	25.45	1.6875E-02	43.70 127.2	209.0	132.8
127.2	0.000	0.000	Strato1_2_8_L_0		
57 D	27.83	1.6012E-02	47.50 139.1	212.8	144.3
139.1	0.000	0.000	Strato1_2_8_L_0		
58 D	29.27	1.5164E-02	51.30 146.3	216.6	151.1
146.3	0.000	0.000	Strato1_2_8_L_0		
59 D	29.34	1.4333E-02	55.10 146.7	220.4	151.1
146.7	0.000	0.000	Strato1_2_8_L_0		
60 D	29.41	1.3518E-02	58.90 147.1	224.2	151.1
147.1	0.000	0.000	Strato1_2_8_L_0		
61 D	29.50	1.2721E-02	62.70 147.5	228.0	151.2
147.5	0.000	0.000	Strato1_2_8_L_0		
62 D	29.60	1.1943E-02	66.50 148.0	231.8	151.3
148.0	0.000	0.000	Strato1_2_8_L_0		
63 D	29.70	1.1184E-02	70.30 148.5	235.6	151.5
148.5	0.000	0.000	Strato1_2_8_L_0		
64 D	30.40	1.0444E-02	74.10 152.0	239.4	158.0
152.0	0.000	0.000	Strato2_3095_82743_L_0		
65 D	30.19	9.7254E-03	78.10 150.9	243.4	156.2
150.9	0.000	0.000	Strato2_3095_82743_L_0		
66 D	30.00	9.0272E-03	82.10 150.0	247.4	154.6
150.0	0.000	0.000	Strato2_3095_82743_L_0		
67 D	29.83	8.3498E-03	86.10 149.1	251.4	153.0
149.1	0.000	0.000	Strato2_3095_82743_L_0		
68 D	29.68	7.6934E-03	90.10 148.4	255.4	151.6
148.4	0.000	0.000	Strato2_3095_82743_L_0		
69 D	29.54	7.0579E-03	94.10 147.7	259.4	150.3
147.7	0.000	0.000	Strato2_3095_82743_L_0		
70 D	29.43	6.4432E-03	98.10 147.1	263.4	149.2
147.1	0.000	0.000	Strato2_3095_82743_L_0		
71 D	29.32	5.8488E-03	102.1 146.6	267.4	148.1
146.6	0.000	0.000	Strato2_3095_82743_L_0		
72 D	29.24	5.2742E-03	106.1 146.2	271.4	147.2
146.2	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
308 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  17:58:40  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.4325	-1.4325	-1.87723E-10	0.28650
2	3.7500	-3.7500	-0.28650	1.0365
3	6.2581	-6.2581	-1.0365	2.2881
4	9.3020	-9.3020	-2.2881	4.1485
5	12.535	-12.535	-4.1485	6.6556
6	16.188	-16.188	-6.6556	9.8932
7	20.052	-20.052	-9.8932	13.904
8	24.292	-24.292	-13.904	18.762
9	28.692	-28.692	-18.762	24.500
10	33.454	-33.454	-24.500	31.191
11	38.457	-38.457	-31.191	38.882
12	43.805	-43.805	-38.882	47.643
13	49.400	-49.400	-47.643	57.523
14	55.330	-55.330	-57.523	68.589
15	61.511	-61.511	-68.589	80.892
16	-134.35	134.35	-80.892	54.021
17	-127.67	127.67	-54.021	28.487
18	-120.51	120.51	-28.487	4.3846
19	-112.95	112.95	-4.3846	-18.206
20	-104.93	104.93	18.206	-39.191
21	-96.495	96.495	39.191	-58.490
22	-87.606	87.606	58.490	-76.011
23	-78.316	78.316	76.011	-91.675
24	-68.601	68.601	91.675	-105.39
25	-58.487	58.487	105.39	-117.09
26	-47.932	47.932	117.09	-126.68
27	-36.984	36.984	126.68	-134.08
28	-25.605	25.605	134.08	-139.20
29	-13.840	13.840	139.20	-141.96
30	-1.6559	1.6559	141.96	-142.30
31	10.886	-10.886	142.30	-140.12
32	23.837	-23.837	140.12	-135.35
33	37.153	-37.153	135.35	-127.92
34	50.861	-50.861	127.92	-117.75
35	64.922	-64.922	117.75	-104.76
36	79.359	-79.359	104.76	-88.892
37	94.130	-94.130	88.892	-70.066
38	109.26	-109.26	70.066	-48.215
39	124.69	-124.69	48.215	-23.277
40	140.45	-140.45	23.277	4.8125
41	156.50	-156.50	-4.8125	36.114
42	11.846	-11.846	-36.114	38.483
43	28.475	-28.475	-38.483	44.178
44	45.383	-45.383	-44.178	53.255
45	62.391	-62.391	-53.255	65.733
46	78.059	-78.059	-65.733	81.345
47	91.598	-91.598	-81.345	99.664
48	103.02	-103.02	-99.664	120.27
49	112.29	-112.29	-120.27	142.73
50	119.41	-119.41	-142.73	166.61
51	124.36	-124.36	-166.61	191.48
52	127.15	-127.15	-191.48	216.91
53	127.76	-127.76	-216.91	242.46
54	126.19	-126.19	-242.46	267.70
55	122.42	-122.42	-267.70	292.18
56	116.48	-116.48	-292.18	315.48
57	108.35	-108.35	-315.48	337.15
58	98.982	-98.982	-337.15	356.95
59	89.738	-89.738	-356.95	374.89
60	80.626	-80.626	-374.89	391.02
61	71.611	-71.611	-391.02	405.34
62	62.712	-62.712	-405.34	417.88
63	53.904	-53.904	-417.88	428.67

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 309 di 1221
64	38.285	-38.285	-428.67	436.32	
65	22.896	-22.896	-436.32	440.90	
66	7.7402	-7.7402	-440.90	442.45	
67	-7.2073	7.2073	-442.45	441.01	
68	-21.943	21.943	-441.01	436.62	
69	-36.496	36.496	-436.62	429.32	
70	-50.855	50.855	-429.32	419.15	
71	-65.043	65.043	-419.15	406.14	
72	-79.055	79.055	-406.14	390.33	
73	-92.913	92.913	-390.33	371.75	
74	-106.58	106.58	-371.75	350.43	
75	-120.06	120.06	-350.43	326.42	
76	-132.69	132.69	-326.42	299.88	
77	-142.22	142.22	-299.88	271.44	
78	-148.34	148.34	-271.44	241.77	
79	-151.16	151.16	-241.77	211.54	
80	-150.74	150.74	-211.54	181.39	
81	-147.18	147.18	-181.39	151.95	
82	-140.52	140.52	-151.95	123.85	
83	-130.83	130.83	-123.85	97.682	
84	-119.13	119.13	-97.682	73.854	
85	-105.53	105.53	-73.854	52.747	
86	-90.202	90.202	-52.747	34.707	
87	-73.175	73.175	-34.707	20.072	
88	-54.441	54.441	-20.072	9.1838	
89	-34.021	34.021	-9.1838	2.3797	
90	-11.898	11.898	-2.3797	-6.29496E-12	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
310 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      17:58:40        |
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New Project

STRESS RESULTS FOR GROUP NO. 4

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Tirante1_429      :
ELEMENT TYPE     6 NO.OF ELEMENTS. IN THIS GROUP   1
CURRENT TIME IS  5.0000

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POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	209.47	-8.08417E-04	4.30649E-02	0.0000	2633.3	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      17:58:40        |
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New Project

STRESS RESULTS FOR GROUP NO. 5

```

Tirante2_1507    :
ELEMENT TYPE     6 NO.OF ELEMENTS. IN THIS GROUP   1
CURRENT TIME IS  5.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	166.70	-1.30685E-03	-1.30685E-03	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

```

ITER 0 RNORM = 0.000      RMNORM= 0.000
RINORM=0.1461E+07 RIMNOR=0.8346E+07
RENORM=0.1022E+05 REMNOR=0.5664E-17 RATIO =0.8363E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 202.3      RMMAX = 442.4
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.1461E+07 RDR =0.8346E+07
RATIOT=0.8363E-01 RATIO= 0.000
MAX UN= 29.70      IEQ= 125 NODE      63 DOF  1  Y-DISPL.F
MIN UN=-.1159E-07 IEQ= 39 NODE      20 DOF  1  Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS  0

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ITER 2 RNORM = 0.000      RMNORM= 0.000
RINORM=0.1461E+07 RIMNOR=0.8346E+07
RENORM= 2658.      REMNOR=0.8622E-17 RATIO =0.4265E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 202.3      RMMAX = 442.4
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.1461E+07 RDR =0.8346E+07
RATIOT=0.4265E-01 RATIO= 0.000
MAX UN= 23.80      IEQ= 133 NODE      67 DOF  1  Y-DISPL.F
MIN UN=-.1642      IEQ= 3 NODE      2 DOF  1  Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS  0

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ITER 3 RNORM = 0.000      RMNORM= 0.000
RINORM=0.1461E+07 RIMNOR=0.8346E+07
RENORM= 676.7      REMNOR=0.1011E-16 RATIO =0.2152E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 202.3      RMMAX = 442.4
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.1461E+07 RDR =0.8346E+07
RATIOT=0.2152E-01 RATIO= 0.000
MAX UN= 16.95      IEQ= 157 NODE      79 DOF  1  Y-DISPL.F
MIN UN=-1.084      IEQ= 181 NODE      91 DOF  1  Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS  0

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ITER 4 RNORM = 0.000      RMNORM= 0.000

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 312 di 1221
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- 45 4.1254426E-02 -4.1016716E-03
- 46 4.0426643E-02 -4.1768437E-03
- 47 3.9583436E-02 -4.2558047E-03
- 48 3.8724115E-02 -4.3378699E-03
- 49 3.7848132E-02 -4.4223404E-03
- 50 3.6955070E-02 -4.5085051E-03
- 51 3.6044666E-02 -4.5956378E-03
- 52 3.5116790E-02 -4.6830003E-03
- 53 3.4171491E-02 -4.7698380E-03
- 54 3.3208941E-02 -4.8553853E-03
- 55 3.2229475E-02 -4.9388623E-03
- 56 3.1233587E-02 -5.0194760E-03
- 57 3.0221929E-02 -5.0964196E-03
- 58 2.9195318E-02 -5.1688728E-03
- 59 2.8154735E-02 -5.2360015E-03
- 60 2.7101329E-02 -5.2969582E-03
- 61 2.6036421E-02 -5.3508819E-03
- 62 2.4961504E-02 -5.3968979E-03
- 63 2.3878248E-02 -5.4341183E-03
- 64 2.2788503E-02 -5.4616418E-03
- 65 2.1694266E-02 -5.4790363E-03
- 66 2.0597556E-02 -5.4864185E-03
- 67 1.9500349E-02 -5.4840492E-03
- 68 1.8404614E-02 -5.4723346E-03
- 69 1.7312057E-02 -5.4518232E-03
- 70 1.6224425E-02 -5.4232096E-03
- 71 1.5143257E-02 -5.3873325E-03
- 72 1.4069910E-02 -5.3451750E-03
- 73 1.3005531E-02 -5.2978646E-03
- 74 1.1951027E-02 -5.2466195E-03
- 75 1.0907064E-02 -5.1926492E-03
- 76 9.8740718E-03 -5.1371090E-03
- 77 8.8522520E-03 -5.0811001E-03
- 78 7.8415932E-03 -5.0256697E-03
- 79 6.8418794E-03 -4.9718112E-03
- 80 5.8527013E-03 -4.9204641E-03
- 81 4.8734672E-03 -4.8725151E-03
- 82 3.9034131E-03 -4.8287976E-03
- 83 2.9416140E-03 -4.7900925E-03
- 84 1.9869988E-03 -4.7570484E-03
- 85 1.0383446E-03 -4.7300445E-03
- 86 9.4526790E-05 -4.7091411E-03
- 87 -8.4570125E-04 -4.6940783E-03
- 88 -1.7834560E-03 -4.6842872E-03
- 89 -2.7197090E-03 -4.6788891E-03
- 90 -3.6552253E-03 -4.6766959E-03
- 91 -4.5905027E-03 -4.6762327E-03

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019      17:58:40                             |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 6.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1 D	1.057	-6.8281E-02	28.20	10.57	38.20	24.75	ACTIVE	0.000	0.000	0.000	1.000	1.000
10.57	0.000	0.000	Stratol_2_8_L_0									
2 D	1.568	-6.7726E-02	20.90	7.838	30.90	20.55	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
7.838	0.000	0.000	Stratol_2_8_L_0									
3 D	1.758	-6.7171E-02	23.44	8.791	33.44	20.71	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
8.791	0.000	0.000	Stratol_2_8_L_0									
4 D	2.294	-6.6616E-02	30.59	11.47	40.59	22.92	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
11.47	0.000	0.000	Stratol_2_8_L_0									
5 D	2.483	-6.6061E-02	33.11	12.42	43.11	23.29	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
12.42	0.000	0.000	Stratol_2_8_L_0									
6 D	2.903	-6.5506E-02	38.70	14.51	48.70	25.82	ACTIVE	0.000	-1.000	0.000	1.000	1.000
14.51	0.000	0.000	Stratol_2_8_L_0									
7 D	3.114	-6.4951E-02	41.51	15.57	51.51	27.01	ACTIVE	0.000	-1.200	0.000	1.000	1.000
15.57	0.000	0.000	Stratol_2_8_L_0									
8 D	3.490	-6.4396E-02	46.53	17.45	56.53	29.25	ACTIVE	0.000	-1.400	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 315 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                     |
|          NewProject.BaseDesignSection_28.A2M2R1_3514          |
|          Exe Time :29 July 2019          17:58:40          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 6.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.2000	0.000	1.000	1.000
2	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.6000	0.000	1.000	1.000
3	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.000	0.000	1.000	1.000
4	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.400	0.000	1.000	1.000
5	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.800	0.000	1.000	1.000
6	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.200	0.000	1.000	1.000
7	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.600	0.000	1.000	1.000
8	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.000	0.000	1.000	1.000
9	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.400	0.000	1.000	1.000
10	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.800	0.000	1.000	1.000
11	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
12	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
13	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
14	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000
15	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.800	0.000	1.000	1.000
16	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
17	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
18	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
19	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
20	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
21	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
22	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
23	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
24	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
25	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
26	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
27	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
28	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
29	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
30	0.000	--	--	--	--	--	REMOVED	--				

GENERAL CONTRACTOR

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GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 316 di 1221
0.000	0.000	0.000	not available		
31	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
32	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
33	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
34	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
35	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
36	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
37	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
38	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
39	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
40	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
41	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
42	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
43	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
44	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
45	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
46	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
47	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
48	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
49	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
50	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
51	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
52	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
53	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
54	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
55	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
56	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
57	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
58	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
59	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
60	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
61	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
62	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
63	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
64 D	12.96	2.2789E-02	0.000	64.81	239.4
64.81	0.000	0.000	Strato2_3095_82743_L_0	158.0	PASSIVE
65 D	16.24	2.1694E-02	4.000	81.22	243.4
81.22	0.000	0.000	Strato2_3095_82743_L_0	156.2	PASSIVE
66 D	19.53	2.0598E-02	8.000	97.63	247.4
97.63	0.000	0.000	Strato2_3095_82743_L_0	154.6	PASSIVE
67 D	22.81	1.9500E-02	12.00	114.0	251.4
114.0	0.000	0.000	Strato2_3095_82743_L_0	153.0	PASSIVE
68 D	26.09	1.8405E-02	16.00	130.4	255.4
130.4	0.000	0.000	Strato2_3095_82743_L_0	151.6	PASSIVE
69 D	29.37	1.7312E-02	20.00	146.9	259.4
146.9	0.000	0.000	Strato2_3095_82743_L_0	150.3	PASSIVE
70 D	32.65	1.6224E-02	24.00	163.3	263.4
163.3	0.000	0.000	Strato2_3095_82743_L_0	163.3	PASSIVE
71 D	35.93	1.5143E-02	28.00	179.7	267.4
179.7	0.000	0.000	Strato2_3095_82743_L_0	179.7	PASSIVE
72 D	39.21	1.4070E-02	32.00	196.1	271.4
196.1	0.000	0.000	Strato2_3095_82743_L_0	196.1	PASSIVE

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 318 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  17:58:40  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 6.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.0575	-1.0575	1.36183E-09	0.21150
2	2.6250	-2.6250	-0.21150	0.73650
3	4.3831	-4.3831	-0.73650	1.6131
4	6.6770	-6.6770	-1.6131	2.9485
5	9.1603	-9.1603	-2.9485	4.7806
6	12.063	-12.063	-4.7806	7.1932
7	15.177	-15.177	-7.1932	10.229
8	18.667	-18.667	-10.229	13.962
9	22.317	-22.317	-13.962	18.425
10	26.329	-26.329	-18.425	23.691
11	30.582	-30.582	-23.691	29.807
12	35.180	-35.180	-29.807	36.843
13	40.025	-40.025	-36.843	44.848
14	45.205	-45.205	-44.848	53.889
15	50.636	-50.636	-53.889	64.017
16	-161.96	161.96	-64.017	31.625
17	-155.98	155.98	-31.625	0.42858
18	-149.68	149.68	-0.42858	-29.507
19	-143.11	143.11	29.507	-58.130
20	-136.23	136.23	58.130	-85.376
21	-129.09	129.09	85.376	-111.19
22	-121.63	121.63	111.19	-135.52
23	-113.91	113.91	135.52	-158.30
24	-105.90	105.90	158.30	-179.48
25	-97.622	97.622	179.48	-199.01
26	-89.035	89.035	199.01	-216.81
27	-80.181	80.181	216.81	-232.85
28	-71.018	71.018	232.85	-247.05
29	-61.587	61.587	247.05	-259.37
30	-51.849	51.849	259.37	-269.74
31	-41.860	41.860	269.74	-278.11
32	-31.566	31.566	278.11	-284.43
33	-21.001	21.001	284.43	-288.63
34	-10.132	10.132	288.63	-290.65
35	1.0088	-1.0088	290.65	-290.45
36	12.453	-12.453	290.45	-287.96
37	24.168	-24.168	287.96	-283.13
38	36.186	-36.186	283.13	-275.89
39	48.461	-48.461	275.89	-266.20
40	61.038	-61.038	266.20	-253.99
41	73.888	-73.888	253.99	-239.21
42	-128.09	128.09	239.21	-264.83
43	-114.66	114.66	264.83	-287.76
44	-100.94	100.94	287.76	-307.95
45	-86.942	86.942	307.95	-325.34
46	-72.657	72.657	325.34	-339.87
47	-58.097	58.097	339.87	-351.49
48	-43.239	43.239	351.49	-360.14
49	-28.105	28.105	360.14	-365.76
50	-12.674	12.674	365.76	-368.29
51	3.0331	-3.0331	368.29	-367.69
52	19.038	-19.038	367.69	-363.88
53	35.318	-35.318	363.88	-356.82
54	51.884	-51.884	356.82	-346.44
55	68.727	-68.727	346.44	-332.69
56	85.867	-85.867	332.69	-315.52
57	103.28	-103.28	315.52	-294.86
58	121.00	-121.00	294.86	-270.66
59	138.98	-138.98	270.66	-242.87
60	157.27	-157.27	242.87	-211.41
61	175.82	-175.82	211.41	-176.25
62	194.67	-194.67	176.25	-137.32
63	213.79	-213.79	137.32	-94.556

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 319 di 1221
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64	212.86	-212.86	94.556	-51.984
65	208.88	-208.88	51.984	-10.207
66	201.87	-201.87	10.207	30.167
67	191.81	-191.81	-30.167	68.527
68	178.72	-178.72	-68.527	104.27
69	162.57	-162.57	-104.27	136.78
70	143.39	-143.39	-136.78	165.46
71	121.16	-121.16	-165.46	189.69
72	95.895	-95.895	-189.69	208.87
73	69.845	-69.845	-208.87	222.84
74	44.945	-44.945	-222.84	231.83
75	21.183	-21.183	-231.83	236.07
76	-1.4387	1.4387	-236.07	235.78
77	-22.929	22.929	-235.78	231.19
78	-43.281	43.281	-231.19	222.54
79	-62.513	62.513	-222.54	210.04
80	-80.620	80.620	-210.04	193.91
81	-97.621	97.621	-193.91	174.39
82	-113.51	113.51	-174.39	151.68
83	-124.95	124.95	-151.68	126.70
84	-129.53	129.53	-126.70	100.79
85	-127.37	127.37	-100.79	75.313
86	-118.65	118.65	-75.313	51.583
87	-103.41	103.41	-51.583	30.902
88	-81.637	81.637	-30.902	14.574
89	-53.360	53.360	-14.574	3.9023
90	-19.512	19.512	-3.9023	-5.95390E-12

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  17:58:40  |
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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

Tirante1_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit		
ANCHOR	1	226.02	-8.08417E-04	4.93486E-02	0.0000	2633.3	0.0000	0.0000	ELASTIC	ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  17:58:40  |
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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 . 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit		
ANCHOR	1	222.72	-1.30685E-03	1.19857E-02	0.0000	4214.1	0.0000	0.0000	ELASTIC	ORIGINAL YOUNG MODULUS

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Doc. N.

Progetto
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12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
320 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.A2M2R1_3514                                                                                       |
|          Exe Time :29 July 2019          17:58:40                                                                                       |
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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	2
2	CONVERGENCE :YES	6
3	CONVERGENCE :YES	4
4	CONVERGENCE :YES	7
5	CONVERGENCE :YES	4
6	CONVERGENCE :YES	5

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME 0.08 [sec]

DATABASE CREATION CPU TIME..... 0.34 [sec]

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
321 di 1221

2. SEZIONE 2 – PARATIA DI PALI

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

* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: Nominal

* Time:lunedì 29 luglio 2019 18:00:06

* 1: Defining general settings

UNIT m kN

TITLE New Project

DELTA 0.2

option param itemax 100

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)

WALL LeftWall_32 0 -18 0 1

* 3: Defining surfaces for wall(s)

SOIL 0_L LeftWall_32 -18 0 1 0

SOIL 0_R LeftWall_32 -18 0 2 180

* 4: Defining soil layers

*

* Soil Profile (Strato1_2_8_L_0)

*

LDATA Strato1_2_8_L_0 0 LeftWall_32

ATREST 0.53 1 1

WEIGHT 19 9 10

PERMEABILITY 1E-06

RESISTANCE 0 29

YOUNG 2E+04 6E+04

ENDL

*

* Soil Profile (Strato2_3095_82743_L_0)

*

LDATA Strato2_3095_82743_L_0 -13.1 LeftWall_32

ATREST 0.5 0.5 1

WEIGHT 20 10 10

PERMEABILITY 0.0001

RESISTANCE 20 35

YOUNG 5E+04 1.5E+05

ENDL

* 5: Defining structural materials

* Steel material: 108 Name=Fe360 E=206000200 kPa

MATERIAL Fe360_108 2.06E+08

* Concrete material: 104 Name=C25/30 E=31475800 kPa

MATERIAL C2530_104 3.148E+07

* Rebar material: 124 Name=acciaio armonico E=200100000 kPa

MATERIAL acciaioarmonico_124 2.001E+08

* Concrete material: 103 Name=C20/25 E=29962000 kPa

MATERIAL C2025_103 2.996E+07

* 6: Defining structural elements

* 6.1: Beams and combined Wall Elements

BEAM WallElement_33 LeftWall_32 -18 0 C2530_104 0.6848 00 00 0

* 6.2: Supports

WIRE Tirante1_429 LeftWall_32 -3 acciaioarmonico_124 1.974E-05 140.9 15 0 0

WIRE Tirante2_1507 LeftWall_32 -9 acciaioarmonico_124 3.159E-05 250 15 0 0

* 6.3: Strips

STRIP LeftWall_32 2 7 0.325 39.68 0 49.4 45

STRIP LeftWall_32 2 7 0 40 0 10 30

* 7: Defining Steps

STEP Stage1_31

CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32

CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32

CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32

CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32

CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32

CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32

CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32

CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32

CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 322 di 1221
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```
CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-COHE=20 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -26 0 -18 0 0
ADD WallElement_33
ENDSTEP
```

```
STEP Stage2_755438
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -26 0 -18 0 0
ENDSTEP
```

```
STEP Stage3_158
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -3.5
WATER -26 0 -18 0 0
ENDSTEP
```

```
STEP Stage4_617
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -3.5
WATER -26 0 -18 0 0
ADD Tirante1_429
ENDSTEP
```

```
STEP Stage5_714
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -9.5
WATER -26 0 -18 0 0
ENDSTEP
```

```
STEP Stage6_1682
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -9.5
WATER -26 0 -18 0 0
ADD Tirante2_1507
ENDSTEP
```

```
STEP Stage7_1779
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -13.1
WATER -26 0 -18 0 0
ENDSTEP
```

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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
323 di 1221

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      18:00:06                             |
+-----+

```

```

*****
*                                                                                               *
*  PARATIE PLUS Non-Linear Spring Engine                                                       *
*                                                                                               *
*          AN ELASTOPLASTIC FINITE ELEMENT PROGRAM                                           *
*          FOR FLEXIBLE EARTH-RETAINING STRUCTURES                                           *
*                                                                                               *
*          Written by Ce.A.S. s.r.l. (ITALY)                                                  *
*          with the scientific supervision of                                                  *
*          Roberto Nova - full professor SOIL MECHANICS *                                     *
*          at Politecnico di Milano (ITALY)                                                  *
*                                                                                               *
*****
*  RELEASE  2017.1      *Build date:Jul 11, 2017*  *                                         *
*                                                                                               *
*                                                                                               *
*  Ce.A.S.   S.R.L  CENTRO DI ANALISI STRUTTURALE                                           *
*           VIALE  GIUSTINIANO 10                                                           *
*           20129  M I L A N O (ITALIA)                                                       *
*  TEL.     +39 02 2020221  (+39 035 23 67 19)                                             *
*  FAX      +39 02 29512533  (+39 035 42285 49)                                             *
*  email    bruno.beccici@ceas.it                                                           *
*  Web Page www.ceas.it                                                                     *
*****

```

```

JOB : NewProject.BaseDesignSection_28.Nominal_63
STARTING
ACCEPTED <FILE,GENW                                     >
ACCEPTED <FILE,PLOTTER,BINARY                           >
ACCEPTED <SOLVE TOTAL STRESS                           >
ACCEPTED <PARAM ITEMAX 100                              >
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  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      18:00:06                             |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 91
NO. OF COORDINATES (NCOORD) ..... 2
NO. OF NODE DOFS (NDOF) ..... 2
NO. OF EQUATIONS (NEQ) ..... 182
NO. OF CONSTRAINTS CARDS (NVINC) ..... 0
NO. OF ELEMENT GROUPS (NEG) ..... 5
NO. OF SOLUTION STEPS (NSTE) ..... 7
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 109
NO. OF LONG NAMES (LASTNAME) ..... 26
LENGTH UNIT CHOICE ..... 3 (M )

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 324 di 1221
---------	------------------	-------------	---	-----------	-----------------------

FORCE UNIT CHOICE 3 (KN)
 MAX PORE PRESSURE TABLE LENGTH..... 1
 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  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      18:00:06
|
-----+-----
    
```

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 100
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -18 0 1
7 : SOIL 0_L LeftWall_32 -18 0 1 0
8 : SOIL 0_R LeftWall_32 -18 0 2 180
9 : LDATA Strato1_2_8_L_0 0 LeftWall_32
10 : ATREST 0.53 1 1
11 : WEIGHT 19 9 10
12 : PERMEABILITY 1E-06
13 : RESISTANCE 0 29
14 : YOUNG 2E+04 6E+04
15 : ENDL
16 : LDATA Strato2_3095_82743_L_0 -13.1 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 20 10 10
19 : PERMEABILITY 0.0001
20 : RESISTANCE 20 35
21 : YOUNG 5E+04 1.5E+05
22 : ENDL
23 : MATERIAL Fe360_108 2.06E+08
24 : MATERIAL C2530_104 3.148E+07
25 : MATERIAL acciaioarmonico_124 2.001E+08
26 : MATERIAL C2025_103 2.996E+07
27 : BEAM WallElement_33 LeftWall_32 -18 0 C2530_104 0.6848 00 00 0
28 : WIRE Tirante1_429 LeftWall_32 -3 acciaioarmonico_124 1.974E-05 140.9 15 0 0
29 : WIRE Tirante2_1507 LeftWall_32 -9 acciaioarmonico_124 3.159E-05 250 15 0 0
30 : STRIP LeftWall_32 2 7 0.325 39.68 0 49.4 45
31 : STRIP LeftWall_32 2 7 0 40 0 10 30
32 : STEP Stage1_31
33 : CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32
34 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
35 : CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32
36 : CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32
37 : CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32
38 : CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32
39 : CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32
40 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
41 : CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32
42 : CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32
43 : CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32
44 : CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32
45 : CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
46 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
47 : CHANGE Strato2_3095_82743_L_0 U-COHE=20 LeftWall_32
48 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
49 : SETWALL LeftWall_32
50 : GEOM 0 0
    
```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
325 di 1221

```

51 : WATER -26 0 -18 0 0
52 : ADD WallElement_33
53 : ENDSTEP
54 : STEP Stage2_755438
55 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
56 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
57 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
58 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
59 : SETWALL LeftWall_32
60 : GEOM 0 0
61 : WATER -26 0 -18 0 0
62 : ENDSTEP
63 : STEP Stage3_158
64 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
65 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
66 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
67 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
68 : SETWALL LeftWall_32
69 : GEOM 0 -3.5
70 : WATER -26 0 -18 0 0
71 : ENDSTEP
72 : STEP Stage4_617
73 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
74 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
75 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
76 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
77 : SETWALL LeftWall_32
78 : GEOM 0 -3.5
79 : WATER -26 0 -18 0 0
80 : ADD Tirante1_429
81 : ENDSTEP
82 : STEP Stage5_714
83 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
84 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
85 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
86 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
87 : SETWALL LeftWall_32
88 : GEOM 0 -9.5
89 : WATER -26 0 -18 0 0
90 : ENDSTEP
91 : STEP Stage6_1682
92 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
93 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
94 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
95 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
96 : SETWALL LeftWall_32
97 : GEOM 0 -9.5
98 : WATER -26 0 -18 0 0
99 : ADD Tirante2_1507
100 : ENDSTEP
101 : STEP Stage7_1779
102 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
103 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
104 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
105 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
106 : SETWALL LeftWall_32
107 : GEOM 0 -13.1
108 : WATER -26 0 -18 0 0
109 : ENDSTEP
    
```

```

-----
|          PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017* |
|                                                                    |
|          NewProject.BaseDesignSection_28.Nominal_63           |
|          Exe Time :29 July 2019           18:00:06           |
|                                                                    |
-----
    
```

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 / 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 /

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 326 di 1221						
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	-10.2000 /
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 /			

```

-----+-----
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019  18:00:06  |
|-----+-----

```

```

ELEMENT GROUP NO. 1

0_L      :
 5 91 0 1 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0

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

```

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	active
6	active
7	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

```

```

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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 327 di 1221
---------	------------------	-------------	---	-----------	-----------------------

27	27	1	0.2000	0.000	0.000	0.000	1.000
28	28	1	0.2000	0.000	0.000	0.000	1.000
29	29	1	0.2000	0.000	0.000	0.000	1.000
30	30	1	0.2000	0.000	0.000	0.000	1.000
31	31	1	0.2000	0.000	0.000	0.000	1.000
32	32	1	0.2000	0.000	0.000	0.000	1.000
33	33	1	0.2000	0.000	0.000	0.000	1.000
34	34	1	0.2000	0.000	0.000	0.000	1.000
35	35	1	0.2000	0.000	0.000	0.000	1.000
36	36	1	0.2000	0.000	0.000	0.000	1.000
37	37	1	0.2000	0.000	0.000	0.000	1.000
38	38	1	0.2000	0.000	0.000	0.000	1.000
39	39	1	0.2000	0.000	0.000	0.000	1.000
40	40	1	0.2000	0.000	0.000	0.000	1.000
41	41	1	0.2000	0.000	0.000	0.000	1.000
42	42	1	0.2000	0.000	0.000	0.000	1.000
43	43	1	0.2000	0.000	0.000	0.000	1.000
44	44	1	0.2000	0.000	0.000	0.000	1.000
45	45	1	0.2000	0.000	0.000	0.000	1.000
46	46	1	0.2000	0.000	0.000	0.000	1.000
47	47	1	0.2000	0.000	0.000	0.000	1.000
48	48	1	0.2000	0.000	0.000	0.000	1.000
49	49	1	0.2000	0.000	0.000	0.000	1.000
50	50	1	0.2000	0.000	0.000	0.000	1.000
51	51	1	0.2000	0.000	0.000	0.000	1.000
52	52	1	0.2000	0.000	0.000	0.000	1.000
53	53	1	0.2000	0.000	0.000	0.000	1.000
54	54	1	0.2000	0.000	0.000	0.000	1.000
55	55	1	0.2000	0.000	0.000	0.000	1.000
56	56	1	0.2000	0.000	0.000	0.000	1.000
57	57	1	0.2000	0.000	0.000	0.000	1.000
58	58	1	0.2000	0.000	0.000	0.000	1.000
59	59	1	0.2000	0.000	0.000	0.000	1.000
60	60	1	0.2000	0.000	0.000	0.000	1.000
61	61	1	0.2000	0.000	0.000	0.000	1.000
62	62	1	0.2000	0.000	0.000	0.000	1.000
63	63	1	0.2000	0.000	0.000	0.000	1.000
64	64	1	0.2000	0.000	0.000	0.000	1.000
65	65	1	0.2000	0.000	0.000	0.000	1.000
66	66	1	0.2000	0.000	0.000	0.000	1.000
67	67	2	0.2000	0.000	0.000	0.000	1.000
68	68	2	0.2000	0.000	0.000	0.000	1.000
69	69	2	0.2000	0.000	0.000	0.000	1.000
70	70	2	0.2000	0.000	0.000	0.000	1.000
71	71	2	0.2000	0.000	0.000	0.000	1.000
72	72	2	0.2000	0.000	0.000	0.000	1.000
73	73	2	0.2000	0.000	0.000	0.000	1.000
74	74	2	0.2000	0.000	0.000	0.000	1.000
75	75	2	0.2000	0.000	0.000	0.000	1.000
76	76	2	0.2000	0.000	0.000	0.000	1.000
77	77	2	0.2000	0.000	0.000	0.000	1.000
78	78	2	0.2000	0.000	0.000	0.000	1.000
79	79	2	0.2000	0.000	0.000	0.000	1.000
80	80	2	0.2000	0.000	0.000	0.000	1.000
81	81	2	0.2000	0.000	0.000	0.000	1.000
82	82	2	0.2000	0.000	0.000	0.000	1.000
83	83	2	0.2000	0.000	0.000	0.000	1.000
84	84	2	0.2000	0.000	0.000	0.000	1.000
85	85	2	0.2000	0.000	0.000	0.000	1.000
86	86	2	0.2000	0.000	0.000	0.000	1.000
87	87	2	0.2000	0.000	0.000	0.000	1.000
88	88	2	0.2000	0.000	0.000	0.000	1.000
89	89	2	0.2000	0.000	0.000	0.000	1.000
90	90	2	0.2000	0.000	0.000	0.000	1.000
91	91	2	0.1000	0.000	0.000	0.000	1.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019  18:00:06                               |
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```

```

ELEMENT GROUP NO. 2

0_R
5 91 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0 0
.....
.....2D PLASTIC SOIL .....
.....

element group behaviour throughout stage analysis

```


GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 328 di 1221
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stage status

```

-----
1 active
2 active
3 active
4 active
5 active
6 active
7 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
    
```

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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000
24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	0.2000	0.000	0.000	0.000	2.000
28	28	1	0.2000	0.000	0.000	0.000	2.000
29	29	1	0.2000	0.000	0.000	0.000	2.000
30	30	1	0.2000	0.000	0.000	0.000	2.000
31	31	1	0.2000	0.000	0.000	0.000	2.000
32	32	1	0.2000	0.000	0.000	0.000	2.000
33	33	1	0.2000	0.000	0.000	0.000	2.000
34	34	1	0.2000	0.000	0.000	0.000	2.000
35	35	1	0.2000	0.000	0.000	0.000	2.000
36	36	1	0.2000	0.000	0.000	0.000	2.000
37	37	1	0.2000	0.000	0.000	0.000	2.000
38	38	1	0.2000	0.000	0.000	0.000	2.000
39	39	1	0.2000	0.000	0.000	0.000	2.000
40	40	1	0.2000	0.000	0.000	0.000	2.000
41	41	1	0.2000	0.000	0.000	0.000	2.000
42	42	1	0.2000	0.000	0.000	0.000	2.000
43	43	1	0.2000	0.000	0.000	0.000	2.000
44	44	1	0.2000	0.000	0.000	0.000	2.000
45	45	1	0.2000	0.000	0.000	0.000	2.000
46	46	1	0.2000	0.000	0.000	0.000	2.000
47	47	1	0.2000	0.000	0.000	0.000	2.000
48	48	1	0.2000	0.000	0.000	0.000	2.000
49	49	1	0.2000	0.000	0.000	0.000	2.000
50	50	1	0.2000	0.000	0.000	0.000	2.000
51	51	1	0.2000	0.000	0.000	0.000	2.000
52	52	1	0.2000	0.000	0.000	0.000	2.000
53	53	1	0.2000	0.000	0.000	0.000	2.000
54	54	1	0.2000	0.000	0.000	0.000	2.000
55	55	1	0.2000	0.000	0.000	0.000	2.000
56	56	1	0.2000	0.000	0.000	0.000	2.000
57	57	1	0.2000	0.000	0.000	0.000	2.000
58	58	1	0.2000	0.000	0.000	0.000	2.000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 329 di 1221
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59	59	1	0.2000	0.000	0.000	0.000	2.000
60	60	1	0.2000	0.000	0.000	0.000	2.000
61	61	1	0.2000	0.000	0.000	0.000	2.000
62	62	1	0.2000	0.000	0.000	0.000	2.000
63	63	1	0.2000	0.000	0.000	0.000	2.000
64	64	1	0.2000	0.000	0.000	0.000	2.000
65	65	1	0.2000	0.000	0.000	0.000	2.000
66	66	1	0.2000	0.000	0.000	0.000	2.000
67	67	2	0.2000	0.000	0.000	0.000	2.000
68	68	2	0.2000	0.000	0.000	0.000	2.000
69	69	2	0.2000	0.000	0.000	0.000	2.000
70	70	2	0.2000	0.000	0.000	0.000	2.000
71	71	2	0.2000	0.000	0.000	0.000	2.000
72	72	2	0.2000	0.000	0.000	0.000	2.000
73	73	2	0.2000	0.000	0.000	0.000	2.000
74	74	2	0.2000	0.000	0.000	0.000	2.000
75	75	2	0.2000	0.000	0.000	0.000	2.000
76	76	2	0.2000	0.000	0.000	0.000	2.000
77	77	2	0.2000	0.000	0.000	0.000	2.000
78	78	2	0.2000	0.000	0.000	0.000	2.000
79	79	2	0.2000	0.000	0.000	0.000	2.000
80	80	2	0.2000	0.000	0.000	0.000	2.000
81	81	2	0.2000	0.000	0.000	0.000	2.000
82	82	2	0.2000	0.000	0.000	0.000	2.000
83	83	2	0.2000	0.000	0.000	0.000	2.000
84	84	2	0.2000	0.000	0.000	0.000	2.000
85	85	2	0.2000	0.000	0.000	0.000	2.000
86	86	2	0.2000	0.000	0.000	0.000	2.000
87	87	2	0.2000	0.000	0.000	0.000	2.000
88	88	2	0.2000	0.000	0.000	0.000	2.000
89	89	2	0.2000	0.000	0.000	0.000	2.000
90	90	2	0.2000	0.000	0.000	0.000	2.000
91	91	2	0.1000	0.000	0.000	0.000	2.000

```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      18:00:06                             |
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```

```

ELEMENT GROUP NO. 3

WallElement_33
:
2 90 0 1 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
4	active
5	active
6	active
7	active

```

material set no. 1

prop( 1) young modulus 0.314800E+08
prop( 2) modification time 0.00000
prop( 3) new young modulus 0.00000
prop( 4) poisson ratio 0.00000
prop( 5) future .....0.308300E-43

```

```

no. of step variable items: 1
step inertia multiplier
-----
1 1.000
2 1.000
3 1.000
4 1.000
5 1.000
6 1.000
7 1.000

```

```

element data

el na nb mat erc1 erc2 thick by-i by-j

```

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
330 di 1221

1	1	2	1	0.000	0.000	0.6848	0.000	0.000
2	2	3	1	0.000	0.000	0.6848	0.000	0.000
3	3	4	1	0.000	0.000	0.6848	0.000	0.000
4	4	5	1	0.000	0.000	0.6848	0.000	0.000
5	5	6	1	0.000	0.000	0.6848	0.000	0.000
6	6	7	1	0.000	0.000	0.6848	0.000	0.000
7	7	8	1	0.000	0.000	0.6848	0.000	0.000
8	8	9	1	0.000	0.000	0.6848	0.000	0.000
9	9	10	1	0.000	0.000	0.6848	0.000	0.000
10	10	11	1	0.000	0.000	0.6848	0.000	0.000
11	11	12	1	0.000	0.000	0.6848	0.000	0.000
12	12	13	1	0.000	0.000	0.6848	0.000	0.000
13	13	14	1	0.000	0.000	0.6848	0.000	0.000
14	14	15	1	0.000	0.000	0.6848	0.000	0.000
15	15	16	1	0.000	0.000	0.6848	0.000	0.000
16	16	17	1	0.000	0.000	0.6848	0.000	0.000
17	17	18	1	0.000	0.000	0.6848	0.000	0.000
18	18	19	1	0.000	0.000	0.6848	0.000	0.000
19	19	20	1	0.000	0.000	0.6848	0.000	0.000
20	20	21	1	0.000	0.000	0.6848	0.000	0.000
21	21	22	1	0.000	0.000	0.6848	0.000	0.000
22	22	23	1	0.000	0.000	0.6848	0.000	0.000
23	23	24	1	0.000	0.000	0.6848	0.000	0.000
24	24	25	1	0.000	0.000	0.6848	0.000	0.000
25	25	26	1	0.000	0.000	0.6848	0.000	0.000
26	26	27	1	0.000	0.000	0.6848	0.000	0.000
27	27	28	1	0.000	0.000	0.6848	0.000	0.000
28	28	29	1	0.000	0.000	0.6848	0.000	0.000
29	29	30	1	0.000	0.000	0.6848	0.000	0.000
30	30	31	1	0.000	0.000	0.6848	0.000	0.000
31	31	32	1	0.000	0.000	0.6848	0.000	0.000
32	32	33	1	0.000	0.000	0.6848	0.000	0.000
33	33	34	1	0.000	0.000	0.6848	0.000	0.000
34	34	35	1	0.000	0.000	0.6848	0.000	0.000
35	35	36	1	0.000	0.000	0.6848	0.000	0.000
36	36	37	1	0.000	0.000	0.6848	0.000	0.000
37	37	38	1	0.000	0.000	0.6848	0.000	0.000
38	38	39	1	0.000	0.000	0.6848	0.000	0.000
39	39	40	1	0.000	0.000	0.6848	0.000	0.000
40	40	41	1	0.000	0.000	0.6848	0.000	0.000
41	41	42	1	0.000	0.000	0.6848	0.000	0.000
42	42	43	1	0.000	0.000	0.6848	0.000	0.000
43	43	44	1	0.000	0.000	0.6848	0.000	0.000
44	44	45	1	0.000	0.000	0.6848	0.000	0.000
45	45	46	1	0.000	0.000	0.6848	0.000	0.000
46	46	47	1	0.000	0.000	0.6848	0.000	0.000
47	47	48	1	0.000	0.000	0.6848	0.000	0.000
48	48	49	1	0.000	0.000	0.6848	0.000	0.000
49	49	50	1	0.000	0.000	0.6848	0.000	0.000
50	50	51	1	0.000	0.000	0.6848	0.000	0.000
51	51	52	1	0.000	0.000	0.6848	0.000	0.000
52	52	53	1	0.000	0.000	0.6848	0.000	0.000
53	53	54	1	0.000	0.000	0.6848	0.000	0.000
54	54	55	1	0.000	0.000	0.6848	0.000	0.000
55	55	56	1	0.000	0.000	0.6848	0.000	0.000
56	56	57	1	0.000	0.000	0.6848	0.000	0.000
57	57	58	1	0.000	0.000	0.6848	0.000	0.000
58	58	59	1	0.000	0.000	0.6848	0.000	0.000
59	59	60	1	0.000	0.000	0.6848	0.000	0.000
60	60	61	1	0.000	0.000	0.6848	0.000	0.000
61	61	62	1	0.000	0.000	0.6848	0.000	0.000
62	62	63	1	0.000	0.000	0.6848	0.000	0.000
63	63	64	1	0.000	0.000	0.6848	0.000	0.000
64	64	65	1	0.000	0.000	0.6848	0.000	0.000
65	65	66	1	0.000	0.000	0.6848	0.000	0.000
66	66	67	1	0.000	0.000	0.6848	0.000	0.000
67	67	68	1	0.000	0.000	0.6848	0.000	0.000
68	68	69	1	0.000	0.000	0.6848	0.000	0.000
69	69	70	1	0.000	0.000	0.6848	0.000	0.000
70	70	71	1	0.000	0.000	0.6848	0.000	0.000
71	71	72	1	0.000	0.000	0.6848	0.000	0.000
72	72	73	1	0.000	0.000	0.6848	0.000	0.000
73	73	74	1	0.000	0.000	0.6848	0.000	0.000
74	74	75	1	0.000	0.000	0.6848	0.000	0.000
75	75	76	1	0.000	0.000	0.6848	0.000	0.000
76	76	77	1	0.000	0.000	0.6848	0.000	0.000
77	77	78	1	0.000	0.000	0.6848	0.000	0.000
78	78	79	1	0.000	0.000	0.6848	0.000	0.000
79	79	80	1	0.000	0.000	0.6848	0.000	0.000
80	80	81	1	0.000	0.000	0.6848	0.000	0.000
81	81	82	1	0.000	0.000	0.6848	0.000	0.000
82	82	83	1	0.000	0.000	0.6848	0.000	0.000
83	83	84	1	0.000	0.000	0.6848	0.000	0.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 331 di 1221
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84	84	85	1	0.000	0.000	0.6848	0.000	0.000
85	85	86	1	0.000	0.000	0.6848	0.000	0.000
86	86	87	1	0.000	0.000	0.6848	0.000	0.000
87	87	88	1	0.000	0.000	0.6848	0.000	0.000
88	88	89	1	0.000	0.000	0.6848	0.000	0.000
89	89	90	1	0.000	0.000	0.6848	0.000	0.000
90	90	91	1	0.000	0.000	0.6848	0.000	0.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      18:00:06                             |
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```

```

ELEMENT GROUP NO.  4

Tirantel_429      :
 6  1  0  1  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  2  0
.....
.....2D POST-TENSION ANCHOR.....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
 1  inactive
 2  inactive
 3  inactive
 4  active
 5  active
 6  active
 7  active

```

```

material set no.  1

prop( 1) angle      15.0000
prop( 2) young modulus 0.200100E+09
prop( 3) modification time 0.00000
prop( 4) new young modulus 0.00000

```

```

no. of step variable items:  2
step  -ve lim  +ve lim
-----
 1  0.000  0.000
 2  0.000  0.000
 3  0.000  0.000
 4  0.000  0.000
 5  0.000  0.000
 6  0.000  0.000
 7  0.000  0.000

```

```

element data

el  n  mat  a/l  pinit  yieldc  yieldt
-----
 1  16  1  0.1974E-04  140.9  0.000  0.000

```

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      18:00:06                             |
+-----+

```

```

ELEMENT GROUP NO.  5

Tirante2_1507    :
 6  1  0  1  0  0  0  0  0  0  0  0  0  0  0  1  0  0  2  0
.....
.....2D POST-TENSION ANCHOR.....
.....

```

element group behaviour throughout stage analysis

```

stage  status
-----
 1  inactive
 2  inactive
 3  inactive

```

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
332 di 1221

4 inactive
5 inactive
6 active
7 active

material set no. 1

prop(1) angle 15.0000
prop(2) young modulus 0.200100E+09
prop(3) modification time 0.00000
prop(4) new young modulus 0.00000

no. of step variable items: 2

step	-ve lim	+ve lim
1	0.000	0.000
2	0.000	0.000
3	0.000	0.000
4	0.000	0.000
5	0.000	0.000
6	0.000	0.000
7	0.000	0.000

element data

el	n	mat	a/l	pinit	yieldc	yieldt
1	46	1	0.3159E-04	250.0	0.000	0.000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      18:00:06                             |
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NO. OF NODAL LOADS (NLOAD) 0
NO. OF LOAD CURVES (NLCUR) 14
MAXIMUM POINTS/LCURVE (NPTM)..... 5

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      18:00:06                             |
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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
8.00000	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
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 3
NUMBER OF TIME POINTS = 5

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
333 di 1221

TIME VALUE FUNCTION

0.00000 0.0000E+00
2.80000 0.0000E+00
3.00000 0.1000E+01
3.20000 0.0000E+00
8.00000 0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

TIME VALUE FUNCTION

0.00000 0.0000E+00
3.80000 0.0000E+00
4.00000 0.1000E+01
4.20000 0.0000E+00
8.00000 0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 5

TIME VALUE FUNCTION

0.00000 0.0000E+00
4.80000 0.0000E+00
5.00000 0.1000E+01
5.20000 0.0000E+00
8.00000 0.0000E+00

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 5

TIME VALUE FUNCTION

0.00000 0.0000E+00
5.80000 0.0000E+00
6.00000 0.1000E+01
6.20000 0.0000E+00
8.00000 0.0000E+00

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 5

TIME VALUE FUNCTION

0.00000 0.0000E+00
6.80000 0.0000E+00
7.00000 0.1000E+01
7.20000 0.0000E+00
8.00000 0.0000E+00

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000 0.0000E+00
0.80000 0.0000E+00
1.00000 0.1000E+01
8.00000 0.1000E+01

LOAD FUNCTION NUMBER = 9
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000 0.0000E+00
1.80000 0.0000E+00
2.00000 0.1000E+01
8.00000 0.1000E+01



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 334 di 1221
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LOAD FUNCTION NUMBER = 10
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 11
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 12
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 13
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 14
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
6.80000	0.0000E+00
7.00000	0.1000E+01
8.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                           |
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|                                                                                                                                           |
|          NewProject.BaseDesignSection_28.Nominal_63          |
|          Exe Time :29 July 2019          18:00:06          |
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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



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 335 di 1221
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STEP	4	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	4	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	6	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	6	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	7	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	7	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      18:00:06                           |
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NO. OF LAYERS 2
 NO. OF DATA PER LAYER..... 100

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      18:00:06                           |
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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	>= 18.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(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.	9<U-FRICT	>= 29.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.30400	WALL NO.	1
ITEM NO.	11<U-KP	>= 4.0410	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.53000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 1.0000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 20000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 60000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-05	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 29.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.30400	WALL NO.	1
ITEM NO.	61<D-KP	>= 4.0410	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-05	(BOTH WALLS)	

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

ITEM NO.	1<NAME	>= 19.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -13.100	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 20.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 20.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.23500	WALL NO.	1
ITEM NO.	11<U-KP	>= 5.8790	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 336 di 1221
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ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 337 di 1221
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ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 338 di 1221
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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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 5

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 5

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 6

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 6

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 339 di 1221
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ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 6

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 7

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 7

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 7

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 WALL NO. 1

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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
340 di 1221

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	>= 50000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 20.000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.23500	WALL NO.	1
ITEM NO.	61<D-KP	>= 5.8790	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

DEFAULT WATER UNIT WEIGHT = 10.000
AVERAGED ON 14 VALUES

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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
341 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019  18:00:06  |
+-----+
    
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PHASE DESCRIPTORS

STEP NO.	1	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
342 di 1221

=====end of step 2

STEP NO.	3	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-3.500	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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

STEP NO.	4	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-3.500	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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 4

STEP NO.	5	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-9.500	0.000

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 343 di 1221
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Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-18.00	-18.00
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 5

STEP NO.	6		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-9.500	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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 6

STEP NO.	7		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-13.10	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
WATER_BEHAVIOUR_FLAG (LINING OPT)		0.000	0.000

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 344 di 1221
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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 7

LEFT-HAND WALL

```

LOWER LEVEL      -18.00000
UPPER LEVEL      0.00000

```

RIGHT-HAND WALL

```

LOWER LEVEL      -18.00000
UPPER LEVEL      0.00000

```

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|           PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                           |
|                                NewProject.BaseDesignSection_28.Nominal_63  |
|                                Exe Time :29 July 2019      18:00:06          |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+

```

INITIAL STRESS TABLES

SECTION

NUMBER OF DEFINED TABLES 2

```

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

```

```

ACTIVATION TIME          2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED)  7.0000

```

TYPE BOUSSINESQ

```

HORIZONTAL DISTANCE (DY)      0.32500000000000000
FOUNDATION WIDTH (B)         39.680000000000000
ZETA-F.....                0.0000000000000000E+000
Q-F .....                   49.400000000000000
BETA .....                  45.000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.0000000000000000E+000

```

```

INPUT DATA FOR INITIAL STRESS SET NO.  2
PERTAINING SOIL ELEMENTS AT Y-COORD  0.0000

```

```

ACTIVATION TIME          2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED)  7.0000

```

TYPE BOUSSINESQ

```

HORIZONTAL DISTANCE (DY)      0.0000000000000000E+000
FOUNDATION WIDTH (B)         40.000000000000000
ZETA-F.....                0.0000000000000000E+000
Q-F .....                   10.000000000000000
BETA .....                  30.000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.0000000000000000E+000

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
345 di 1221

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION 4903

NO. OF D.P.W FOR THIS AREA 10857
MAX NO. OF D.P.W. AVAILABLE 81920
** MAX NO OF ITERATIONS SET TO 100

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7368E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 34.29 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7368E+05 RDR = 0.000
RATIOT= 0.000 RATIOR= 0.000
MAX UN= 0.000 IEQ= 182 NODE 91 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7368E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 34.29 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7368E+05 RDR = 0.000
RATIOT= 0.000 RATIOR= 0.000
MAX UN= 0.000 IEQ= 182 NODE 91 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7368E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 34.29 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7368E+05 RDR = 0.000
RATIOT= 0.000 RATIOR= 0.000
MAX UN= 0.000 IEQ= 182 NODE 91 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| | |
| NewProject.BaseDesignSection_28.Nominal_63 |
Exe Time :29 July 2019 18:00:06

New Project
SOLUTION REACHED USING 2 ITERATIONS ON 100
PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)
Y-DISPL.F X-ROT. F
(02) (04) (

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| | |
| NewProject.BaseDesignSection_28.Nominal_63 |
Exe Time :29 July 2019 18:00:06

New Project
STRESS RESULTS FOR GROUP NO. 1
0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 1.0000
HARDENING 2D SOIL ELEMENT

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 347 di 1221						
40 D	15.71	0.000	148.2 78.55	148.2	78.55	V-C	1.4147E+04	-7.800	0.000	1.000	1.000
78.55	0.000	0.000	Strato1_2_8_L_0								
41 D	16.11	0.000	152.0 80.56	152.0	80.56	V-C	1.4147E+04	-8.000	0.000	1.000	1.000
80.56	0.000	0.000	Strato1_2_8_L_0								
42 D	16.51	0.000	155.8 82.57	155.8	82.57	V-C	1.4147E+04	-8.200	0.000	1.000	1.000
82.57	0.000	0.000	Strato1_2_8_L_0								
43 D	16.92	0.000	159.6 84.59	159.6	84.59	V-C	1.4147E+04	-8.400	0.000	1.000	1.000
84.59	0.000	0.000	Strato1_2_8_L_0								
44 D	17.32	0.000	163.4 86.60	163.4	86.60	V-C	1.4147E+04	-8.600	0.000	1.000	1.000
86.60	0.000	0.000	Strato1_2_8_L_0								
45 D	17.72	0.000	167.2 88.62	167.2	88.62	V-C	1.4147E+04	-8.800	0.000	1.000	1.000
88.62	0.000	0.000	Strato1_2_8_L_0								
46 D	18.13	0.000	171.0 90.63	171.0	90.63	V-C	1.4147E+04	-9.000	0.000	1.000	1.000
90.63	0.000	0.000	Strato1_2_8_L_0								
47 D	18.53	0.000	174.8 92.64	174.8	92.64	V-C	1.4147E+04	-9.200	0.000	1.000	1.000
92.64	0.000	0.000	Strato1_2_8_L_0								
48 D	18.93	0.000	178.6 94.66	178.6	94.66	V-C	1.4147E+04	-9.400	0.000	1.000	1.000
94.66	0.000	0.000	Strato1_2_8_L_0								
49 D	19.33	0.000	182.4 96.67	182.4	96.67	V-C	1.4147E+04	-9.600	0.000	1.000	1.000
96.67	0.000	0.000	Strato1_2_8_L_0								
50 D	19.74	0.000	186.2 98.69	186.2	98.69	V-C	1.4147E+04	-9.800	0.000	1.000	1.000
98.69	0.000	0.000	Strato1_2_8_L_0								
51 D	20.14	0.000	190.0 100.7	190.0	100.7	V-C	1.4147E+04	-10.00	0.000	1.000	1.000
100.7	0.000	0.000	Strato1_2_8_L_0								
52 D	20.54	0.000	193.8 102.7	193.8	102.7	V-C	1.4147E+04	-10.20	0.000	1.000	1.000
102.7	0.000	0.000	Strato1_2_8_L_0								
53 D	20.95	0.000	197.6 104.7	197.6	104.7	V-C	1.4147E+04	-10.40	0.000	1.000	1.000
104.7	0.000	0.000	Strato1_2_8_L_0								
54 D	21.35	0.000	201.4 106.7	201.4	106.7	V-C	1.4147E+04	-10.60	0.000	1.000	1.000
106.7	0.000	0.000	Strato1_2_8_L_0								
55 D	21.75	0.000	205.2 108.8	205.2	108.8	V-C	1.4147E+04	-10.80	0.000	1.000	1.000
108.8	0.000	0.000	Strato1_2_8_L_0								
56 D	22.15	0.000	209.0 110.8	209.0	110.8	V-C	1.4147E+04	-11.00	0.000	1.000	1.000
110.8	0.000	0.000	Strato1_2_8_L_0								
57 D	22.56	0.000	212.8 112.8	212.8	112.8	V-C	1.4147E+04	-11.20	0.000	1.000	1.000
112.8	0.000	0.000	Strato1_2_8_L_0								
58 D	22.96	0.000	216.6 114.8	216.6	114.8	V-C	1.4147E+04	-11.40	0.000	1.000	1.000
114.8	0.000	0.000	Strato1_2_8_L_0								
59 D	23.36	0.000	220.4 116.8	220.4	116.8	V-C	1.4147E+04	-11.60	0.000	1.000	1.000
116.8	0.000	0.000	Strato1_2_8_L_0								
60 D	23.77	0.000	224.2 118.8	224.2	118.8	V-C	1.4147E+04	-11.80	0.000	1.000	1.000
118.8	0.000	0.000	Strato1_2_8_L_0								
61 D	24.17	0.000	228.0 120.8	228.0	120.8	V-C	1.4147E+04	-12.00	0.000	1.000	1.000
120.8	0.000	0.000	Strato1_2_8_L_0								
62 D	24.57	0.000	231.8 122.9	231.8	122.9	V-C	1.4147E+04	-12.20	0.000	1.000	1.000
122.9	0.000	0.000	Strato1_2_8_L_0								
63 D	24.97	0.000	235.6 124.9	235.6	124.9	V-C	1.4147E+04	-12.40	0.000	1.000	1.000
124.9	0.000	0.000	Strato1_2_8_L_0								
64 D	25.38	0.000	239.4 126.9	239.4	126.9	V-C	1.4147E+04	-12.60	0.000	1.000	1.000
126.9	0.000	0.000	Strato1_2_8_L_0								
65 D	25.78	0.000	243.2 128.9	243.2	128.9	V-C	1.4147E+04	-12.80	0.000	1.000	1.000
128.9	0.000	0.000	Strato1_2_8_L_0								
66 D	26.18	0.000	247.0 130.9	247.0	130.9	V-C	1.4147E+04	-13.00	0.000	1.000	1.000
130.9	0.000	0.000	Strato1_2_8_L_0								
67 D	25.09	0.000	250.9 125.5	250.9	125.5	V-C	4.0020E+04	-13.20	0.000	1.000	1.000
125.5	0.000	0.000	Strato2_3095_82743_L_0								
68 D	25.49	0.000	254.9 127.5	254.9	127.5	V-C	4.0020E+04	-13.40	0.000	1.000	1.000
127.5	0.000	0.000	Strato2_3095_82743_L_0								
69 D	25.89	0.000	258.9 129.4	258.9	129.4	V-C	4.0020E+04	-13.60	0.000	1.000	1.000
129.4	0.000	0.000	Strato2_3095_82743_L_0								
70 D	26.29	0.000	262.9 131.5	262.9	131.5	V-C	4.0020E+04	-13.80	0.000	1.000	1.000
131.5	0.000	0.000	Strato2_3095_82743_L_0								
71 D	26.69	0.000	266.9 133.5	266.9	133.5	V-C	4.0020E+04	-14.00	0.000	1.000	1.000
133.5	0.000	0.000	Strato2_3095_82743_L_0								
72 D	27.09	0.000	270.9 135.4	270.9	135.4	V-C	4.0020E+04	-14.20	0.000	1.000	1.000
135.4	0.000	0.000	Strato2_3095_82743_L_0								
73 D	27.49	0.000	274.9 137.4	274.9	137.4	V-C	4.0020E+04	-14.40	0.000	1.000	1.000
137.4	0.000	0.000	Strato2_3095_82743_L_0								
74 D	27.89	0.000	278.9 139.4	278.9	139.4	V-C	4.0020E+04	-14.60	0.000	1.000	1.000
139.4	0.000	0.000	Strato2_3095_82743_L_0								
75 D	28.29	0.000	282.9 141.4	282.9	141.4	V-C	4.0020E+04	-14.80	0.000	1.000	1.000
141.4	0.000	0.000	Strato2_3095_82743_L_0								
76 D	28.69	0.000	286.9 143.4	286.9	143.4	V-C	4.0020E+04	-15.00	0.000	1.000	1.000
143.4	0.000	0.000	Strato2_3095_82743_L_0								
77 D	29.09	0.000	290.9 145.4	290.9	145.4	V-C	4.0020E+04	-15.20	0.000	1.000	1.000
145.4	0.000	0.000	Strato2_3095_82743_L_0								
78 D	29.49	0.000	294.9 147.4	294.9	147.4	V-C	4.0020E+04	-15.40	0.000	1.000	1.000
147.4	0.000	0.000	Strato2_3095_82743_L_0								
79 D	29.89	0.000	298.9 149.4	298.9	149.4	V-C	4.0020E+04	-15.60	0.000	1.000	1.000
149.4	0.000	0.000	Strato2_3095_82743_L_0								
80 D	30.29	0.000	302.9 151.4	302.9	151.4	V-C	4.0020E+04	-15.80	0.000	1.000	1.000
151.4	0.000	0.000	Strato2_3095_82743_L_0								
81 D	30.69	0.000	306.9 153.4	306.9	153.4	V-C	4.0020E+04	-16.00	0.000	1.000	1.000
153.4	0.000	0.000	Strato2_3095_82743_L_0								
82 D	31.09	0.000	310.9 155.4	310.9	155.4	V-C	4.0020E+04	-16.20	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 348 di 1221
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155.4	0.000	0.000	Strato2_3095_82743_L_0									
83 D	31.49	0.000	314.9	157.4	314.9	157.4	V-C	4.0020E+04	-16.40	0.000	1.000	1.000
157.4	0.000	0.000	Strato2_3095_82743_L_0									
84 D	31.89	0.000	318.9	159.4	318.9	159.4	V-C	4.0020E+04	-16.60	0.000	1.000	1.000
159.4	0.000	0.000	Strato2_3095_82743_L_0									
85 D	32.29	0.000	322.9	161.5	322.9	161.5	V-C	4.0020E+04	-16.80	0.000	1.000	1.000
161.5	0.000	0.000	Strato2_3095_82743_L_0									
86 D	32.69	0.000	326.9	163.4	326.9	163.4	V-C	4.0020E+04	-17.00	0.000	1.000	1.000
163.4	0.000	0.000	Strato2_3095_82743_L_0									
87 D	33.09	0.000	330.9	165.4	330.9	165.4	V-C	4.0020E+04	-17.20	0.000	1.000	1.000
165.4	0.000	0.000	Strato2_3095_82743_L_0									
88 D	33.49	0.000	334.9	167.4	334.9	167.4	V-C	4.0020E+04	-17.40	0.000	1.000	1.000
167.4	0.000	0.000	Strato2_3095_82743_L_0									
89 D	33.89	0.000	338.9	169.5	338.9	169.5	V-C	4.0020E+04	-17.60	0.000	1.000	1.000
169.5	0.000	0.000	Strato2_3095_82743_L_0									
90 D	34.29	0.000	342.9	171.5	342.9	171.5	V-C	4.0020E+04	-17.80	0.000	1.000	1.000
171.5	0.000	0.000	Strato2_3095_82743_L_0									
91 D	17.34	0.000	346.9	173.4	346.9	173.4	V-C	4.0020E+04	-18.00	0.000	1.000	1.000
173.4	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019    18:00:06                             |
+-----+
    
```

New Project

STRESS RESULTS FOR GROUP NO. 2

0_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 1.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	9817.	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_2_8_L_0									
2 D	0.4028	0.000	3.800	2.014	3.800	2.014	V-C	9817.	-0.2000	0.000	1.000	1.000
2.014	0.000	0.000	Strato1_2_8_L_0									
3 D	0.8056	0.000	7.600	4.028	7.600	4.028	V-C	9817.	-0.4000	0.000	1.000	1.000
4.028	0.000	0.000	Strato1_2_8_L_0									
4 D	1.208	0.000	11.40	6.042	11.40	6.042	V-C	9817.	-0.6000	0.000	1.000	1.000
6.042	0.000	0.000	Strato1_2_8_L_0									
5 D	1.611	0.000	15.20	8.056	15.20	8.056	V-C	9817.	-0.8000	0.000	1.000	1.000
8.056	0.000	0.000	Strato1_2_8_L_0									
6 D	2.014	0.000	19.00	10.07	19.00	10.07	V-C	9817.	-1.000	0.000	1.000	1.000
10.07	0.000	0.000	Strato1_2_8_L_0									
7 D	2.417	0.000	22.80	12.08	22.80	12.08	V-C	9817.	-1.200	0.000	1.000	1.000
12.08	0.000	0.000	Strato1_2_8_L_0									
8 D	2.820	0.000	26.60	14.10	26.60	14.10	V-C	9817.	-1.400	0.000	1.000	1.000
14.10	0.000	0.000	Strato1_2_8_L_0									
9 D	3.222	0.000	30.40	16.11	30.40	16.11	V-C	9817.	-1.600	0.000	1.000	1.000
16.11	0.000	0.000	Strato1_2_8_L_0									
10 D	3.625	0.000	34.20	18.13	34.20	18.13	V-C	9817.	-1.800	0.000	1.000	1.000
18.13	0.000	0.000	Strato1_2_8_L_0									
11 D	4.028	0.000	38.00	20.14	38.00	20.14	V-C	9817.	-2.000	0.000	1.000	1.000
20.14	0.000	0.000	Strato1_2_8_L_0									
12 D	4.431	0.000	41.80	22.15	41.80	22.15	V-C	9817.	-2.200	0.000	1.000	1.000
22.15	0.000	0.000	Strato1_2_8_L_0									
13 D	4.834	0.000	45.60	24.17	45.60	24.17	V-C	9817.	-2.400	0.000	1.000	1.000
24.17	0.000	0.000	Strato1_2_8_L_0									
14 D	5.236	0.000	49.40	26.18	49.40	26.18	V-C	9817.	-2.600	0.000	1.000	1.000
26.18	0.000	0.000	Strato1_2_8_L_0									
15 D	5.639	0.000	53.20	28.20	53.20	28.20	V-C	9817.	-2.800	0.000	1.000	1.000
28.20	0.000	0.000	Strato1_2_8_L_0									
16 D	6.042	0.000	57.00	30.21	57.00	30.21	V-C	9817.	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Strato1_2_8_L_0									
17 D	6.445	0.000	60.80	32.22	60.80	32.22	V-C	9817.	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Strato1_2_8_L_0									
18 D	6.848	0.000	64.60	34.24	64.60	34.24	V-C	9817.	-3.400	0.000	1.000	1.000
34.24	0.000	0.000	Strato1_2_8_L_0									
19 D	7.250	0.000	68.40	36.25	68.40	36.25	V-C	9817.	-3.600	0.000	1.000	1.000
36.25	0.000	0.000	Strato1_2_8_L_0									
20 D	7.653	0.000	72.20	38.27	72.20	38.27	V-C	9817.	-3.800	0.000	1.000	1.000

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 349 di 1221
38.27	0.000	0.000	Strato1_2_8_L_0				
21 D	8.056	0.000	76.00 40.28	76.00	40.28	V-C 9817.	-4.000 0.000 1.000 1.000
40.28	0.000	0.000	Strato1_2_8_L_0				
22 D	8.459	0.000	79.80 42.29	79.80	42.29	V-C 9817.	-4.200 0.000 1.000 1.000
42.29	0.000	0.000	Strato1_2_8_L_0				
23 D	8.862	0.000	83.60 44.31	83.60	44.31	V-C 9817.	-4.400 0.000 1.000 1.000
44.31	0.000	0.000	Strato1_2_8_L_0				
24 D	9.264	0.000	87.40 46.32	87.40	46.32	V-C 9817.	-4.600 0.000 1.000 1.000
46.32	0.000	0.000	Strato1_2_8_L_0				
25 D	9.667	0.000	91.20 48.34	91.20	48.34	V-C 9817.	-4.800 0.000 1.000 1.000
48.34	0.000	0.000	Strato1_2_8_L_0				
26 D	10.07	0.000	95.00 50.35	95.00	50.35	V-C 9817.	-5.000 0.000 1.000 1.000
50.35	0.000	0.000	Strato1_2_8_L_0				
27 D	10.47	0.000	98.80 52.36	98.80	52.36	V-C 9817.	-5.200 0.000 1.000 1.000
52.36	0.000	0.000	Strato1_2_8_L_0				
28 D	10.88	0.000	102.6 54.38	102.6	54.38	V-C 9817.	-5.400 0.000 1.000 1.000
54.38	0.000	0.000	Strato1_2_8_L_0				
29 D	11.28	0.000	106.4 56.39	106.4	56.39	V-C 9817.	-5.600 0.000 1.000 1.000
56.39	0.000	0.000	Strato1_2_8_L_0				
30 D	11.68	0.000	110.2 58.41	110.2	58.41	V-C 9817.	-5.800 0.000 1.000 1.000
58.41	0.000	0.000	Strato1_2_8_L_0				
31 D	12.08	0.000	114.0 60.42	114.0	60.42	V-C 9817.	-6.000 0.000 1.000 1.000
60.42	0.000	0.000	Strato1_2_8_L_0				
32 D	12.49	0.000	117.8 62.43	117.8	62.43	V-C 9817.	-6.200 0.000 1.000 1.000
62.43	0.000	0.000	Strato1_2_8_L_0				
33 D	12.89	0.000	121.6 64.45	121.6	64.45	V-C 9817.	-6.400 0.000 1.000 1.000
64.45	0.000	0.000	Strato1_2_8_L_0				
34 D	13.29	0.000	125.4 66.46	125.4	66.46	V-C 9817.	-6.600 0.000 1.000 1.000
66.46	0.000	0.000	Strato1_2_8_L_0				
35 D	13.70	0.000	129.2 68.48	129.2	68.48	V-C 9817.	-6.800 0.000 1.000 1.000
68.48	0.000	0.000	Strato1_2_8_L_0				
36 D	14.10	0.000	133.0 70.49	133.0	70.49	V-C 9817.	-7.000 0.000 1.000 1.000
70.49	0.000	0.000	Strato1_2_8_L_0				
37 D	14.50	0.000	136.8 72.50	136.8	72.50	V-C 9817.	-7.200 0.000 1.000 1.000
72.50	0.000	0.000	Strato1_2_8_L_0				
38 D	14.90	0.000	140.6 74.52	140.6	74.52	V-C 9817.	-7.400 0.000 1.000 1.000
74.52	0.000	0.000	Strato1_2_8_L_0				
39 D	15.31	0.000	144.4 76.53	144.4	76.53	V-C 9817.	-7.600 0.000 1.000 1.000
76.53	0.000	0.000	Strato1_2_8_L_0				
40 D	15.71	0.000	148.2 78.55	148.2	78.55	V-C 9817.	-7.800 0.000 1.000 1.000
78.55	0.000	0.000	Strato1_2_8_L_0				
41 D	16.11	0.000	152.0 80.56	152.0	80.56	V-C 9817.	-8.000 0.000 1.000 1.000
80.56	0.000	0.000	Strato1_2_8_L_0				
42 D	16.51	0.000	155.8 82.57	155.8	82.57	V-C 9817.	-8.200 0.000 1.000 1.000
82.57	0.000	0.000	Strato1_2_8_L_0				
43 D	16.92	0.000	159.6 84.59	159.6	84.59	V-C 9817.	-8.400 0.000 1.000 1.000
84.59	0.000	0.000	Strato1_2_8_L_0				
44 D	17.32	0.000	163.4 86.60	163.4	86.60	V-C 9817.	-8.600 0.000 1.000 1.000
86.60	0.000	0.000	Strato1_2_8_L_0				
45 D	17.72	0.000	167.2 88.62	167.2	88.62	V-C 9817.	-8.800 0.000 1.000 1.000
88.62	0.000	0.000	Strato1_2_8_L_0				
46 D	18.13	0.000	171.0 90.63	171.0	90.63	V-C 9817.	-9.000 0.000 1.000 1.000
90.63	0.000	0.000	Strato1_2_8_L_0				
47 D	18.53	0.000	174.8 92.64	174.8	92.64	V-C 9817.	-9.200 0.000 1.000 1.000
92.64	0.000	0.000	Strato1_2_8_L_0				
48 D	18.93	0.000	178.6 94.66	178.6	94.66	V-C 9817.	-9.400 0.000 1.000 1.000
94.66	0.000	0.000	Strato1_2_8_L_0				
49 D	19.33	0.000	182.4 96.67	182.4	96.67	V-C 9817.	-9.600 0.000 1.000 1.000
96.67	0.000	0.000	Strato1_2_8_L_0				
50 D	19.74	0.000	186.2 98.69	186.2	98.69	V-C 9817.	-9.800 0.000 1.000 1.000
98.69	0.000	0.000	Strato1_2_8_L_0				
51 D	20.14	0.000	190.0 100.7	190.0	100.7	V-C 9817.	-10.00 0.000 1.000 1.000
100.7	0.000	0.000	Strato1_2_8_L_0				
52 D	20.54	0.000	193.8 102.7	193.8	102.7	V-C 9817.	-10.20 0.000 1.000 1.000
102.7	0.000	0.000	Strato1_2_8_L_0				
53 D	20.95	0.000	197.6 104.7	197.6	104.7	V-C 9817.	-10.40 0.000 1.000 1.000
104.7	0.000	0.000	Strato1_2_8_L_0				
54 D	21.35	0.000	201.4 106.7	201.4	106.7	V-C 9817.	-10.60 0.000 1.000 1.000
106.7	0.000	0.000	Strato1_2_8_L_0				
55 D	21.75	0.000	205.2 108.8	205.2	108.8	V-C 9817.	-10.80 0.000 1.000 1.000
108.8	0.000	0.000	Strato1_2_8_L_0				
56 D	22.15	0.000	209.0 110.8	209.0	110.8	V-C 9817.	-11.00 0.000 1.000 1.000
110.8	0.000	0.000	Strato1_2_8_L_0				
57 D	22.56	0.000	212.8 112.8	212.8	112.8	V-C 9817.	-11.20 0.000 1.000 1.000
112.8	0.000	0.000	Strato1_2_8_L_0				
58 D	22.96	0.000	216.6 114.8	216.6	114.8	V-C 9817.	-11.40 0.000 1.000 1.000
114.8	0.000	0.000	Strato1_2_8_L_0				
59 D	23.36	0.000	220.4 116.8	220.4	116.8	V-C 9817.	-11.60 0.000 1.000 1.000
116.8	0.000	0.000	Strato1_2_8_L_0				
60 D	23.77	0.000	224.2 118.8	224.2	118.8	V-C 9817.	-11.80 0.000 1.000 1.000
118.8	0.000	0.000	Strato1_2_8_L_0				
61 D	24.17	0.000	228.0 120.8	228.0	120.8	V-C 9817.	-12.00 0.000 1.000 1.000
120.8	0.000	0.000	Strato1_2_8_L_0				
62 D	24.57	0.000	231.8 122.9	231.8	122.9	V-C 9817.	-12.20 0.000 1.000 1.000
122.9	0.000	0.000	Strato1_2_8_L_0				

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 350 di 1221							
63 D	24.97	0.000	235.6	124.9	235.6	124.9	V-C	9817.	-12.40	0.000	1.000	1.000
124.9	0.000	0.000	Strato1_2_8_L_0									
64 D	25.38	0.000	239.4	126.9	239.4	126.9	V-C	9817.	-12.60	0.000	1.000	1.000
126.9	0.000	0.000	Strato1_2_8_L_0									
65 D	25.78	0.000	243.2	128.9	243.2	128.9	V-C	9817.	-12.80	0.000	1.000	1.000
128.9	0.000	0.000	Strato1_2_8_L_0									
66 D	26.18	0.000	247.0	130.9	247.0	130.9	V-C	9817.	-13.00	0.000	1.000	1.000
130.9	0.000	0.000	Strato1_2_8_L_0									
67 D	25.09	0.000	250.9	125.5	250.9	125.5	V-C	2.1690E+04	-13.20	0.000	1.000	1.000
125.5	0.000	0.000	Strato2_3095_82743_L_0									
68 D	25.49	0.000	254.9	127.5	254.9	127.5	V-C	2.1690E+04	-13.40	0.000	1.000	1.000
127.5	0.000	0.000	Strato2_3095_82743_L_0									
69 D	25.89	0.000	258.9	129.4	258.9	129.4	V-C	2.1690E+04	-13.60	0.000	1.000	1.000
129.4	0.000	0.000	Strato2_3095_82743_L_0									
70 D	26.29	0.000	262.9	131.5	262.9	131.5	V-C	2.1690E+04	-13.80	0.000	1.000	1.000
131.5	0.000	0.000	Strato2_3095_82743_L_0									
71 D	26.69	0.000	266.9	133.5	266.9	133.5	V-C	2.1690E+04	-14.00	0.000	1.000	1.000
133.5	0.000	0.000	Strato2_3095_82743_L_0									
72 D	27.09	0.000	270.9	135.4	270.9	135.4	V-C	2.1690E+04	-14.20	0.000	1.000	1.000
135.4	0.000	0.000	Strato2_3095_82743_L_0									
73 D	27.49	0.000	274.9	137.4	274.9	137.4	V-C	2.1690E+04	-14.40	0.000	1.000	1.000
137.4	0.000	0.000	Strato2_3095_82743_L_0									
74 D	27.89	0.000	278.9	139.4	278.9	139.4	V-C	2.1690E+04	-14.60	0.000	1.000	1.000
139.4	0.000	0.000	Strato2_3095_82743_L_0									
75 D	28.29	0.000	282.9	141.4	282.9	141.4	V-C	2.1690E+04	-14.80	0.000	1.000	1.000
141.4	0.000	0.000	Strato2_3095_82743_L_0									
76 D	28.69	0.000	286.9	143.4	286.9	143.4	V-C	2.1690E+04	-15.00	0.000	1.000	1.000
143.4	0.000	0.000	Strato2_3095_82743_L_0									
77 D	29.09	0.000	290.9	145.4	290.9	145.4	V-C	2.1690E+04	-15.20	0.000	1.000	1.000
145.4	0.000	0.000	Strato2_3095_82743_L_0									
78 D	29.49	0.000	294.9	147.4	294.9	147.4	V-C	2.1690E+04	-15.40	0.000	1.000	1.000
147.4	0.000	0.000	Strato2_3095_82743_L_0									
79 D	29.89	0.000	298.9	149.4	298.9	149.4	V-C	2.1690E+04	-15.60	0.000	1.000	1.000
149.4	0.000	0.000	Strato2_3095_82743_L_0									
80 D	30.29	0.000	302.9	151.4	302.9	151.4	V-C	2.1690E+04	-15.80	0.000	1.000	1.000
151.4	0.000	0.000	Strato2_3095_82743_L_0									
81 D	30.69	0.000	306.9	153.4	306.9	153.4	V-C	2.1690E+04	-16.00	0.000	1.000	1.000
153.4	0.000	0.000	Strato2_3095_82743_L_0									
82 D	31.09	0.000	310.9	155.4	310.9	155.4	V-C	2.1690E+04	-16.20	0.000	1.000	1.000
155.4	0.000	0.000	Strato2_3095_82743_L_0									
83 D	31.49	0.000	314.9	157.4	314.9	157.4	V-C	2.1690E+04	-16.40	0.000	1.000	1.000
157.4	0.000	0.000	Strato2_3095_82743_L_0									
84 D	31.89	0.000	318.9	159.4	318.9	159.4	V-C	2.1690E+04	-16.60	0.000	1.000	1.000
159.4	0.000	0.000	Strato2_3095_82743_L_0									
85 D	32.29	0.000	322.9	161.5	322.9	161.5	V-C	2.1690E+04	-16.80	0.000	1.000	1.000
161.5	0.000	0.000	Strato2_3095_82743_L_0									
86 D	32.69	0.000	326.9	163.4	326.9	163.4	V-C	2.1690E+04	-17.00	0.000	1.000	1.000
163.4	0.000	0.000	Strato2_3095_82743_L_0									
87 D	33.09	0.000	330.9	165.4	330.9	165.4	V-C	2.1690E+04	-17.20	0.000	1.000	1.000
165.4	0.000	0.000	Strato2_3095_82743_L_0									
88 D	33.49	0.000	334.9	167.4	334.9	167.4	V-C	2.1690E+04	-17.40	0.000	1.000	1.000
167.4	0.000	0.000	Strato2_3095_82743_L_0									
89 D	33.89	0.000	338.9	169.5	338.9	169.5	V-C	2.1690E+04	-17.60	0.000	1.000	1.000
169.5	0.000	0.000	Strato2_3095_82743_L_0									
90 D	34.29	0.000	342.9	171.5	342.9	171.5	V-C	2.1690E+04	-17.80	0.000	1.000	1.000
171.5	0.000	0.000	Strato2_3095_82743_L_0									
91 D	17.34	0.000	346.9	173.4	346.9	173.4	V-C	2.1690E+04	-18.00	0.000	1.000	1.000
173.4	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :29 July 2019  18:00:06                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 351 di 1221
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5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000
31	0.0000	0.0000	0.0000	0.0000
32	0.0000	0.0000	0.0000	0.0000
33	0.0000	0.0000	0.0000	0.0000
34	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000
36	0.0000	0.0000	0.0000	0.0000
37	0.0000	0.0000	0.0000	0.0000
38	0.0000	0.0000	0.0000	0.0000
39	0.0000	0.0000	0.0000	0.0000
40	0.0000	0.0000	0.0000	0.0000
41	0.0000	0.0000	0.0000	0.0000
42	0.0000	0.0000	0.0000	0.0000
43	0.0000	0.0000	0.0000	0.0000
44	0.0000	0.0000	0.0000	0.0000
45	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000
47	0.0000	0.0000	0.0000	0.0000
48	0.0000	0.0000	0.0000	0.0000
49	0.0000	0.0000	0.0000	0.0000
50	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	0.0000	0.0000
52	0.0000	0.0000	0.0000	0.0000
53	0.0000	0.0000	0.0000	0.0000
54	0.0000	0.0000	0.0000	0.0000
55	0.0000	0.0000	0.0000	0.0000
56	0.0000	0.0000	0.0000	0.0000
57	0.0000	0.0000	0.0000	0.0000
58	0.0000	0.0000	0.0000	0.0000
59	0.0000	0.0000	0.0000	0.0000
60	0.0000	0.0000	0.0000	0.0000
61	0.0000	0.0000	0.0000	0.0000
62	0.0000	0.0000	0.0000	0.0000
63	0.0000	0.0000	0.0000	0.0000
64	0.0000	0.0000	0.0000	0.0000
65	0.0000	0.0000	0.0000	0.0000
66	0.0000	0.0000	0.0000	0.0000
67	0.0000	0.0000	0.0000	0.0000
68	0.0000	0.0000	0.0000	0.0000
69	0.0000	0.0000	0.0000	0.0000
70	0.0000	0.0000	0.0000	0.0000
71	0.0000	0.0000	0.0000	0.0000
72	0.0000	0.0000	0.0000	0.0000
73	0.0000	0.0000	0.0000	0.0000
74	0.0000	0.0000	0.0000	0.0000
75	0.0000	0.0000	0.0000	0.0000
76	0.0000	0.0000	0.0000	0.0000
77	0.0000	0.0000	0.0000	0.0000
78	0.0000	0.0000	0.0000	0.0000
79	0.0000	0.0000	0.0000	0.0000
80	0.0000	0.0000	0.0000	0.0000
81	0.0000	0.0000	0.0000	0.0000
82	0.0000	0.0000	0.0000	0.0000
83	0.0000	0.0000	0.0000	0.0000
84	0.0000	0.0000	0.0000	0.0000
85	0.0000	0.0000	0.0000	0.0000
86	0.0000	0.0000	0.0000	0.0000
87	0.0000	0.0000	0.0000	0.0000
88	0.0000	0.0000	0.0000	0.0000
89	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 352 di 1221
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90 0.0000 0.0000 0.0000 0.0000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019  18:00:06  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

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Tirante1_429      :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP  1
CURRENT TIME IS  1.0000

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POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019  18:00:06  |
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New Project

STRESS RESULTS FOR GROUP NO. 5

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Tirante2_1507    :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP  1
CURRENT TIME IS  1.0000

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POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

ITER  0  RNORM = 0.000  RMNORM= 0.000
RINORM=0.8799E+05 RIMNOR= 0.000
RENORM= 1405.  REMNOR= 0.000  RATIO =0.1264  TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 38.35  RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.8799E+05 RDR = 0.000
RATIOT=0.1264  RATOR= 0.000
MAX UN= 4.240  IEQ= 129 NODE  65 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=0.8799E+05 RIMNOR= 0.000
RENORM= 4.967  REMNOR=0.4237E-20 RATIO =0.7513E-02 TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 38.35  RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.8799E+05 RDR = 0.000
RATIOT=0.7513E-02 RATOR= 0.000
MAX UN= 1.673  IEQ= 3 NODE  2 DOF  1  Y-DISPL.F
MIN UN=-.1717E-09 IEQ= 129 NODE  65 DOF  1  Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS  0

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ITER  3  RNORM = 0.000  RMNORM= 0.000
RINORM=0.8799E+05 RIMNOR= 0.000
RENORM=0.4909  REMNOR=0.5830E-21 RATIO =0.2362E-02 TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 38.35  RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.8799E+05 RDR = 0.000
RATIOT=0.2362E-02 RATOR= 0.000
MAX UN=0.5093  IEQ= 13 NODE  7 DOF  1  Y-DISPL.F
MIN UN=-.8358E-10 IEQ= 21 NODE  11 DOF  1  Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS  0

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GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
353 di 1221

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ITER      4 RNORM = 0.000      RMNORM= 0.000
          RINORM=0.8799E+05 RIMNOR= 0.000
          RENORM=0.6022E-04 REMNOR=0.5644E-21 RATIO =0.2616E-04 TOLER =0.1000E-03      CONVERGED !
          RFMAX = 38.35      RMMAX = 0.000
          RTSMAL=0.1000E-03 RMSMAL= 0.000
          RDT =0.8799E+05 RDR = 0.000
          RATIOI=0.2616E-04 RATIOIR= 0.000
          MAX UN=0.7493E-02 IEQ= 51 NODE      26 DOF      1 Y-DISPL.F
          MIN UN=-.1148E-09 IEQ= 33 NODE      17 DOF      1 Y-DISPL.F
          NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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+-----+
|          PARATIEPLUS (TM)      NLS ENGINE RELEASE 2017.1      FULL VERSION *Build date:Jul 11, 2017*      |
|          |
|          NewProject.BaseDesignSection_28.Nominal_63      |
|          Exe Time :29 July 2019      18:00:06      |
+-----+

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New Project
SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.7011354E-04	3.0375484E-06	
2	3.7072153E-04	3.0447654E-06	
3	3.7133166E-04	3.0551835E-06	
4	3.7194366E-04	3.0664776E-06	
5	3.7255901E-04	3.0891198E-06	
6	3.7318082E-04	3.1343781E-06	
7	3.7381506E-04	3.2141976E-06	
8	3.7446934E-04	3.3366448E-06	
9	3.7515287E-04	3.5062873E-06	
10	3.7587486E-04	3.7210655E-06	
11	3.7664375E-04	3.9727671E-06	
12	3.7746566E-04	4.2497674E-06	
13	3.7834451E-04	4.5395515E-06	
14	3.7928162E-04	4.8314961E-06	
15	3.8027670E-04	5.1172391E-06	
16	3.8132763E-04	5.3896591E-06	
17	3.8243124E-04	5.6422471E-06	
18	3.8358277E-04	5.8684166E-06	
19	3.8477648E-04	6.0627428E-06	
20	3.8600542E-04	6.2203767E-06	
21	3.8726192E-04	6.3372506E-06	
22	3.8853735E-04	6.4096217E-06	
23	3.8982258E-04	6.4342539E-06	
24	3.9110766E-04	6.4080565E-06	
25	3.9238218E-04	6.3276342E-06	
26	3.9363483E-04	6.1890263E-06	
27	3.9485366E-04	5.9883233E-06	
28	3.9602576E-04	5.7215682E-06	
29	3.9713764E-04	5.3851983E-06	
30	3.9817496E-04	4.9758194E-06	
31	3.9912289E-04	4.4903282E-06	
32	3.9996579E-04	3.9252622E-06	
33	4.0068744E-04	3.2769374E-06	
34	4.0127078E-04	2.5418149E-06	
35	4.0169816E-04	1.7166343E-06	
36	4.0195122E-04	7.9831214E-07	
37	4.0201110E-04	-2.1588955E-07	
38	4.0185831E-04	-1.3284253E-06	
39	4.0147304E-04	-2.5413031E-06	
40	4.0083497E-04	-3.8564626E-06	
41	3.9992352E-04	-5.2756157E-06	
42	3.9871772E-04	-6.7997950E-06	
43	3.9719659E-04	-8.4291870E-06	
44	3.9533908E-04	-1.0163067E-05	
45	3.9312453E-04	-1.1999578E-05	
46	3.9053255E-04	-1.3935729E-05	
47	3.8754382E-04	-1.5967230E-05	
48	3.8413967E-04	-1.8088693E-05	
49	3.8030285E-04	-2.0292851E-05	
50	3.7601764E-04	-2.2570499E-05	
51	3.7127052E-04	-2.4910173E-05	
52	3.6605034E-04	-2.7298032E-05	
53	3.6034917E-04	-2.9717535E-05	

GENERAL CONTRACTOR



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Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 355 di 1221					
11 D	4.590	-3.7664E-04	73.46	22.95	73.46	38.94	UL-RL	4.2442E+04	-2.000	0.000	1.000	1.000
22.95	0.000	0.000	Stratol_2_8_L_0									
12 D	4.822	-3.7747E-04	75.72	24.11	75.72	40.13	UL-RL	4.2442E+04	-2.200	0.000	1.000	1.000
24.11	0.000	0.000	Stratol_2_8_L_0									
13 D	5.479	-3.7834E-04	81.98	27.39	81.98	43.45	UL-RL	4.2442E+04	-2.400	0.000	1.000	1.000
27.39	0.000	0.000	Stratol_2_8_L_0									
14 D	5.727	-3.7928E-04	84.40	28.63	84.40	44.73	UL-RL	4.2442E+04	-2.600	0.000	1.000	1.000
28.63	0.000	0.000	Stratol_2_8_L_0									
15 D	6.340	-3.8028E-04	90.27	31.70	90.27	47.84	UL-RL	4.2442E+04	-2.800	0.000	1.000	1.000
31.70	0.000	0.000	Stratol_2_8_L_0									
16 D	6.562	-3.8133E-04	92.44	32.81	92.44	49.00	UL-RL	4.2442E+04	-3.000	0.000	1.000	1.000
32.81	0.000	0.000	Stratol_2_8_L_0									
17 D	7.147	-3.8243E-04	98.05	35.73	98.05	51.96	UL-RL	4.2442E+04	-3.200	0.000	1.000	1.000
35.73	0.000	0.000	Stratol_2_8_L_0									
18 D	7.421	-3.8358E-04	100.7	37.11	100.7	53.39	UL-RL	4.2442E+04	-3.400	0.000	1.000	1.000
37.11	0.000	0.000	Stratol_2_8_L_0									
19 D	7.981	-3.8478E-04	106.1	39.91	106.1	56.24	UL-RL	4.2442E+04	-3.600	0.000	1.000	1.000
39.91	0.000	0.000	Stratol_2_8_L_0									
20 D	8.264	-3.8601E-04	108.9	41.32	108.9	57.70	UL-RL	4.2442E+04	-3.800	0.000	1.000	1.000
41.32	0.000	0.000	Stratol_2_8_L_0									
21 D	8.805	-3.8726E-04	114.1	44.03	114.1	60.46	UL-RL	4.2442E+04	-4.000	0.000	1.000	1.000
44.03	0.000	0.000	Stratol_2_8_L_0									
22 D	9.096	-3.8854E-04	116.9	45.48	116.9	61.97	UL-RL	4.2442E+04	-4.200	0.000	1.000	1.000
45.48	0.000	0.000	Stratol_2_8_L_0									
23 D	9.622	-3.8982E-04	122.0	48.11	122.0	64.66	UL-RL	4.2442E+04	-4.400	0.000	1.000	1.000
48.11	0.000	0.000	Stratol_2_8_L_0									
24 D	9.894	-3.9111E-04	124.7	49.47	124.7	66.07	UL-RL	4.2442E+04	-4.600	0.000	1.000	1.000
49.47	0.000	0.000	Stratol_2_8_L_0									
25 D	10.41	-3.9238E-04	129.6	52.04	129.6	68.70	UL-RL	4.2442E+04	-4.800	0.000	1.000	1.000
52.04	0.000	0.000	Stratol_2_8_L_0									
26 D	10.71	-3.9363E-04	132.6	53.57	132.6	70.28	UL-RL	4.2442E+04	-5.000	0.000	1.000	1.000
53.57	0.000	0.000	Stratol_2_8_L_0									
27 D	11.22	-3.9485E-04	137.5	56.10	137.5	72.85	UL-RL	4.2442E+04	-5.200	0.000	1.000	1.000
56.10	0.000	0.000	Stratol_2_8_L_0									
28 D	11.53	-3.9603E-04	140.5	57.65	140.5	74.46	UL-RL	4.2442E+04	-5.400	0.000	1.000	1.000
57.65	0.000	0.000	Stratol_2_8_L_0									
29 D	12.03	-3.9714E-04	145.3	60.14	145.3	76.99	UL-RL	4.2442E+04	-5.600	0.000	1.000	1.000
60.14	0.000	0.000	Stratol_2_8_L_0									
30 D	12.34	-3.9817E-04	148.3	61.72	148.3	78.62	UL-RL	4.2442E+04	-5.800	0.000	1.000	1.000
61.72	0.000	0.000	Stratol_2_8_L_0									
31 D	12.82	-3.9912E-04	152.9	64.08	152.9	81.02	UL-RL	4.2442E+04	-6.000	0.000	1.000	1.000
64.08	0.000	0.000	Stratol_2_8_L_0									
32 D	13.14	-3.9997E-04	156.0	65.70	156.0	82.67	UL-RL	4.2442E+04	-6.200	0.000	1.000	1.000
65.70	0.000	0.000	Stratol_2_8_L_0									
33 D	13.63	-4.0069E-04	160.6	68.13	160.6	85.14	UL-RL	4.2442E+04	-6.400	0.000	1.000	1.000
68.13	0.000	0.000	Stratol_2_8_L_0									
34 D	13.96	-4.0127E-04	163.8	69.78	163.8	86.81	UL-RL	4.2442E+04	-6.600	0.000	1.000	1.000
69.78	0.000	0.000	Stratol_2_8_L_0									
35 D	14.44	-4.0170E-04	168.4	72.20	168.4	89.25	UL-RL	4.2442E+04	-6.800	0.000	1.000	1.000
72.20	0.000	0.000	Stratol_2_8_L_0									
36 D	14.78	-4.0195E-04	171.6	73.88	171.6	90.94	UL-RL	4.2442E+04	-7.000	0.000	1.000	1.000
73.88	0.000	0.000	Stratol_2_8_L_0									
37 D	15.26	-4.0201E-04	176.1	76.28	176.1	93.35	UL-RL	4.2442E+04	-7.200	0.000	1.000	1.000
76.28	0.000	0.000	Stratol_2_8_L_0									
38 D	15.60	-4.0186E-04	179.3	78.00	179.3	95.05	UL-RL	4.2442E+04	-7.400	0.000	1.000	1.000
78.00	0.000	0.000	Stratol_2_8_L_0									
39 D	16.06	-4.0147E-04	183.7	80.32	183.7	97.36	UL-RL	4.2442E+04	-7.600	0.000	1.000	1.000
80.32	0.000	0.000	Stratol_2_8_L_0									
40 D	16.41	-4.0083E-04	186.9	82.07	186.9	99.08	UL-RL	4.2442E+04	-7.800	0.000	1.000	1.000
82.07	0.000	0.000	Stratol_2_8_L_0									
41 D	16.90	-3.9992E-04	191.4	84.48	191.4	101.5	UL-RL	4.2442E+04	-8.000	0.000	1.000	1.000
84.48	0.000	0.000	Stratol_2_8_L_0									
42 D	17.25	-3.9872E-04	194.7	86.26	194.7	103.2	UL-RL	4.2442E+04	-8.200	0.000	1.000	1.000
86.26	0.000	0.000	Stratol_2_8_L_0									
43 D	17.74	-3.9720E-04	199.1	88.68	199.1	105.5	UL-RL	4.2442E+04	-8.400	0.000	1.000	1.000
88.68	0.000	0.000	Stratol_2_8_L_0									
44 D	18.10	-3.9534E-04	202.4	90.50	202.4	107.3	UL-RL	4.2442E+04	-8.600	0.000	1.000	1.000
90.50	0.000	0.000	Stratol_2_8_L_0									
45 D	18.59	-3.9312E-04	206.8	92.93	206.8	109.6	UL-RL	4.2442E+04	-8.800	0.000	1.000	1.000
92.93	0.000	0.000	Stratol_2_8_L_0									
46 D	18.95	-3.9053E-04	210.0	94.73	210.0	111.3	UL-RL	4.2442E+04	-9.000	0.000	1.000	1.000
94.73	0.000	0.000	Stratol_2_8_L_0									
47 D	19.44	-3.8754E-04	214.4	97.18	214.4	113.6	UL-RL	4.2442E+04	-9.200	0.000	1.000	1.000
97.18	0.000	0.000	Stratol_2_8_L_0									
48 D	19.82	-3.8414E-04	217.7	99.09	217.7	115.4	UL-RL	4.2442E+04	-9.400	0.000	1.000	1.000
99.09	0.000	0.000	Stratol_2_8_L_0									
49 D	20.31	-3.8030E-04	222.1	101.6	222.1	117.7	UL-RL	4.2442E+04	-9.600	0.000	1.000	1.000
101.6	0.000	0.000	Stratol_2_8_L_0									
50 D	20.70	-3.7602E-04	225.4	103.5	225.4	119.5	UL-RL	4.2442E+04	-9.800	0.000	1.000	1.000
103.5	0.000	0.000	Stratol_2_8_L_0									
51 D	21.20	-3.7127E-04	229.8	106.0	229.8	121.8	UL-RL	4.2442E+04	-10.000	0.000	1.000	1.000
106.0	0.000	0.000	Stratol_2_8_L_0									
52 D	21.60	-3.6605E-04	233.1	108.0	233.1	123.6	UL-RL	4.2442E+04	-10.200	0.000	1.000	1.000
108.0	0.000	0.000	Stratol_2_8_L_0									
53 D	22.11	-3.6035E-04	237.4	110.5	237.4	125.8	UL-RL	4.2442E+04	-10.400	0.000	1.000	1.000



Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 356 di 1221
110.5	0.000	0.000	Strato1_2_8_L_0				
54 D	22.51	-3.5416E-04	240.7	112.5	240.7	127.6	UL-RL 4.2442E+04 -10.60 0.000 1.000 1.000
112.5	0.000	0.000	Strato1_2_8_L_0				
55 D	23.02	-3.4749E-04	245.0	115.1	245.0	129.8	UL-RL 4.2442E+04 -10.80 0.000 1.000 1.000
115.1	0.000	0.000	Strato1_2_8_L_0				
56 D	23.44	-3.4034E-04	248.4	117.2	248.4	131.6	UL-RL 4.2442E+04 -11.00 0.000 1.000 1.000
117.2	0.000	0.000	Strato1_2_8_L_0				
57 D	23.96	-3.3271E-04	252.7	119.8	252.7	133.9	UL-RL 4.2442E+04 -11.20 0.000 1.000 1.000
119.8	0.000	0.000	Strato1_2_8_L_0				
58 D	24.39	-3.2463E-04	256.1	121.9	256.1	135.7	UL-RL 4.2442E+04 -11.40 0.000 1.000 1.000
121.9	0.000	0.000	Strato1_2_8_L_0				
59 D	24.91	-3.1612E-04	260.3	124.6	260.3	138.0	UL-RL 4.2442E+04 -11.60 0.000 1.000 1.000
124.6	0.000	0.000	Strato1_2_8_L_0				
60 D	25.35	-3.0720E-04	263.7	126.7	263.7	139.8	UL-RL 4.2442E+04 -11.80 0.000 1.000 1.000
126.7	0.000	0.000	Strato1_2_8_L_0				
61 D	25.87	-2.9793E-04	267.9	129.3	267.9	142.0	UL-RL 4.2442E+04 -12.00 0.000 1.000 1.000
129.3	0.000	0.000	Strato1_2_8_L_0				
62 D	26.31	-2.8834E-04	271.3	131.6	271.3	143.8	UL-RL 4.2442E+04 -12.20 0.000 1.000 1.000
131.6	0.000	0.000	Strato1_2_8_L_0				
63 D	26.84	-2.7849E-04	275.5	134.2	275.5	146.0	UL-RL 4.2442E+04 -12.40 0.000 1.000 1.000
134.2	0.000	0.000	Strato1_2_8_L_0				
64 D	27.29	-2.6846E-04	279.0	136.5	279.0	147.9	UL-RL 4.2442E+04 -12.60 0.000 1.000 1.000
136.5	0.000	0.000	Strato1_2_8_L_0				
65 D	27.83	-2.5834E-04	283.2	139.1	283.2	150.1	UL-RL 4.2442E+04 -12.80 0.000 1.000 1.000
139.1	0.000	0.000	Strato1_2_8_L_0				
66 D	28.28	-2.4821E-04	286.7	141.4	286.7	151.9	UL-RL 4.2442E+04 -13.00 0.000 1.000 1.000
141.4	0.000	0.000	Strato1_2_8_L_0				
67 D	23.38	-2.3818E-04	291.0	116.9	291.0	145.5	UL-RL 1.2006E+05 -13.20 0.000 1.000 1.000
116.9	0.000	0.000	Strato2_3095_82743_L_0				
68 D	23.98	-2.2839E-04	294.6	119.9	294.6	147.3	UL-RL 1.2006E+05 -13.40 0.000 1.000 1.000
119.9	0.000	0.000	Strato2_3095_82743_L_0				
69 D	24.64	-2.1892E-04	298.9	123.2	298.9	149.5	UL-RL 1.2006E+05 -13.60 0.000 1.000 1.000
123.2	0.000	0.000	Strato2_3095_82743_L_0				
70 D	25.22	-2.0985E-04	302.6	126.1	302.6	151.3	UL-RL 1.2006E+05 -13.80 0.000 1.000 1.000
126.1	0.000	0.000	Strato2_3095_82743_L_0				
71 D	25.86	-2.0125E-04	307.0	129.3	307.0	153.5	UL-RL 1.2006E+05 -14.00 0.000 1.000 1.000
129.3	0.000	0.000	Strato2_3095_82743_L_0				
72 D	26.43	-1.9314E-04	310.7	132.1	310.7	155.3	UL-RL 1.2006E+05 -14.20 0.000 1.000 1.000
132.1	0.000	0.000	Strato2_3095_82743_L_0				
73 D	27.05	-1.8555E-04	315.0	135.2	315.0	157.5	UL-RL 1.2006E+05 -14.40 0.000 1.000 1.000
135.2	0.000	0.000	Strato2_3095_82743_L_0				
74 D	27.58	-1.7849E-04	318.7	137.9	318.7	159.4	UL-RL 1.2006E+05 -14.60 0.000 1.000 1.000
137.9	0.000	0.000	Strato2_3095_82743_L_0				
75 D	28.18	-1.7195E-04	323.1	140.9	323.1	161.5	UL-RL 1.2006E+05 -14.80 0.000 1.000 1.000
140.9	0.000	0.000	Strato2_3095_82743_L_0				
76 D	28.68	-1.6590E-04	326.7	143.4	326.7	163.3	UL-RL 1.2006E+05 -15.00 0.000 1.000 1.000
143.4	0.000	0.000	Strato2_3095_82743_L_0				
77 D	29.25	-1.6034E-04	331.0	146.3	331.0	165.5	UL-RL 1.2006E+05 -15.20 0.000 1.000 1.000
146.3	0.000	0.000	Strato2_3095_82743_L_0				
78 D	29.75	-1.5523E-04	334.7	148.7	334.7	167.4	UL-RL 1.2006E+05 -15.40 0.000 1.000 1.000
148.7	0.000	0.000	Strato2_3095_82743_L_0				
79 D	30.29	-1.5054E-04	339.1	151.5	339.1	169.5	UL-RL 1.2006E+05 -15.60 0.000 1.000 1.000
151.5	0.000	0.000	Strato2_3095_82743_L_0				
80 D	30.77	-1.4621E-04	342.8	153.8	342.8	171.4	UL-RL 1.2006E+05 -15.80 0.000 1.000 1.000
153.8	0.000	0.000	Strato2_3095_82743_L_0				
81 D	31.30	-1.4222E-04	347.1	156.5	347.1	173.6	UL-RL 1.2006E+05 -16.00 0.000 1.000 1.000
156.5	0.000	0.000	Strato2_3095_82743_L_0				
82 D	31.82	-1.3852E-04	351.4	159.1	351.4	175.7	UL-RL 1.2006E+05 -16.20 0.000 1.000 1.000
159.1	0.000	0.000	Strato2_3095_82743_L_0				
83 D	32.27	-1.3506E-04	355.1	161.4	355.1	177.6	UL-RL 1.2006E+05 -16.40 0.000 1.000 1.000
161.4	0.000	0.000	Strato2_3095_82743_L_0				
84 D	32.77	-1.3181E-04	359.4	163.9	359.4	179.7	UL-RL 1.2006E+05 -16.60 0.000 1.000 1.000
163.9	0.000	0.000	Strato2_3095_82743_L_0				
85 D	33.22	-1.2871E-04	363.1	166.1	363.1	181.6	UL-RL 1.2006E+05 -16.80 0.000 1.000 1.000
166.1	0.000	0.000	Strato2_3095_82743_L_0				
86 D	33.72	-1.2574E-04	367.4	168.6	367.4	183.7	UL-RL 1.2006E+05 -17.00 0.000 1.000 1.000
168.6	0.000	0.000	Strato2_3095_82743_L_0				
87 D	34.16	-1.2286E-04	371.1	170.8	371.1	185.6	UL-RL 1.2006E+05 -17.20 0.000 1.000 1.000
170.8	0.000	0.000	Strato2_3095_82743_L_0				
88 D	34.66	-1.2004E-04	375.4	173.3	375.4	187.7	UL-RL 1.2006E+05 -17.40 0.000 1.000 1.000
173.3	0.000	0.000	Strato2_3095_82743_L_0				
89 D	35.10	-1.1726E-04	379.2	175.5	379.2	189.6	UL-RL 1.2006E+05 -17.60 0.000 1.000 1.000
175.5	0.000	0.000	Strato2_3095_82743_L_0				
90 D	35.60	-1.1449E-04	383.5	178.0	383.5	191.7	UL-RL 1.2006E+05 -17.80 0.000 1.000 1.000
178.0	0.000	0.000	Strato2_3095_82743_L_0				
91 D	18.02	-1.1172E-04	387.1	180.2	387.1	193.6	UL-RL 1.2006E+05 -18.00 0.000 1.000 1.000
180.2	0.000	0.000	Strato2_3095_82743_L_0				

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 358 di 1221							
34 D	14.06	4.0127E-04	125.4	70.31	125.4	70.45	UL-RL	2.9452E+04	-6.600	0.000	1.000	1.000
70.31	0.000	0.000	Strato1_2_8_L_0									
35 D	14.46	4.0170E-04	129.2	72.32	129.2	72.47	UL-RL	2.9452E+04	-6.800	0.000	1.000	1.000
72.32	0.000	0.000	Strato1_2_8_L_0									
36 D	14.87	4.0195E-04	133.0	74.33	133.0	74.49	UL-RL	2.9452E+04	-7.000	0.000	1.000	1.000
74.33	0.000	0.000	Strato1_2_8_L_0									
37 D	15.27	4.0201E-04	136.8	76.35	136.8	76.50	UL-RL	2.9452E+04	-7.200	0.000	1.000	1.000
76.35	0.000	0.000	Strato1_2_8_L_0									
38 D	15.67	4.0186E-04	140.6	78.36	140.6	78.52	UL-RL	2.9452E+04	-7.400	0.000	1.000	1.000
78.36	0.000	0.000	Strato1_2_8_L_0									
39 D	16.07	4.0147E-04	144.4	80.37	144.4	80.53	UL-RL	2.9452E+04	-7.600	0.000	1.000	1.000
80.37	0.000	0.000	Strato1_2_8_L_0									
40 D	16.48	4.0083E-04	148.2	82.38	148.2	82.53	UL-RL	2.9452E+04	-7.800	0.000	1.000	1.000
82.38	0.000	0.000	Strato1_2_8_L_0									
41 D	16.88	3.9992E-04	152.0	84.39	152.0	84.54	UL-RL	2.9452E+04	-8.000	0.000	1.000	1.000
84.39	0.000	0.000	Strato1_2_8_L_0									
42 D	17.28	3.9872E-04	155.8	86.39	155.8	86.54	UL-RL	2.9452E+04	-8.200	0.000	1.000	1.000
86.39	0.000	0.000	Strato1_2_8_L_0									
43 D	17.68	3.9720E-04	159.6	88.40	159.6	88.53	UL-RL	2.9452E+04	-8.400	0.000	1.000	1.000
88.40	0.000	0.000	Strato1_2_8_L_0									
44 D	18.08	3.9534E-04	163.4	90.40	163.4	90.53	UL-RL	2.9452E+04	-8.600	0.000	1.000	1.000
90.40	0.000	0.000	Strato1_2_8_L_0									
45 D	18.48	3.9312E-04	167.2	92.39	167.2	92.52	UL-RL	2.9452E+04	-8.800	0.000	1.000	1.000
92.39	0.000	0.000	Strato1_2_8_L_0									
46 D	18.88	3.9053E-04	171.0	94.39	171.0	94.50	UL-RL	2.9452E+04	-9.000	0.000	1.000	1.000
94.39	0.000	0.000	Strato1_2_8_L_0									
47 D	19.28	3.8754E-04	174.8	96.38	174.8	96.49	UL-RL	2.9452E+04	-9.200	0.000	1.000	1.000
96.38	0.000	0.000	Strato1_2_8_L_0									
48 D	19.67	3.8414E-04	178.6	98.36	178.6	98.46	UL-RL	2.9452E+04	-9.400	0.000	1.000	1.000
98.36	0.000	0.000	Strato1_2_8_L_0									
49 D	20.07	3.8030E-04	182.4	100.3	182.4	100.4	UL-RL	2.9452E+04	-9.600	0.000	1.000	1.000
100.3	0.000	0.000	Strato1_2_8_L_0									
50 D	20.46	3.7602E-04	186.2	102.3	186.2	102.4	UL-RL	2.9452E+04	-9.800	0.000	1.000	1.000
102.3	0.000	0.000	Strato1_2_8_L_0									
51 D	20.86	3.7127E-04	190.0	104.3	190.0	104.4	UL-RL	2.9452E+04	-10.00	0.000	1.000	1.000
104.3	0.000	0.000	Strato1_2_8_L_0									
52 D	21.25	3.6605E-04	193.8	106.3	193.8	106.3	UL-RL	2.9452E+04	-10.20	0.000	1.000	1.000
106.3	0.000	0.000	Strato1_2_8_L_0									
53 D	21.64	3.6035E-04	197.6	108.2	197.6	108.3	UL-RL	2.9452E+04	-10.40	0.000	1.000	1.000
108.2	0.000	0.000	Strato1_2_8_L_0									
54 D	22.04	3.5416E-04	201.4	110.2	201.4	110.2	UL-RL	2.9452E+04	-10.60	0.000	1.000	1.000
110.2	0.000	0.000	Strato1_2_8_L_0									
55 D	22.43	3.4749E-04	205.2	112.1	205.2	112.2	UL-RL	2.9452E+04	-10.80	0.000	1.000	1.000
112.1	0.000	0.000	Strato1_2_8_L_0									
56 D	22.82	3.4034E-04	209.0	114.1	209.0	114.1	UL-RL	2.9452E+04	-11.00	0.000	1.000	1.000
114.1	0.000	0.000	Strato1_2_8_L_0									
57 D	23.20	3.3271E-04	212.8	116.0	212.8	116.1	UL-RL	2.9452E+04	-11.20	0.000	1.000	1.000
116.0	0.000	0.000	Strato1_2_8_L_0									
58 D	23.59	3.2463E-04	216.6	118.0	216.6	118.0	UL-RL	2.9452E+04	-11.40	0.000	1.000	1.000
118.0	0.000	0.000	Strato1_2_8_L_0									
59 D	23.98	3.1612E-04	220.4	119.9	220.4	119.9	UL-RL	2.9452E+04	-11.60	0.000	1.000	1.000
119.9	0.000	0.000	Strato1_2_8_L_0									
60 D	24.37	3.0720E-04	224.2	121.8	224.2	121.9	UL-RL	2.9452E+04	-11.80	0.000	1.000	1.000
121.8	0.000	0.000	Strato1_2_8_L_0									
61 D	24.75	2.9793E-04	228.0	123.8	228.0	123.8	UL-RL	2.9452E+04	-12.00	0.000	1.000	1.000
123.8	0.000	0.000	Strato1_2_8_L_0									
62 D	25.13	2.8834E-04	231.8	125.7	231.8	125.7	UL-RL	2.9452E+04	-12.20	0.000	1.000	1.000
125.7	0.000	0.000	Strato1_2_8_L_0									
63 D	25.52	2.7849E-04	235.6	127.6	235.6	127.6	UL-RL	2.9452E+04	-12.40	0.000	1.000	1.000
127.6	0.000	0.000	Strato1_2_8_L_0									
64 D	25.90	2.6846E-04	239.4	129.5	239.4	129.5	UL-RL	2.9452E+04	-12.60	0.000	1.000	1.000
129.5	0.000	0.000	Strato1_2_8_L_0									
65 D	26.29	2.5834E-04	243.2	131.4	243.2	131.4	UL-RL	2.9452E+04	-12.80	0.000	1.000	1.000
131.4	0.000	0.000	Strato1_2_8_L_0									
66 D	26.67	2.4821E-04	247.0	133.3	247.0	133.3	UL-RL	2.9452E+04	-13.00	0.000	1.000	1.000
133.3	0.000	0.000	Strato1_2_8_L_0									
67 D	26.12	2.3818E-04	250.9	130.6	250.9	130.6	UL-RL	6.5071E+04	-13.20	0.000	1.000	1.000
130.6	0.000	0.000	Strato2_3095_82743_L_0									
68 D	26.48	2.2839E-04	254.9	132.4	254.9	132.4	UL-RL	6.5071E+04	-13.40	0.000	1.000	1.000
132.4	0.000	0.000	Strato2_3095_82743_L_0									
69 D	26.84	2.1892E-04	258.9	134.2	258.9	134.2	UL-RL	6.5071E+04	-13.60	0.000	1.000	1.000
134.2	0.000	0.000	Strato2_3095_82743_L_0									
70 D	27.20	2.0985E-04	262.9	136.0	262.9	136.0	V-C	2.1690E+04	-13.80	0.000	1.000	1.000
136.0	0.000	0.000	Strato2_3095_82743_L_0									
71 D	27.56	2.0125E-04	266.9	137.8	266.9	137.8	V-C	2.1690E+04	-14.00	0.000	1.000	1.000
137.8	0.000	0.000	Strato2_3095_82743_L_0									
72 D	27.93	1.9314E-04	270.9	139.6	270.9	139.6	V-C	2.1690E+04	-14.20	0.000	1.000	1.000
139.6	0.000	0.000	Strato2_3095_82743_L_0									
73 D	28.29	1.8555E-04	274.9	141.5	274.9	141.5	V-C	2.1690E+04	-14.40	0.000	1.000	1.000
141.5	0.000	0.000	Strato2_3095_82743_L_0									
74 D	28.66	1.7849E-04	278.9	143.3	278.9	143.3	V-C	2.1690E+04	-14.60	0.000	1.000	1.000
143.3	0.000	0.000	Strato2_3095_82743_L_0									
75 D	29.04	1.7195E-04	282.9	145.2	282.9	145.2	V-C	2.1690E+04	-14.80	0.000	1.000	1.000
145.2	0.000	0.000	Strato2_3095_82743_L_0									
76 D	29.41	1.6590E-04	286.9	147.0	286.9	147.0	V-C	2.1690E+04	-15.00	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 359 di 1221
147.0	0.000	0.000	Strato2_3095_82743_L_0		
77 D	29.79	1.6034E-04	290.9 148.9	290.9	148.9
148.9	0.000	0.000	Strato2_3095_82743_L_0		
78 D	30.16	1.5523E-04	294.9 150.8	294.9	150.8
150.8	0.000	0.000	Strato2_3095_82743_L_0		
79 D	30.54	1.5054E-04	298.9 152.7	298.9	152.7
152.7	0.000	0.000	Strato2_3095_82743_L_0		
80 D	30.92	1.4621E-04	302.9 154.6	302.9	154.6
154.6	0.000	0.000	Strato2_3095_82743_L_0		
81 D	31.31	1.4222E-04	306.9 156.5	306.9	156.5
156.5	0.000	0.000	Strato2_3095_82743_L_0		
82 D	31.69	1.3852E-04	310.9 158.5	310.9	158.5
158.5	0.000	0.000	Strato2_3095_82743_L_0		
83 D	32.08	1.3506E-04	314.9 160.4	314.9	160.4
160.4	0.000	0.000	Strato2_3095_82743_L_0		
84 D	32.46	1.3181E-04	318.9 162.3	318.9	162.3
162.3	0.000	0.000	Strato2_3095_82743_L_0		
85 D	32.85	1.2871E-04	322.9 164.2	322.9	164.2
164.2	0.000	0.000	Strato2_3095_82743_L_0		
86 D	33.24	1.2574E-04	326.9 166.2	326.9	166.2
166.2	0.000	0.000	Strato2_3095_82743_L_0		
87 D	33.62	1.2286E-04	330.9 168.1	330.9	168.1
168.1	0.000	0.000	Strato2_3095_82743_L_0		
88 D	34.01	1.2004E-04	334.9 170.1	334.9	170.1
170.1	0.000	0.000	Strato2_3095_82743_L_0		
89 D	34.40	1.1726E-04	338.9 172.0	338.9	172.0
172.0	0.000	0.000	Strato2_3095_82743_L_0		
90 D	34.79	1.1449E-04	342.9 173.9	342.9	173.9
173.9	0.000	0.000	Strato2_3095_82743_L_0		
91 D	17.59	1.1172E-04	346.9 175.9	346.9	175.9
175.9	0.000	0.000	Strato2_3095_82743_L_0		

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|
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019  18:00:06
|
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.30400	-0.30400	-4.10694E-12	6.08000E-02
2	-0.16916	0.16916	-6.08000E-02	2.69671E-02
3	0.20607	-0.20607	-2.69671E-02	6.81802E-02
4	0.27194	-0.27194	-6.81802E-02	0.12257
5	0.68070	-0.68070	-0.12257	0.25871
6	0.77511	-0.77511	-0.25871	0.41373
7	1.0205	-1.0205	-0.41373	0.61783
8	0.96751	-0.96751	-0.61783	0.81133
9	0.93372	-0.93372	-0.81133	0.99807
10	0.62160	-0.62160	-0.99807	1.1224
11	0.44405	-0.44405	-1.1224	1.2112
12	9.44456E-02	-9.44456E-02	-1.2112	1.2301
13	-3.44455E-03	3.44455E-03	-1.2301	1.2294
14	-0.25778	0.25778	-1.2294	1.1778
15	-0.30343	0.30343	-1.1778	1.1172
16	-0.53194	0.53194	-1.1172	1.0108
17	-0.58087	0.58087	-1.0108	0.89460
18	-0.76045	0.76045	-0.89460	0.74251
19	-0.78512	0.78512	-0.74251	0.58548
20	-0.93179	0.93179	-0.58548	0.39912
21	-0.94278	0.94278	-0.39912	0.21057
22	-1.0681	1.0681	-0.21057	-3.05325E-03
23	-1.0730	1.0730	3.05325E-03	-0.21765
24	-1.2111	1.2111	0.21765	-0.45987
25	-1.2398	1.2398	0.45987	-0.70783
26	-1.3758	1.3758	0.70783	-0.98299
27	-1.4065	1.4065	0.98299	-1.2643
28	-1.5260	1.5260	1.2643	-1.5695
29	-1.5493	1.5493	1.5695	-1.8793
30	-1.6567	1.6567	1.8793	-2.2107
31	-1.6952	1.6952	2.2107	-2.5497

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 360 di 1221
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32	-1.8119	1.8119	2.5497	-2.9121
33	-1.8442	1.8442	2.9121	-3.2809
34	-1.9494	1.9494	3.2809	-3.6708
35	-1.9737	1.9737	3.6708	-4.0656
36	-2.0649	2.0649	4.0656	-4.4786
37	-2.0771	2.0771	4.4786	-4.8940
38	-2.1495	2.1495	4.8940	-5.3239
39	-2.1591	2.1591	5.3239	-5.7557
40	-2.2211	2.2211	5.7557	-6.1999
41	-2.2029	2.2029	6.1999	-6.6405
42	-2.2289	2.2289	6.6405	-7.0863
43	-2.1724	2.1724	7.0863	-7.5208
44	-2.1511	2.1511	7.5208	-7.9510
45	-2.0435	2.0435	7.9510	-8.3597
46	-1.9749	1.9749	8.3597	-8.7547
47	-1.8146	1.8146	8.7547	-9.1176
48	-1.6692	1.6692	9.1176	-9.4514
49	-1.4260	1.4260	9.4514	-9.7366
50	-1.1867	1.1867	9.7366	-9.9740
51	-0.84253	0.84253	9.9740	-10.142
52	-0.49083	0.49083	10.142	-10.241
53	-2.65242E-02	2.65242E-02	10.241	-10.246
54	0.44564	-0.44564	10.246	-10.157
55	1.0387	-1.0387	10.157	-9.9491
56	1.6630	-1.6630	9.9491	-9.6165
57	2.4162	-2.4162	9.6165	-9.1332
58	3.2118	-3.2118	9.1332	-8.4909
59	4.1438	-4.1438	8.4909	-7.6621
60	5.1283	-5.1283	7.6621	-6.6365
61	6.2455	-6.2455	6.6365	-5.3873
62	7.4237	-7.4237	5.3873	-3.9026
63	8.7494	-8.7494	3.9026	-2.1527
64	10.142	-10.142	2.1527	-0.12440
65	11.683	-11.683	0.12440	2.2122
66	13.293	-13.293	-2.2122	4.8709
67	10.548	-10.548	-4.8709	6.9804
68	8.0452	-8.0452	-6.9804	8.5894
69	5.8409	-5.8409	-8.5894	9.7576
70	3.8606	-3.8606	-9.7576	10.530
71	2.1615	-2.1615	-10.530	10.962
72	0.66093	-0.66093	-10.962	11.094
73	-0.58810	0.58810	-11.094	10.977
74	-1.6679	1.6679	-10.977	10.643
75	-2.5268	2.5268	-10.643	10.138
76	-3.2523	3.2523	-10.138	9.4872
77	-3.7857	3.7857	-9.4872	8.7301
78	-4.2036	4.2036	-8.7301	7.8894
79	-4.4549	4.4549	-7.8894	6.9984
80	-4.6123	4.6123	-6.9984	6.0759
81	-4.6240	4.6240	-6.0759	5.1511
82	-4.4990	4.4990	-5.1511	4.2513
83	-4.3039	4.3039	-4.2513	3.3906
84	-3.9926	3.9926	-3.3906	2.5920
85	-3.6209	3.6209	-2.5920	1.8678
86	-3.1347	3.1347	-1.8678	1.2409
87	-2.5935	2.5935	-1.2409	0.72217
88	-1.9429	1.9429	-0.72217	0.33360
89	-1.2394	1.2394	-0.33360	8.57188E-02
90	-0.42859	0.42859	-8.57188E-02	1.32117E-14

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019    18:00:06                             |
+-----+

```

New Project

STRESS RESULTS FOR GROUP NO. 4

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

Doc. N.

Progetto
INORLotto
12Codifica Documento
E E2 CL GA 2701 002Rev.
AFoglio
361 di 1221

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| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                     |
|                               NewProject.BaseDesignSection_28.Nominal_63             |
|                               Exe Time :29 July 2019      18:00:06                   |
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New Project

STRESS RESULTS FOR GROUP NO. 5

```

Tirante2_1507      :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
CURRENT TIME IS   2.0000

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POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

ITER      0 RNORM = 0.000      RMNORM= 0.000
RINORM=0.7515E+05 RIMNOR= 6378.
RENORM= 751.6      REMNOR=0.5644E-21 RATIO =0.1000      TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 35.60      RMMAX = 11.09
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT      =0.7515E+05 RDR      = 6378.
RATIOT=0.1000      RATIOR= 0.000
MAX UN= 7.601      IEQ=      35 NODE      18 DOF      1 Y-DISPL.F
MIN UN=-.9409E-10 IEQ=      95 NODE      48 DOF      1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

```

```

ITER      2 RNORM = 0.000      RMNORM= 0.000
RINORM=0.7515E+05 RIMNOR= 6378.
RENORM= 293.5      REMNOR=0.2343E-19 RATIO =0.6250E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 35.60      RMMAX = 11.09
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT      =0.7515E+05 RDR      = 6378.
RATIOT=0.6250E-01 RATIOR= 0.000
MAX UN= 7.663      IEQ=      21 NODE      11 DOF      1 Y-DISPL.F
MIN UN=-.1109E-08 IEQ=      17 NODE      9 DOF      1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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```

ITER      3 RNORM = 0.000      RMNORM= 0.000
RINORM=0.7515E+05 RIMNOR= 6378.
RENORM= 159.6      REMNOR=0.3749E-18 RATIO =0.4608E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 35.60      RMMAX = 11.09
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT      =0.7515E+05 RDR      = 6378.
RATIOT=0.4608E-01 RATIOR= 0.000
MAX UN= 7.311      IEQ=      51 NODE      26 DOF      1 Y-DISPL.F
MIN UN=-.3507E-08 IEQ=      13 NODE      7 DOF      1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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```

ITER      4 RNORM = 0.000      RMNORM= 0.000
RINORM=0.7515E+05 RIMNOR= 6378.
RENORM= 11.07      REMNOR=0.2389E-18 RATIO =0.1214E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 35.60      RMMAX = 11.09
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT      =0.7515E+05 RDR      = 6378.
RATIOT=0.1214E-01 RATIOR= 0.000
MAX UN= 2.680      IEQ=      67 NODE      34 DOF      1 Y-DISPL.F
MIN UN=-.2886E-08 IEQ=      21 NODE      11 DOF      1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

```

```

ITER      5 RNORM = 0.000      RMNORM= 0.000
RINORM=0.7515E+05 RIMNOR= 6378.
RENORM=0.1348      REMNOR=0.7314E-19 RATIO =0.1340E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 35.60      RMMAX = 11.09
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT      =0.7515E+05 RDR      = 6378.
RATIOT=0.1340E-02 RATIOR= 0.000
MAX UN=0.3450      IEQ=      73 NODE      37 DOF      1 Y-DISPL.F
MIN UN=-.2393E-08 IEQ=      7 NODE      4 DOF      1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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```

ITER      6 RNORM = 0.000      RMNORM= 0.000
RINORM=0.7515E+05 RIMNOR= 6378.

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 362 di 1221
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RENORM=0.1720E-16 REMNOR=0.1013E-18 RATIO =0.1513E-10 TOLER =0.1000E-03      CONVERGED !
RFMAX = 35.60      RMMAX = 11.09
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.7515E+05 RDR = 6378.
RATIOT=0.1513E-10 RATIO= 0.000
MAX UN=0.1584E-08 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
MIN UN=-.1238E-08 IEQ= 23 NODE 12 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|                               NewProject.BaseDesignSection.28.Nominal_63                       |
|                               Exe Time :29 July 2019 18:00:06                               |
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New Project
SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 3 ( AT TIME 3.000 )
    
```

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	1.1894417E-02	-1.6906769E-03	
2	1.1556282E-02	-1.6906697E-03	
3	1.1218151E-02	-1.6906324E-03	
4	1.0880036E-02	-1.6905041E-03	
5	1.0541962E-02	-1.6901920E-03	
6	1.0203979E-02	-1.6895829E-03	
7	9.8661575E-03	-1.6885443E-03	
8	9.5285993E-03	-1.6869280E-03	
9	9.1914358E-03	-1.6845702E-03	
10	8.8548324E-03	-1.6812947E-03	
11	8.5189917E-03	-1.6769120E-03	
12	8.1841549E-03	-1.6712201E-03	
13	7.8506053E-03	-1.6640034E-03	
14	7.5186704E-03	-1.6550344E-03	
15	7.1887244E-03	-1.6440730E-03	
16	6.8611908E-03	-1.6308671E-03	
17	6.5365448E-03	-1.6151528E-03	
18	6.2153152E-03	-1.5966553E-03	
19	5.8980873E-03	-1.5750876E-03	
20	5.5855023E-03	-1.5501877E-03	
21	5.2782453E-03	-1.5217911E-03	
22	4.9770210E-03	-1.4898675E-03	
23	4.6825265E-03	-1.4545211E-03	
24	4.3954263E-03	-1.4159903E-03	
25	4.1163237E-03	-1.3745812E-03	
26	3.8457654E-03	-1.3305980E-03	
27	3.5842362E-03	-1.2843395E-03	
28	3.3321617E-03	-1.2360996E-03	
29	3.0899103E-03	-1.1861679E-03	
30	2.8577895E-03	-1.1348291E-03	
31	2.6360537E-03	-1.0823655E-03	
32	2.4248997E-03	-1.0290562E-03	
33	2.2244691E-03	-9.7517813E-04	
34	2.0348480E-03	-9.2100630E-04	
35	1.8560688E-03	-8.6681454E-04	
36	1.6881063E-03	-8.1287498E-04	
37	1.5308838E-03	-7.5946016E-04	
38	1.3842691E-03	-7.0684252E-04	
39	1.2480761E-03	-6.5528547E-04	
40	1.1220691E-03	-6.0502561E-04	
41	1.0059666E-03	-5.5626516E-04	
42	8.9945160E-04	-5.0917578E-04	
43	8.0217535E-04	-4.6389979E-04	
44	7.1376307E-04	-4.2055295E-04	
45	6.3381985E-04	-3.7922678E-04	
46	5.6193178E-04	-3.3998900E-04	
47	4.9767977E-04	-3.0289096E-04	
48	4.4063073E-04	-2.6796286E-04	
49	3.9034922E-04	-2.3521952E-04	
50	3.4639756E-04	-2.0466049E-04	
51	3.0834040E-04	-1.7627088E-04	
52	2.7574643E-04	-1.5002045E-04	
53	2.4819231E-04	-1.2586606E-04	
54	2.2526395E-04	-1.0375263E-04	
55	2.0655950E-04	-8.3615637E-05	
56	1.9169077E-04	-6.5382406E-05	
57	1.8028493E-04	-4.8973206E-05	
58	1.7198559E-04	-3.4302480E-05	
59	1.6645406E-04	-2.1279901E-05	
60	1.6337003E-04	-9.8113866E-06	

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 363 di 1221
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61	1.6243238E-04	2.0019698E-07
62	1.6335962E-04	8.8544927E-06
63	1.6589049E-04	1.6253433E-05
64	1.6978423E-04	2.2500900E-05
65	1.7482111E-04	2.7702281E-05
66	1.8080250E-04	3.1964018E-05
67	1.8755122E-04	3.5393273E-05
68	1.9491071E-04	3.8085994E-05
69	2.0274207E-04	4.0125499E-05
70	2.1092272E-04	4.1592174E-05
71	2.1934588E-04	4.2562978E-05
72	2.2791974E-04	4.3111179E-05
73	2.3656636E-04	4.3305992E-05
74	2.4522246E-04	4.3212256E-05
75	2.5383603E-04	4.2890136E-05
76	2.6236698E-04	4.2394939E-05
77	2.7078581E-04	4.1776774E-05
78	2.7907248E-04	4.1080403E-05
79	2.8721540E-04	4.0345355E-05
80	2.9521032E-04	3.9605838E-05
81	3.0305936E-04	3.8890725E-05
82	3.1076980E-04	3.8223507E-05
83	3.1835326E-04	3.7623729E-05
84	3.2582473E-04	3.7105556E-05
85	3.3320186E-04	3.6677585E-05
86	3.4050236E-04	3.6342957E-05
87	3.4774511E-04	3.6099399E-05
88	3.5494769E-04	3.5939343E-05
89	3.6212556E-04	3.5849897E-05
90	3.6929114E-04	3.5812875E-05
91	3.7645264E-04	3.5804782E-05

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019  18:00:06                               |
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New Project

STRESS RESULTS FOR GROUP NO. 1

O_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.3040	-1.1894E-02	10.00	3.040	10.00	5.300	ACTIVE	0.000	0.000	0.000	1.000	1.000
3.040	0.000	0.000	Stratol_2_8_L_0									
2 D	0.6575	-1.1556E-02	10.81	3.288	10.81	5.732	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
3.288	0.000	0.000	Stratol_2_8_L_0									
3 D	1.910	-1.1218E-02	31.41	9.550	31.41	16.65	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
9.550	0.000	0.000	Stratol_2_8_L_0									
4 D	2.005	-1.0880E-02	32.97	10.02	32.97	17.47	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
10.02	0.000	0.000	Stratol_2_8_L_0									
5 D	2.751	-1.0542E-02	45.25	13.76	45.25	23.98	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
13.76	0.000	0.000	Stratol_2_8_L_0									
6 D	2.841	-1.0204E-02	46.73	14.21	46.73	24.77	ACTIVE	0.000	-1.000	0.000	1.000	1.000
14.21	0.000	0.000	Stratol_2_8_L_0									
7 D	3.396	-9.8662E-03	55.86	16.98	55.86	29.60	ACTIVE	0.000	-1.200	0.000	1.000	1.000
16.98	0.000	0.000	Stratol_2_8_L_0									
8 D	3.502	-9.5286E-03	57.60	17.51	57.60	30.53	ACTIVE	0.000	-1.400	0.000	1.000	1.000
17.51	0.000	0.000	Stratol_2_8_L_0									
9 D	3.925	-9.1914E-03	64.56	19.63	64.56	34.22	ACTIVE	0.000	-1.600	0.000	1.000	1.000
19.63	0.000	0.000	Stratol_2_8_L_0									
10 D	4.051	-8.8548E-03	66.63	20.26	66.63	35.31	ACTIVE	0.000	-1.800	0.000	1.000	1.000
20.26	0.000	0.000	Stratol_2_8_L_0									
11 D	4.467	-8.5190E-03	73.46	22.33	73.46	38.94	ACTIVE	0.000	-2.000	0.000	1.000	1.000
22.33	0.000	0.000	Stratol_2_8_L_0									
12 D	4.604	-8.1842E-03	75.72	23.02	75.72	40.13	ACTIVE	0.000	-2.200	0.000	1.000	1.000
23.02	0.000	0.000	Stratol_2_8_L_0									
13 D	4.985	-7.8506E-03	81.98	24.92	81.98	43.45	ACTIVE	0.000	-2.400	0.000	1.000	1.000
24.92	0.000	0.000	Stratol_2_8_L_0									
14 D	5.131	-7.5187E-03	84.40	25.66	84.40	44.73	ACTIVE	0.000	-2.600	0.000	1.000	1.000

GENERAL CONTRACTOR



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Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 364 di 1221
25.66	0.000	0.000	Stratol_2_8_L_0				
15 D	5.488	-7.1887E-03	90.27	27.44	90.27	47.84	ACTIVE 0.000 -2.800 0.000 1.000 1.000
27.44	0.000	0.000	Stratol_2_8_L_0				
16 D	5.621	-6.8612E-03	92.44	28.10	92.44	49.00	ACTIVE 0.000 -3.000 0.000 1.000 1.000
28.10	0.000	0.000	Stratol_2_8_L_0				
17 D	5.961	-6.5365E-03	98.05	29.81	98.05	51.96	ACTIVE 0.000 -3.200 0.000 1.000 1.000
29.81	0.000	0.000	Stratol_2_8_L_0				
18 D	6.124	-6.2153E-03	100.7	30.62	100.7	53.39	ACTIVE 0.000 -3.400 0.000 1.000 1.000
30.62	0.000	0.000	Stratol_2_8_L_0				
19 D	6.451	-5.8981E-03	106.1	32.26	106.1	56.24	ACTIVE 0.000 -3.600 0.000 1.000 1.000
32.26	0.000	0.000	Stratol_2_8_L_0				
20 D	6.620	-5.5855E-03	108.9	33.10	108.9	57.70	ACTIVE 0.000 -3.800 0.000 1.000 1.000
33.10	0.000	0.000	Stratol_2_8_L_0				
21 D	6.936	-5.2782E-03	114.1	34.68	114.1	60.46	ACTIVE 0.000 -4.000 0.000 1.000 1.000
34.68	0.000	0.000	Stratol_2_8_L_0				
22 D	7.109	-4.9770E-03	116.9	35.55	116.9	61.97	ACTIVE 0.000 -4.200 0.000 1.000 1.000
35.55	0.000	0.000	Stratol_2_8_L_0				
23 D	7.417	-4.6825E-03	122.0	37.09	122.0	64.66	ACTIVE 0.000 -4.400 0.000 1.000 1.000
37.09	0.000	0.000	Stratol_2_8_L_0				
24 D	7.579	-4.3954E-03	124.7	37.90	124.7	66.07	ACTIVE 0.000 -4.600 0.000 1.000 1.000
37.90	0.000	0.000	Stratol_2_8_L_0				
25 D	7.881	-4.1163E-03	129.6	39.40	129.6	68.70	ACTIVE 0.000 -4.800 0.000 1.000 1.000
39.40	0.000	0.000	Stratol_2_8_L_0				
26 D	8.062	-3.8458E-03	132.6	40.31	132.6	70.28	ACTIVE 0.000 -5.000 0.000 1.000 1.000
40.31	0.000	0.000	Stratol_2_8_L_0				
27 D	8.358	-3.5842E-03	137.5	41.79	137.5	72.85	ACTIVE 0.000 -5.200 0.000 1.000 1.000
41.79	0.000	0.000	Stratol_2_8_L_0				
28 D	8.542	-3.3322E-03	140.5	42.71	140.5	74.46	ACTIVE 0.000 -5.400 0.000 1.000 1.000
42.71	0.000	0.000	Stratol_2_8_L_0				
29 D	8.832	-3.0899E-03	145.3	44.16	145.3	76.99	ACTIVE 0.000 -5.600 0.000 1.000 1.000
44.16	0.000	0.000	Stratol_2_8_L_0				
30 D	9.019	-2.8578E-03	148.3	45.10	148.3	78.62	ACTIVE 0.000 -5.800 0.000 1.000 1.000
45.10	0.000	0.000	Stratol_2_8_L_0				
31 D	9.294	-2.6361E-03	152.9	46.47	152.9	81.02	ACTIVE 0.000 -6.000 0.000 1.000 1.000
46.47	0.000	0.000	Stratol_2_8_L_0				
32 D	9.484	-2.4249E-03	156.0	47.42	156.0	82.67	ACTIVE 0.000 -6.200 0.000 1.000 1.000
47.42	0.000	0.000	Stratol_2_8_L_0				
33 D	9.767	-2.2245E-03	160.6	48.83	160.6	85.14	ACTIVE 0.000 -6.400 0.000 1.000 1.000
48.83	0.000	0.000	Stratol_2_8_L_0				
34 D	9.959	-2.0348E-03	163.8	49.79	163.8	86.81	ACTIVE 0.000 -6.600 0.000 1.000 1.000
49.79	0.000	0.000	Stratol_2_8_L_0				
35 D	10.24	-1.8561E-03	168.4	51.19	168.4	89.25	ACTIVE 0.000 -6.800 0.000 1.000 1.000
51.19	0.000	0.000	Stratol_2_8_L_0				
36 D	10.43	-1.6881E-03	171.6	52.16	171.6	90.94	ACTIVE 0.000 -7.000 0.000 1.000 1.000
52.16	0.000	0.000	Stratol_2_8_L_0				
37 D	10.71	-1.5309E-03	176.1	53.54	176.1	93.35	ACTIVE 0.000 -7.200 0.000 1.000 1.000
53.54	0.000	0.000	Stratol_2_8_L_0				
38 D	11.31	-1.3843E-03	179.3	56.55	179.3	95.05	UL-RL 2.1827E+04 -7.400 0.000 1.000 1.000
56.55	0.000	0.000	Stratol_2_8_L_0				
39 D	12.37	-1.2481E-03	183.7	61.84	183.7	97.36	UL-RL 2.1827E+04 -7.600 0.000 1.000 1.000
61.84	0.000	0.000	Stratol_2_8_L_0				
40 D	13.27	-1.1221E-03	186.9	66.33	186.9	99.08	UL-RL 2.1827E+04 -7.800 0.000 1.000 1.000
66.33	0.000	0.000	Stratol_2_8_L_0				
41 D	14.25	-1.0060E-03	191.4	71.25	191.4	101.5	UL-RL 2.1827E+04 -8.000 0.000 1.000 1.000
71.25	0.000	0.000	Stratol_2_8_L_0				
42 D	15.07	-8.9945E-04	194.7	75.33	194.7	103.2	UL-RL 2.1827E+04 -8.200 0.000 1.000 1.000
75.33	0.000	0.000	Stratol_2_8_L_0				
43 D	15.97	-8.0218E-04	199.1	79.84	199.1	105.5	UL-RL 2.1827E+04 -8.400 0.000 1.000 1.000
79.84	0.000	0.000	Stratol_2_8_L_0				
44 D	16.71	-7.1376E-04	202.4	83.55	202.4	107.3	UL-RL 2.1827E+04 -8.600 0.000 1.000 1.000
83.55	0.000	0.000	Stratol_2_8_L_0				
45 D	17.54	-6.3382E-04	206.8	87.68	206.8	109.6	UL-RL 2.1827E+04 -8.800 0.000 1.000 1.000
87.68	0.000	0.000	Stratol_2_8_L_0				
46 D	18.20	-5.6193E-04	210.0	90.99	210.0	111.3	UL-RL 2.1827E+04 -9.000 0.000 1.000 1.000
90.99	0.000	0.000	Stratol_2_8_L_0				
47 D	18.95	-4.9768E-04	214.4	94.77	214.4	113.6	UL-RL 2.1827E+04 -9.200 0.000 1.000 1.000
94.77	0.000	0.000	Stratol_2_8_L_0				
48 D	19.57	-4.4063E-04	217.7	97.86	217.7	115.4	UL-RL 2.1827E+04 -9.400 0.000 1.000 1.000
97.86	0.000	0.000	Stratol_2_8_L_0				
49 D	20.27	-3.9035E-04	222.1	101.3	222.1	117.7	UL-RL 2.1827E+04 -9.600 0.000 1.000 1.000
101.3	0.000	0.000	Stratol_2_8_L_0				
50 D	20.83	-3.4640E-04	225.4	104.2	225.4	119.5	UL-RL 2.1827E+04 -9.800 0.000 1.000 1.000
104.2	0.000	0.000	Stratol_2_8_L_0				
51 D	21.48	-3.0834E-04	229.8	107.4	229.8	121.8	UL-RL 2.1827E+04 -10.000 0.000 1.000 1.000
107.4	0.000	0.000	Stratol_2_8_L_0				
52 D	22.00	-2.7575E-04	233.1	110.0	233.1	123.6	UL-RL 2.1827E+04 -10.200 0.000 1.000 1.000
110.0	0.000	0.000	Stratol_2_8_L_0				
53 D	22.60	-2.4819E-04	237.4	113.0	237.4	125.8	UL-RL 2.1827E+04 -10.400 0.000 1.000 1.000
113.0	0.000	0.000	Stratol_2_8_L_0				
54 D	23.07	-2.2526E-04	240.7	115.4	240.7	127.6	UL-RL 2.1827E+04 -10.600 0.000 1.000 1.000
115.4	0.000	0.000	Stratol_2_8_L_0				
55 D	23.64	-2.0656E-04	245.0	118.2	245.0	129.8	UL-RL 2.1827E+04 -10.800 0.000 1.000 1.000
118.2	0.000	0.000	Stratol_2_8_L_0				
56 D	24.09	-1.9169E-04	248.4	120.4	248.4	131.6	UL-RL 2.1827E+04 -11.000 0.000 1.000 1.000
120.4	0.000	0.000	Stratol_2_8_L_0				



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 365 di 1221							
57 D	24.62	-1.8028E-04	252.7	123.1	252.7	133.9	UL-RL	2.1827E+04	-11.20	0.000	1.000	1.000
123.1	0.000	0.000	Strato1_2_8_L_0									
58 D	25.05	-1.7199E-04	256.1	125.3	256.1	135.7	UL-RL	2.1827E+04	-11.40	0.000	1.000	1.000
125.3	0.000	0.000	Strato1_2_8_L_0									
59 D	25.56	-1.6645E-04	260.3	127.8	260.3	138.0	UL-RL	2.1827E+04	-11.60	0.000	1.000	1.000
127.8	0.000	0.000	Strato1_2_8_L_0									
60 D	25.98	-1.6337E-04	263.7	129.9	263.7	139.8	UL-RL	2.1827E+04	-11.80	0.000	1.000	1.000
129.9	0.000	0.000	Strato1_2_8_L_0									
61 D	26.46	-1.6243E-04	267.9	132.3	267.9	142.0	UL-RL	2.1827E+04	-12.00	0.000	1.000	1.000
132.3	0.000	0.000	Strato1_2_8_L_0									
62 D	26.86	-1.6336E-04	271.3	134.3	271.3	143.8	UL-RL	2.1827E+04	-12.20	0.000	1.000	1.000
134.3	0.000	0.000	Strato1_2_8_L_0									
63 D	27.34	-1.6589E-04	275.5	136.7	275.5	146.0	UL-RL	2.1827E+04	-12.40	0.000	1.000	1.000
136.7	0.000	0.000	Strato1_2_8_L_0									
64 D	27.73	-1.6978E-04	279.0	138.6	279.0	147.9	UL-RL	2.1827E+04	-12.60	0.000	1.000	1.000
138.6	0.000	0.000	Strato1_2_8_L_0									
65 D	28.19	-1.7482E-04	283.2	141.0	283.2	150.1	UL-RL	2.1827E+04	-12.80	0.000	1.000	1.000
141.0	0.000	0.000	Strato1_2_8_L_0									
66 D	28.57	-1.8080E-04	286.7	142.9	286.7	151.9	UL-RL	2.1827E+04	-13.00	0.000	1.000	1.000
142.9	0.000	0.000	Strato1_2_8_L_0									
67 D	24.00	-1.8755E-04	291.0	120.0	291.0	145.5	UL-RL	6.1746E+04	-13.20	0.000	1.000	1.000
120.0	0.000	0.000	Strato2_3095_82743_L_0									
68 D	24.39	-1.9491E-04	294.6	122.0	294.6	147.3	UL-RL	6.1746E+04	-13.40	0.000	1.000	1.000
122.0	0.000	0.000	Strato2_3095_82743_L_0									
69 D	24.84	-2.0274E-04	298.9	124.2	298.9	149.5	UL-RL	6.1746E+04	-13.60	0.000	1.000	1.000
124.2	0.000	0.000	Strato2_3095_82743_L_0									
70 D	25.21	-2.1092E-04	302.6	126.0	302.6	151.3	UL-RL	6.1746E+04	-13.80	0.000	1.000	1.000
126.0	0.000	0.000	Strato2_3095_82743_L_0									
71 D	25.64	-2.1935E-04	307.0	128.2	307.0	153.5	UL-RL	6.1746E+04	-14.00	0.000	1.000	1.000
128.2	0.000	0.000	Strato2_3095_82743_L_0									
72 D	26.00	-2.2792E-04	310.7	130.0	310.7	155.3	UL-RL	6.1746E+04	-14.20	0.000	1.000	1.000
130.0	0.000	0.000	Strato2_3095_82743_L_0									
73 D	26.42	-2.3657E-04	315.0	132.1	315.0	157.5	UL-RL	6.1746E+04	-14.40	0.000	1.000	1.000
132.1	0.000	0.000	Strato2_3095_82743_L_0									
74 D	26.76	-2.4522E-04	318.7	133.8	318.7	159.4	UL-RL	6.1746E+04	-14.60	0.000	1.000	1.000
133.8	0.000	0.000	Strato2_3095_82743_L_0									
75 D	27.17	-2.5384E-04	323.1	135.8	323.1	161.5	UL-RL	6.1746E+04	-14.80	0.000	1.000	1.000
135.8	0.000	0.000	Strato2_3095_82743_L_0									
76 D	27.49	-2.6237E-04	326.7	137.5	326.7	163.3	UL-RL	6.1746E+04	-15.00	0.000	1.000	1.000
137.5	0.000	0.000	Strato2_3095_82743_L_0									
77 D	27.89	-2.7079E-04	331.0	139.4	331.0	165.5	UL-RL	6.1746E+04	-15.20	0.000	1.000	1.000
139.4	0.000	0.000	Strato2_3095_82743_L_0									
78 D	28.22	-2.7907E-04	334.7	141.1	334.7	167.4	UL-RL	6.1746E+04	-15.40	0.000	1.000	1.000
141.1	0.000	0.000	Strato2_3095_82743_L_0									
79 D	28.60	-2.8722E-04	339.1	143.0	339.1	169.5	UL-RL	6.1746E+04	-15.60	0.000	1.000	1.000
143.0	0.000	0.000	Strato2_3095_82743_L_0									
80 D	28.93	-2.9521E-04	342.8	144.6	342.8	171.4	UL-RL	6.1746E+04	-15.80	0.000	1.000	1.000
144.6	0.000	0.000	Strato2_3095_82743_L_0									
81 D	29.31	-3.0306E-04	347.1	146.5	347.1	173.6	UL-RL	6.1746E+04	-16.00	0.000	1.000	1.000
146.5	0.000	0.000	Strato2_3095_82743_L_0									
82 D	29.69	-3.1077E-04	351.4	148.4	351.4	175.7	UL-RL	6.1746E+04	-16.20	0.000	1.000	1.000
148.4	0.000	0.000	Strato2_3095_82743_L_0									
83 D	30.01	-3.1835E-04	355.1	150.0	355.1	177.6	UL-RL	6.1746E+04	-16.40	0.000	1.000	1.000
150.0	0.000	0.000	Strato2_3095_82743_L_0									
84 D	30.38	-3.2582E-04	359.4	151.9	359.4	179.7	UL-RL	6.1746E+04	-16.60	0.000	1.000	1.000
151.9	0.000	0.000	Strato2_3095_82743_L_0									
85 D	30.69	-3.3320E-04	363.1	153.5	363.1	181.6	UL-RL	6.1746E+04	-16.80	0.000	1.000	1.000
153.5	0.000	0.000	Strato2_3095_82743_L_0									
86 D	31.07	-3.4050E-04	367.4	155.3	367.4	183.7	UL-RL	6.1746E+04	-17.00	0.000	1.000	1.000
155.3	0.000	0.000	Strato2_3095_82743_L_0									
87 D	31.39	-3.4775E-04	371.1	156.9	371.1	185.6	UL-RL	6.1746E+04	-17.20	0.000	1.000	1.000
156.9	0.000	0.000	Strato2_3095_82743_L_0									
88 D	31.76	-3.5495E-04	375.4	158.8	375.4	187.7	UL-RL	6.1746E+04	-17.40	0.000	1.000	1.000
158.8	0.000	0.000	Strato2_3095_82743_L_0									
89 D	32.08	-3.6213E-04	379.2	160.4	379.2	189.6	UL-RL	6.1746E+04	-17.60	0.000	1.000	1.000
160.4	0.000	0.000	Strato2_3095_82743_L_0									
90 D	32.45	-3.6929E-04	383.5	162.3	383.5	191.7	UL-RL	6.1746E+04	-17.80	0.000	1.000	1.000
162.3	0.000	0.000	Strato2_3095_82743_L_0									
91 D	16.38	-3.7645E-04	387.1	163.8	387.1	193.6	UL-RL	6.1746E+04	-18.00	0.000	1.000	1.000
163.8	0.000	0.000	Strato2_3095_82743_L_0									

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|                                     PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                     |
|                                     NewProject.BaseDesignSection_28.Nominal_63  |
|                                     Exe Time :29 July 2019  18:00:06  |
|                                     |
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New Project

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 366 di 1221
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O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peg	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
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	not available									
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
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	not available									
19 D	1.536	5.8981E-03	1.900	7.678	68.40	40.03	PASSIVE	0.000	-3.600	0.000	1.000	1.000
7.678	0.000	0.000	Stratol_2_8_L_0									
20 D	4.607	5.5855E-03	5.700	23.03	72.20	42.06	PASSIVE	0.000	-3.800	0.000	1.000	1.000
23.03	0.000	0.000	Stratol_2_8_L_0									
21 D	7.678	5.2782E-03	9.500	38.39	76.00	44.08	PASSIVE	0.000	-4.000	0.000	1.000	1.000
38.39	0.000	0.000	Stratol_2_8_L_0									
22 D	10.75	4.9770E-03	13.30	53.75	79.80	53.75	PASSIVE	0.000	-4.200	0.000	1.000	1.000
53.75	0.000	0.000	Stratol_2_8_L_0									
23 D	13.82	4.6825E-03	17.10	69.10	83.60	69.10	PASSIVE	0.000	-4.400	0.000	1.000	1.000
69.10	0.000	0.000	Stratol_2_8_L_0									
24 D	14.08	4.3954E-03	20.90	70.38	87.40	70.38	V-C	5049.	-4.600	0.000	1.000	1.000
70.38	0.000	0.000	Stratol_2_8_L_0									
25 D	14.20	4.1163E-03	24.70	70.99	91.20	70.99	V-C	5049.	-4.800	0.000	1.000	1.000
70.99	0.000	0.000	Stratol_2_8_L_0									
26 D	14.33	3.8458E-03	28.50	71.64	95.00	71.64	V-C	5049.	-5.000	0.000	1.000	1.000
71.64	0.000	0.000	Stratol_2_8_L_0									
27 D	14.47	3.5842E-03	32.30	72.34	98.80	72.34	V-C	5049.	-5.200	0.000	1.000	1.000
72.34	0.000	0.000	Stratol_2_8_L_0									
28 D	14.62	3.3322E-03	36.10	73.09	102.6	73.09	V-C	5049.	-5.400	0.000	1.000	1.000
73.09	0.000	0.000	Stratol_2_8_L_0									
29 D	14.78	3.0899E-03	39.90	73.89	106.4	73.89	V-C	5049.	-5.600	0.000	1.000	1.000
73.89	0.000	0.000	Stratol_2_8_L_0									
30 D	14.95	2.8578E-03	43.70	74.73	110.2	74.73	V-C	5049.	-5.800	0.000	1.000	1.000
74.73	0.000	0.000	Stratol_2_8_L_0									
31 D	15.13	2.6361E-03	47.50	75.63	114.0	75.63	V-C	5049.	-6.000	0.000	1.000	1.000
75.63	0.000	0.000	Stratol_2_8_L_0									
32 D	15.32	2.4249E-03	51.30	76.58	117.8	76.58	V-C	5049.	-6.200	0.000	1.000	1.000
76.58	0.000	0.000	Stratol_2_8_L_0									
33 D	15.52	2.2245E-03	55.10	77.59	121.6	77.59	V-C	5049.	-6.400	0.000	1.000	1.000
77.59	0.000	0.000	Stratol_2_8_L_0									
34 D	15.73	2.0348E-03	58.90	78.65	125.4	78.65	V-C	5049.	-6.600	0.000	1.000	1.000
78.65	0.000	0.000	Stratol_2_8_L_0									
35 D	15.95	1.8561E-03	62.70	79.76	129.2	79.76	V-C	5049.	-6.800	0.000	1.000	1.000
79.76	0.000	0.000	Stratol_2_8_L_0									
36 D	16.19	1.6881E-03	66.50	80.93	133.0	80.93	V-C	5049.	-7.000	0.000	1.000	1.000
80.93	0.000	0.000	Stratol_2_8_L_0									
37 D	16.43	1.5309E-03	70.30	82.15	136.8	82.15	V-C	5049.	-7.200	0.000	1.000	1.000

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.				Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 367 di 1221		
82.15	0.000	0.000	Strato1_2_8_L_0							
38 D	16.68	1.3843E-03	74.10 83.42	140.6	83.42	V-C 5049.	-7.400	0.000	1.000	1.000
83.42	0.000	0.000	Strato1_2_8_L_0							
39 D	16.95	1.2481E-03	77.90 84.75	144.4	84.75	V-C 5049.	-7.600	0.000	1.000	1.000
84.75	0.000	0.000	Strato1_2_8_L_0							
40 D	17.22	1.1221E-03	81.70 86.12	148.2	86.12	V-C 5049.	-7.800	0.000	1.000	1.000
86.12	0.000	0.000	Strato1_2_8_L_0							
41 D	17.51	1.0060E-03	85.50 87.55	152.0	87.55	V-C 5049.	-8.000	0.000	1.000	1.000
87.55	0.000	0.000	Strato1_2_8_L_0							
42 D	17.80	8.9945E-04	89.30 89.02	155.8	89.02	V-C 5049.	-8.200	0.000	1.000	1.000
89.02	0.000	0.000	Strato1_2_8_L_0							
43 D	18.11	8.0218E-04	93.10 90.53	159.6	90.53	V-C 5049.	-8.400	0.000	1.000	1.000
90.53	0.000	0.000	Strato1_2_8_L_0							
44 D	18.42	7.1376E-04	96.90 92.09	163.4	92.09	V-C 5049.	-8.600	0.000	1.000	1.000
92.09	0.000	0.000	Strato1_2_8_L_0							
45 D	18.74	6.3382E-04	100.7 93.69	167.2	93.69	V-C 5049.	-8.800	0.000	1.000	1.000
93.69	0.000	0.000	Strato1_2_8_L_0							
46 D	19.07	5.6193E-04	104.5 95.33	171.0	95.33	V-C 5049.	-9.000	0.000	1.000	1.000
95.33	0.000	0.000	Strato1_2_8_L_0							
47 D	19.40	4.9768E-04	108.3 97.00	174.8	97.00	V-C 5049.	-9.200	0.000	1.000	1.000
97.00	0.000	0.000	Strato1_2_8_L_0							
48 D	19.74	4.4063E-04	112.1 98.71	178.6	98.71	V-C 5049.	-9.400	0.000	1.000	1.000
98.71	0.000	0.000	Strato1_2_8_L_0							
49 D	20.09	3.9035E-04	115.9 100.5	182.4	100.5	V-C 5049.	-9.600	0.000	1.000	1.000
100.5	0.000	0.000	Strato1_2_8_L_0							
50 D	20.37	3.4640E-04	119.7 101.9	186.2	102.4	UL-RL 1.5147E+04	-9.800	0.000	1.000	1.000
101.9	0.000	0.000	Strato1_2_8_L_0							
51 D	20.67	3.0834E-04	123.5 103.3	190.0	104.4	UL-RL 1.5147E+04	-10.00	0.000	1.000	1.000
103.3	0.000	0.000	Strato1_2_8_L_0							
52 D	20.98	2.7575E-04	127.3 104.9	193.8	106.3	UL-RL 1.5147E+04	-10.20	0.000	1.000	1.000
104.9	0.000	0.000	Strato1_2_8_L_0							
53 D	21.30	2.4819E-04	131.1 106.5	197.6	108.3	UL-RL 1.5147E+04	-10.40	0.000	1.000	1.000
106.5	0.000	0.000	Strato1_2_8_L_0							
54 D	21.65	2.2526E-04	134.9 108.2	201.4	110.2	UL-RL 1.5147E+04	-10.60	0.000	1.000	1.000
108.2	0.000	0.000	Strato1_2_8_L_0							
55 D	22.00	2.0656E-04	138.7 110.0	205.2	112.2	UL-RL 1.5147E+04	-10.80	0.000	1.000	1.000
110.0	0.000	0.000	Strato1_2_8_L_0							
56 D	22.37	1.9169E-04	142.5 111.8	209.0	114.1	UL-RL 1.5147E+04	-11.00	0.000	1.000	1.000
111.8	0.000	0.000	Strato1_2_8_L_0							
57 D	22.74	1.8028E-04	146.3 113.7	212.8	116.1	UL-RL 1.5147E+04	-11.20	0.000	1.000	1.000
113.7	0.000	0.000	Strato1_2_8_L_0							
58 D	23.13	1.7199E-04	150.1 115.7	216.6	118.0	UL-RL 1.5147E+04	-11.40	0.000	1.000	1.000
115.7	0.000	0.000	Strato1_2_8_L_0							
59 D	23.53	1.6645E-04	153.9 117.6	220.4	119.9	UL-RL 1.5147E+04	-11.60	0.000	1.000	1.000
117.6	0.000	0.000	Strato1_2_8_L_0							
60 D	23.92	1.6337E-04	157.7 119.6	224.2	121.9	UL-RL 1.5147E+04	-11.80	0.000	1.000	1.000
119.6	0.000	0.000	Strato1_2_8_L_0							
61 D	24.31	1.6243E-04	161.5 121.6	228.0	123.8	UL-RL 1.5147E+04	-12.00	0.000	1.000	1.000
121.6	0.000	0.000	Strato1_2_8_L_0							
62 D	24.71	1.6336E-04	165.3 123.5	231.8	125.8	UL-RL 1.5147E+04	-12.20	0.000	1.000	1.000
123.5	0.000	0.000	Strato1_2_8_L_0							
63 D	25.11	1.6589E-04	169.1 125.5	235.6	127.8	UL-RL 1.5147E+04	-12.40	0.000	1.000	1.000
125.5	0.000	0.000	Strato1_2_8_L_0							
64 D	25.51	1.6978E-04	172.9 127.6	239.4	129.7	UL-RL 1.5147E+04	-12.60	0.000	1.000	1.000
127.6	0.000	0.000	Strato1_2_8_L_0							
65 D	25.92	1.7482E-04	176.7 129.6	243.2	131.7	UL-RL 1.5147E+04	-12.80	0.000	1.000	1.000
129.6	0.000	0.000	Strato1_2_8_L_0							
66 D	26.33	1.8080E-04	180.5 131.7	247.0	133.7	UL-RL 1.5147E+04	-13.00	0.000	1.000	1.000
131.7	0.000	0.000	Strato1_2_8_L_0							
67 D	22.20	1.8755E-04	184.4 111.0	250.9	130.6	UL-RL 3.3465E+04	-13.20	0.000	1.000	1.000
111.0	0.000	0.000	Strato2_3095_82743_L_0							
68 D	22.68	1.9491E-04	188.4 113.4	254.9	132.4	UL-RL 3.3465E+04	-13.40	0.000	1.000	1.000
113.4	0.000	0.000	Strato2_3095_82743_L_0							
69 D	23.16	2.0274E-04	192.4 115.8	258.9	134.2	UL-RL 3.3465E+04	-13.60	0.000	1.000	1.000
115.8	0.000	0.000	Strato2_3095_82743_L_0							
70 D	23.64	2.1092E-04	196.4 118.2	262.9	136.0	UL-RL 3.3465E+04	-13.80	0.000	1.000	1.000
118.2	0.000	0.000	Strato2_3095_82743_L_0							
71 D	24.12	2.1935E-04	200.4 120.6	266.9	137.8	UL-RL 3.3465E+04	-14.00	0.000	1.000	1.000
120.6	0.000	0.000	Strato2_3095_82743_L_0							
72 D	24.60	2.2792E-04	204.4 123.0	270.9	139.6	UL-RL 3.3465E+04	-14.20	0.000	1.000	1.000
123.0	0.000	0.000	Strato2_3095_82743_L_0							
73 D	25.08	2.3657E-04	208.4 125.4	274.9	141.5	UL-RL 3.3465E+04	-14.40	0.000	1.000	1.000
125.4	0.000	0.000	Strato2_3095_82743_L_0							
74 D	25.56	2.4522E-04	212.4 127.8	278.9	143.3	UL-RL 3.3465E+04	-14.60	0.000	1.000	1.000
127.8	0.000	0.000	Strato2_3095_82743_L_0							
75 D	26.04	2.5384E-04	216.4 130.2	282.9	145.2	UL-RL 3.3465E+04	-14.80	0.000	1.000	1.000
130.2	0.000	0.000	Strato2_3095_82743_L_0							
76 D	26.51	2.6237E-04	220.4 132.6	286.9	147.0	UL-RL 3.3465E+04	-15.00	0.000	1.000	1.000
132.6	0.000	0.000	Strato2_3095_82743_L_0							
77 D	26.98	2.7079E-04	224.4 134.9	290.9	148.9	UL-RL 3.3465E+04	-15.20	0.000	1.000	1.000
134.9	0.000	0.000	Strato2_3095_82743_L_0							
78 D	27.46	2.7907E-04	228.4 137.3	294.9	150.8	UL-RL 3.3465E+04	-15.40	0.000	1.000	1.000
137.3	0.000	0.000	Strato2_3095_82743_L_0							
79 D	27.92	2.8722E-04	232.4 139.6	298.9	152.7	UL-RL 3.3465E+04	-15.60	0.000	1.000	1.000
139.6	0.000	0.000	Strato2_3095_82743_L_0							

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 368 di 1221
80 D	28.39	2.9521E-04	236.4	142.0	302.9
142.0	0.000	0.000	Strato2_3095_82743_L_0		154.6
81 D	28.86	3.0306E-04	240.4	144.3	306.9
144.3	0.000	0.000	Strato2_3095_82743_L_0		156.5
82 D	29.32	3.1077E-04	244.4	146.6	310.9
146.6	0.000	0.000	Strato2_3095_82743_L_0		158.5
83 D	29.78	3.1835E-04	248.4	148.9	314.9
148.9	0.000	0.000	Strato2_3095_82743_L_0		160.4
84 D	30.24	3.2582E-04	252.4	151.2	318.9
151.2	0.000	0.000	Strato2_3095_82743_L_0		162.3
85 D	30.70	3.3320E-04	256.4	153.5	322.9
153.5	0.000	0.000	Strato2_3095_82743_L_0		164.2
86 D	31.16	3.4050E-04	260.4	155.8	326.9
155.8	0.000	0.000	Strato2_3095_82743_L_0		166.2
87 D	31.62	3.4775E-04	264.4	158.1	330.9
158.1	0.000	0.000	Strato2_3095_82743_L_0		168.1
88 D	32.07	3.5495E-04	268.4	160.4	334.9
160.4	0.000	0.000	Strato2_3095_82743_L_0		170.1
89 D	32.53	3.6213E-04	272.4	162.7	338.9
162.7	0.000	0.000	Strato2_3095_82743_L_0		172.0
90 D	32.99	3.6929E-04	276.4	164.9	342.9
164.9	0.000	0.000	Strato2_3095_82743_L_0		173.9
91 D	16.72	3.7645E-04	280.4	167.2	346.9
167.2	0.000	0.000	Strato2_3095_82743_L_0		175.9

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019  18:00:06  |
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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_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
C U R R E N T T I M E I S 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.30400	-0.30400	9.94582E-11	6.08000E-02
2	0.96154	-0.96154	-6.08000E-02	0.25311
3	2.8715	-2.8715	-0.25311	0.82740
4	4.8761	-4.8761	-0.82740	1.8026
5	7.6275	-7.6275	-1.8026	3.3281
6	10.469	-10.469	-3.3281	5.4219
7	13.865	-13.865	-5.4219	8.1948
8	17.367	-17.367	-8.1948	11.668
9	21.292	-21.292	-11.668	15.927
10	25.343	-25.343	-15.927	20.995
11	29.810	-29.810	-20.995	26.957
12	34.413	-34.413	-26.957	33.840
13	39.398	-39.398	-33.840	41.719
14	44.529	-44.529	-41.719	50.625
15	50.017	-50.017	-50.625	60.629
16	55.638	-55.638	-60.629	71.756
17	61.599	-61.599	-71.756	84.076
18	67.724	-67.724	-84.076	97.621
19	72.639	-72.639	-97.621	112.15
20	74.652	-74.652	-112.15	127.08
21	73.910	-73.910	-127.08	141.86
22	70.271	-70.271	-141.86	155.92
23	63.868	-63.868	-155.92	168.69
24	57.371	-57.371	-168.69	180.16
25	51.054	-51.054	-180.16	190.37
26	44.787	-44.787	-190.37	199.33
27	38.676	-38.676	-199.33	207.07
28	32.600	-32.600	-207.07	213.59
29	26.655	-26.655	-213.59	218.92
30	20.728	-20.728	-218.92	223.06
31	14.895	-14.895	-223.06	226.04
32	9.0624	-9.0624	-226.04	227.85
33	3.3111	-3.3111	-227.85	228.52
34	-2.4602	2.4602	-228.52	228.02
35	-8.1747	8.1747	-228.02	226.39
36	-13.929	13.929	-226.39	223.60
37	-19.650	19.650	-223.60	219.67
38	-25.024	25.024	-219.67	214.67

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 369 di 1221
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39	-29.606	29.606	-214.67	208.75
40	-33.565	33.565	-208.75	202.03
41	-36.824	36.824	-202.03	194.67
42	-39.561	39.561	-194.67	186.76
43	-41.700	41.700	-186.76	178.42
44	-43.408	43.408	-178.42	169.74
45	-44.610	44.610	-169.74	160.81
46	-45.479	45.479	-160.81	151.72
47	-45.925	45.925	-151.72	142.53
48	-46.096	46.096	-142.53	133.31
49	-45.920	45.920	-133.31	124.13
50	-45.461	45.461	-124.13	115.04
51	-44.652	44.652	-115.04	106.11
52	-43.632	43.632	-106.11	97.381
53	-42.339	42.339	-97.381	88.914
54	-40.913	40.913	-88.914	80.731
55	-39.278	39.278	-80.731	72.875
56	-37.555	37.555	-72.875	65.364
57	-35.674	35.674	-65.364	58.229
58	-33.750	33.750	-58.229	51.479
59	-31.711	31.711	-51.479	45.137
60	-29.659	29.659	-45.137	39.205
61	-27.514	27.514	-39.205	33.703
62	-25.365	25.365	-33.703	28.630
63	-23.138	23.138	-28.630	24.002
64	-20.926	20.926	-24.002	19.817
65	-18.654	18.654	-19.817	16.086
66	-16.412	16.412	-16.086	12.804
67	-14.613	14.613	-12.804	9.8811
68	-12.902	12.902	-9.8811	7.3007
69	-11.227	11.227	-7.3007	5.0553
70	-9.6604	9.6604	-5.0553	3.1232
71	-8.1408	8.1408	-3.1232	1.4951
72	-6.7448	6.7448	-1.4951	0.14620
73	-5.4104	5.4104	-0.14620	-0.93587
74	-4.2098	4.2098	0.93587	-1.7778
75	-3.0806	3.0806	1.7778	-2.3940
76	-2.0991	2.0991	2.3940	-2.8138
77	-1.1951	1.1951	2.8138	-3.0528
78	-0.43410	0.43410	3.0528	-3.1396
79	0.24591	-0.24591	3.1396	-3.0904
80	0.78203	-0.78203	3.0904	-2.9340
81	1.2355	-1.2355	2.9340	-2.6869
82	1.6053	-1.6053	2.6869	-2.3659
83	1.8321	-1.8321	2.3659	-1.9995
84	1.9682	-1.9682	1.9995	-1.6058
85	1.9627	-1.9627	1.6058	-1.2133
86	1.8734	-1.8734	1.2133	-0.83858
87	1.6439	-1.6439	0.83858	-0.50981
88	1.3304	-1.3304	0.50981	-0.24373
89	0.87776	-0.87776	0.24373	-6.81741E-02
90	0.34087	-0.34087	6.81741E-02	-1.33105E-12

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                       |
|          NewProject.BaseDesignSection_28.Nominal_63          |
|          Exe Time :29 July 2019          18:00:06          |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                       |
|          NewProject.BaseDesignSection_28.Nominal_63          |
|          Exe Time :29 July 2019          18:00:06          |
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
370 di 1221

New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2882E+06 RIMNOR=0.2446E+07
 RENORM=0.1852E+05 REMNOR=0.1013E-18 RATIO =0.2535 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 136.1 RMMAX = 228.5
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.2882E+06 RDR =0.2446E+07
 RATIOT=0.2535 RATIO= 0.000
 MAX UN=0.1584E-08 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
 MIN UN=-136.1 IEQ= 31 NODE 16 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2882E+06 RIMNOR=0.2446E+07
 RENORM= 23.06 REMNOR=0.9131E-19 RATIO =0.8944E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 136.1 RMMAX = 228.5
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.2882E+06 RDR =0.2446E+07
 RATIOT=0.8944E-02 RATIO= 0.000
 MAX UN=0.6030E-09 IEQ= 53 NODE 27 DOF 1 Y-DISPL.F
 MIN UN=-2.455 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2882E+06 RIMNOR=0.2446E+07
 RENORM=0.6034 REMNOR=0.1334E-18 RATIO =0.1447E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 136.1 RMMAX = 228.5
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.2882E+06 RDR =0.2446E+07
 RATIOT=0.1447E-02 RATIO= 0.000
 MAX UN=0.4526E-01 IEQ= 97 NODE 49 DOF 1 Y-DISPL.F
 MIN UN=-.6232 IEQ= 29 NODE 15 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2882E+06 RIMNOR=0.2446E+07
 RENORM=0.3987E-16 REMNOR=0.1012E-18 RATIO =0.1176E-10 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 136.1 RMMAX = 228.5
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.2882E+06 RDR =0.2446E+07
 RATIOT=0.1176E-10 RATIO= 0.000
 MAX UN=0.2578E-08 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F
 MIN UN=-.2532E-08 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
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12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
371 di 1221

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|          PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017* |
|                                                                     |
|          NewProject.BaseDesignSection_28.Nominal_63      |
|          Exe Time :29 July 2019      18:00:06           |
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New Project

SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 4 (AT TIME 4.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	1.0320382E-02	-1.5609441E-03	
2	1.0008196E-02	-1.5609061E-03	
3	9.6960302E-03	-1.5607153E-03	
4	9.3839334E-03	-1.5601746E-03	
5	9.0719999E-03	-1.5590405E-03	
6	8.7603748E-03	-1.5570419E-03	
7	8.4492608E-03	-1.5538794E-03	
8	8.1389220E-03	-1.5492328E-03	
9	7.8296894E-03	-1.5427602E-03	
10	7.5219636E-03	-1.5341029E-03	
11	7.2162190E-03	-1.5228846E-03	
12	6.9130067E-03	-1.5087117E-03	
13	6.6129586E-03	-1.4911734E-03	
14	6.3167902E-03	-1.4698425E-03	
15	6.0253041E-03	-1.4442755E-03	
16	5.7393930E-03	-1.4140137E-03	
17	5.4598277E-03	-1.3818147E-03	
18	5.1866133E-03	-1.3504224E-03	
19	4.9196384E-03	-1.3193359E-03	
20	4.6588922E-03	-1.2880514E-03	
21	4.4044618E-03	-1.2561066E-03	
22	4.1565166E-03	-1.2231553E-03	
23	3.9152797E-03	-1.1890041E-03	
24	3.6809988E-03	-1.1536128E-03	
25	3.4539154E-03	-1.1170272E-03	
26	3.2342634E-03	-1.0793099E-03	
27	3.0222619E-03	-1.0405361E-03	
28	2.8181135E-03	-1.0007936E-03	
29	2.6220033E-03	-9.6018310E-04	
30	2.4340916E-03	-9.1881709E-04	
31	2.2545184E-03	-8.7682113E-04	
32	2.0833960E-03	-8.3433304E-04	
33	1.9208080E-03	-7.9150283E-04	
34	1.7668069E-03	-7.4849225E-04	
35	1.6214123E-03	-7.0547469E-04	
36	1.4846059E-03	-6.6263415E-04	
37	1.3563338E-03	-6.2016619E-04	
38	1.2365009E-03	-5.7827688E-04	
39	1.1249707E-03	-5.3717305E-04	
40	1.0215672E-03	-4.9704369E-04	
41	9.2607789E-04	-4.5805189E-04	
42	8.3826129E-04	-4.2033755E-04	
43	7.5784987E-04	-3.8401826E-04	
44	6.8455451E-04	-3.4919124E-04	
45	6.1806898E-04	-3.1593505E-04	
46	5.5807062E-04	-2.8430981E-04	
47	5.0423163E-04	-2.5436299E-04	
48	4.5621149E-04	-2.2612513E-04	
49	4.1366668E-04	-1.9961387E-04	
50	3.7625075E-04	-1.7483378E-04	
51	3.4361821E-04	-1.5177814E-04	
52	3.1542565E-04	-1.3042818E-04	
53	2.9133508E-04	-1.1075386E-04	
54	2.7101509E-04	-9.2714681E-05	
55	2.5414346E-04	-7.6261708E-05	
56	2.4040841E-04	-6.1338665E-05	
57	2.2951019E-04	-4.7882720E-05	
58	2.2116208E-04	-3.5825512E-05	
59	2.1509160E-04	-2.5093991E-05	
60	2.1104123E-04	-1.5611243E-05	
61	2.0876920E-04	-7.2970432E-06	
62	2.0805005E-04	-6.8252107E-08	
63	2.0867527E-04	6.1610826E-06	
64	2.1045376E-04	1.1479487E-05	
65	2.1321239E-04	1.5977696E-05	
66	2.1679633E-04	1.9748274E-05	
67	2.2106946E-04	2.2885324E-05	

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 373 di 1221							
18 D	10.61	-5.1866E-03	100.7	53.07	100.7	53.39	UL-RL	2.1827E+04	-3.400	0.000	1.000	1.000
53.07	0.000	0.000	Stratol_2_8_L_0									
19 D	10.72	-4.9196E-03	106.1	53.61	106.1	56.24	UL-RL	2.1827E+04	-3.600	0.000	1.000	1.000
53.61	0.000	0.000	Stratol_2_8_L_0									
20 D	10.66	-4.6589E-03	108.9	53.32	108.9	57.70	UL-RL	2.1827E+04	-3.800	0.000	1.000	1.000
53.32	0.000	0.000	Stratol_2_8_L_0									
21 D	10.75	-4.4045E-03	114.1	53.75	114.1	60.46	UL-RL	2.1827E+04	-4.000	0.000	1.000	1.000
53.75	0.000	0.000	Stratol_2_8_L_0									
22 D	10.69	-4.1565E-03	116.9	53.46	116.9	61.97	UL-RL	2.1827E+04	-4.200	0.000	1.000	1.000
53.46	0.000	0.000	Stratol_2_8_L_0									
23 D	10.77	-3.9153E-03	122.0	53.83	122.0	64.66	UL-RL	2.1827E+04	-4.400	0.000	1.000	1.000
53.83	0.000	0.000	Stratol_2_8_L_0									
24 D	10.70	-3.6810E-03	124.7	53.49	124.7	66.07	UL-RL	2.1827E+04	-4.600	0.000	1.000	1.000
53.49	0.000	0.000	Stratol_2_8_L_0									
25 D	10.77	-3.4539E-03	129.6	53.86	129.6	68.70	UL-RL	2.1827E+04	-4.800	0.000	1.000	1.000
53.86	0.000	0.000	Stratol_2_8_L_0									
26 D	10.73	-3.2343E-03	132.6	53.66	132.6	70.28	UL-RL	2.1827E+04	-5.000	0.000	1.000	1.000
53.66	0.000	0.000	Stratol_2_8_L_0									
27 D	10.81	-3.0223E-03	137.5	54.05	137.5	72.85	UL-RL	2.1827E+04	-5.200	0.000	1.000	1.000
54.05	0.000	0.000	Stratol_2_8_L_0									
28 D	10.79	-2.8181E-03	140.5	53.93	140.5	74.46	UL-RL	2.1827E+04	-5.400	0.000	1.000	1.000
53.93	0.000	0.000	Stratol_2_8_L_0									
29 D	10.88	-2.6220E-03	145.3	54.38	145.3	76.99	UL-RL	2.1827E+04	-5.600	0.000	1.000	1.000
54.38	0.000	0.000	Stratol_2_8_L_0									
30 D	10.87	-2.4341E-03	148.3	54.35	148.3	78.62	UL-RL	2.1827E+04	-5.800	0.000	1.000	1.000
54.35	0.000	0.000	Stratol_2_8_L_0									
31 D	10.96	-2.2545E-03	152.9	54.80	152.9	81.02	UL-RL	2.1827E+04	-6.000	0.000	1.000	1.000
54.80	0.000	0.000	Stratol_2_8_L_0									
32 D	10.97	-2.0834E-03	156.0	54.87	156.0	82.67	UL-RL	2.1827E+04	-6.200	0.000	1.000	1.000
54.87	0.000	0.000	Stratol_2_8_L_0									
33 D	11.09	-1.9208E-03	160.6	55.46	160.6	85.14	UL-RL	2.1827E+04	-6.400	0.000	1.000	1.000
55.46	0.000	0.000	Stratol_2_8_L_0									
34 D	11.13	-1.7668E-03	163.8	55.64	163.8	86.81	UL-RL	2.1827E+04	-6.600	0.000	1.000	1.000
55.64	0.000	0.000	Stratol_2_8_L_0									
35 D	11.26	-1.6214E-03	168.4	56.31	168.4	89.25	UL-RL	2.1827E+04	-6.800	0.000	1.000	1.000
56.31	0.000	0.000	Stratol_2_8_L_0									
36 D	11.32	-1.4846E-03	171.6	56.60	171.6	90.94	UL-RL	2.1827E+04	-7.000	0.000	1.000	1.000
56.60	0.000	0.000	Stratol_2_8_L_0									
37 D	11.47	-1.3563E-03	176.1	57.35	176.1	93.35	UL-RL	2.1827E+04	-7.200	0.000	1.000	1.000
57.35	0.000	0.000	Stratol_2_8_L_0									
38 D	11.96	-1.2365E-03	179.3	59.78	179.3	95.05	UL-RL	2.1827E+04	-7.400	0.000	1.000	1.000
59.78	0.000	0.000	Stratol_2_8_L_0									
39 D	12.91	-1.1250E-03	183.7	64.53	183.7	97.36	UL-RL	2.1827E+04	-7.600	0.000	1.000	1.000
64.53	0.000	0.000	Stratol_2_8_L_0									
40 D	13.70	-1.0216E-03	186.9	68.52	186.9	99.08	UL-RL	2.1827E+04	-7.800	0.000	1.000	1.000
68.52	0.000	0.000	Stratol_2_8_L_0									
41 D	14.60	-9.2608E-04	191.4	72.99	191.4	101.5	UL-RL	2.1827E+04	-8.000	0.000	1.000	1.000
72.99	0.000	0.000	Stratol_2_8_L_0									
42 D	15.33	-8.3826E-04	194.7	76.67	194.7	103.2	UL-RL	2.1827E+04	-8.200	0.000	1.000	1.000
76.67	0.000	0.000	Stratol_2_8_L_0									
43 D	16.16	-7.5785E-04	199.1	80.81	199.1	105.5	UL-RL	2.1827E+04	-8.400	0.000	1.000	1.000
80.81	0.000	0.000	Stratol_2_8_L_0									
44 D	16.84	-6.8455E-04	202.4	84.19	202.4	107.3	UL-RL	2.1827E+04	-8.600	0.000	1.000	1.000
84.19	0.000	0.000	Stratol_2_8_L_0									
45 D	17.60	-6.1807E-04	206.8	88.02	206.8	109.6	UL-RL	2.1827E+04	-8.800	0.000	1.000	1.000
88.02	0.000	0.000	Stratol_2_8_L_0									
46 D	18.21	-5.5807E-04	210.0	91.07	210.0	111.3	UL-RL	2.1827E+04	-9.000	0.000	1.000	1.000
91.07	0.000	0.000	Stratol_2_8_L_0									
47 D	18.93	-5.0423E-04	214.4	94.63	214.4	113.6	UL-RL	2.1827E+04	-9.200	0.000	1.000	1.000
94.63	0.000	0.000	Stratol_2_8_L_0									
48 D	19.50	-4.5621E-04	217.7	97.52	217.7	115.4	UL-RL	2.1827E+04	-9.400	0.000	1.000	1.000
97.52	0.000	0.000	Stratol_2_8_L_0									
49 D	20.17	-4.1367E-04	222.1	100.8	222.1	117.7	UL-RL	2.1827E+04	-9.600	0.000	1.000	1.000
100.8	0.000	0.000	Stratol_2_8_L_0									
50 D	20.70	-3.7625E-04	225.4	103.5	225.4	119.5	UL-RL	2.1827E+04	-9.800	0.000	1.000	1.000
103.5	0.000	0.000	Stratol_2_8_L_0									
51 D	21.32	-3.4362E-04	229.8	106.6	229.8	121.8	UL-RL	2.1827E+04	-10.00	0.000	1.000	1.000
106.6	0.000	0.000	Stratol_2_8_L_0									
52 D	21.82	-3.1543E-04	233.1	109.1	233.1	123.6	UL-RL	2.1827E+04	-10.20	0.000	1.000	1.000
109.1	0.000	0.000	Stratol_2_8_L_0									
53 D	22.41	-2.9134E-04	237.4	112.1	237.4	125.8	UL-RL	2.1827E+04	-10.40	0.000	1.000	1.000
112.1	0.000	0.000	Stratol_2_8_L_0									
54 D	22.87	-2.7102E-04	240.7	114.4	240.7	127.6	UL-RL	2.1827E+04	-10.60	0.000	1.000	1.000
114.4	0.000	0.000	Stratol_2_8_L_0									
55 D	23.43	-2.5414E-04	245.0	117.1	245.0	129.8	UL-RL	2.1827E+04	-10.80	0.000	1.000	1.000
117.1	0.000	0.000	Stratol_2_8_L_0									
56 D	23.88	-2.4041E-04	248.4	119.4	248.4	131.6	UL-RL	2.1827E+04	-11.00	0.000	1.000	1.000
119.4	0.000	0.000	Stratol_2_8_L_0									
57 D	24.41	-2.2951E-04	252.7	122.0	252.7	133.9	UL-RL	2.1827E+04	-11.20	0.000	1.000	1.000
122.0	0.000	0.000	Stratol_2_8_L_0									
58 D	24.84	-2.2116E-04	256.1	124.2	256.1	135.7	UL-RL	2.1827E+04	-11.40	0.000	1.000	1.000
124.2	0.000	0.000	Stratol_2_8_L_0									
59 D	25.35	-2.1509E-04	260.3	126.8	260.3	138.0	UL-RL	2.1827E+04	-11.60	0.000	1.000	1.000
126.8	0.000	0.000	Stratol_2_8_L_0									
60 D	25.77	-2.1104E-04	263.7	128.8	263.7	139.8	UL-RL	2.1827E+04	-11.80	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 374 di 1221
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128.8	0.000	0.000	Strato1_2_8_L_0									
61 D	26.26	-2.0877E-04	267.9	131.3	267.9	142.0	UL-RL	2.1827E+04	-12.00	0.000	1.000	1.000
131.3	0.000	0.000	Strato1_2_8_L_0									
62 D	26.66	-2.0805E-04	271.3	133.3	271.3	143.8	UL-RL	2.1827E+04	-12.20	0.000	1.000	1.000
133.3	0.000	0.000	Strato1_2_8_L_0									
63 D	27.15	-2.0868E-04	275.5	135.7	275.5	146.0	UL-RL	2.1827E+04	-12.40	0.000	1.000	1.000
135.7	0.000	0.000	Strato1_2_8_L_0									
64 D	27.55	-2.1045E-04	279.0	137.7	279.0	147.9	UL-RL	2.1827E+04	-12.60	0.000	1.000	1.000
137.7	0.000	0.000	Strato1_2_8_L_0									
65 D	28.02	-2.1321E-04	283.2	140.1	283.2	150.1	UL-RL	2.1827E+04	-12.80	0.000	1.000	1.000
140.1	0.000	0.000	Strato1_2_8_L_0									
66 D	28.42	-2.1680E-04	286.7	142.1	286.7	151.9	UL-RL	2.1827E+04	-13.00	0.000	1.000	1.000
142.1	0.000	0.000	Strato1_2_8_L_0									
67 D	23.59	-2.2107E-04	291.0	117.9	291.0	145.5	UL-RL	6.1746E+04	-13.20	0.000	1.000	1.000
117.9	0.000	0.000	Strato2_3095_82743_L_0									
68 D	24.01	-2.2591E-04	294.6	120.0	294.6	147.3	UL-RL	6.1746E+04	-13.40	0.000	1.000	1.000
120.0	0.000	0.000	Strato2_3095_82743_L_0									
69 D	24.48	-2.3122E-04	298.9	122.4	298.9	149.5	UL-RL	6.1746E+04	-13.60	0.000	1.000	1.000
122.4	0.000	0.000	Strato2_3095_82743_L_0									
70 D	24.89	-2.3690E-04	302.6	124.4	302.6	151.3	UL-RL	6.1746E+04	-13.80	0.000	1.000	1.000
124.4	0.000	0.000	Strato2_3095_82743_L_0									
71 D	25.35	-2.4286E-04	307.0	126.8	307.0	153.5	UL-RL	6.1746E+04	-14.00	0.000	1.000	1.000
126.8	0.000	0.000	Strato2_3095_82743_L_0									
72 D	25.74	-2.4903E-04	310.7	128.7	310.7	155.3	UL-RL	6.1746E+04	-14.20	0.000	1.000	1.000
128.7	0.000	0.000	Strato2_3095_82743_L_0									
73 D	26.18	-2.5534E-04	315.0	130.9	315.0	157.5	UL-RL	6.1746E+04	-14.40	0.000	1.000	1.000
130.9	0.000	0.000	Strato2_3095_82743_L_0									
74 D	26.56	-2.6174E-04	318.7	132.8	318.7	159.4	UL-RL	6.1746E+04	-14.60	0.000	1.000	1.000
132.8	0.000	0.000	Strato2_3095_82743_L_0									
75 D	26.99	-2.6819E-04	323.1	134.9	323.1	161.5	UL-RL	6.1746E+04	-14.80	0.000	1.000	1.000
134.9	0.000	0.000	Strato2_3095_82743_L_0									
76 D	27.34	-2.7464E-04	326.7	136.7	326.7	163.3	UL-RL	6.1746E+04	-15.00	0.000	1.000	1.000
136.7	0.000	0.000	Strato2_3095_82743_L_0									
77 D	27.76	-2.8107E-04	331.0	138.8	331.0	165.5	UL-RL	6.1746E+04	-15.20	0.000	1.000	1.000
138.8	0.000	0.000	Strato2_3095_82743_L_0									
78 D	28.11	-2.8745E-04	334.7	140.6	334.7	167.4	UL-RL	6.1746E+04	-15.40	0.000	1.000	1.000
140.6	0.000	0.000	Strato2_3095_82743_L_0									
79 D	28.52	-2.9377E-04	339.1	142.6	339.1	169.5	UL-RL	6.1746E+04	-15.60	0.000	1.000	1.000
142.6	0.000	0.000	Strato2_3095_82743_L_0									
80 D	28.87	-3.0001E-04	342.8	144.3	342.8	171.4	UL-RL	6.1746E+04	-15.80	0.000	1.000	1.000
144.3	0.000	0.000	Strato2_3095_82743_L_0									
81 D	29.27	-3.0619E-04	347.1	146.4	347.1	173.6	UL-RL	6.1746E+04	-16.00	0.000	1.000	1.000
146.4	0.000	0.000	Strato2_3095_82743_L_0									
82 D	29.67	-3.1228E-04	351.4	148.4	351.4	175.7	UL-RL	6.1746E+04	-16.20	0.000	1.000	1.000
148.4	0.000	0.000	Strato2_3095_82743_L_0									
83 D	30.01	-3.1830E-04	355.1	150.0	355.1	177.6	UL-RL	6.1746E+04	-16.40	0.000	1.000	1.000
150.0	0.000	0.000	Strato2_3095_82743_L_0									
84 D	30.40	-3.2426E-04	359.4	152.0	359.4	179.7	UL-RL	6.1746E+04	-16.60	0.000	1.000	1.000
152.0	0.000	0.000	Strato2_3095_82743_L_0									
85 D	30.73	-3.3016E-04	363.1	153.7	363.1	181.6	UL-RL	6.1746E+04	-16.80	0.000	1.000	1.000
153.7	0.000	0.000	Strato2_3095_82743_L_0									
86 D	31.13	-3.3601E-04	367.4	155.6	367.4	183.7	UL-RL	6.1746E+04	-17.00	0.000	1.000	1.000
155.6	0.000	0.000	Strato2_3095_82743_L_0									
87 D	31.46	-3.4182E-04	371.1	157.3	371.1	185.6	UL-RL	6.1746E+04	-17.20	0.000	1.000	1.000
157.3	0.000	0.000	Strato2_3095_82743_L_0									
88 D	31.85	-3.4761E-04	375.4	159.3	375.4	187.7	UL-RL	6.1746E+04	-17.40	0.000	1.000	1.000
159.3	0.000	0.000	Strato2_3095_82743_L_0									
89 D	32.19	-3.5338E-04	379.2	160.9	379.2	189.6	UL-RL	6.1746E+04	-17.60	0.000	1.000	1.000
160.9	0.000	0.000	Strato2_3095_82743_L_0									
90 D	32.58	-3.5914E-04	383.5	162.9	383.5	191.7	UL-RL	6.1746E+04	-17.80	0.000	1.000	1.000
162.9	0.000	0.000	Strato2_3095_82743_L_0									
91 D	16.45	-3.6490E-04	387.1	164.5	387.1	193.6	UL-RL	6.1746E+04	-18.00	0.000	1.000	1.000
164.5	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :29 July 2019          18:00:06                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 376 di 1221							
41 D	17.27	9.2608E-04	85.50	86.34	152.0	87.55	UL-RL	1.5147E+04	-8.000	0.000	1.000	1.000
86.34	0.000	0.000	Strato1_2_8_L_0									
42 D	17.62	8.3826E-04	89.30	88.09	155.8	89.02	UL-RL	1.5147E+04	-8.200	0.000	1.000	1.000
88.09	0.000	0.000	Strato1_2_8_L_0									
43 D	17.97	7.5785E-04	93.10	89.86	159.6	90.53	UL-RL	1.5147E+04	-8.400	0.000	1.000	1.000
89.86	0.000	0.000	Strato1_2_8_L_0									
44 D	18.33	6.8455E-04	96.90	91.65	163.4	92.09	UL-RL	1.5147E+04	-8.600	0.000	1.000	1.000
91.65	0.000	0.000	Strato1_2_8_L_0									
45 D	18.69	6.1807E-04	100.7	93.45	167.2	93.69	UL-RL	1.5147E+04	-8.800	0.000	1.000	1.000
93.45	0.000	0.000	Strato1_2_8_L_0									
46 D	19.05	5.5807E-04	104.5	95.27	171.0	95.33	UL-RL	1.5147E+04	-9.000	0.000	1.000	1.000
95.27	0.000	0.000	Strato1_2_8_L_0									
47 D	19.41	5.0423E-04	108.3	97.04	174.8	97.04	V-C	5049.	-9.200	0.000	1.000	1.000
97.04	0.000	0.000	Strato1_2_8_L_0									
48 D	19.76	4.5621E-04	112.1	98.79	178.6	98.79	V-C	5049.	-9.400	0.000	1.000	1.000
98.79	0.000	0.000	Strato1_2_8_L_0									
49 D	20.11	4.1367E-04	115.9	100.6	182.4	100.6	V-C	5049.	-9.600	0.000	1.000	1.000
100.6	0.000	0.000	Strato1_2_8_L_0									
50 D	20.46	3.7625E-04	119.7	102.3	186.2	102.4	UL-RL	1.5147E+04	-9.800	0.000	1.000	1.000
102.3	0.000	0.000	Strato1_2_8_L_0									
51 D	20.77	3.4362E-04	123.5	103.9	190.0	104.4	UL-RL	1.5147E+04	-10.00	0.000	1.000	1.000
103.9	0.000	0.000	Strato1_2_8_L_0									
52 D	21.10	3.1543E-04	127.3	105.5	193.8	106.3	UL-RL	1.5147E+04	-10.20	0.000	1.000	1.000
105.5	0.000	0.000	Strato1_2_8_L_0									
53 D	21.44	2.9134E-04	131.1	107.2	197.6	108.3	UL-RL	1.5147E+04	-10.40	0.000	1.000	1.000
107.2	0.000	0.000	Strato1_2_8_L_0									
54 D	21.78	2.7102E-04	134.9	108.9	201.4	110.2	UL-RL	1.5147E+04	-10.60	0.000	1.000	1.000
108.9	0.000	0.000	Strato1_2_8_L_0									
55 D	22.14	2.5414E-04	138.7	110.7	205.2	112.2	UL-RL	1.5147E+04	-10.80	0.000	1.000	1.000
110.7	0.000	0.000	Strato1_2_8_L_0									
56 D	22.51	2.4041E-04	142.5	112.6	209.0	114.1	UL-RL	1.5147E+04	-11.00	0.000	1.000	1.000
112.6	0.000	0.000	Strato1_2_8_L_0									
57 D	22.89	2.2951E-04	146.3	114.5	212.8	116.1	UL-RL	1.5147E+04	-11.20	0.000	1.000	1.000
114.5	0.000	0.000	Strato1_2_8_L_0									
58 D	23.28	2.2116E-04	150.1	116.4	216.6	118.0	UL-RL	1.5147E+04	-11.40	0.000	1.000	1.000
116.4	0.000	0.000	Strato1_2_8_L_0									
59 D	23.67	2.1509E-04	153.9	118.4	220.4	119.9	UL-RL	1.5147E+04	-11.60	0.000	1.000	1.000
118.4	0.000	0.000	Strato1_2_8_L_0									
60 D	24.07	2.1104E-04	157.7	120.3	224.2	121.9	UL-RL	1.5147E+04	-11.80	0.000	1.000	1.000
120.3	0.000	0.000	Strato1_2_8_L_0									
61 D	24.45	2.0877E-04	161.5	122.3	228.0	123.8	UL-RL	1.5147E+04	-12.00	0.000	1.000	1.000
122.3	0.000	0.000	Strato1_2_8_L_0									
62 D	24.84	2.0805E-04	165.3	124.2	231.8	125.8	UL-RL	1.5147E+04	-12.20	0.000	1.000	1.000
124.2	0.000	0.000	Strato1_2_8_L_0									
63 D	25.24	2.0868E-04	169.1	126.2	235.6	127.8	UL-RL	1.5147E+04	-12.40	0.000	1.000	1.000
126.2	0.000	0.000	Strato1_2_8_L_0									
64 D	25.64	2.1045E-04	172.9	128.2	239.4	129.7	UL-RL	1.5147E+04	-12.60	0.000	1.000	1.000
128.2	0.000	0.000	Strato1_2_8_L_0									
65 D	26.04	2.1321E-04	176.7	130.2	243.2	131.7	UL-RL	1.5147E+04	-12.80	0.000	1.000	1.000
130.2	0.000	0.000	Strato1_2_8_L_0									
66 D	26.44	2.1680E-04	180.5	132.2	247.0	133.7	UL-RL	1.5147E+04	-13.00	0.000	1.000	1.000
132.2	0.000	0.000	Strato1_2_8_L_0									
67 D	22.43	2.2107E-04	184.4	112.1	250.9	130.6	UL-RL	3.3465E+04	-13.20	0.000	1.000	1.000
112.1	0.000	0.000	Strato2_3095_82743_L_0									
68 D	22.89	2.2591E-04	188.4	114.4	254.9	132.4	UL-RL	3.3465E+04	-13.40	0.000	1.000	1.000
114.4	0.000	0.000	Strato2_3095_82743_L_0									
69 D	23.35	2.3122E-04	192.4	116.8	258.9	134.2	UL-RL	3.3465E+04	-13.60	0.000	1.000	1.000
116.8	0.000	0.000	Strato2_3095_82743_L_0									
70 D	23.81	2.3690E-04	196.4	119.1	262.9	136.0	UL-RL	3.3465E+04	-13.80	0.000	1.000	1.000
119.1	0.000	0.000	Strato2_3095_82743_L_0									
71 D	24.28	2.4286E-04	200.4	121.4	266.9	137.8	UL-RL	3.3465E+04	-14.00	0.000	1.000	1.000
121.4	0.000	0.000	Strato2_3095_82743_L_0									
72 D	24.74	2.4903E-04	204.4	123.7	270.9	139.6	UL-RL	3.3465E+04	-14.20	0.000	1.000	1.000
123.7	0.000	0.000	Strato2_3095_82743_L_0									
73 D	25.21	2.5534E-04	208.4	126.0	274.9	141.5	UL-RL	3.3465E+04	-14.40	0.000	1.000	1.000
126.0	0.000	0.000	Strato2_3095_82743_L_0									
74 D	25.67	2.6174E-04	212.4	128.4	278.9	143.3	UL-RL	3.3465E+04	-14.60	0.000	1.000	1.000
128.4	0.000	0.000	Strato2_3095_82743_L_0									
75 D	26.13	2.6819E-04	216.4	130.7	282.9	145.2	UL-RL	3.3465E+04	-14.80	0.000	1.000	1.000
130.7	0.000	0.000	Strato2_3095_82743_L_0									
76 D	26.59	2.7464E-04	220.4	133.0	286.9	147.0	UL-RL	3.3465E+04	-15.00	0.000	1.000	1.000
133.0	0.000	0.000	Strato2_3095_82743_L_0									
77 D	27.05	2.8107E-04	224.4	135.3	290.9	148.9	UL-RL	3.3465E+04	-15.20	0.000	1.000	1.000
135.3	0.000	0.000	Strato2_3095_82743_L_0									
78 D	27.51	2.8745E-04	228.4	137.6	294.9	150.8	UL-RL	3.3465E+04	-15.40	0.000	1.000	1.000
137.6	0.000	0.000	Strato2_3095_82743_L_0									
79 D	27.97	2.9377E-04	232.4	139.8	298.9	152.7	UL-RL	3.3465E+04	-15.60	0.000	1.000	1.000
139.8	0.000	0.000	Strato2_3095_82743_L_0									
80 D	28.42	3.0001E-04	236.4	142.1	302.9	154.6	UL-RL	3.3465E+04	-15.80	0.000	1.000	1.000
142.1	0.000	0.000	Strato2_3095_82743_L_0									
81 D	28.88	3.0619E-04	240.4	144.4	306.9	156.5	UL-RL	3.3465E+04	-16.00	0.000	1.000	1.000
144.4	0.000	0.000	Strato2_3095_82743_L_0									
82 D	29.33	3.1228E-04	244.4	146.6	310.9	158.5	UL-RL	3.3465E+04	-16.20	0.000	1.000	1.000
146.6	0.000	0.000	Strato2_3095_82743_L_0									
83 D	29.78	3.1830E-04	248.4	148.9	314.9	160.4	UL-RL	3.3465E+04	-16.40	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 377 di 1221
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148.9	0.000	0.000	Strato2_3095_82743_L_0									
84 D	30.23	3.2426E-04	252.4	151.2	318.9	162.3	UL-RL	3.3465E+04	-16.60	0.000	1.000	1.000
151.2	0.000	0.000	Strato2_3095_82743_L_0									
85 D	30.68	3.3016E-04	256.4	153.4	322.9	164.2	UL-RL	3.3465E+04	-16.80	0.000	1.000	1.000
153.4	0.000	0.000	Strato2_3095_82743_L_0									
86 D	31.13	3.3601E-04	260.4	155.6	326.9	166.2	UL-RL	3.3465E+04	-17.00	0.000	1.000	1.000
155.6	0.000	0.000	Strato2_3095_82743_L_0									
87 D	31.58	3.4182E-04	264.4	157.9	330.9	168.1	UL-RL	3.3465E+04	-17.20	0.000	1.000	1.000
157.9	0.000	0.000	Strato2_3095_82743_L_0									
88 D	32.02	3.4761E-04	268.4	160.1	334.9	170.1	UL-RL	3.3465E+04	-17.40	0.000	1.000	1.000
160.1	0.000	0.000	Strato2_3095_82743_L_0									
89 D	32.47	3.5338E-04	272.4	162.4	338.9	172.0	UL-RL	3.3465E+04	-17.60	0.000	1.000	1.000
162.4	0.000	0.000	Strato2_3095_82743_L_0									
90 D	32.92	3.5914E-04	276.4	164.6	342.9	173.9	UL-RL	3.3465E+04	-17.80	0.000	1.000	1.000
164.6	0.000	0.000	Strato2_3095_82743_L_0									
91 D	16.68	3.6490E-04	280.4	166.8	346.9	175.9	UL-RL	3.3465E+04	-18.00	0.000	1.000	1.000
166.8	0.000	0.000	Strato2_3095_82743_L_0									

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|
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.Nominal_63
|
|          Exe Time :29 July 2019      18:00:06
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New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.5999	-1.5999	-2.41389E-11	0.31998
2	4.8360	-4.8360	-0.31998	1.2872
3	9.9074	-9.9074	-1.2872	3.2687
4	15.083	-15.083	-3.2687	6.2852
5	21.337	-21.337	-6.2852	10.553
6	27.687	-27.687	-10.553	16.090
7	34.828	-34.828	-16.090	23.055
8	42.087	-42.087	-23.055	31.473
9	49.939	-49.939	-31.473	41.461
10	57.938	-57.938	-41.461	53.048
11	66.514	-66.514	-53.048	66.351
12	75.249	-75.249	-66.351	81.401
13	84.505	-84.505	-81.401	98.302
14	93.928	-93.928	-98.302	117.09
15	103.83	-103.83	-117.09	137.85
16	-22.231	22.231	-137.85	133.41
17	-11.748	11.748	-133.41	131.06
18	-1.1334	1.1334	-131.06	130.83
19	9.4737	-9.4737	-130.83	132.73
20	18.339	-18.339	-132.73	136.39
21	24.058	-24.058	-136.39	141.21
22	26.486	-26.486	-141.21	146.50
23	25.757	-25.757	-146.50	151.65
24	24.543	-24.543	-151.65	156.56
25	23.124	-23.124	-156.56	161.19
26	21.380	-21.380	-161.19	165.46
27	19.424	-19.424	-165.46	169.35
28	17.149	-17.149	-169.35	172.78
29	14.665	-14.665	-172.78	175.71
30	11.870	-11.870	-175.71	178.08
31	8.8594	-8.8594	-178.08	179.86
32	5.5518	-5.5518	-179.86	180.97
33	2.0460	-2.0460	-180.97	181.38
34	-1.7432	1.7432	-181.38	181.03
35	-5.7224	5.7224	-181.03	179.88
36	-9.9717	9.9717	-179.88	177.89
37	-14.403	14.403	-177.89	175.01
38	-18.684	18.684	-175.01	171.27
39	-22.355	22.355	-171.27	166.80
40	-25.571	25.571	-166.80	161.69
41	-28.239	28.239	-161.69	156.04
42	-30.524	30.524	-156.04	149.93
43	-32.335	32.335	-149.93	143.47
44	-33.826	33.826	-143.47	136.70
45	-34.913	34.913	-136.70	129.72

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 378 di 1221
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46	-35.752	35.752	-129.72	122.57
47	-36.234	36.234	-122.57	115.32
48	-36.489	36.489	-115.32	108.02
49	-36.438	36.438	-108.02	100.74
50	-36.200	36.200	-100.74	93.496
51	-35.652	35.652	-93.496	86.366
52	-34.926	34.926	-86.366	79.381
53	-33.951	33.951	-79.381	72.591
54	-32.864	32.864	-72.591	66.018
55	-31.581	31.581	-66.018	59.702
56	-30.217	30.217	-59.702	53.658
57	-28.701	28.701	-53.658	47.918
58	-27.140	27.140	-47.918	42.490
59	-25.461	25.461	-42.490	37.398
60	-23.761	23.761	-37.398	32.645
61	-21.959	21.959	-32.645	28.254
62	-20.141	20.141	-28.254	24.225
63	-18.230	18.230	-24.225	20.579
64	-16.319	16.319	-20.579	17.316
65	-14.331	14.331	-17.316	14.450
66	-12.355	12.355	-14.450	11.979
67	-11.194	11.194	-11.979	9.7398
68	-10.074	10.074	-9.7398	7.7251
69	-8.9408	8.9408	-7.7251	5.9369
70	-7.8688	7.8688	-5.9369	4.3631
71	-6.7969	6.7969	-4.3631	3.0038
72	-5.8028	5.8028	-3.0038	1.8433
73	-4.8259	4.8259	-1.8433	0.87809
74	-3.9399	3.9399	-0.87809	9.01121E-02
75	-3.0840	3.0840	-9.01121E-02	-0.52669
76	-2.3362	2.3362	0.52669	-0.99392
77	-1.6279	1.6279	0.99392	-1.3195
78	-1.0263	1.0263	1.3195	-1.5248
79	-0.47106	0.47106	1.5248	-1.6190
80	-2.63996E-02	2.63996E-02	1.6190	-1.6243
81	0.36751	-0.36751	1.6243	-1.5508
82	0.70857	-0.70857	1.5508	-1.4090
83	0.93636	-0.93636	1.4090	-1.2218
84	1.1023	-1.1023	1.2218	-1.0013
85	1.1548	-1.1548	1.0013	-0.77034
86	1.1511	-1.1511	0.77034	-0.54012
87	1.0344	-1.0344	0.54012	-0.33324
88	0.86072	-0.86072	0.33324	-0.16110
89	0.57458	-0.57458	0.16110	-4.61842E-02
90	0.23092	-0.23092	4.61842E-02	-5.11480E-13

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|                                     NewProject.BaseDesignSection_28.Nominal_63
|                                     Exe Time :29 July 2019      18:00:06
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	140.90	-1.08357E-03	-1.08357E-03	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|                                     NewProject.BaseDesignSection_28.Nominal_63
|                                     Exe Time :29 July 2019      18:00:06
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 379 di 1221
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CURRENT TIME IS 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

 EL FORCE d0 EDISPL pl. eps K -ve limit +ve limit

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2297E+06 RIMNOR=0.1842E+07
 RENORM= 8876. REMNOR=0.1012E-18 RATIO =0.1966 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 136.1 RMMAX = 181.4
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.2297E+06 RDR =0.1842E+07
 RATIOT=0.1966 RATIO= 0.000
 MAX UN= 19.76 IEQ= 95 NODE 48 DOF 1 Y-DISPL.F
 MIN UN=-.2532E-08 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2297E+06 RIMNOR=0.1842E+07
 RENORM= 1182. REMNOR=0.7491E-18 RATIO =0.7174E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 136.1 RMMAX = 181.4
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.2297E+06 RDR =0.1842E+07
 RATIOT=0.7174E-01 RATIO= 0.000
 MAX UN= 8.768 IEQ= 73 NODE 37 DOF 1 Y-DISPL.F
 MIN UN=-.1825E-08 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2297E+06 RIMNOR=0.1842E+07
 RENORM= 443.5 REMNOR=0.1428E-17 RATIO =0.4394E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 136.1 RMMAX = 181.4
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.2297E+06 RDR =0.1842E+07
 RATIOT=0.4394E-01 RATIO= 0.000
 MAX UN= 7.312 IEQ= 103 NODE 52 DOF 1 Y-DISPL.F
 MIN UN=-.4089E-08 IEQ= 71 NODE 36 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2297E+06 RIMNOR=0.1842E+07
 RENORM= 60.47 REMNOR=0.6845E-17 RATIO =0.1623E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 136.1 RMMAX = 181.4
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.2297E+06 RDR =0.1842E+07
 RATIOT=0.1623E-01 RATIO= 0.000
 MAX UN= 4.684 IEQ= 139 NODE 70 DOF 1 Y-DISPL.F
 MIN UN=-.8309 IEQ= 179 NODE 90 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2297E+06 RIMNOR=0.1842E+07
 RENORM=0.3284 REMNOR=0.1576E-17 RATIO =0.1196E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 136.1 RMMAX = 181.4
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.2297E+06 RDR =0.1842E+07
 RATIOT=0.1196E-02 RATIO= 0.000
 MAX UN=0.4104 IEQ= 139 NODE 70 DOF 1 Y-DISPL.F
 MIN UN=-.5703E-08 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2297E+06 RIMNOR=0.1842E+07
 RENORM=0.5295E-15 REMNOR=0.1155E-17 RATIO =0.4801E-10 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 136.1 RMMAX = 181.4
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.2297E+06 RDR =0.1842E+07
 RATIOT=0.4801E-10 RATIO= 0.000
 MAX UN=0.7420E-08 IEQ= 47 NODE 24 DOF 1 Y-DISPL.F
 MIN UN=-.6931E-08 IEQ= 45 NODE 23 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

 | PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
 | |
 | NewProject.BaseDesignSection_28.Nominal_63 |
 | |

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
380 di 1221

| Exe Time :29 July 2019 18:00:06 |

New Project
SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 5 (AT TIME 5.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.2041727E-02	-1.2795206E-03	
2	3.1785823E-02	-1.2795134E-03	
3	3.1529924E-02	-1.2794761E-03	
4	3.1274039E-02	-1.2793478E-03	
5	3.1018197E-02	-1.2790357E-03	
6	3.0762444E-02	-1.2784266E-03	
7	3.0506855E-02	-1.2773880E-03	
8	3.0251528E-02	-1.2757717E-03	
9	2.9996595E-02	-1.2734139E-03	
10	2.9742223E-02	-1.2701384E-03	
11	2.9488614E-02	-1.2657557E-03	
12	2.9236008E-02	-1.2600638E-03	
13	2.8984690E-02	-1.2528471E-03	
14	2.8734986E-02	-1.2438781E-03	
15	2.8487272E-02	-1.2329167E-03	
16	2.8241969E-02	-1.2197108E-03	
17	2.7999208E-02	-1.2091963E-03	
18	2.7757783E-02	-1.2062982E-03	
19	2.7516200E-02	-1.2107296E-03	
20	2.7273022E-02	-1.2221920E-03	
21	2.7026875E-02	-1.2403749E-03	
22	2.6776446E-02	-1.2649566E-03	
23	2.6520488E-02	-1.2956037E-03	
24	2.6257824E-02	-1.3319711E-03	
25	2.5987343E-02	-1.3737031E-03	
26	2.5708010E-02	-1.4204326E-03	
27	2.5418862E-02	-1.4717810E-03	
28	2.5119016E-02	-1.5273586E-03	
29	2.4807665E-02	-1.5867638E-03	
30	2.4484084E-02	-1.6495848E-03	
31	2.4147632E-02	-1.7153974E-03	
32	2.3797754E-02	-1.7837670E-03	
33	2.3433984E-02	-1.8542476E-03	
34	2.3055945E-02	-1.9263824E-03	
35	2.2663354E-02	-1.9997025E-03	
36	2.2256019E-02	-2.0737294E-03	
37	2.1833848E-02	-2.1479719E-03	
38	2.1396849E-02	-2.2219282E-03	
39	2.0945130E-02	-2.2950851E-03	
40	2.0478906E-02	-2.3669183E-03	
41	1.9998489E-02	-2.4368936E-03	
42	1.9504309E-02	-2.5044643E-03	
43	1.8996901E-02	-2.5690733E-03	
44	1.8476915E-02	-2.6301521E-03	
45	1.7945117E-02	-2.6871208E-03	
46	1.7402369E-02	-2.7393906E-03	
47	1.6849701E-02	-2.7863568E-03	
48	1.6288220E-02	-2.8274083E-03	
49	1.5719176E-02	-2.8619213E-03	
50	1.5143930E-02	-2.8892976E-03	
51	1.4563966E-02	-2.9090370E-03	
52	1.3980846E-02	-2.9207743E-03	
53	1.3396202E-02	-2.9242785E-03	
54	1.2811690E-02	-2.9194539E-03	
55	1.2228973E-02	-2.9063394E-03	
56	1.1649695E-02	-2.8851089E-03	
57	1.1075450E-02	-2.8560709E-03	
58	1.0507758E-02	-2.8196689E-03	
59	9.9480374E-03	-2.7764474E-03	
60	9.3975951E-03	-2.7269834E-03	
61	8.8576220E-03	-2.6718504E-03	
62	8.3291948E-03	-2.6116187E-03	
63	7.8132766E-03	-2.5468560E-03	
64	7.3107169E-03	-2.4781270E-03	
65	6.8222527E-03	-2.4059943E-03	
66	6.3485087E-03	-2.3310183E-03	
67	5.8899986E-03	-2.2537438E-03	
68	5.4471189E-03	-2.1748532E-03	
69	5.0201097E-03	-2.0951764E-03	
70	4.6090460E-03	-2.0155352E-03	
71	4.2138390E-03	-1.9367435E-03	
72	3.8342384E-03	-1.8596039E-03	
73	3.4698533E-03	-1.7848978E-03	
74	3.1200864E-03	-1.7133613E-03	



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 381 di 1221
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75	2.7842525E-03	-1.6456692E-03
76	2.4615254E-03	-1.5823766E-03
77	2.1509792E-03	-1.5239238E-03
78	1.8516112E-03	-1.4706410E-03
79	1.5623632E-03	-1.4227520E-03
80	1.2821427E-03	-1.3803784E-03
81	1.0098426E-03	-1.3435433E-03
82	7.4436104E-04	-1.3121736E-03
83	4.8461997E-04	-1.2861023E-03
84	2.2958413E-04	-1.2650710E-03
85	-2.1733804E-05	-1.2487323E-03
86	-2.7020540E-04	-1.2366538E-03
87	-5.1664457E-04	-1.2283140E-03
88	-7.6173985E-04	-1.2231071E-03
89	-1.0060502E-03	-1.2203424E-03
90	-1.2499888E-03	-1.2192573E-03
91	-1.4938107E-03	-1.2190356E-03

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|
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.Nominal_63
|
|          Exe Time :29 July 2019      18:00:06
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 5.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1 D	0.3040	-3.2042E-02	10.00	3.040	10.00	16.00	ACTIVE	0.000	0.000	0.000	1.000	1.000
3.040	0.000	0.000	Strato1_2_8_L_0									
2 D	0.6575	-3.1786E-02	10.81	3.288	10.81	16.18	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
3.288	0.000	0.000	Strato1_2_8_L_0									
3 D	1.910	-3.1530E-02	31.41	9.550	31.41	25.36	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
9.550	0.000	0.000	Strato1_2_8_L_0									
4 D	2.005	-3.1274E-02	32.97	10.02	32.97	25.88	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
10.02	0.000	0.000	Strato1_2_8_L_0									
5 D	2.751	-3.1018E-02	45.25	13.76	45.25	31.27	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
13.76	0.000	0.000	Strato1_2_8_L_0									
6 D	2.841	-3.0762E-02	46.73	14.21	46.73	31.75	ACTIVE	0.000	-1.000	0.000	1.000	1.000
14.21	0.000	0.000	Strato1_2_8_L_0									
7 D	3.396	-3.0507E-02	55.86	16.98	55.86	35.71	ACTIVE	0.000	-1.200	0.000	1.000	1.000
16.98	0.000	0.000	Strato1_2_8_L_0									
8 D	3.502	-3.0252E-02	57.60	17.51	57.60	36.30	ACTIVE	0.000	-1.400	0.000	1.000	1.000
17.51	0.000	0.000	Strato1_2_8_L_0									
9 D	3.925	-2.9997E-02	64.56	19.63	64.56	39.26	ACTIVE	0.000	-1.600	0.000	1.000	1.000
19.63	0.000	0.000	Strato1_2_8_L_0									
10 D	4.051	-2.9742E-02	66.63	20.26	66.63	39.99	ACTIVE	0.000	-1.800	0.000	1.000	1.000
20.26	0.000	0.000	Strato1_2_8_L_0									
11 D	4.467	-2.9489E-02	73.46	22.33	73.46	42.88	ACTIVE	0.000	-2.000	0.000	1.000	1.000
22.33	0.000	0.000	Strato1_2_8_L_0									
12 D	4.604	-2.9236E-02	75.72	23.02	75.72	43.68	ACTIVE	0.000	-2.200	0.000	1.000	1.000
23.02	0.000	0.000	Strato1_2_8_L_0									
13 D	4.985	-2.8985E-02	81.98	24.92	81.98	46.28	ACTIVE	0.000	-2.400	0.000	1.000	1.000
24.92	0.000	0.000	Strato1_2_8_L_0									
14 D	5.131	-2.8735E-02	84.40	25.66	84.40	47.12	ACTIVE	0.000	-2.600	0.000	1.000	1.000
25.66	0.000	0.000	Strato1_2_8_L_0									
15 D	5.488	-2.8487E-02	90.27	27.44	90.27	49.51	ACTIVE	0.000	-2.800	0.000	1.000	1.000
27.44	0.000	0.000	Strato1_2_8_L_0									
16 D	5.621	-2.8242E-02	92.44	28.10	92.44	50.19	ACTIVE	0.000	-3.000	0.000	1.000	1.000
28.10	0.000	0.000	Strato1_2_8_L_0									
17 D	5.961	-2.7999E-02	98.05	29.81	98.05	52.41	ACTIVE	0.000	-3.200	0.000	1.000	1.000
29.81	0.000	0.000	Strato1_2_8_L_0									
18 D	6.124	-2.7758E-02	100.7	30.62	100.7	53.39	ACTIVE	0.000	-3.400	0.000	1.000	1.000
30.62	0.000	0.000	Strato1_2_8_L_0									
19 D	6.451	-2.7516E-02	106.1	32.26	106.1	56.24	ACTIVE	0.000	-3.600	0.000	1.000	1.000
32.26	0.000	0.000	Strato1_2_8_L_0									
20 D	6.620	-2.7273E-02	108.9	33.10	108.9	57.70	ACTIVE	0.000	-3.800	0.000	1.000	1.000
33.10	0.000	0.000	Strato1_2_8_L_0									
21 D	6.936	-2.7027E-02	114.1	34.68	114.1	60.46	ACTIVE	0.000	-4.000	0.000	1.000	1.000

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



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Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 382 di 1221
34.68	0.000	0.000	Stratol_2_8_L_0				
22 D	7.109	-2.6776E-02	116.9	35.55	116.9	61.97	ACTIVE 0.000 -4.200 0.000 1.000 1.000
35.55	0.000	0.000	Stratol_2_8_L_0				
23 D	7.417	-2.6520E-02	122.0	37.09	122.0	64.66	ACTIVE 0.000 -4.400 0.000 1.000 1.000
37.09	0.000	0.000	Stratol_2_8_L_0				
24 D	7.579	-2.6258E-02	124.7	37.90	124.7	66.07	ACTIVE 0.000 -4.600 0.000 1.000 1.000
37.90	0.000	0.000	Stratol_2_8_L_0				
25 D	7.881	-2.5987E-02	129.6	39.40	129.6	68.70	ACTIVE 0.000 -4.800 0.000 1.000 1.000
39.40	0.000	0.000	Stratol_2_8_L_0				
26 D	8.062	-2.5708E-02	132.6	40.31	132.6	70.28	ACTIVE 0.000 -5.000 0.000 1.000 1.000
40.31	0.000	0.000	Stratol_2_8_L_0				
27 D	8.358	-2.5419E-02	137.5	41.79	137.5	72.85	ACTIVE 0.000 -5.200 0.000 1.000 1.000
41.79	0.000	0.000	Stratol_2_8_L_0				
28 D	8.542	-2.5119E-02	140.5	42.71	140.5	74.46	ACTIVE 0.000 -5.400 0.000 1.000 1.000
42.71	0.000	0.000	Stratol_2_8_L_0				
29 D	8.832	-2.4808E-02	145.3	44.16	145.3	76.99	ACTIVE 0.000 -5.600 0.000 1.000 1.000
44.16	0.000	0.000	Stratol_2_8_L_0				
30 D	9.019	-2.4484E-02	148.3	45.10	148.3	78.62	ACTIVE 0.000 -5.800 0.000 1.000 1.000
45.10	0.000	0.000	Stratol_2_8_L_0				
31 D	9.294	-2.4148E-02	152.9	46.47	152.9	81.02	ACTIVE 0.000 -6.000 0.000 1.000 1.000
46.47	0.000	0.000	Stratol_2_8_L_0				
32 D	9.484	-2.3798E-02	156.0	47.42	156.0	82.67	ACTIVE 0.000 -6.200 0.000 1.000 1.000
47.42	0.000	0.000	Stratol_2_8_L_0				
33 D	9.767	-2.3434E-02	160.6	48.83	160.6	85.14	ACTIVE 0.000 -6.400 0.000 1.000 1.000
48.83	0.000	0.000	Stratol_2_8_L_0				
34 D	9.959	-2.3056E-02	163.8	49.79	163.8	86.81	ACTIVE 0.000 -6.600 0.000 1.000 1.000
49.79	0.000	0.000	Stratol_2_8_L_0				
35 D	10.24	-2.2663E-02	168.4	51.19	168.4	89.25	ACTIVE 0.000 -6.800 0.000 1.000 1.000
51.19	0.000	0.000	Stratol_2_8_L_0				
36 D	10.43	-2.2256E-02	171.6	52.16	171.6	90.94	ACTIVE 0.000 -7.000 0.000 1.000 1.000
52.16	0.000	0.000	Stratol_2_8_L_0				
37 D	10.71	-2.1834E-02	176.1	53.54	176.1	93.35	ACTIVE 0.000 -7.200 0.000 1.000 1.000
53.54	0.000	0.000	Stratol_2_8_L_0				
38 D	10.90	-2.1397E-02	179.3	54.52	179.3	95.05	ACTIVE 0.000 -7.400 0.000 1.000 1.000
54.52	0.000	0.000	Stratol_2_8_L_0				
39 D	11.17	-2.0945E-02	183.7	55.84	183.7	97.36	ACTIVE 0.000 -7.600 0.000 1.000 1.000
55.84	0.000	0.000	Stratol_2_8_L_0				
40 D	11.37	-2.0479E-02	186.9	56.83	186.9	99.08	ACTIVE 0.000 -7.800 0.000 1.000 1.000
56.83	0.000	0.000	Stratol_2_8_L_0				
41 D	11.64	-1.9998E-02	191.4	58.19	191.4	101.5	ACTIVE 0.000 -8.000 0.000 1.000 1.000
58.19	0.000	0.000	Stratol_2_8_L_0				
42 D	11.84	-1.9504E-02	194.7	59.18	194.7	103.2	ACTIVE 0.000 -8.200 0.000 1.000 1.000
59.18	0.000	0.000	Stratol_2_8_L_0				
43 D	12.11	-1.8997E-02	199.1	60.53	199.1	105.5	ACTIVE 0.000 -8.400 0.000 1.000 1.000
60.53	0.000	0.000	Stratol_2_8_L_0				
44 D	12.31	-1.8477E-02	202.4	61.53	202.4	107.3	ACTIVE 0.000 -8.600 0.000 1.000 1.000
61.53	0.000	0.000	Stratol_2_8_L_0				
45 D	12.57	-1.7945E-02	206.8	62.87	206.8	109.6	ACTIVE 0.000 -8.800 0.000 1.000 1.000
62.87	0.000	0.000	Stratol_2_8_L_0				
46 D	12.77	-1.7402E-02	210.0	63.84	210.0	111.3	ACTIVE 0.000 -9.000 0.000 1.000 1.000
63.84	0.000	0.000	Stratol_2_8_L_0				
47 D	13.03	-1.6850E-02	214.4	65.17	214.4	113.6	ACTIVE 0.000 -9.200 0.000 1.000 1.000
65.17	0.000	0.000	Stratol_2_8_L_0				
48 D	13.24	-1.6288E-02	217.7	66.19	217.7	115.4	ACTIVE 0.000 -9.400 0.000 1.000 1.000
66.19	0.000	0.000	Stratol_2_8_L_0				
49 D	13.50	-1.5719E-02	222.1	67.51	222.1	117.7	ACTIVE 0.000 -9.600 0.000 1.000 1.000
67.51	0.000	0.000	Stratol_2_8_L_0				
50 D	13.71	-1.5144E-02	225.4	68.53	225.4	119.5	ACTIVE 0.000 -9.800 0.000 1.000 1.000
68.53	0.000	0.000	Stratol_2_8_L_0				
51 D	13.97	-1.4564E-02	229.8	69.85	229.8	121.8	ACTIVE 0.000 -10.00 0.000 1.000 1.000
69.85	0.000	0.000	Stratol_2_8_L_0				
52 D	14.17	-1.3981E-02	233.1	70.87	233.1	123.6	ACTIVE 0.000 -10.20 0.000 1.000 1.000
70.87	0.000	0.000	Stratol_2_8_L_0				
53 D	14.44	-1.3396E-02	237.4	72.18	237.4	125.8	ACTIVE 0.000 -10.40 0.000 1.000 1.000
72.18	0.000	0.000	Stratol_2_8_L_0				
54 D	14.63	-1.2812E-02	240.7	73.17	240.7	127.6	ACTIVE 0.000 -10.60 0.000 1.000 1.000
73.17	0.000	0.000	Stratol_2_8_L_0				
55 D	14.90	-1.2229E-02	245.0	74.48	245.0	129.8	ACTIVE 0.000 -10.80 0.000 1.000 1.000
74.48	0.000	0.000	Stratol_2_8_L_0				
56 D	15.10	-1.1650E-02	248.4	75.51	248.4	131.6	ACTIVE 0.000 -11.00 0.000 1.000 1.000
75.51	0.000	0.000	Stratol_2_8_L_0				
57 D	15.36	-1.1075E-02	252.7	76.81	252.7	133.9	ACTIVE 0.000 -11.20 0.000 1.000 1.000
76.81	0.000	0.000	Stratol_2_8_L_0				
58 D	15.57	-1.0508E-02	256.1	77.85	256.1	135.7	ACTIVE 0.000 -11.40 0.000 1.000 1.000
77.85	0.000	0.000	Stratol_2_8_L_0				
59 D	15.83	-9.9480E-03	260.3	79.14	260.3	138.0	ACTIVE 0.000 -11.60 0.000 1.000 1.000
79.14	0.000	0.000	Stratol_2_8_L_0				
60 D	16.04	-9.3976E-03	263.7	80.18	263.7	139.8	ACTIVE 0.000 -11.80 0.000 1.000 1.000
80.18	0.000	0.000	Stratol_2_8_L_0				
61 D	16.29	-8.8576E-03	267.9	81.44	267.9	142.0	ACTIVE 0.000 -12.00 0.000 1.000 1.000
81.44	0.000	0.000	Stratol_2_8_L_0				
62 D	16.50	-8.3292E-03	271.3	82.48	271.3	143.8	ACTIVE 0.000 -12.20 0.000 1.000 1.000
82.48	0.000	0.000	Stratol_2_8_L_0				
63 D	16.75	-7.8133E-03	275.5	83.77	275.5	146.0	ACTIVE 0.000 -12.40 0.000 1.000 1.000
83.77	0.000	0.000	Stratol_2_8_L_0				

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 385 di 1221
0.000	0.000	0.000	not available		
45	0.000	--	--	--	--
0.000	0.000	0.000	not available		
46	0.000	--	--	--	--
0.000	0.000	0.000	not available		
47	0.000	--	--	--	--
0.000	0.000	0.000	not available		
48	0.000	--	--	--	--
0.000	0.000	0.000	not available		
49 D	1.536	1.5719E-02	1.900 7.678	182.4	100.6
7.678	0.000	0.000	Strato1_2_8_L_0		
50 D	4.607	1.5144E-02	5.700 23.03	186.2	102.4
23.03	0.000	0.000	Strato1_2_8_L_0		
51 D	7.678	1.4564E-02	9.500 38.39	190.0	104.4
38.39	0.000	0.000	Strato1_2_8_L_0		
52 D	10.75	1.3981E-02	13.30 53.75	193.8	106.3
53.75	0.000	0.000	Strato1_2_8_L_0		
53 D	13.82	1.3396E-02	17.10 69.10	197.6	108.3
69.10	0.000	0.000	Strato1_2_8_L_0		
54 D	16.89	1.2812E-02	20.90 84.46	201.4	110.2
84.46	0.000	0.000	Strato1_2_8_L_0		
55 D	19.96	1.2229E-02	24.70 99.81	205.2	112.2
99.81	0.000	0.000	Strato1_2_8_L_0		
56 D	23.03	1.1650E-02	28.50 115.2	209.0	115.2
115.2	0.000	0.000	Strato1_2_8_L_0		
57 D	26.10	1.1075E-02	32.30 130.5	212.8	130.5
130.5	0.000	0.000	Strato1_2_8_L_0		
58 D	27.77	1.0508E-02	36.10 138.8	216.6	138.8
138.8	0.000	0.000	Strato1_2_8_L_0		
59 D	27.93	9.9480E-03	39.90 139.6	220.4	139.6
139.6	0.000	0.000	Strato1_2_8_L_0		
60 D	28.09	9.3976E-03	43.70 140.5	224.2	140.5
140.5	0.000	0.000	Strato1_2_8_L_0		
61 D	28.26	8.8576E-03	47.50 141.3	228.0	141.3
141.3	0.000	0.000	Strato1_2_8_L_0		
62 D	28.43	8.3292E-03	51.30 142.2	231.8	142.2
142.2	0.000	0.000	Strato1_2_8_L_0		
63 D	28.61	7.8133E-03	55.10 143.1	235.6	143.1
143.1	0.000	0.000	Strato1_2_8_L_0		
64 D	28.80	7.3107E-03	58.90 144.0	239.4	144.0
144.0	0.000	0.000	Strato1_2_8_L_0		
65 D	28.99	6.8223E-03	62.70 144.9	243.2	144.9
144.9	0.000	0.000	Strato1_2_8_L_0		
66 D	29.19	6.3485E-03	66.50 145.9	247.0	145.9
145.9	0.000	0.000	Strato1_2_8_L_0		
67 D	27.36	5.8900E-03	70.40 136.8	250.9	136.8
136.8	0.000	0.000	Strato2_3095_82743_L_0		
68 D	27.37	5.4471E-03	74.40 136.8	254.9	136.8
136.8	0.000	0.000	Strato2_3095_82743_L_0		
69 D	27.39	5.0201E-03	78.40 136.9	258.9	136.9
136.9	0.000	0.000	Strato2_3095_82743_L_0		
70 D	27.42	4.6090E-03	82.40 137.1	262.9	137.1
137.1	0.000	0.000	Strato2_3095_82743_L_0		
71 D	27.28	4.2138E-03	86.40 136.4	266.9	137.8
136.4	0.000	0.000	Strato2_3095_82743_L_0		
72 D	26.74	3.8342E-03	90.40 133.7	270.9	139.6
133.7	0.000	0.000	Strato2_3095_82743_L_0		
73 D	26.24	3.4699E-03	94.40 131.2	274.9	141.5
131.2	0.000	0.000	Strato2_3095_82743_L_0		
74 D	25.78	3.1201E-03	98.40 128.9	278.9	143.3
128.9	0.000	0.000	Strato2_3095_82743_L_0		
75 D	25.34	2.7843E-03	102.4 126.7	282.9	145.2
126.7	0.000	0.000	Strato2_3095_82743_L_0		
76 D	24.95	2.4615E-03	106.4 124.7	286.9	147.0
124.7	0.000	0.000	Strato2_3095_82743_L_0		
77 D	24.58	2.1510E-03	110.4 122.9	290.9	148.9
122.9	0.000	0.000	Strato2_3095_82743_L_0		
78 D	24.24	1.8516E-03	114.4 121.2	294.9	150.8
121.2	0.000	0.000	Strato2_3095_82743_L_0		
79 D	23.92	1.5624E-03	118.4 119.6	298.9	152.7
119.6	0.000	0.000	Strato2_3095_82743_L_0		
80 D	23.63	1.2821E-03	122.4 118.1	302.9	154.6
118.1	0.000	0.000	Strato2_3095_82743_L_0		
81 D	23.35	1.0098E-03	126.4 116.7	306.9	156.5
116.7	0.000	0.000	Strato2_3095_82743_L_0		
82 D	23.09	7.4436E-04	130.4 115.4	310.9	158.5
115.4	0.000	0.000	Strato2_3095_82743_L_0		
83 D	22.84	4.8462E-04	134.4 114.2	314.9	160.4
114.2	0.000	0.000	Strato2_3095_82743_L_0		
84 D	22.61	2.2958E-04	138.4 113.0	318.9	162.3
113.0	0.000	0.000	Strato2_3095_82743_L_0		
85 D	22.38	-2.1734E-05	142.4 111.9	322.9	164.2
111.9	0.000	0.000	Strato2_3095_82743_L_0		
86 D	22.16	-2.7021E-04	146.4 110.8	326.9	166.2
110.8	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 386 di 1221
87 D 21.94 -5.1664E-04 150.4 109.7 330.9 168.1	UL-RL	1.3780E+04	-17.20	0.000	1.000 1.000
109.7 0.000 0.000 Strato2_3095_82743_L_0					
88 D 21.73 -7.6174E-04 154.4 108.6 334.9 170.1	UL-RL	1.3780E+04	-17.40	0.000	1.000 1.000
108.6 0.000 0.000 Strato2_3095_82743_L_0					
89 D 21.51 -1.0061E-03 158.4 107.6 338.9 172.0	UL-RL	1.3780E+04	-17.60	0.000	1.000 1.000
107.6 0.000 0.000 Strato2_3095_82743_L_0					
90 D 21.30 -1.2500E-03 162.4 106.5 342.9 173.9	UL-RL	1.3780E+04	-17.80	0.000	1.000 1.000
106.5 0.000 0.000 Strato2_3095_82743_L_0					
91 D 10.54 -1.4938E-03 166.4 105.4 346.9 175.9	UL-RL	1.3780E+04	-18.00	0.000	1.000 1.000
105.4 0.000 0.000 Strato2_3095_82743_L_0					

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019  18:00:06  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.30400	-0.30400	2.84981E-11	6.08000E-02
2	0.96154	-0.96154	-6.08000E-02	0.25311
3	2.8715	-2.8715	-0.25311	0.82740
4	4.8761	-4.8761	-0.82740	1.8026
5	7.6275	-7.6275	-1.8026	3.3281
6	10.469	-10.469	-3.3281	5.4219
7	13.865	-13.865	-5.4219	8.1948
8	17.367	-17.367	-8.1948	11.668
9	21.292	-21.292	-11.668	15.927
10	25.343	-25.343	-15.927	20.995
11	29.810	-29.810	-20.995	26.957
12	34.413	-34.413	-26.957	33.840
13	39.398	-39.398	-33.840	41.719
14	44.529	-44.529	-41.719	50.625
15	50.017	-50.017	-50.625	60.629
16	-163.39	163.39	-60.629	27.950
17	-157.43	157.43	-27.950	-3.5356
18	-151.31	151.31	3.5356	-33.797
19	-144.85	144.85	33.797	-62.768
20	-138.23	138.23	62.768	-90.415
21	-131.30	131.30	90.415	-116.67
22	-124.19	124.19	116.67	-141.51
23	-116.77	116.77	141.51	-164.87
24	-109.19	109.19	164.87	-186.71
25	-101.31	101.31	186.71	-206.97
26	-93.250	93.250	206.97	-225.62
27	-84.892	84.892	225.62	-242.60
28	-76.350	76.350	242.60	-257.87
29	-67.518	67.518	257.87	-271.37
30	-58.499	58.499	271.37	-283.07
31	-49.205	49.205	283.07	-292.91
32	-39.721	39.721	292.91	-300.85
33	-29.954	29.954	300.85	-306.85
34	-19.995	19.995	306.85	-310.84
35	-9.7573	9.7573	310.84	-312.80
36	0.67459	-0.67459	312.80	-312.66
37	11.383	-11.383	312.66	-310.38
38	22.287	-22.287	310.38	-305.93
39	33.456	-33.456	305.93	-299.24
40	44.822	-44.822	299.24	-290.27
41	56.460	-56.460	290.27	-278.98
42	68.297	-68.297	278.98	-265.32
43	80.404	-80.404	265.32	-249.24
44	92.711	-92.711	249.24	-230.70
45	105.29	-105.29	230.70	-209.64
46	118.05	-118.05	209.64	-186.03
47	131.09	-131.09	186.03	-159.81
48	144.33	-144.33	159.81	-130.95
49	156.29	-156.29	130.95	-99.687
50	165.39	-165.39	99.687	-66.608
51	171.68	-171.68	66.608	-32.272
52	175.11	-175.11	32.272	2.7501

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 387 di 1221
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53	175.72	-175.72	-2.7501	37.895
54	173.47	-173.47	-37.895	72.588
55	168.40	-168.40	-72.588	106.27
56	160.47	-160.47	-106.27	138.36
57	149.73	-149.73	-138.36	168.31
58	137.53	-137.53	-168.31	195.81
59	125.43	-125.43	-195.81	220.90
60	113.37	-113.37	-220.90	243.57
61	101.40	-101.40	-243.57	263.85
62	89.462	-89.462	-263.85	281.74
63	77.604	-77.604	-281.74	297.26
64	65.769	-65.769	-297.26	310.42
65	53.999	-53.999	-310.42	321.22
66	42.819	-42.819	-321.22	329.78
67	25.256	-25.256	-329.78	334.83
68	7.8594	-7.8594	-334.83	336.40
69	-9.3550	9.3550	-336.40	334.53
70	-26.431	26.431	-334.53	329.25
71	-43.163	43.163	-329.25	320.62
72	-59.182	59.182	-320.62	308.78
73	-74.494	74.494	-308.78	293.88
74	-87.440	87.440	-293.88	276.39
75	-97.879	97.879	-276.39	256.82
76	-105.99	105.99	-256.82	235.62
77	-111.78	111.78	-235.62	213.26
78	-115.42	115.42	-213.26	190.18
79	-116.91	116.91	-190.18	166.80
80	-116.38	116.38	-166.80	143.52
81	-113.84	113.84	-143.52	120.75
82	-109.33	109.33	-120.75	98.886
83	-102.97	102.97	-98.886	78.292
84	-94.725	94.725	-78.292	59.346
85	-84.682	84.682	-59.346	42.410
86	-72.804	72.804	-42.410	27.849
87	-59.162	59.162	-27.849	16.017
88	-43.709	43.709	-16.017	7.2746
89	-27.037	27.037	-7.2746	1.8671
90	-9.3357	9.3357	-1.8671	2.57228E-12

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019  18:00:06
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	226.76	-1.08357E-03	2.06522E-02	0.0000	3950.0	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019  18:00:06
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
388 di 1221

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1763E+07 RIMNOR=0.7345E+07
            RENORM=0.5831E+05 REMNOR=0.1155E-17 RATIO =0.1819      TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 241.5      RMMAX = 336.4
            RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
            RDT =0.1763E+07 RDR =0.7345E+07
            RATIO=0.1819      RATOR= 0.000
            MAX UN=0.7420E-08 IEQ= 47 NODE      24 DOF 1 Y-DISPL.F
            MIN UN=-241.5      IEQ= 91 NODE      46 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1763E+07 RIMNOR=0.7345E+07
            RENORM= 3.325      REMNOR=0.1875E-17 RATIO =0.1373E-02 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 241.5      RMMAX = 336.4
            RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
            RDT =0.1763E+07 RDR =0.7345E+07
            RATIO=0.1373E-02 RATOR= 0.000
            MAX UN=0.2814      IEQ= 15 NODE      8 DOF 1 Y-DISPL.F
            MIN UN=-1.798      IEQ= 97 NODE      49 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+07 RIMNOR=0.7345E+07
            RENORM=0.4412E-15 REMNOR=0.1960E-17 RATIO =0.1582E-10 TOLER =0.1000E-03      CONVERGED !
            RFMAX = 241.5      RMMAX = 336.4
            RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
            RDT =0.1763E+07 RDR =0.7345E+07
            RATIO=0.1582E-10 RATOR= 0.000
            MAX UN=0.8154E-08 IEQ= 5 NODE      3 DOF 1 Y-DISPL.F
            MIN UN=-.7246E-08 IEQ= 3 NODE      2 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :29 July 2019  18:00:06                                                                                               |
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New Project
SOLUTION REACHED USING 3 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 6 (AT TIME 6.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.2936415E-02	-1.7828932E-03	
2	3.2579837E-02	-1.7828860E-03	
3	3.2223263E-02	-1.7828487E-03	
4	3.1866704E-02	-1.7827205E-03	
5	3.1510187E-02	-1.7824083E-03	
6	3.1153760E-02	-1.7817993E-03	
7	3.0797496E-02	-1.7807606E-03	
8	3.0441494E-02	-1.7791443E-03	
9	3.0085887E-02	-1.7767866E-03	
10	2.9730841E-02	-1.7735110E-03	
11	2.9376557E-02	-1.7691279E-03	
12	2.9023277E-02	-1.7634300E-03	
13	2.8671288E-02	-1.7561890E-03	
14	2.8320921E-02	-1.7471559E-03	
15	2.7972563E-02	-1.7360613E-03	
16	2.7626653E-02	-1.7226156E-03	
17	2.7283351E-02	-1.7116556E-03	
18	2.6941504E-02	-1.7079987E-03	
19	2.6599688E-02	-1.7112961E-03	
20	2.6256547E-02	-1.7211796E-03	
21	2.5910803E-02	-1.7372608E-03	
22	2.5561256E-02	-1.7591320E-03	
23	2.5206792E-02	-1.7863658E-03	
24	2.4846384E-02	-1.8185153E-03	
25	2.4479091E-02	-1.8551149E-03	
26	2.4104074E-02	-1.8956798E-03	
27	2.3720589E-02	-1.9397061E-03	
28	2.3327996E-02	-1.9866708E-03	
29	2.2925763E-02	-2.0360320E-03	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 389 di 1221
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- 30 2.2513462E-02 -2.0872294E-03
- 31 2.2090787E-02 -2.1396840E-03
- 32 2.1657545E-02 -2.1927985E-03
- 33 2.1213665E-02 -2.2459580E-03
- 34 2.0759201E-02 -2.2985299E-03
- 35 2.0294338E-02 -2.3498633E-03
- 36 1.9819385E-02 -2.3992915E-03
- 37 1.9334794E-02 -2.4461297E-03
- 38 1.8841152E-02 -2.4896771E-03
- 39 1.8339190E-02 -2.5292170E-03
- 40 1.7829784E-02 -2.5640170E-03
- 41 1.7313951E-02 -2.5933308E-03
- 42 1.6792868E-02 -2.6163972E-03
- 43 1.6267861E-02 -2.6324412E-03
- 44 1.5740412E-02 -2.6406753E-03
- 45 1.5212167E-02 -2.6402995E-03
- 46 1.4684910E-02 -2.6305024E-03
- 47 1.4160254E-02 -2.6161960E-03
- 48 1.3638405E-02 -2.6022824E-03
- 49 1.3119373E-02 -2.5879229E-03
- 50 1.2603325E-02 -2.5722737E-03
- 51 1.2090604E-02 -2.5545185E-03
- 52 1.1581703E-02 -2.5339415E-03
- 53 1.1077251E-02 -2.5099713E-03
- 54 1.0577969E-02 -2.4821823E-03
- 55 1.0084651E-02 -2.4502949E-03
- 56 9.5981332E-03 -2.4141770E-03
- 57 9.1192616E-03 -2.3738438E-03
- 58 8.6488658E-03 -2.3294585E-03
- 59 8.1877298E-03 -2.2812989E-03
- 60 7.7365763E-03 -2.2296890E-03
- 61 7.2960620E-03 -2.1749630E-03
- 62 6.8667758E-03 -2.1174659E-03
- 63 6.4492366E-03 -2.0575540E-03
- 64 6.0438907E-03 -1.9955944E-03
- 65 5.6511101E-03 -1.9319658E-03
- 66 5.2711897E-03 -1.8670581E-03
- 67 4.9043463E-03 -1.8012589E-03
- 68 4.5507169E-03 -1.7349984E-03
- 69 4.2103449E-03 -1.6687688E-03
- 70 3.8831729E-03 -1.6030857E-03
- 71 3.5690383E-03 -1.5384875E-03
- 72 3.2676685E-03 -1.4755309E-03
- 73 2.9786933E-03 -1.4147791E-03
- 74 2.7015879E-03 -1.3567800E-03
- 75 2.4357637E-03 -1.3020443E-03
- 76 2.1805248E-03 -1.2509895E-03
- 77 1.9351007E-03 -1.2039430E-03
- 78 1.6986643E-03 -1.1611458E-03
- 79 1.4703486E-03 -1.1227555E-03
- 80 1.2492631E-03 -1.0888499E-03
- 81 1.0345096E-03 -1.0594294E-03
- 82 8.2519731E-04 -1.0344197E-03
- 83 6.2045759E-04 -1.0136725E-03
- 84 4.1945877E-04 -9.9696851E-04
- 85 2.2141003E-04 -9.8401882E-04
- 86 2.5614711E-05 -9.7446827E-04
- 87 -1.6857560E-04 -9.6789245E-04
- 88 -3.6170790E-04 -9.6380104E-04
- 89 -5.5422454E-04 -9.6163756E-04
- 90 -7.4645080E-04 -9.6079222E-04
- 91 -9.3858633E-04 -9.6062040E-04

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63          |
|          Exe Time :29 July 2019          18:00:06          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

O_L :

ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91

CURRENT TIME IS 6.0000

HARDENING 2D SOIL ELEMENT

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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 390 di 1221
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EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.3040	-3.2936E-02	10.00	3.040	10.00	16.00	ACTIVE	0.000	0.000	0.000	1.000	1.000
3.040	0.000	0.000	Strato1_2_8_L_0									
2 D	0.6575	-3.2580E-02	10.81	3.288	10.81	16.18	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
3.288	0.000	0.000	Strato1_2_8_L_0									
3 D	1.910	-3.2223E-02	31.41	9.550	31.41	25.36	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
9.550	0.000	0.000	Strato1_2_8_L_0									
4 D	2.005	-3.1867E-02	32.97	10.02	32.97	25.88	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
10.02	0.000	0.000	Strato1_2_8_L_0									
5 D	2.751	-3.1510E-02	45.25	13.76	45.25	31.27	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
13.76	0.000	0.000	Strato1_2_8_L_0									
6 D	2.841	-3.1154E-02	46.73	14.21	46.73	31.75	ACTIVE	0.000	-1.000	0.000	1.000	1.000
14.21	0.000	0.000	Strato1_2_8_L_0									
7 D	3.396	-3.0797E-02	55.86	16.98	55.86	35.71	ACTIVE	0.000	-1.200	0.000	1.000	1.000
16.98	0.000	0.000	Strato1_2_8_L_0									
8 D	3.502	-3.0441E-02	57.60	17.51	57.60	36.30	ACTIVE	0.000	-1.400	0.000	1.000	1.000
17.51	0.000	0.000	Strato1_2_8_L_0									
9 D	3.925	-3.0086E-02	64.56	19.63	64.56	39.26	ACTIVE	0.000	-1.600	0.000	1.000	1.000
19.63	0.000	0.000	Strato1_2_8_L_0									
10 D	4.070	-2.9731E-02	66.63	20.35	66.63	39.99	UL-RL	8488.	-1.800	0.000	1.000	1.000
20.35	0.000	0.000	Strato1_2_8_L_0									
11 D	4.657	-2.9377E-02	73.46	23.28	73.46	42.88	UL-RL	8488.	-2.000	0.000	1.000	1.000
23.28	0.000	0.000	Strato1_2_8_L_0									
12 D	4.965	-2.9023E-02	75.72	24.82	75.72	43.68	UL-RL	8488.	-2.200	0.000	1.000	1.000
24.82	0.000	0.000	Strato1_2_8_L_0									
13 D	5.517	-2.8671E-02	81.98	27.58	81.98	46.28	UL-RL	8488.	-2.400	0.000	1.000	1.000
27.58	0.000	0.000	Strato1_2_8_L_0									
14 D	5.834	-2.8321E-02	84.40	29.17	84.40	47.12	UL-RL	8488.	-2.600	0.000	1.000	1.000
29.17	0.000	0.000	Strato1_2_8_L_0									
15 D	6.362	-2.7973E-02	90.27	31.81	90.27	49.51	UL-RL	8488.	-2.800	0.000	1.000	1.000
31.81	0.000	0.000	Strato1_2_8_L_0									
16 D	6.665	-2.7627E-02	92.44	33.33	92.44	50.19	UL-RL	8488.	-3.000	0.000	1.000	1.000
33.33	0.000	0.000	Strato1_2_8_L_0									
17 D	7.177	-2.7283E-02	98.05	35.88	98.05	52.41	UL-RL	8488.	-3.200	0.000	1.000	1.000
35.88	0.000	0.000	Strato1_2_8_L_0									
18 D	7.510	-2.6942E-02	100.7	37.55	100.7	53.39	UL-RL	8488.	-3.400	0.000	1.000	1.000
37.55	0.000	0.000	Strato1_2_8_L_0									
19 D	8.007	-2.6600E-02	106.1	40.04	106.1	56.24	UL-RL	8488.	-3.600	0.000	1.000	1.000
40.04	0.000	0.000	Strato1_2_8_L_0									
20 D	8.345	-2.6257E-02	108.9	41.73	108.9	57.70	UL-RL	8488.	-3.800	0.000	1.000	1.000
41.73	0.000	0.000	Strato1_2_8_L_0									
21 D	8.831	-2.5911E-02	114.1	44.15	114.1	60.46	UL-RL	8488.	-4.000	0.000	1.000	1.000
44.15	0.000	0.000	Strato1_2_8_L_0									
22 D	9.172	-2.5561E-02	116.9	45.86	116.9	61.97	UL-RL	8488.	-4.200	0.000	1.000	1.000
45.86	0.000	0.000	Strato1_2_8_L_0									
23 D	9.647	-2.5207E-02	122.0	48.24	122.0	64.66	UL-RL	8488.	-4.400	0.000	1.000	1.000
48.24	0.000	0.000	Strato1_2_8_L_0									
24 D	9.976	-2.4846E-02	124.7	49.88	124.7	66.07	UL-RL	8488.	-4.600	0.000	1.000	1.000
49.88	0.000	0.000	Strato1_2_8_L_0									
25 D	10.44	-2.4479E-02	129.6	52.21	129.6	68.70	UL-RL	8488.	-4.800	0.000	1.000	1.000
52.21	0.000	0.000	Strato1_2_8_L_0									
26 D	10.79	-2.4104E-02	132.6	53.93	132.6	70.28	UL-RL	8488.	-5.000	0.000	1.000	1.000
53.93	0.000	0.000	Strato1_2_8_L_0									
27 D	11.24	-2.3721E-02	137.5	56.20	137.5	72.85	UL-RL	8488.	-5.200	0.000	1.000	1.000
56.20	0.000	0.000	Strato1_2_8_L_0									
28 D	11.58	-2.3328E-02	140.5	57.91	140.5	74.46	UL-RL	8488.	-5.400	0.000	1.000	1.000
57.91	0.000	0.000	Strato1_2_8_L_0									
29 D	12.03	-2.2926E-02	145.3	60.14	145.3	76.99	UL-RL	8488.	-5.600	0.000	1.000	1.000
60.14	0.000	0.000	Strato1_2_8_L_0									
30 D	12.36	-2.2513E-02	148.3	61.82	148.3	78.62	UL-RL	8488.	-5.800	0.000	1.000	1.000
61.82	0.000	0.000	Strato1_2_8_L_0									
31 D	12.79	-2.2091E-02	152.9	63.93	152.9	81.02	UL-RL	8488.	-6.000	0.000	1.000	1.000
63.93	0.000	0.000	Strato1_2_8_L_0									
32 D	13.12	-2.1658E-02	156.0	65.59	156.0	82.67	UL-RL	8488.	-6.200	0.000	1.000	1.000
65.59	0.000	0.000	Strato1_2_8_L_0									
33 D	13.54	-2.1214E-02	160.6	67.68	160.6	85.14	UL-RL	8488.	-6.400	0.000	1.000	1.000
67.68	0.000	0.000	Strato1_2_8_L_0									
34 D	13.86	-2.0759E-02	163.8	69.29	163.8	86.81	UL-RL	8488.	-6.600	0.000	1.000	1.000
69.29	0.000	0.000	Strato1_2_8_L_0									
35 D	14.26	-2.0294E-02	168.4	71.30	168.4	89.25	UL-RL	8488.	-6.800	0.000	1.000	1.000
71.30	0.000	0.000	Strato1_2_8_L_0									
36 D	14.57	-1.9819E-02	171.6	72.84	171.6	90.94	UL-RL	8488.	-7.000	0.000	1.000	1.000
72.84	0.000	0.000	Strato1_2_8_L_0									
37 D	14.95	-1.9335E-02	176.1	74.75	176.1	93.35	UL-RL	8488.	-7.200	0.000	1.000	1.000
74.75	0.000	0.000	Strato1_2_8_L_0									
38 D	15.24	-1.8841E-02	179.3	76.21	179.3	95.05	UL-RL	8488.	-7.400	0.000	1.000	1.000
76.21	0.000	0.000	Strato1_2_8_L_0									
39 D	15.59	-1.8339E-02	183.7	77.96	183.7	97.36	UL-RL	8488.	-7.600	0.000	1.000	1.000
77.96	0.000	0.000	Strato1_2_8_L_0									
40 D	15.86	-1.7830E-02	186.9	79.32	186.9	99.08	UL-RL	8488.	-7.800	0.000	1.000	1.000
79.32	0.000	0.000	Strato1_2_8_L_0									
41 D	16.20	-1.7314E-02	191.4	80.98	191.4	101.5	UL-RL	8488.	-8.000	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 391 di 1221
80.98	0.000	0.000	Strato1_2_8_L_0				
42 D	16.44	-1.6793E-02	194.7 82.20	194.7	103.2	UL-RL 8488.	-8.200 0.000 1.000 1.000
82.20	0.000	0.000	Strato1_2_8_L_0				
43 D	16.74	-1.6268E-02	199.1 83.70	199.1	105.5	UL-RL 8488.	-8.400 0.000 1.000 1.000
83.70	0.000	0.000	Strato1_2_8_L_0				
44 D	16.95	-1.5740E-02	202.4 84.76	202.4	107.3	UL-RL 8488.	-8.600 0.000 1.000 1.000
84.76	0.000	0.000	Strato1_2_8_L_0				
45 D	17.21	-1.5212E-02	206.8 86.07	206.8	109.6	UL-RL 8488.	-8.800 0.000 1.000 1.000
86.07	0.000	0.000	Strato1_2_8_L_0				
46 D	17.38	-1.4685E-02	210.0 86.91	210.0	111.3	UL-RL 8488.	-9.000 0.000 1.000 1.000
86.91	0.000	0.000	Strato1_2_8_L_0				
47 D	17.60	-1.4160E-02	214.4 88.00	214.4	113.6	UL-RL 8488.	-9.200 0.000 1.000 1.000
88.00	0.000	0.000	Strato1_2_8_L_0				
48 D	17.74	-1.3638E-02	217.7 88.68	217.7	115.4	UL-RL 8488.	-9.400 0.000 1.000 1.000
88.68	0.000	0.000	Strato1_2_8_L_0				
49 D	17.92	-1.3119E-02	222.1 89.58	222.1	117.7	UL-RL 8488.	-9.600 0.000 1.000 1.000
89.58	0.000	0.000	Strato1_2_8_L_0				
50 D	18.02	-1.2603E-02	225.4 90.09	225.4	119.5	UL-RL 8488.	-9.800 0.000 1.000 1.000
90.09	0.000	0.000	Strato1_2_8_L_0				
51 D	18.17	-1.2091E-02	229.8 90.84	229.8	121.8	UL-RL 8488.	-10.00 0.000 1.000 1.000
90.84	0.000	0.000	Strato1_2_8_L_0				
52 D	18.25	-1.1582E-02	233.1 91.23	233.1	123.6	UL-RL 8488.	-10.20 0.000 1.000 1.000
91.23	0.000	0.000	Strato1_2_8_L_0				
53 D	18.37	-1.1077E-02	237.4 91.86	237.4	125.8	UL-RL 8488.	-10.40 0.000 1.000 1.000
91.86	0.000	0.000	Strato1_2_8_L_0				
54 D	18.43	-1.0578E-02	240.7 92.13	240.7	127.6	UL-RL 8488.	-10.60 0.000 1.000 1.000
92.13	0.000	0.000	Strato1_2_8_L_0				
55 D	18.54	-1.0085E-02	245.0 92.68	245.0	129.8	UL-RL 8488.	-10.80 0.000 1.000 1.000
92.68	0.000	0.000	Strato1_2_8_L_0				
56 D	18.58	-9.5981E-03	248.4 92.92	248.4	131.6	UL-RL 8488.	-11.00 0.000 1.000 1.000
92.92	0.000	0.000	Strato1_2_8_L_0				
57 D	18.68	-9.1193E-03	252.7 93.41	252.7	133.9	UL-RL 8488.	-11.20 0.000 1.000 1.000
93.41	0.000	0.000	Strato1_2_8_L_0				
58 D	18.72	-8.6489E-03	256.1 93.62	256.1	135.7	UL-RL 8488.	-11.40 0.000 1.000 1.000
93.62	0.000	0.000	Strato1_2_8_L_0				
59 D	18.82	-8.1877E-03	260.3 94.08	260.3	138.0	UL-RL 8488.	-11.60 0.000 1.000 1.000
94.08	0.000	0.000	Strato1_2_8_L_0				
60 D	18.86	-7.7366E-03	263.7 94.28	263.7	139.8	UL-RL 8488.	-11.80 0.000 1.000 1.000
94.28	0.000	0.000	Strato1_2_8_L_0				
61 D	18.94	-7.2961E-03	267.9 94.69	267.9	142.0	UL-RL 8488.	-12.00 0.000 1.000 1.000
94.69	0.000	0.000	Strato1_2_8_L_0				
62 D	18.98	-6.8668E-03	271.3 94.90	271.3	143.8	UL-RL 8488.	-12.20 0.000 1.000 1.000
94.90	0.000	0.000	Strato1_2_8_L_0				
63 D	19.07	-6.4492E-03	275.5 95.35	275.5	146.0	UL-RL 8488.	-12.40 0.000 1.000 1.000
95.35	0.000	0.000	Strato1_2_8_L_0				
64 D	19.11	-6.0439E-03	279.0 95.57	279.0	147.9	UL-RL 8488.	-12.60 0.000 1.000 1.000
95.57	0.000	0.000	Strato1_2_8_L_0				
65 D	19.21	-5.6511E-03	283.2 96.04	283.2	150.1	UL-RL 8488.	-12.80 0.000 1.000 1.000
96.04	0.000	0.000	Strato1_2_8_L_0				
66 D	19.84	-5.2712E-03	286.7 99.18	286.7	151.9	UL-RL 8488.	-13.00 0.000 1.000 1.000
99.18	0.000	0.000	Strato1_2_8_L_0				
67 D	14.53	-4.9043E-03	291.0 72.65	291.0	145.5	UL-RL 2.4012E+04	-13.20 0.000 1.000 1.000
72.65	0.000	0.000	Strato2_3095_82743_L_0				
68 D	14.27	-4.5507E-03	294.6 71.37	294.6	147.3	UL-RL 2.4012E+04	-13.40 0.000 1.000 1.000
71.37	0.000	0.000	Strato2_3095_82743_L_0				
69 D	14.06	-4.2103E-03	298.9 70.30	298.9	149.5	UL-RL 2.4012E+04	-13.60 0.000 1.000 1.000
70.30	0.000	0.000	Strato2_3095_82743_L_0				
70 D	13.83	-3.8832E-03	302.6 69.15	302.6	151.3	UL-RL 2.4012E+04	-13.80 0.000 1.000 1.000
69.15	0.000	0.000	Strato2_3095_82743_L_0				
71 D	13.65	-3.5690E-03	307.0 68.23	307.0	153.5	UL-RL 2.4012E+04	-14.00 0.000 1.000 1.000
68.23	0.000	0.000	Strato2_3095_82743_L_0				
72 D	13.44	-3.2677E-03	310.7 67.22	310.7	155.3	UL-RL 2.4012E+04	-14.20 0.000 1.000 1.000
67.22	0.000	0.000	Strato2_3095_82743_L_0				
73 D	13.29	-2.9787E-03	315.0 66.43	315.0	157.5	UL-RL 2.4012E+04	-14.40 0.000 1.000 1.000
66.43	0.000	0.000	Strato2_3095_82743_L_0				
74 D	14.84	-2.7016E-03	318.7 74.20	318.7	159.4	UL-RL 2.4012E+04	-14.60 0.000 1.000 1.000
74.20	0.000	0.000	Strato2_3095_82743_L_0				
75 D	16.58	-2.4358E-03	323.1 82.89	323.1	161.5	UL-RL 2.4012E+04	-14.80 0.000 1.000 1.000
82.89	0.000	0.000	Strato2_3095_82743_L_0				
76 D	18.19	-2.1805E-03	326.7 90.94	326.7	163.3	UL-RL 2.4012E+04	-15.00 0.000 1.000 1.000
90.94	0.000	0.000	Strato2_3095_82743_L_0				
77 D	19.82	-1.9351E-03	331.0 99.09	331.0	165.5	UL-RL 2.4012E+04	-15.20 0.000 1.000 1.000
99.09	0.000	0.000	Strato2_3095_82743_L_0				
78 D	21.34	-1.6987E-03	334.7 106.7	334.7	167.4	UL-RL 2.4012E+04	-15.40 0.000 1.000 1.000
106.7	0.000	0.000	Strato2_3095_82743_L_0				
79 D	22.87	-1.4703E-03	339.1 114.4	339.1	169.5	UL-RL 2.4012E+04	-15.60 0.000 1.000 1.000
114.4	0.000	0.000	Strato2_3095_82743_L_0				
80 D	24.31	-1.2493E-03	342.8 121.5	342.8	171.4	UL-RL 2.4012E+04	-15.80 0.000 1.000 1.000
121.5	0.000	0.000	Strato2_3095_82743_L_0				
81 D	25.77	-1.0345E-03	347.1 128.9	347.1	173.6	UL-RL 2.4012E+04	-16.00 0.000 1.000 1.000
128.9	0.000	0.000	Strato2_3095_82743_L_0				
82 D	27.21	-8.2520E-04	351.4 136.0	351.4	175.7	UL-RL 2.4012E+04	-16.20 0.000 1.000 1.000
136.0	0.000	0.000	Strato2_3095_82743_L_0				
83 D	28.56	-6.2046E-04	355.1 142.8	355.1	177.6	UL-RL 2.4012E+04	-16.40 0.000 1.000 1.000
142.8	0.000	0.000	Strato2_3095_82743_L_0				

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 393 di 1221
22	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
23	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
24	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
25	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
26	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
27	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
28	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
29	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
30	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
31	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
32	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
33	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
34	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
35	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
36	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
37	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
38	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
39	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
40	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
41	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
42	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
43	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
44	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
45	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
46	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
47	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
48	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
49 D	0.1155	1.3119E-02	1.900 0.5776	182.4	100.6
0.5776	0.000	0.000	Stratol_2_8_L_0	ACTIVE	0.000
50 D	1.438	1.2603E-02	5.700 7.188	186.2	102.4
7.188	0.000	0.000	Stratol_2_8_L_0	UL-RL	6237.
51 D	4.593	1.2091E-02	9.500 22.96	190.0	104.4
22.96	0.000	0.000	Stratol_2_8_L_0	UL-RL	6237.
52 D	7.756	1.1582E-02	13.30 38.78	193.8	106.3
38.78	0.000	0.000	Stratol_2_8_L_0	UL-RL	6237.
53 D	10.93	1.1077E-02	17.10 54.64	197.6	108.3
54.64	0.000	0.000	Stratol_2_8_L_0	UL-RL	6237.
54 D	14.11	1.0578E-02	20.90 70.53	201.4	110.2
70.53	0.000	0.000	Stratol_2_8_L_0	UL-RL	6237.
55 D	17.29	1.0085E-02	24.70 86.44	205.2	112.2
86.44	0.000	0.000	Stratol_2_8_L_0	UL-RL	6237.
56 D	20.47	9.5981E-03	28.50 102.4	209.0	115.2
102.4	0.000	0.000	Stratol_2_8_L_0	UL-RL	6237.
57 D	23.66	9.1193E-03	32.30 118.3	212.8	130.5
118.3	0.000	0.000	Stratol_2_8_L_0	UL-RL	6237.
58 D	25.45	8.6489E-03	36.10 127.3	216.6	138.8
127.3	0.000	0.000	Stratol_2_8_L_0	UL-RL	6237.
59 D	25.73	8.1877E-03	39.90 128.7	220.4	139.6
128.7	0.000	0.000	Stratol_2_8_L_0	UL-RL	6237.
60 D	26.02	7.7366E-03	43.70 130.1	224.2	140.5
130.1	0.000	0.000	Stratol_2_8_L_0	UL-RL	6237.
61 D	26.31	7.2961E-03	47.50 131.6	228.0	141.3
131.6	0.000	0.000	Stratol_2_8_L_0	UL-RL	6237.
62 D	26.61	6.8668E-03	51.30 133.0	231.8	142.2
133.0	0.000	0.000	Stratol_2_8_L_0	UL-RL	6237.
63 D	26.91	6.4492E-03	55.10 134.6	235.6	143.1
134.6	0.000	0.000	Stratol_2_8_L_0	UL-RL	6237.
64 D	27.22	6.0439E-03	58.90 136.1	239.4	144.0
				UL-RL	6237.



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 394 di 1221
136.1	0.000	0.000	Strato1_2_8_L_0		
65 D	27.53	5.6511E-03	62.70 137.6	243.2	144.9
137.6	0.000	0.000	Strato1_2_8_L_0		
66 D	27.84	5.2712E-03	66.50 139.2	247.0	145.9
139.2	0.000	0.000	Strato1_2_8_L_0		
67 D	24.64	4.9043E-03	70.40 123.2	250.9	136.8
123.2	0.000	0.000	Strato2_3095_82743_L_0		
68 D	24.89	4.5507E-03	74.40 124.5	254.9	136.8
124.5	0.000	0.000	Strato2_3095_82743_L_0		
69 D	25.15	4.2103E-03	78.40 125.8	258.9	136.9
125.8	0.000	0.000	Strato2_3095_82743_L_0		
70 D	25.42	3.8832E-03	82.40 127.1	262.9	137.1
127.1	0.000	0.000	Strato2_3095_82743_L_0		
71 D	25.50	3.5690E-03	86.40 127.5	266.9	137.8
127.5	0.000	0.000	Strato2_3095_82743_L_0		
72 D	25.18	3.2677E-03	90.40 125.9	270.9	139.6
125.9	0.000	0.000	Strato2_3095_82743_L_0		
73 D	24.89	2.9787E-03	94.40 124.4	274.9	141.5
124.4	0.000	0.000	Strato2_3095_82743_L_0		
74 D	24.62	2.7016E-03	98.40 123.1	278.9	143.3
123.1	0.000	0.000	Strato2_3095_82743_L_0		
75 D	24.38	2.4358E-03	102.4 121.9	282.9	145.2
121.9	0.000	0.000	Strato2_3095_82743_L_0		
76 D	24.17	2.1805E-03	106.4 120.9	286.9	147.0
120.9	0.000	0.000	Strato2_3095_82743_L_0		
77 D	23.98	1.9351E-03	110.4 119.9	290.9	148.9
119.9	0.000	0.000	Strato2_3095_82743_L_0		
78 D	23.82	1.6987E-03	114.4 119.1	294.9	150.8
119.1	0.000	0.000	Strato2_3095_82743_L_0		
79 D	23.67	1.4703E-03	118.4 118.3	298.9	152.7
118.3	0.000	0.000	Strato2_3095_82743_L_0		
80 D	23.53	1.2493E-03	122.4 117.7	302.9	154.6
117.7	0.000	0.000	Strato2_3095_82743_L_0		
81 D	23.42	1.0345E-03	126.4 117.1	306.9	156.5
117.1	0.000	0.000	Strato2_3095_82743_L_0		
82 D	23.31	8.2520E-04	130.4 116.6	310.9	158.5
116.6	0.000	0.000	Strato2_3095_82743_L_0		
83 D	23.22	6.2046E-04	134.4 116.1	314.9	160.4
116.1	0.000	0.000	Strato2_3095_82743_L_0		
84 D	23.13	4.1946E-04	138.4 115.7	318.9	162.3
115.7	0.000	0.000	Strato2_3095_82743_L_0		
85 D	23.05	2.2141E-04	142.4 115.2	322.9	164.2
115.2	0.000	0.000	Strato2_3095_82743_L_0		
86 D	22.97	2.5615E-05	146.4 114.9	326.9	166.2
114.9	0.000	0.000	Strato2_3095_82743_L_0		
87 D	22.90	-1.6858E-04	150.4 114.5	330.9	168.1
114.5	0.000	0.000	Strato2_3095_82743_L_0		
88 D	22.83	-3.6171E-04	154.4 114.1	334.9	170.1
114.1	0.000	0.000	Strato2_3095_82743_L_0		
89 D	22.76	-5.5422E-04	158.4 113.8	338.9	172.0
113.8	0.000	0.000	Strato2_3095_82743_L_0		
90 D	22.68	-7.4645E-04	162.4 113.4	342.9	173.9
113.4	0.000	0.000	Strato2_3095_82743_L_0		
91 D	11.31	-9.3859E-04	166.4 113.1	346.9	175.9
113.1	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :29 July 2019          18:00:06                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 6.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.30400	-0.30400	-3.97074E-10	6.08000E-02
2	0.96154	-0.96154	-6.08000E-02	0.25311
3	2.8715	-2.8715	-0.25311	0.82740
4	4.8761	-4.8761	-0.82740	1.8026
5	7.6275	-7.6275	-1.8026	3.3281
6	10.469	-10.469	-3.3281	5.4219
7	13.865	-13.865	-5.4219	8.1948

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 395 di 1221
8	17.367	-17.367	-8.1948	11.668	
9	21.292	-21.292	-11.668	15.927	
10	25.362	-25.362	-15.927	20.999	
11	30.019	-30.019	-20.999	27.003	
12	34.984	-34.984	-27.003	34.000	
13	40.501	-40.501	-34.000	42.100	
14	46.335	-46.335	-42.100	51.367	
15	52.697	-52.697	-51.367	61.906	
16	-157.40	157.40	-61.906	30.426	
17	-150.22	150.22	-30.426	0.38166	
18	-142.71	142.71	-0.38166	-28.161	
19	-134.71	134.71	28.161	-55.102	
20	-126.36	126.36	55.102	-80.374	
21	-117.53	117.53	80.374	-103.88	
22	-108.36	108.36	103.88	-125.55	
23	-98.710	98.710	125.55	-145.29	
24	-88.735	88.735	145.29	-163.04	
25	-78.293	78.293	163.04	-178.70	
26	-67.508	67.508	178.70	-192.20	
27	-56.267	56.267	192.20	-203.45	
28	-44.685	44.685	203.45	-212.39	
29	-32.658	32.658	212.39	-218.92	
30	-20.293	20.293	218.92	-222.98	
31	-7.5069	7.5069	222.98	-224.48	
32	5.6104	-5.6104	224.48	-223.36	
33	19.146	-19.146	223.36	-219.53	
34	33.004	-33.004	219.53	-212.93	
35	47.264	-47.264	212.93	-203.48	
36	61.832	-61.832	203.48	-191.11	
37	76.783	-76.783	191.11	-175.75	
38	92.026	-92.026	175.75	-157.35	
39	107.62	-107.62	157.35	-135.83	
40	123.48	-123.48	135.83	-111.13	
41	139.68	-139.68	111.13	-83.193	
42	156.12	-156.12	83.193	-51.970	
43	172.86	-172.86	51.970	-17.398	
44	189.81	-189.81	17.398	20.564	
45	207.03	-207.03	-20.564	61.970	
46	-17.075	17.075	-61.970	58.555	
47	0.52592	-0.52592	-58.555	58.660	
48	18.262	-18.262	-58.660	62.312	
49	36.062	-36.062	-62.312	69.525	
50	52.643	-52.643	-69.525	80.054	
51	66.219	-66.219	-80.054	93.297	
52	76.709	-76.709	-93.297	108.64	
53	84.154	-84.154	-108.64	125.47	
54	88.476	-88.476	-125.47	143.17	
55	89.724	-89.724	-143.17	161.11	
56	87.835	-87.835	-161.11	178.68	
57	82.853	-82.853	-178.68	195.25	
58	76.127	-76.127	-195.25	210.47	
59	69.211	-69.211	-210.47	224.32	
60	62.047	-62.047	-224.32	236.72	
61	54.675	-54.675	-236.72	247.66	
62	47.046	-47.046	-247.66	257.07	
63	39.204	-39.204	-257.07	264.91	
64	31.101	-31.101	-264.91	271.13	
65	22.780	-22.780	-271.13	275.69	
66	14.772	-14.772	-275.69	278.64	
67	4.6590	-4.6590	-278.64	279.57	
68	-5.9621	5.9621	-279.57	278.38	
69	-17.056	17.056	-278.38	274.97	
70	-28.646	28.646	-274.97	269.24	
71	-40.503	40.503	-269.24	261.14	
72	-52.240	52.240	-261.14	250.69	
73	-63.840	63.840	-250.69	237.92	
74	-73.623	73.623	-237.92	223.20	
75	-81.428	81.428	-223.20	206.91	
76	-87.411	87.411	-206.91	189.43	
77	-91.576	91.576	-189.43	171.12	
78	-94.056	94.056	-171.12	152.30	
79	-94.850	94.850	-152.30	133.33	
80	-94.076	94.076	-133.33	114.52	
81	-91.720	91.720	-114.52	96.175	
82	-87.826	87.826	-96.175	78.610	
83	-82.486	82.486	-78.610	62.113	
84	-75.677	75.677	-62.113	46.977	
85	-67.473	67.473	-46.977	33.482	
86	-57.830	57.830	-33.482	21.916	
87	-46.819	46.819	-21.916	12.552	
88	-34.390	34.390	-12.552	5.6741	
89	-21.133	21.133	-5.6741	1.4475	
90	-7.2374	7.2374	-1.4475	-3.33844E-13	



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 396 di 1221
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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
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|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      18:00:06
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirantel_429 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 CURRENT TIME IS 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	224.41	-1.08357E-03	2.00579E-02	0.0000	3950.0	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      18:00:06
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 CURRENT TIME IS 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	250.00	-2.62486E-03	-2.62486E-03	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1248E+07 RIMNOR=0.4397E+07
 RENORM= 9331. REMNOR=0.1960E-17 RATIO =0.8647E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 241.5 RMMAX = 279.6
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.1248E+07 RDR =0.4397E+07
 RATIOT=0.8647E-01 RATIO= 0.000
 MAX UN= 27.84 IEQ= 131 NODE 66 DOF 1 Y-DISPL.F
 MIN UN=-.7246E-08 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1248E+07 RIMNOR=0.4397E+07
 RENORM= 778.8 REMNOR=0.1727E-17 RATIO =0.2498E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 241.5 RMMAX = 279.6
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.1248E+07 RDR =0.4397E+07
 RATIOT=0.2498E-01 RATIO= 0.000
 MAX UN= 13.70 IEQ= 133 NODE 67 DOF 1 Y-DISPL.F
 MIN UN=-.5833E-08 IEQ= 79 NODE 40 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1248E+07 RIMNOR=0.4397E+07
 RENORM= 59.81 REMNOR=0.2949E-17 RATIO =0.6923E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 241.5 RMMAX = 279.6
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.1248E+07 RDR =0.4397E+07
 RATIOT=0.6923E-02 RATIO= 0.000
 MAX UN= 3.825 IEQ= 143 NODE 72 DOF 1 Y-DISPL.F
 MIN UN=-.7588E-08 IEQ= 95 NODE 48 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1248E+07 RIMNOR=0.4397E+07
 RENORM=0.8368 REMNOR=0.2489E-17 RATIO =0.8188E-03 TOLER =0.1000E-03 NOT CONVERGED

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
397 di 1221

RFMAX = 241.5 RMMAX = 279.6
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.1248E+07 RDR =0.4397E+07
 RATIO=0.8188E-03 RATIO= 0.000
 MAX UN=0.5908 IEQ= 65 NODE 33 DOF 1 Y-DISPL.F
 MIN UN=-.5558E-08 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1248E+07 RIMNOR=0.4397E+07
 RENORM=0.4682E-02 REMNOR=0.2840E-17 RATIO =0.6125E-04 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 241.5 RMMAX = 279.6
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.1248E+07 RDR =0.4397E+07
 RATIO=0.6125E-04 RATIO= 0.000
 MAX UN=0.6843E-01 IEQ= 53 NODE 27 DOF 1 Y-DISPL.F
 MIN UN=-.5401E-08 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|                                     PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017* |
|                                     |
|                                     NewProject.BaseDesignSection_28.Nominal_63 |
|                                     Exe Time :29 July 2019                    18:00:06 |
|                                     |
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New Project
 SOLUTION REACHED USING 5 ITERATIONS ON 100
 PRINT OUT FOR TIME STEP 7 (AT TIME 7.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.1539591E-02	-1.2277752E-03	
2	3.1294039E-02	-1.2277399E-03	
3	3.1048505E-02	-1.2275663E-03	
4	3.0803032E-02	-1.2270945E-03	
5	3.0557699E-02	-1.2261413E-03	
6	3.0312621E-02	-1.2245125E-03	
7	3.0067953E-02	-1.2220030E-03	
8	2.9823892E-02	-1.2184014E-03	
9	2.9580679E-02	-1.2134898E-03	
10	2.9338598E-02	-1.2070466E-03	
11	2.9097978E-02	-1.1988456E-03	
12	2.8859193E-02	-1.1886529E-03	
13	2.8622666E-02	-1.1762219E-03	
14	2.8388870E-02	-1.1612955E-03	
15	2.8158332E-02	-1.1436048E-03	
16	2.7931631E-02	-1.1228705E-03	
17	2.7709061E-02	-1.1039759E-03	
18	2.7489594E-02	-1.0917943E-03	
19	2.7271917E-02	-1.0860165E-03	
20	2.7054781E-02	-1.0863232E-03	
21	2.6837004E-02	-1.0923855E-03	
22	2.6617466E-02	-1.1038650E-03	
23	2.6395120E-02	-1.1204143E-03	
24	2.6168987E-02	-1.1416770E-03	
25	2.5938160E-02	-1.1672885E-03	
26	2.5701807E-02	-1.1968764E-03	
27	2.5459170E-02	-1.2300597E-03	
28	2.5209569E-02	-1.2664500E-03	
29	2.4952404E-02	-1.3056477E-03	
30	2.4687152E-02	-1.3472406E-03	
31	2.4413376E-02	-1.3908046E-03	
32	2.4130727E-02	-1.4359052E-03	
33	2.3838942E-02	-1.4820963E-03	
34	2.3537846E-02	-1.5289212E-03	
35	2.3227364E-02	-1.5759111E-03	
36	2.2907504E-02	-1.6225871E-03	
37	2.2578382E-02	-1.6684584E-03	
38	2.2240208E-02	-1.7130229E-03	
39	2.1893295E-02	-1.7557676E-03	
40	2.1538059E-02	-1.7961683E-03	
41	2.1175021E-02	-1.8336905E-03	
42	2.0804811E-02	-1.8677877E-03	
43	2.0428171E-02	-1.8979026E-03	
44	2.0045954E-02	-1.9234670E-03	
45	1.9659129E-02	-1.9439009E-03	
46	1.9268767E-02	-1.9586144E-03	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
398 di 1221

47 1.8875670E-02 -1.9733794E-03
 48 1.8479028E-02 -1.9939585E-03
 49 1.8077742E-02 -2.0197278E-03
 50 1.7670835E-02 -2.0500529E-03
 51 1.7257460E-02 -2.0842875E-03
 52 1.6836901E-02 -2.1217750E-03
 53 1.6408576E-02 -2.1618469E-03
 54 1.5972035E-02 -2.2038240E-03
 55 1.5526965E-02 -2.2470163E-03
 56 1.5073194E-02 -2.2907227E-03
 57 1.4610689E-02 -2.3342311E-03
 58 1.4139563E-02 -2.3768182E-03
 59 1.3660073E-02 -2.4177497E-03
 60 1.3172623E-02 -2.4562803E-03
 61 1.2677771E-02 -2.4916534E-03
 62 1.2176224E-02 -2.5231018E-03
 63 1.1668844E-02 -2.5498471E-03
 64 1.1156651E-02 -2.5711000E-03
 65 1.0640823E-02 -2.5860600E-03
 66 1.0122701E-02 -2.5939157E-03
 67 9.6037855E-03 -2.5938445E-03
 68 9.0856998E-03 -2.5857164E-03
 69 8.5699911E-03 -2.5702064E-03
 70 8.0580511E-03 -2.5481894E-03
 71 7.5510849E-03 -2.5206278E-03
 72 7.0501061E-03 -2.4884736E-03
 73 6.5559635E-03 -2.4526688E-03
 74 6.0692452E-03 -2.4141368E-03
 75 5.5904296E-03 -2.3737932E-03
 76 5.1197887E-03 -2.3325380E-03
 77 4.6574161E-03 -2.2912574E-03
 78 4.2032293E-03 -2.2508238E-03
 79 3.7569740E-03 -2.2120786E-03
 80 3.3182328E-03 -2.1758090E-03
 81 2.8864402E-03 -2.1426927E-03
 82 2.4609113E-03 -2.1132430E-03
 83 2.0408755E-03 -2.0878057E-03
 84 1.6255094E-03 -2.0665625E-03
 85 1.2139492E-03 -2.0495314E-03
 86 8.0540483E-04 -2.0365718E-03
 87 3.9906925E-04 -2.0273800E-03
 88 -5.7675201E-06 -2.0214934E-03
 89 -4.0970699E-04 -2.0182900E-03
 90 -8.1321119E-04 -2.0170016E-03
 91 -1.2165755E-03 -2.0167318E-03

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019  18:00:06                               |
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New Project

STRESS RESULTS FOR GROUP NO. 1

O_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 7.0000

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 FACTOR	UFACTOR
Peg	Su_a	Su_p	LAYER									
1 D	1.490	-3.1540E-02	10.00	14.90	10.00	16.00	UL-RL	8488.	0.000	0.000	1.000	1.000
14.90	0.000	0.000	Strato1_2_8_L_0									
2 D	2.840	-3.1294E-02	10.81	14.20	10.81	16.18	UL-RL	8488.	-0.2000	0.000	1.000	1.000
14.20	0.000	0.000	Strato1_2_8_L_0									
3 D	3.904	-3.1049E-02	31.41	19.52	31.41	25.36	UL-RL	8488.	-0.4000	0.000	1.000	1.000
19.52	0.000	0.000	Strato1_2_8_L_0									
4 D	3.810	-3.0803E-02	32.97	19.05	32.97	25.88	UL-RL	8488.	-0.6000	0.000	1.000	1.000
19.05	0.000	0.000	Strato1_2_8_L_0									
5 D	4.368	-3.0558E-02	45.25	21.84	45.25	31.27	UL-RL	8488.	-0.8000	0.000	1.000	1.000
21.84	0.000	0.000	Strato1_2_8_L_0									
6 D	4.269	-3.0313E-02	46.73	21.35	46.73	31.75	UL-RL	8488.	-1.000	0.000	1.000	1.000
21.35	0.000	0.000	Strato1_2_8_L_0									
7 D	4.635	-3.0068E-02	55.86	23.17	55.86	35.71	UL-RL	8488.	-1.200	0.000	1.000	1.000

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Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 399 di 1221
23.17	0.000	0.000	Stratol_2_8_L_0				
8 D	4.550	-2.9824E-02	57.60	22.75	57.60	36.30	UL-RL 8488.
22.75	0.000	0.000	Stratol_2_8_L_0				
9 D	4.783	-2.9581E-02	64.56	23.91	64.56	39.26	UL-RL 8488.
23.91	0.000	0.000	Stratol_2_8_L_0				
10 D	4.736	-2.9339E-02	66.63	23.68	66.63	39.99	UL-RL 8488.
23.68	0.000	0.000	Stratol_2_8_L_0				
11 D	5.130	-2.9098E-02	73.46	25.65	73.46	42.88	UL-RL 8488.
25.65	0.000	0.000	Stratol_2_8_L_0				
12 D	5.244	-2.8859E-02	75.72	26.22	75.72	43.68	UL-RL 8488.
26.22	0.000	0.000	Stratol_2_8_L_0				
13 D	5.599	-2.8623E-02	81.98	28.00	81.98	46.28	UL-RL 8488.
28.00	0.000	0.000	Stratol_2_8_L_0				
14 D	5.719	-2.8389E-02	84.40	28.60	84.40	47.12	UL-RL 8488.
28.60	0.000	0.000	Stratol_2_8_L_0				
15 D	6.047	-2.8158E-02	90.27	30.23	90.27	49.51	UL-RL 8488.
30.23	0.000	0.000	Stratol_2_8_L_0				
16 D	6.147	-2.7932E-02	92.44	30.74	92.44	50.19	UL-RL 8488.
30.74	0.000	0.000	Stratol_2_8_L_0				
17 D	6.454	-2.7709E-02	98.05	32.27	98.05	52.41	UL-RL 8488.
32.27	0.000	0.000	Stratol_2_8_L_0				
18 D	6.580	-2.7490E-02	100.7	32.90	100.7	53.39	UL-RL 8488.
32.90	0.000	0.000	Stratol_2_8_L_0				
19 D	6.866	-2.7272E-02	106.1	34.33	106.1	56.24	UL-RL 8488.
34.33	0.000	0.000	Stratol_2_8_L_0				
20 D	6.990	-2.7055E-02	108.9	34.95	108.9	57.70	UL-RL 8488.
34.95	0.000	0.000	Stratol_2_8_L_0				
21 D	7.258	-2.6837E-02	114.1	36.29	114.1	60.46	UL-RL 8488.
36.29	0.000	0.000	Stratol_2_8_L_0				
22 D	7.379	-2.6617E-02	116.9	36.90	116.9	61.97	UL-RL 8488.
36.90	0.000	0.000	Stratol_2_8_L_0				
23 D	7.630	-2.6395E-02	122.0	38.15	122.0	64.66	UL-RL 8488.
38.15	0.000	0.000	Stratol_2_8_L_0				
24 D	7.730	-2.6169E-02	124.7	38.65	124.7	66.07	UL-RL 8488.
38.65	0.000	0.000	Stratol_2_8_L_0				
25 D	7.964	-2.5938E-02	129.6	39.82	129.6	68.70	UL-RL 8488.
39.82	0.000	0.000	Stratol_2_8_L_0				
26 D	8.073	-2.5702E-02	132.6	40.36	132.6	70.28	UL-RL 8488.
40.36	0.000	0.000	Stratol_2_8_L_0				
27 D	8.358	-2.5459E-02	137.5	41.79	137.5	72.85	ACTIVE 0.000
41.79	0.000	0.000	Stratol_2_8_L_0				
28 D	8.542	-2.5210E-02	140.5	42.71	140.5	74.46	ACTIVE 0.000
42.71	0.000	0.000	Stratol_2_8_L_0				
29 D	8.832	-2.4952E-02	145.3	44.16	145.3	76.99	ACTIVE 0.000
44.16	0.000	0.000	Stratol_2_8_L_0				
30 D	9.019	-2.4687E-02	148.3	45.10	148.3	78.62	ACTIVE 0.000
45.10	0.000	0.000	Stratol_2_8_L_0				
31 D	9.294	-2.4413E-02	152.9	46.47	152.9	81.02	ACTIVE 0.000
46.47	0.000	0.000	Stratol_2_8_L_0				
32 D	9.484	-2.4131E-02	156.0	47.42	156.0	82.67	ACTIVE 0.000
47.42	0.000	0.000	Stratol_2_8_L_0				
33 D	9.767	-2.3839E-02	160.6	48.83	160.6	85.14	ACTIVE 0.000
48.83	0.000	0.000	Stratol_2_8_L_0				
34 D	9.959	-2.3538E-02	163.8	49.79	163.8	86.81	ACTIVE 0.000
49.79	0.000	0.000	Stratol_2_8_L_0				
35 D	10.24	-2.3227E-02	168.4	51.19	168.4	89.25	ACTIVE 0.000
51.19	0.000	0.000	Stratol_2_8_L_0				
36 D	10.43	-2.2908E-02	171.6	52.16	171.6	90.94	ACTIVE 0.000
52.16	0.000	0.000	Stratol_2_8_L_0				
37 D	10.71	-2.2578E-02	176.1	53.54	176.1	93.35	ACTIVE 0.000
53.54	0.000	0.000	Stratol_2_8_L_0				
38 D	10.90	-2.2240E-02	179.3	54.52	179.3	95.05	ACTIVE 0.000
54.52	0.000	0.000	Stratol_2_8_L_0				
39 D	11.17	-2.1893E-02	183.7	55.84	183.7	97.36	ACTIVE 0.000
55.84	0.000	0.000	Stratol_2_8_L_0				
40 D	11.37	-2.1538E-02	186.9	56.83	186.9	99.08	ACTIVE 0.000
56.83	0.000	0.000	Stratol_2_8_L_0				
41 D	11.64	-2.1175E-02	191.4	58.19	191.4	101.5	ACTIVE 0.000
58.19	0.000	0.000	Stratol_2_8_L_0				
42 D	11.84	-2.0805E-02	194.7	59.18	194.7	103.2	ACTIVE 0.000
59.18	0.000	0.000	Stratol_2_8_L_0				
43 D	12.11	-2.0428E-02	199.1	60.53	199.1	105.5	ACTIVE 0.000
60.53	0.000	0.000	Stratol_2_8_L_0				
44 D	12.31	-2.0046E-02	202.4	61.53	202.4	107.3	ACTIVE 0.000
61.53	0.000	0.000	Stratol_2_8_L_0				
45 D	12.57	-1.9659E-02	206.8	62.87	206.8	109.6	ACTIVE 0.000
62.87	0.000	0.000	Stratol_2_8_L_0				
46 D	12.77	-1.9269E-02	210.0	63.84	210.0	111.3	ACTIVE 0.000
63.84	0.000	0.000	Stratol_2_8_L_0				
47 D	13.03	-1.8876E-02	214.4	65.17	214.4	113.6	ACTIVE 0.000
65.17	0.000	0.000	Stratol_2_8_L_0				
48 D	13.24	-1.8479E-02	217.7	66.19	217.7	115.4	ACTIVE 0.000
66.19	0.000	0.000	Stratol_2_8_L_0				
49 D	13.50	-1.8078E-02	222.1	67.51	222.1	117.7	ACTIVE 0.000
67.51	0.000	0.000	Stratol_2_8_L_0				



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 401 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      18:00:06
|
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 7.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
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	not available									
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
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	not available									
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
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	not available									
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available									
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
0.000	0.000	0.000	not available									
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available									
24	0.000	--	--	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
0.000	0.000	0.000	not available									
25	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available									
26	0.000	--	--	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
0.000	0.000	0.000	not available									
27	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available									
28	0.000	--	--	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000
0.000	0.000	0.000	not available									
29	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000
0.000	0.000	0.000	not available									
30	0.000	--	--	--	--	--	REMOVED	--	-5.800	0.000	1.000	1.000
0.000	0.000	0.000	not available									
31	0.000	--	--	--	--	--	REMOVED	--	-6.000	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 403 di 1221
74 D 30.21 6.0692E-03 30.00 151.1 278.9 151.1 V-C 7968. -14.60 0.000 1.000 1.000					
151.1 0.000 0.000 Strato2_3095_82743_L_0					
75 D 30.11 5.5904E-03 34.00 150.5 282.9 150.5 V-C 7968. -14.80 0.000 1.000 1.000					
150.5 0.000 0.000 Strato2_3095_82743_L_0					
76 D 30.00 5.1198E-03 38.00 150.0 286.9 150.0 V-C 7968. -15.00 0.000 1.000 1.000					
150.0 0.000 0.000 Strato2_3095_82743_L_0					
77 D 29.90 4.6574E-03 42.00 149.5 290.9 149.5 V-C 7968. -15.20 0.000 1.000 1.000					
149.5 0.000 0.000 Strato2_3095_82743_L_0					
78 D 29.07 4.2032E-03 46.00 145.3 294.9 150.8 UL-RL 2.3904E+04 -15.40 0.000 1.000 1.000					
145.3 0.000 0.000 Strato2_3095_82743_L_0					
79 D 28.01 3.7570E-03 50.00 140.1 298.9 152.7 UL-RL 2.3904E+04 -15.60 0.000 1.000 1.000					
140.1 0.000 0.000 Strato2_3095_82743_L_0					
80 D 26.96 3.3182E-03 54.00 134.8 302.9 154.6 UL-RL 2.3904E+04 -15.80 0.000 1.000 1.000					
134.8 0.000 0.000 Strato2_3095_82743_L_0					
81 D 25.92 2.8864E-03 58.00 129.6 306.9 156.5 UL-RL 2.3904E+04 -16.00 0.000 1.000 1.000					
129.6 0.000 0.000 Strato2_3095_82743_L_0					
82 D 24.88 2.4609E-03 62.00 124.4 310.9 158.5 UL-RL 2.3904E+04 -16.20 0.000 1.000 1.000					
124.4 0.000 0.000 Strato2_3095_82743_L_0					
83 D 23.85 2.0409E-03 66.00 119.3 314.9 160.4 UL-RL 2.3904E+04 -16.40 0.000 1.000 1.000					
119.3 0.000 0.000 Strato2_3095_82743_L_0					
84 D 22.83 1.6255E-03 70.00 114.1 318.9 162.3 UL-RL 2.3904E+04 -16.60 0.000 1.000 1.000					
114.1 0.000 0.000 Strato2_3095_82743_L_0					
85 D 21.81 1.2139E-03 74.00 109.0 322.9 164.2 UL-RL 2.3904E+04 -16.80 0.000 1.000 1.000					
109.0 0.000 0.000 Strato2_3095_82743_L_0					
86 D 20.79 8.0540E-04 78.00 104.0 326.9 166.2 UL-RL 2.3904E+04 -17.00 0.000 1.000 1.000					
104.0 0.000 0.000 Strato2_3095_82743_L_0					
87 D 19.78 3.9907E-04 82.00 98.89 330.9 168.1 UL-RL 2.3904E+04 -17.20 0.000 1.000 1.000					
98.89 0.000 0.000 Strato2_3095_82743_L_0					
88 D 18.76 -5.7675E-06 86.00 93.81 334.9 170.1 UL-RL 2.3904E+04 -17.40 0.000 1.000 1.000					
93.81 0.000 0.000 Strato2_3095_82743_L_0					
89 D 17.74 -4.0971E-04 90.00 88.71 338.9 172.0 UL-RL 2.3904E+04 -17.60 0.000 1.000 1.000					
88.71 0.000 0.000 Strato2_3095_82743_L_0					
90 D 16.72 -8.1321E-04 94.00 83.61 342.9 173.9 UL-RL 2.3904E+04 -17.80 0.000 1.000 1.000					
83.61 0.000 0.000 Strato2_3095_82743_L_0					
91 D 7.848 -1.2166E-03 98.00 78.48 346.9 175.9 UL-RL 2.3904E+04 -18.00 0.000 1.000 1.000					
78.48 0.000 0.000 Strato2_3095_82743_L_0					

```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019  18:00:06                               |
|                                                                                               |
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```

New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 7.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1 1.4897 -1.4897 3.43013E-10 0.29793				
2 4.3301 -4.3301 -0.29793 1.1639				
3 8.2343 -8.2343 -1.1639 2.8108				
4 12.045 -12.045 -2.8108 5.2197				
5 16.413 -16.413 -5.2197 8.5024				
6 20.682 -20.682 -8.5024 12.639				
7 25.317 -25.317 -12.639 17.702				
8 29.867 -29.867 -17.702 23.676				
9 34.650 -34.650 -23.676 30.606				
10 39.387 -39.387 -30.606 38.483				
11 44.516 -44.516 -38.483 47.386				
12 49.760 -49.760 -47.386 57.338				
13 55.359 -55.359 -57.338 68.410				
14 61.078 -61.078 -68.410 80.626				
15 67.124 -67.124 -80.626 94.050				
16 -144.61 144.61 -94.050 65.128				
17 -138.16 138.16 -65.128 37.496				
18 -131.58 131.58 -37.496 11.180				
19 -124.71 124.71 -11.180 -13.763				
20 -117.72 117.72 13.763 -37.308				
21 -110.47 110.47 37.308 -59.401				
22 -103.09 103.09 59.401 -80.019				
23 -95.457 95.457 80.019 -99.110				
24 -87.727 87.727 99.110 -116.66				
25 -79.762 79.762 116.66 -132.61				
26 -71.690 71.690 132.61 -146.95				

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 404 di 1221
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27	-63.400	63.400	146.95	-159.63
28	-54.858	54.858	159.63	-170.60
29	-46.026	46.026	170.60	-179.80
30	-37.007	37.007	179.80	-187.20
31	-27.712	27.712	187.20	-192.75
32	-18.229	18.229	192.75	-196.39
33	-8.4619	8.4619	196.39	-198.08
34	1.4967	-1.4967	198.08	-197.78
35	11.735	-11.735	197.78	-195.44
36	22.167	-22.167	195.44	-191.00
37	32.875	-32.875	191.00	-184.43
38	43.779	-43.779	184.43	-175.67
39	54.948	-54.948	175.67	-164.68
40	66.314	-66.314	164.68	-151.42
41	77.952	-77.952	151.42	-135.83
42	89.789	-89.789	135.83	-117.87
43	101.90	-101.90	117.87	-97.494
44	114.20	-114.20	97.494	-74.653
45	126.78	-126.78	74.653	-49.297
46	-128.97	128.97	49.297	-75.091
47	-115.93	115.93	75.091	-98.278
48	-102.70	102.70	98.278	-118.82
49	-89.195	89.195	118.82	-136.66
50	-75.489	75.489	136.66	-151.75
51	-61.520	61.520	151.75	-164.06
52	-47.346	47.346	164.06	-173.53
53	-32.910	32.910	173.53	-180.11
54	-18.276	18.276	180.11	-183.76
55	-3.3800	3.3800	183.76	-184.44
56	11.722	-11.722	184.44	-182.10
57	27.084	-27.084	182.10	-176.68
58	42.653	-42.653	176.68	-168.15
59	58.481	-58.481	168.15	-156.45
60	74.517	-74.517	156.45	-141.55
61	90.805	-90.805	141.55	-123.39
62	107.30	-107.30	123.39	-101.93
63	124.05	-124.05	101.93	-77.117
64	141.02	-141.02	77.117	-48.914
65	158.24	-158.24	48.914	-17.266
66	175.66	-175.66	17.266	17.866
67	163.71	-163.71	-17.866	50.609
68	147.23	-147.23	-50.609	80.055
69	126.86	-126.86	-80.055	105.43
70	106.69	-106.69	-105.43	126.77
71	86.765	-86.765	-126.77	144.12
72	67.091	-67.091	-144.12	157.54
73	47.710	-47.710	-157.54	167.08
74	28.601	-28.601	-167.08	172.80
75	9.7984	-9.7984	-172.80	174.76
76	-8.7300	8.7300	-174.76	173.01
77	-26.950	26.950	-173.01	167.62
78	-44.164	44.164	-167.62	158.79
79	-60.117	60.117	-158.79	146.76
80	-72.705	72.705	-146.76	132.22
81	-81.743	81.743	-132.22	115.88
82	-87.272	87.272	-115.88	98.421
83	-89.389	89.389	-98.421	80.543
84	-88.070	88.070	-80.543	62.928
85	-83.392	83.392	-62.928	46.250
86	-75.315	75.315	-46.250	31.187
87	-63.907	63.907	-31.187	18.405
88	-49.120	49.120	-18.405	8.5814
89	-31.544	31.544	-8.5814	2.2727
90	-11.363	11.363	-2.2727	-1.91736E-13

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      18:00:06                             |
+-----+

```

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

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 7.0000

POST-TENSION 2D-BOUNDARY ELEMENT

GENERAL CONTRACTOR

Cepav due



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GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
405 di 1221

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit		
ANCHOR	1	225.57	-1.08357E-03	2.03525E-02	0.0000	3950.0	0.0000	0.0000	ELASTIC	ORIGINAL YOUNG MODULUS

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63 |
|          Exe Time :29 July 2019      18:00:06      |
+-----+

```

New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

CURRENT TIME IS 7.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit		
ANCHOR	1	277.99	-2.62486E-03	1.80280E-03	0.0000	6321.2	0.0000	0.0000	ELASTIC	ORIGINAL YOUNG MODULUS

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63 |
|          Exe Time :29 July 2019      18:00:06      |
+-----+

```

FINAL INCREMENTAL ANALYSIS

SUMMARY

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	2
2	CONVERGENCE :YES	4
3	CONVERGENCE :YES	6
4	CONVERGENCE :YES	4
5	CONVERGENCE :YES	6
6	CONVERGENCE :YES	3
7	CONVERGENCE :YES	5

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME 0.10 [sec]

DATABASE CREATION CPU TIME..... 0.39 [sec]

2.3. Design Assumption : SLE (Rara) - File di Paratie - File di input (.d)

* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: SLE (Rara)

* Time:lunedì 29 luglio 2019 18:00:07

* 1: Defining general settings

UNIT m kN

TITLE New Project

DELTA 0.2

option param itemax 100

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)

WALL LeftWall_32 0 -18 0 1

* 3: Defining surfaces for wall(s)

SOIL 0_L LeftWall_32 -18 0 1 0

SOIL 0_R LeftWall_32 -18 0 2 180

* 4: Defining soil layers

*

* Soil Profile (Strato1_2_8_L_0)

*

LDATA Strato1_2_8_L_0 0 LeftWall_32

ATREST 0.53 1 1

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 406 di 1221
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```
WEIGHT 19 9 10
PERMEABILITY 1E-06
RESISTANCE 0 29
YOUNG 2E+04 6E+04
ENDL
*
* Soil Profile (Strato2_3095_82743_L_0)
*
LDATA Strato2_3095_82743_L_0 -13.1 LeftWall_32
ATREST 0.5 0.5 1
WEIGHT 20 10 10
PERMEABILITY 0.0001
RESISTANCE 20 35
YOUNG 5E+04 1.5E+05
ENDL

* 5: Defining structural materials
* Steel material: 108 Name=Fe360 E=206000200 kPa
MATERIAL Fe360_108 2.06E+08
* Concrete material: 104 Name=C25/30 E=31475800 kPa
MATERIAL C2530_104 3.148E+07
* Rebar material: 124 Name=acciaio armonico E=200100000 kPa
MATERIAL acciaioarmonico_124 2.001E+08
* Concrete material: 103 Name=C20/25 E=29962000 kPa
MATERIAL C2025_103 2.996E+07

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
BEAM WallElement_33 LeftWall_32 -18 0 C2530_104 0.6848 00 00 0

* 6.2: Supports
WIRE Tirante1_429 LeftWall_32 -3 acciaioarmonico_124 1.974E-05 140.9 15 0 0
WIRE Tirante2_1507 LeftWall_32 -9 acciaioarmonico_124 3.159E-05 250 15 0 0

* 6.3: Strips
STRIP LeftWall_32 2 7 0 0.325 39.68 0 49.4 45
STRIP LeftWall_32 2 7 0 40 0 10 30

* 7: Defining Steps
STEP Stage1_31
CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32
CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32
CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32
CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32
CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-COHE=20 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -26 0 -18 0 0
ADD WallElement_33
ENDSTEP

STEP Stage2_755438
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -26 0 -18 0 0
ENDSTEP

STEP Stage3_158
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -3.5
```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
407 di 1221

```

WATER -26 0 -18 0 0
ENDSTEP

STEP Stage4_617
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -3.5
WATER -26 0 -18 0 0
ADD Tirantel_429
ENDSTEP

STEP Stage5_714
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -9.5
WATER -26 0 -18 0 0
ENDSTEP

STEP Stage6_1682
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -9.5
WATER -26 0 -18 0 0
ADD Tirante2_1507
ENDSTEP

STEP Stage7_1779
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -13.1
WATER -26 0 -18 0 0
ENDSTEP

```

2.4. Design Assumption : SLE (Rara) - File di Paratie - File di output (.out)

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+-----+
|          PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION   *Build date:Jul 11, 2017*   |
|          |
|          NewProject.BaseDesignSection_28.SLERara_3454   |
|          Exe Time :29 July 2019   18:00:07   |
+-----+

*****
*          *
* PARATIE PLUS Non-Linear Spring Engine          *
*          *
*          AN ELASTOPLASTIC FINITE ELEMENT PROGRAM   *
*          FOR FLEXIBLE EARTH-RETAINING STRUCTURES   *
*          *
*          Written by Ce.A.S. s.r.l. (ITALY)         *
*          with the scientific supervision of         *
*          Roberto Nova - full professor SOIL MECHANICS *
*          at Politecnico di Milano (ITALY)         *
*          *
*****
*          *
* RELEASE 2017.1   *Build date:Jul 11, 2017*   *          *
*          *
* Ce.A.S.   S.R.L   CENTRO DI ANALISI STRUTTURALE   *
*          VIALE   GIUSTINIANO 10   *
*          20129   M I L A N O (ITALIA)   *
* TEL.      +39 02 2020221   (+39 035 23 67 19)   *
* FAX       +39 02 29512533   (+39 035 42285 49)   *
* email     bruno.becci@ceas.it   *
* Web Page  www.ceas.it   *
*****

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Cepav due



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
408 di 1221

JOB : NewProject.BaseDesignSection_28.SLERara_3454

STARTING

```

ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL_STRESS >
ACCEPTED <PARAM ITEMAX 100 >
ACCEPTED <CONTROL HINGES 0 0.0001 0.001 >

```

```

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

```

PRELIMINARY OPERATIONS CPU TIME 0.01 [sec]

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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.SLERara_3454                       |
|                               Exe Time :29 July 2019    18:00:07                               |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 91
NO. OF COORDINATES (NCOORD) ..... 2
NO. OF NODE DOFS (NDOF) ..... 2
NO. OF EQUATIONS (NEQ) ..... 182
NO. OF CONSTRAINTS CARDS (NVINC) ..... 0
NO. OF ELEMENT GROUPS (NEG) ..... 5
NO. OF SOLUTION STEPS (NSTE) ..... 7
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 109
NO. OF LONG NAMES (LASTNAME) ..... 26
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH ..... 1
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.

```

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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.SLERara_3454                       |
|                               Exe Time :29 July 2019    18:00:07                               |
+-----+

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PREPROCESSOR DATA

NO. OF COMMANDS 109

```

1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 409 di 1221
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```

4 : option param itemax 100
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -18 0 1
7 : SOIL 0_L LeftWall_32 -18 0 1 0
8 : SOIL 0_R LeftWall_32 -18 0 2 180
9 : LDATA Strato1_2_8_L_0 0 LeftWall_32
10 : ATREST 0.53 1 1
11 : WEIGHT 19 9 10
12 : PERMEABILITY 1E-06
13 : RESISTANCE 0 29
14 : YOUNG 2E+04 6E+04
15 : ENDL
16 : LDATA Strato2_3095_82743_L_0 -13.1 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 20 10 10
19 : PERMEABILITY 0.0001
20 : RESISTANCE 20 35
21 : YOUNG 5E+04 1.5E+05
22 : ENDL
23 : MATERIAL Fe360_108 2.06E+08
24 : MATERIAL C2530_104 3.148E+07
25 : MATERIAL acciaioarmonico_124 2.001E+08
26 : MATERIAL C2025_103 2.996E+07
27 : BEAM WallElement_33 LeftWall_32 -18 0 C2530_104 0.6848 00 00 0
28 : WIRE Tirante1_429 LeftWall_32 -3 acciaioarmonico_124 1.974E-05 140.9 15 0 0
29 : WIRE Tirante2_1507 LeftWall_32 -9 acciaioarmonico_124 3.159E-05 250 15 0 0
30 : STRIP LeftWall_32 2 7 0.325 39.68 0 49.4 45
31 : STRIP LeftWall_32 2 7 0 40 0 10 30
32 : STEP Stage1_31
33 : CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32
34 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
35 : CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32
36 : CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32
37 : CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32
38 : CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32
39 : CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32
40 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
41 : CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32
42 : CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32
43 : CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32
44 : CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32
45 : CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
46 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
47 : CHANGE Strato2_3095_82743_L_0 U-COHE=20 LeftWall_32
48 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
49 : SETWALL LeftWall_32
50 : GEOM 0 0
51 : WATER -26 0 -18 0 0
52 : ADD WallElement_33
53 : ENDSTEP
54 : STEP Stage2_755438
55 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
56 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
57 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
58 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
59 : SETWALL LeftWall_32
60 : GEOM 0 0
61 : WATER -26 0 -18 0 0
62 : ENDSTEP
63 : STEP Stage3_158
64 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
65 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
66 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
67 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
68 : SETWALL LeftWall_32
69 : GEOM 0 -3.5
70 : WATER -26 0 -18 0 0
71 : ENDSTEP
72 : STEP Stage4_617
73 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
74 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
75 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
76 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
77 : SETWALL LeftWall_32
78 : GEOM 0 -3.5
79 : WATER -26 0 -18 0 0
80 : ADD Tirante1_429
81 : ENDSTEP
82 : STEP Stage5_714
83 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
84 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
85 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
86 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
87 : SETWALL LeftWall_32
88 : GEOM 0 -9.5

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 410 di 1221
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```

89 : WATER -26 0 -18 0 0
90 : ENDSTEP
91 : STEP Stage6_1682
92 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
93 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
94 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
95 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
96 : SETWALL LeftWall_32
97 : GEOM 0 -9.5
98 : WATER -26 0 -18 0 0
99 : ADD Tirante2_1507
100 : ENDSTEP
101 : STEP Stage7_1779
102 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
103 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
104 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
105 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
106 : SETWALL LeftWall_32
107 : GEOM 0 -13.1
108 : WATER -26 0 -18 0 0
109 : ENDSTEP
    
```

```

-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      18:00:07
|
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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 / NODE
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 -10.2000 /	
53	0.0000 -10.4000 /	54	0.0000 -10.6000 /	55	0.0000 -10.8000 /	56	0.0000 -11.0000 /	
57	0.0000 -11.2000 /	58	0.0000 -11.4000 /	59	0.0000 -11.6000 /	60	0.0000 -11.8000 /	
61	0.0000 -12.0000 /	62	0.0000 -12.2000 /	63	0.0000 -12.4000 /	64	0.0000 -12.6000 /	
65	0.0000 -12.8000 /	66	0.0000 -13.0000 /	67	0.0000 -13.2000 /	68	0.0000 -13.4000 /	
69	0.0000 -13.6000 /	70	0.0000 -13.8000 /	71	0.0000 -14.0000 /	72	0.0000 -14.2000 /	
73	0.0000 -14.4000 /	74	0.0000 -14.6000 /	75	0.0000 -14.8000 /	76	0.0000 -15.0000 /	
77	0.0000 -15.2000 /	78	0.0000 -15.4000 /	79	0.0000 -15.6000 /	80	0.0000 -15.8000 /	
81	0.0000 -16.0000 /	82	0.0000 -16.2000 /	83	0.0000 -16.4000 /	84	0.0000 -16.6000 /	
85	0.0000 -16.8000 /	86	0.0000 -17.0000 /	87	0.0000 -17.2000 /	88	0.0000 -17.4000 /	
89	0.0000 -17.6000 /	90	0.0000 -17.8000 /	91	0.0000 -18.0000 /			

```

-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      18:00:07
|
-----
    
```

```

ELEMENT GROUP NO. 1
0_L :
5 91 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0
.....2D PLASTIC SOIL .....
.....
    
```

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	active

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
411 di 1221

6 active
7 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

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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	0.2000	0.000	0.000	0.000	1.000
28	28	1	0.2000	0.000	0.000	0.000	1.000
29	29	1	0.2000	0.000	0.000	0.000	1.000
30	30	1	0.2000	0.000	0.000	0.000	1.000
31	31	1	0.2000	0.000	0.000	0.000	1.000
32	32	1	0.2000	0.000	0.000	0.000	1.000
33	33	1	0.2000	0.000	0.000	0.000	1.000
34	34	1	0.2000	0.000	0.000	0.000	1.000
35	35	1	0.2000	0.000	0.000	0.000	1.000
36	36	1	0.2000	0.000	0.000	0.000	1.000
37	37	1	0.2000	0.000	0.000	0.000	1.000
38	38	1	0.2000	0.000	0.000	0.000	1.000
39	39	1	0.2000	0.000	0.000	0.000	1.000
40	40	1	0.2000	0.000	0.000	0.000	1.000
41	41	1	0.2000	0.000	0.000	0.000	1.000
42	42	1	0.2000	0.000	0.000	0.000	1.000
43	43	1	0.2000	0.000	0.000	0.000	1.000
44	44	1	0.2000	0.000	0.000	0.000	1.000
45	45	1	0.2000	0.000	0.000	0.000	1.000
46	46	1	0.2000	0.000	0.000	0.000	1.000
47	47	1	0.2000	0.000	0.000	0.000	1.000
48	48	1	0.2000	0.000	0.000	0.000	1.000
49	49	1	0.2000	0.000	0.000	0.000	1.000
50	50	1	0.2000	0.000	0.000	0.000	1.000
51	51	1	0.2000	0.000	0.000	0.000	1.000
52	52	1	0.2000	0.000	0.000	0.000	1.000
53	53	1	0.2000	0.000	0.000	0.000	1.000
54	54	1	0.2000	0.000	0.000	0.000	1.000
55	55	1	0.2000	0.000	0.000	0.000	1.000
56	56	1	0.2000	0.000	0.000	0.000	1.000
57	57	1	0.2000	0.000	0.000	0.000	1.000
58	58	1	0.2000	0.000	0.000	0.000	1.000
59	59	1	0.2000	0.000	0.000	0.000	1.000
60	60	1	0.2000	0.000	0.000	0.000	1.000
61	61	1	0.2000	0.000	0.000	0.000	1.000
62	62	1	0.2000	0.000	0.000	0.000	1.000
63	63	1	0.2000	0.000	0.000	0.000	1.000
64	64	1	0.2000	0.000	0.000	0.000	1.000
65	65	1	0.2000	0.000	0.000	0.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 412 di 1221
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66	66	1	0.2000	0.000	0.000	0.000	1.000
67	67	2	0.2000	0.000	0.000	0.000	1.000
68	68	2	0.2000	0.000	0.000	0.000	1.000
69	69	2	0.2000	0.000	0.000	0.000	1.000
70	70	2	0.2000	0.000	0.000	0.000	1.000
71	71	2	0.2000	0.000	0.000	0.000	1.000
72	72	2	0.2000	0.000	0.000	0.000	1.000
73	73	2	0.2000	0.000	0.000	0.000	1.000
74	74	2	0.2000	0.000	0.000	0.000	1.000
75	75	2	0.2000	0.000	0.000	0.000	1.000
76	76	2	0.2000	0.000	0.000	0.000	1.000
77	77	2	0.2000	0.000	0.000	0.000	1.000
78	78	2	0.2000	0.000	0.000	0.000	1.000
79	79	2	0.2000	0.000	0.000	0.000	1.000
80	80	2	0.2000	0.000	0.000	0.000	1.000
81	81	2	0.2000	0.000	0.000	0.000	1.000
82	82	2	0.2000	0.000	0.000	0.000	1.000
83	83	2	0.2000	0.000	0.000	0.000	1.000
84	84	2	0.2000	0.000	0.000	0.000	1.000
85	85	2	0.2000	0.000	0.000	0.000	1.000
86	86	2	0.2000	0.000	0.000	0.000	1.000
87	87	2	0.2000	0.000	0.000	0.000	1.000
88	88	2	0.2000	0.000	0.000	0.000	1.000
89	89	2	0.2000	0.000	0.000	0.000	1.000
90	90	2	0.2000	0.000	0.000	0.000	1.000
91	91	2	0.1000	0.000	0.000	0.000	1.000

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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:00:07  |
+-----+

```

```

ELEMENT GROUP NO.  2

0_R
:
5 91 0 1 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0

```

.....2D PLASTIC SOIL

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	active
6	active
7	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

```

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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.								Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 413 di 1221
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	1	0.2000	0.000	0.000	0.000	2.000					
22	22	1	0.2000	0.000	0.000	0.000	2.000					
23	23	1	0.2000	0.000	0.000	0.000	2.000					
24	24	1	0.2000	0.000	0.000	0.000	2.000					
25	25	1	0.2000	0.000	0.000	0.000	2.000					
26	26	1	0.2000	0.000	0.000	0.000	2.000					
27	27	1	0.2000	0.000	0.000	0.000	2.000					
28	28	1	0.2000	0.000	0.000	0.000	2.000					
29	29	1	0.2000	0.000	0.000	0.000	2.000					
30	30	1	0.2000	0.000	0.000	0.000	2.000					
31	31	1	0.2000	0.000	0.000	0.000	2.000					
32	32	1	0.2000	0.000	0.000	0.000	2.000					
33	33	1	0.2000	0.000	0.000	0.000	2.000					
34	34	1	0.2000	0.000	0.000	0.000	2.000					
35	35	1	0.2000	0.000	0.000	0.000	2.000					
36	36	1	0.2000	0.000	0.000	0.000	2.000					
37	37	1	0.2000	0.000	0.000	0.000	2.000					
38	38	1	0.2000	0.000	0.000	0.000	2.000					
39	39	1	0.2000	0.000	0.000	0.000	2.000					
40	40	1	0.2000	0.000	0.000	0.000	2.000					
41	41	1	0.2000	0.000	0.000	0.000	2.000					
42	42	1	0.2000	0.000	0.000	0.000	2.000					
43	43	1	0.2000	0.000	0.000	0.000	2.000					
44	44	1	0.2000	0.000	0.000	0.000	2.000					
45	45	1	0.2000	0.000	0.000	0.000	2.000					
46	46	1	0.2000	0.000	0.000	0.000	2.000					
47	47	1	0.2000	0.000	0.000	0.000	2.000					
48	48	1	0.2000	0.000	0.000	0.000	2.000					
49	49	1	0.2000	0.000	0.000	0.000	2.000					
50	50	1	0.2000	0.000	0.000	0.000	2.000					
51	51	1	0.2000	0.000	0.000	0.000	2.000					
52	52	1	0.2000	0.000	0.000	0.000	2.000					
53	53	1	0.2000	0.000	0.000	0.000	2.000					
54	54	1	0.2000	0.000	0.000	0.000	2.000					
55	55	1	0.2000	0.000	0.000	0.000	2.000					
56	56	1	0.2000	0.000	0.000	0.000	2.000					
57	57	1	0.2000	0.000	0.000	0.000	2.000					
58	58	1	0.2000	0.000	0.000	0.000	2.000					
59	59	1	0.2000	0.000	0.000	0.000	2.000					
60	60	1	0.2000	0.000	0.000	0.000	2.000					
61	61	1	0.2000	0.000	0.000	0.000	2.000					
62	62	1	0.2000	0.000	0.000	0.000	2.000					
63	63	1	0.2000	0.000	0.000	0.000	2.000					
64	64	1	0.2000	0.000	0.000	0.000	2.000					
65	65	1	0.2000	0.000	0.000	0.000	2.000					
66	66	1	0.2000	0.000	0.000	0.000	2.000					
67	67	2	0.2000	0.000	0.000	0.000	2.000					
68	68	2	0.2000	0.000	0.000	0.000	2.000					
69	69	2	0.2000	0.000	0.000	0.000	2.000					
70	70	2	0.2000	0.000	0.000	0.000	2.000					
71	71	2	0.2000	0.000	0.000	0.000	2.000					
72	72	2	0.2000	0.000	0.000	0.000	2.000					
73	73	2	0.2000	0.000	0.000	0.000	2.000					
74	74	2	0.2000	0.000	0.000	0.000	2.000					
75	75	2	0.2000	0.000	0.000	0.000	2.000					
76	76	2	0.2000	0.000	0.000	0.000	2.000					
77	77	2	0.2000	0.000	0.000	0.000	2.000					
78	78	2	0.2000	0.000	0.000	0.000	2.000					
79	79	2	0.2000	0.000	0.000	0.000	2.000					
80	80	2	0.2000	0.000	0.000	0.000	2.000					
81	81	2	0.2000	0.000	0.000	0.000	2.000					
82	82	2	0.2000	0.000	0.000	0.000	2.000					
83	83	2	0.2000	0.000	0.000	0.000	2.000					
84	84	2	0.2000	0.000	0.000	0.000	2.000					
85	85	2	0.2000	0.000	0.000	0.000	2.000					
86	86	2	0.2000	0.000	0.000	0.000	2.000					
87	87	2	0.2000	0.000	0.000	0.000	2.000					
88	88	2	0.2000	0.000	0.000	0.000	2.000					
89	89	2	0.2000	0.000	0.000	0.000	2.000					
90	90	2	0.2000	0.000	0.000	0.000	2.000					
91	91	2	0.1000	0.000	0.000	0.000	2.000					



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 414 di 1221
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|
|                               NewProject.BaseDesignSection_28.SLERara_3454
|                               Exe Time :29 July 2019      18:00:07
|-----+

```

ELEMENT GROUP NO. 3

```

Wallelement_33 :
 2 90 0 1 0 0 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
4	active
5	active
6	active
7	active

material set no. 1

```

prop( 1) young modulus      0.314800E+08
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future .....0.308300E-43

```

no. of step variable items: 1
step inertia multiplier

1	1.000
2	1.000
3	1.000
4	1.000
5	1.000
6	1.000
7	1.000

element data

el	na	nb	mat	erc1	erc2	thick	by-i	by-j
1	1	2	1	0.000	0.000	0.6848	0.000	0.000
2	2	3	1	0.000	0.000	0.6848	0.000	0.000
3	3	4	1	0.000	0.000	0.6848	0.000	0.000
4	4	5	1	0.000	0.000	0.6848	0.000	0.000
5	5	6	1	0.000	0.000	0.6848	0.000	0.000
6	6	7	1	0.000	0.000	0.6848	0.000	0.000
7	7	8	1	0.000	0.000	0.6848	0.000	0.000
8	8	9	1	0.000	0.000	0.6848	0.000	0.000
9	9	10	1	0.000	0.000	0.6848	0.000	0.000
10	10	11	1	0.000	0.000	0.6848	0.000	0.000
11	11	12	1	0.000	0.000	0.6848	0.000	0.000
12	12	13	1	0.000	0.000	0.6848	0.000	0.000
13	13	14	1	0.000	0.000	0.6848	0.000	0.000
14	14	15	1	0.000	0.000	0.6848	0.000	0.000
15	15	16	1	0.000	0.000	0.6848	0.000	0.000
16	16	17	1	0.000	0.000	0.6848	0.000	0.000
17	17	18	1	0.000	0.000	0.6848	0.000	0.000
18	18	19	1	0.000	0.000	0.6848	0.000	0.000
19	19	20	1	0.000	0.000	0.6848	0.000	0.000
20	20	21	1	0.000	0.000	0.6848	0.000	0.000
21	21	22	1	0.000	0.000	0.6848	0.000	0.000
22	22	23	1	0.000	0.000	0.6848	0.000	0.000
23	23	24	1	0.000	0.000	0.6848	0.000	0.000
24	24	25	1	0.000	0.000	0.6848	0.000	0.000
25	25	26	1	0.000	0.000	0.6848	0.000	0.000
26	26	27	1	0.000	0.000	0.6848	0.000	0.000
27	27	28	1	0.000	0.000	0.6848	0.000	0.000
28	28	29	1	0.000	0.000	0.6848	0.000	0.000
29	29	30	1	0.000	0.000	0.6848	0.000	0.000
30	30	31	1	0.000	0.000	0.6848	0.000	0.000
31	31	32	1	0.000	0.000	0.6848	0.000	0.000
32	32	33	1	0.000	0.000	0.6848	0.000	0.000
33	33	34	1	0.000	0.000	0.6848	0.000	0.000
34	34	35	1	0.000	0.000	0.6848	0.000	0.000
35	35	36	1	0.000	0.000	0.6848	0.000	0.000
36	36	37	1	0.000	0.000	0.6848	0.000	0.000
37	37	38	1	0.000	0.000	0.6848	0.000	0.000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 415 di 1221
---------	------------------	-------------	---	-----------	-----------------------

38	38	39	1	0.000	0.000	0.6848	0.000	0.000
39	39	40	1	0.000	0.000	0.6848	0.000	0.000
40	40	41	1	0.000	0.000	0.6848	0.000	0.000
41	41	42	1	0.000	0.000	0.6848	0.000	0.000
42	42	43	1	0.000	0.000	0.6848	0.000	0.000
43	43	44	1	0.000	0.000	0.6848	0.000	0.000
44	44	45	1	0.000	0.000	0.6848	0.000	0.000
45	45	46	1	0.000	0.000	0.6848	0.000	0.000
46	46	47	1	0.000	0.000	0.6848	0.000	0.000
47	47	48	1	0.000	0.000	0.6848	0.000	0.000
48	48	49	1	0.000	0.000	0.6848	0.000	0.000
49	49	50	1	0.000	0.000	0.6848	0.000	0.000
50	50	51	1	0.000	0.000	0.6848	0.000	0.000
51	51	52	1	0.000	0.000	0.6848	0.000	0.000
52	52	53	1	0.000	0.000	0.6848	0.000	0.000
53	53	54	1	0.000	0.000	0.6848	0.000	0.000
54	54	55	1	0.000	0.000	0.6848	0.000	0.000
55	55	56	1	0.000	0.000	0.6848	0.000	0.000
56	56	57	1	0.000	0.000	0.6848	0.000	0.000
57	57	58	1	0.000	0.000	0.6848	0.000	0.000
58	58	59	1	0.000	0.000	0.6848	0.000	0.000
59	59	60	1	0.000	0.000	0.6848	0.000	0.000
60	60	61	1	0.000	0.000	0.6848	0.000	0.000
61	61	62	1	0.000	0.000	0.6848	0.000	0.000
62	62	63	1	0.000	0.000	0.6848	0.000	0.000
63	63	64	1	0.000	0.000	0.6848	0.000	0.000
64	64	65	1	0.000	0.000	0.6848	0.000	0.000
65	65	66	1	0.000	0.000	0.6848	0.000	0.000
66	66	67	1	0.000	0.000	0.6848	0.000	0.000
67	67	68	1	0.000	0.000	0.6848	0.000	0.000
68	68	69	1	0.000	0.000	0.6848	0.000	0.000
69	69	70	1	0.000	0.000	0.6848	0.000	0.000
70	70	71	1	0.000	0.000	0.6848	0.000	0.000
71	71	72	1	0.000	0.000	0.6848	0.000	0.000
72	72	73	1	0.000	0.000	0.6848	0.000	0.000
73	73	74	1	0.000	0.000	0.6848	0.000	0.000
74	74	75	1	0.000	0.000	0.6848	0.000	0.000
75	75	76	1	0.000	0.000	0.6848	0.000	0.000
76	76	77	1	0.000	0.000	0.6848	0.000	0.000
77	77	78	1	0.000	0.000	0.6848	0.000	0.000
78	78	79	1	0.000	0.000	0.6848	0.000	0.000
79	79	80	1	0.000	0.000	0.6848	0.000	0.000
80	80	81	1	0.000	0.000	0.6848	0.000	0.000
81	81	82	1	0.000	0.000	0.6848	0.000	0.000
82	82	83	1	0.000	0.000	0.6848	0.000	0.000
83	83	84	1	0.000	0.000	0.6848	0.000	0.000
84	84	85	1	0.000	0.000	0.6848	0.000	0.000
85	85	86	1	0.000	0.000	0.6848	0.000	0.000
86	86	87	1	0.000	0.000	0.6848	0.000	0.000
87	87	88	1	0.000	0.000	0.6848	0.000	0.000
88	88	89	1	0.000	0.000	0.6848	0.000	0.000
89	89	90	1	0.000	0.000	0.6848	0.000	0.000
90	90	91	1	0.000	0.000	0.6848	0.000	0.000

```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.SLERara_3454                       |
|                               Exe Time :29 July 2019      18:00:07                             |
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```

ELEMENT GROUP NO. 4

Tirantel_429 :

6 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0

.....2D POST-TENSION ANCHOR.....

.....

element group behaviour throughout stage analysis

stage	status
1	inactive
2	inactive
3	inactive
4	active
5	active
6	active
7	active

material set no. 1

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
416 di 1221

```

prop( 1) angle          15.0000
prop( 2) young modulus  0.200100E+09
prop( 3) modification time 0.000000
prop( 4) new young modulus 0.000000

```

```

no. of step variable items: 2
step  -ve lim  +ve lim
-----

```

step	-ve lim	+ve lim
1	0.000	0.000
2	0.000	0.000
3	0.000	0.000
4	0.000	0.000
5	0.000	0.000
6	0.000	0.000
7	0.000	0.000

element data

el	n	mat	a/l	pinit	yieldc	yieldt
1	16	1	0.1974E-04	140.9	0.000	0.000

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.SLERara_3454                       |
|                               Exe Time :29 July 2019    18:00:07                               |
+-----+

```

ELEMENT GROUP NO. 5

```

Tirante2_1507
6 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0
.....2D POST-TENSION ANCHOR....
.....

```

element group behaviour throughout stage analysis

stage	status
1	inactive
2	inactive
3	inactive
4	inactive
5	inactive
6	active
7	active

material set no. 1

```

prop( 1) angle          15.0000
prop( 2) young modulus  0.200100E+09
prop( 3) modification time 0.000000
prop( 4) new young modulus 0.000000

```

```

no. of step variable items: 2
step  -ve lim  +ve lim
-----

```

step	-ve lim	+ve lim
1	0.000	0.000
2	0.000	0.000
3	0.000	0.000
4	0.000	0.000
5	0.000	0.000
6	0.000	0.000
7	0.000	0.000

element data

el	n	mat	a/l	pinit	yieldc	yieldt
1	46	1	0.3159E-04	250.0	0.000	0.000

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.SLERara_3454                       |
|                               Exe Time :29 July 2019    18:00:07                               |
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
417 di 1221

NO. OF NODAL LOADS (NLOAD) 0
NO. OF LOAD CURVES (NLCUR) 14
MAXIMUM POINTS/LCURVE (NPTM) 5

| PARATIEPLUS(TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| | |
| NewProject.BaseDesignSection_28.SLERara_3454 |
Exe Time :29 July 2019 18:00:07

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
8.00000	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
8.00000	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
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
4.20000	0.0000E+00
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
5.20000	0.0000E+00
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 6

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
418 di 1221

NUMBER OF TIME POINTS = 5

TIME VALUE FUNCTION

0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
6.20000	0.0000E+00
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 5

TIME VALUE FUNCTION

0.00000	0.0000E+00
6.80000	0.0000E+00
7.00000	0.1000E+01
7.20000	0.0000E+00
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 11
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 12
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
8.00000	0.1000E+01

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 419 di 1221
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LOAD FUNCTION NUMBER = 13
 NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 14
 NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
6.80000	0.0000E+00
7.00000	0.1000E+01
8.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:00:07  |
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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
STEP	4	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	4	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	6	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	6	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	7	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	7	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:00:07  |
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```

NO. OF LAYERS 2
 NO. OF DATA PER LAYER..... 100

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:00:07  |
+-----+

```

LAYER DESCRIPTORS FOR STEP NO. 1

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 420 di 1221
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NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



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E E2 CL GA 2701 002Rev.
AFoglio
421 di 1221

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

ITEM NO.	1<NAME	>= 19.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -13.100	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 20.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 20.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.23500	WALL NO.	1
ITEM NO.	11<U-KP	>= 5.8790	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	>= 50000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>	= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 20.000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.23500	WALL NO.	1
ITEM NO.	61<D-KP	>= 5.8790	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO.	1<NAME	>= 18.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(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.	9<U-FRICT	>= 29.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.30400	WALL NO.	1
ITEM NO.	11<U-KP	>= 4.0410	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.53000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 1.0000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 20000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 60000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-05	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>	= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 29.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.30400	WALL NO.	1
ITEM NO.	61<D-KP	>= 4.0410	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-05	(BOTH WALLS)	

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

ITEM NO.	1<NAME	>= 19.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -13.100	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 20.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 20.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.23500	WALL NO.	1
ITEM NO.	11<U-KP	>= 5.8790	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	>= 50000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>	= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 20.000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.23500	WALL NO.	1
ITEM NO.	61<D-KP	>= 5.8790	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

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LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 5

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



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AFoglio
423 di 1221

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 5

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 6

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 6

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 6

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

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Codifica Documento
E E2 CL GA 2701 002

Rev.
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424 di 1221

LAYER DESCRIPTORS FOR STEP NO. 7

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 7

ITEM NO.	1<NAME	>= 18.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(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.	9<U-FRICT	>= 29.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.30400	WALL NO.	1
ITEM NO.	11<U-KP	>= 4.0410	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.53000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 1.0000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 20000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 60000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-05	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>=	1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 29.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.30400	WALL NO.	1
ITEM NO.	61<D-KP	>= 4.0410	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-05	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 7

ITEM NO.	1<NAME	>= 19.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -13.100	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 20.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 20.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.23500	WALL NO.	1
ITEM NO.	11<U-KP	>= 5.8790	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	>= 50000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>=	1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 20.000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.23500	WALL NO.	1
ITEM NO.	61<D-KP	>= 5.8790	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

DEFAULT WATER UNIT WEIGHT = 10.000
AVERAGED ON 14 VALUES

GENERAL CONTRACTOR



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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
425 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:00:07  |
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PHASE DESCRIPTORS

STEP NO.	1	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
426 di 1221

=====end of step 2

STEP NO.	3	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-3.500	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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

STEP NO.	4	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-3.500	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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 4

STEP NO.	5	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-9.500	0.000

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 427 di 1221
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Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-18.00	-18.00
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 5

STEP NO.	6		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-9.500	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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 6

STEP NO.	7		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-13.10	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
WATER_BEHAVIOUR_FLAG (LINING OPT)		0.000	0.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 428 di 1221
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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 7

LEFT-HAND WALL

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LOWER LEVEL      -18.00000
UPPER LEVEL      0.00000
    
```

RIGHT-HAND WALL

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LOWER LEVEL      -18.00000
UPPER LEVEL      0.00000
    
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                    |
|                                                                    |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:00:07  |
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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 2

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

ACTIVATION TIME 2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 7.0000

TYPE BOUSSINESQ

```

HORIZONTAL DISTANCE (DY)                      0.3250000000000000
FOUNDATION WIDTH        (B)                    39.68000000000000
ZETA-F.....                                    0.0000000000000000E+000
Q-F .....                                        49.40000000000000
BETA .....                                        45.00000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING)            0.0000000000000000E+000
    
```

INPUT DATA FOR INITIAL STRESS SET NO. 2
PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

ACTIVATION TIME 2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 7.0000

TYPE BOUSSINESQ

```

HORIZONTAL DISTANCE (DY)                      0.0000000000000000E+000
FOUNDATION WIDTH        (B)                    40.00000000000000
ZETA-F.....                                    0.0000000000000000E+000
Q-F .....                                        10.00000000000000
BETA .....                                        30.00000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING)            0.0000000000000000E+000
    
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GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
429 di 1221

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION 4903

NO. OF D.P.W FOR THIS AREA 10857
MAX NO. OF D.P.W. AVAILABLE 81920
** MAX NO OF ITERATIONS SET TO 100

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7368E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 34.29 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7368E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 182 NODE 91 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7368E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 34.29 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7368E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 182 NODE 91 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7368E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 34.29 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7368E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 182 NODE 91 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| | |
| NewProject.BaseDesignSection_28.SLERara_3454 |
Exe Time :29 July 2019 18:00:07

New Project
SOLUTION REACHED USING 2 ITERATIONS ON 100
PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)
Y-DISPL.F X-ROT. F
(02) (04) (

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| | |
| NewProject.BaseDesignSection_28.SLERara_3454 |
Exe Time :29 July 2019 18:00:07

New Project
STRESS RESULTS FOR GROUP NO. 1
0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 1.0000
HARDENING 2D SOIL ELEMENT

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 431 di 1221						
40 D	15.71	0.000	148.2 78.55	148.2	78.55	V-C	1.4147E+04	-7.800	0.000	1.000	1.000
78.55	0.000	0.000	Strato1_2_8_L_0								
41 D	16.11	0.000	152.0 80.56	152.0	80.56	V-C	1.4147E+04	-8.000	0.000	1.000	1.000
80.56	0.000	0.000	Strato1_2_8_L_0								
42 D	16.51	0.000	155.8 82.57	155.8	82.57	V-C	1.4147E+04	-8.200	0.000	1.000	1.000
82.57	0.000	0.000	Strato1_2_8_L_0								
43 D	16.92	0.000	159.6 84.59	159.6	84.59	V-C	1.4147E+04	-8.400	0.000	1.000	1.000
84.59	0.000	0.000	Strato1_2_8_L_0								
44 D	17.32	0.000	163.4 86.60	163.4	86.60	V-C	1.4147E+04	-8.600	0.000	1.000	1.000
86.60	0.000	0.000	Strato1_2_8_L_0								
45 D	17.72	0.000	167.2 88.62	167.2	88.62	V-C	1.4147E+04	-8.800	0.000	1.000	1.000
88.62	0.000	0.000	Strato1_2_8_L_0								
46 D	18.13	0.000	171.0 90.63	171.0	90.63	V-C	1.4147E+04	-9.000	0.000	1.000	1.000
90.63	0.000	0.000	Strato1_2_8_L_0								
47 D	18.53	0.000	174.8 92.64	174.8	92.64	V-C	1.4147E+04	-9.200	0.000	1.000	1.000
92.64	0.000	0.000	Strato1_2_8_L_0								
48 D	18.93	0.000	178.6 94.66	178.6	94.66	V-C	1.4147E+04	-9.400	0.000	1.000	1.000
94.66	0.000	0.000	Strato1_2_8_L_0								
49 D	19.33	0.000	182.4 96.67	182.4	96.67	V-C	1.4147E+04	-9.600	0.000	1.000	1.000
96.67	0.000	0.000	Strato1_2_8_L_0								
50 D	19.74	0.000	186.2 98.69	186.2	98.69	V-C	1.4147E+04	-9.800	0.000	1.000	1.000
98.69	0.000	0.000	Strato1_2_8_L_0								
51 D	20.14	0.000	190.0 100.7	190.0	100.7	V-C	1.4147E+04	-10.00	0.000	1.000	1.000
100.7	0.000	0.000	Strato1_2_8_L_0								
52 D	20.54	0.000	193.8 102.7	193.8	102.7	V-C	1.4147E+04	-10.20	0.000	1.000	1.000
102.7	0.000	0.000	Strato1_2_8_L_0								
53 D	20.95	0.000	197.6 104.7	197.6	104.7	V-C	1.4147E+04	-10.40	0.000	1.000	1.000
104.7	0.000	0.000	Strato1_2_8_L_0								
54 D	21.35	0.000	201.4 106.7	201.4	106.7	V-C	1.4147E+04	-10.60	0.000	1.000	1.000
106.7	0.000	0.000	Strato1_2_8_L_0								
55 D	21.75	0.000	205.2 108.8	205.2	108.8	V-C	1.4147E+04	-10.80	0.000	1.000	1.000
108.8	0.000	0.000	Strato1_2_8_L_0								
56 D	22.15	0.000	209.0 110.8	209.0	110.8	V-C	1.4147E+04	-11.00	0.000	1.000	1.000
110.8	0.000	0.000	Strato1_2_8_L_0								
57 D	22.56	0.000	212.8 112.8	212.8	112.8	V-C	1.4147E+04	-11.20	0.000	1.000	1.000
112.8	0.000	0.000	Strato1_2_8_L_0								
58 D	22.96	0.000	216.6 114.8	216.6	114.8	V-C	1.4147E+04	-11.40	0.000	1.000	1.000
114.8	0.000	0.000	Strato1_2_8_L_0								
59 D	23.36	0.000	220.4 116.8	220.4	116.8	V-C	1.4147E+04	-11.60	0.000	1.000	1.000
116.8	0.000	0.000	Strato1_2_8_L_0								
60 D	23.77	0.000	224.2 118.8	224.2	118.8	V-C	1.4147E+04	-11.80	0.000	1.000	1.000
118.8	0.000	0.000	Strato1_2_8_L_0								
61 D	24.17	0.000	228.0 120.8	228.0	120.8	V-C	1.4147E+04	-12.00	0.000	1.000	1.000
120.8	0.000	0.000	Strato1_2_8_L_0								
62 D	24.57	0.000	231.8 122.9	231.8	122.9	V-C	1.4147E+04	-12.20	0.000	1.000	1.000
122.9	0.000	0.000	Strato1_2_8_L_0								
63 D	24.97	0.000	235.6 124.9	235.6	124.9	V-C	1.4147E+04	-12.40	0.000	1.000	1.000
124.9	0.000	0.000	Strato1_2_8_L_0								
64 D	25.38	0.000	239.4 126.9	239.4	126.9	V-C	1.4147E+04	-12.60	0.000	1.000	1.000
126.9	0.000	0.000	Strato1_2_8_L_0								
65 D	25.78	0.000	243.2 128.9	243.2	128.9	V-C	1.4147E+04	-12.80	0.000	1.000	1.000
128.9	0.000	0.000	Strato1_2_8_L_0								
66 D	26.18	0.000	247.0 130.9	247.0	130.9	V-C	1.4147E+04	-13.00	0.000	1.000	1.000
130.9	0.000	0.000	Strato1_2_8_L_0								
67 D	25.09	0.000	250.9 125.5	250.9	125.5	V-C	4.0020E+04	-13.20	0.000	1.000	1.000
125.5	0.000	0.000	Strato2_3095_82743_L_0								
68 D	25.49	0.000	254.9 127.5	254.9	127.5	V-C	4.0020E+04	-13.40	0.000	1.000	1.000
127.5	0.000	0.000	Strato2_3095_82743_L_0								
69 D	25.89	0.000	258.9 129.4	258.9	129.4	V-C	4.0020E+04	-13.60	0.000	1.000	1.000
129.4	0.000	0.000	Strato2_3095_82743_L_0								
70 D	26.29	0.000	262.9 131.5	262.9	131.5	V-C	4.0020E+04	-13.80	0.000	1.000	1.000
131.5	0.000	0.000	Strato2_3095_82743_L_0								
71 D	26.69	0.000	266.9 133.5	266.9	133.5	V-C	4.0020E+04	-14.00	0.000	1.000	1.000
133.5	0.000	0.000	Strato2_3095_82743_L_0								
72 D	27.09	0.000	270.9 135.4	270.9	135.4	V-C	4.0020E+04	-14.20	0.000	1.000	1.000
135.4	0.000	0.000	Strato2_3095_82743_L_0								
73 D	27.49	0.000	274.9 137.4	274.9	137.4	V-C	4.0020E+04	-14.40	0.000	1.000	1.000
137.4	0.000	0.000	Strato2_3095_82743_L_0								
74 D	27.89	0.000	278.9 139.4	278.9	139.4	V-C	4.0020E+04	-14.60	0.000	1.000	1.000
139.4	0.000	0.000	Strato2_3095_82743_L_0								
75 D	28.29	0.000	282.9 141.4	282.9	141.4	V-C	4.0020E+04	-14.80	0.000	1.000	1.000
141.4	0.000	0.000	Strato2_3095_82743_L_0								
76 D	28.69	0.000	286.9 143.4	286.9	143.4	V-C	4.0020E+04	-15.00	0.000	1.000	1.000
143.4	0.000	0.000	Strato2_3095_82743_L_0								
77 D	29.09	0.000	290.9 145.4	290.9	145.4	V-C	4.0020E+04	-15.20	0.000	1.000	1.000
145.4	0.000	0.000	Strato2_3095_82743_L_0								
78 D	29.49	0.000	294.9 147.4	294.9	147.4	V-C	4.0020E+04	-15.40	0.000	1.000	1.000
147.4	0.000	0.000	Strato2_3095_82743_L_0								
79 D	29.89	0.000	298.9 149.4	298.9	149.4	V-C	4.0020E+04	-15.60	0.000	1.000	1.000
149.4	0.000	0.000	Strato2_3095_82743_L_0								
80 D	30.29	0.000	302.9 151.4	302.9	151.4	V-C	4.0020E+04	-15.80	0.000	1.000	1.000
151.4	0.000	0.000	Strato2_3095_82743_L_0								
81 D	30.69	0.000	306.9 153.4	306.9	153.4	V-C	4.0020E+04	-16.00	0.000	1.000	1.000
153.4	0.000	0.000	Strato2_3095_82743_L_0								
82 D	31.09	0.000	310.9 155.4	310.9	155.4	V-C	4.0020E+04	-16.20	0.000	1.000	1.000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 432 di 1221
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155.4	0.000	0.000	Strato2_3095_82743_L_0									
83 D	31.49	0.000	314.9	157.4	314.9	157.4	V-C	4.0020E+04	-16.40	0.000	1.000	1.000
157.4	0.000	0.000	Strato2_3095_82743_L_0									
84 D	31.89	0.000	318.9	159.4	318.9	159.4	V-C	4.0020E+04	-16.60	0.000	1.000	1.000
159.4	0.000	0.000	Strato2_3095_82743_L_0									
85 D	32.29	0.000	322.9	161.5	322.9	161.5	V-C	4.0020E+04	-16.80	0.000	1.000	1.000
161.5	0.000	0.000	Strato2_3095_82743_L_0									
86 D	32.69	0.000	326.9	163.4	326.9	163.4	V-C	4.0020E+04	-17.00	0.000	1.000	1.000
163.4	0.000	0.000	Strato2_3095_82743_L_0									
87 D	33.09	0.000	330.9	165.4	330.9	165.4	V-C	4.0020E+04	-17.20	0.000	1.000	1.000
165.4	0.000	0.000	Strato2_3095_82743_L_0									
88 D	33.49	0.000	334.9	167.4	334.9	167.4	V-C	4.0020E+04	-17.40	0.000	1.000	1.000
167.4	0.000	0.000	Strato2_3095_82743_L_0									
89 D	33.89	0.000	338.9	169.5	338.9	169.5	V-C	4.0020E+04	-17.60	0.000	1.000	1.000
169.5	0.000	0.000	Strato2_3095_82743_L_0									
90 D	34.29	0.000	342.9	171.5	342.9	171.5	V-C	4.0020E+04	-17.80	0.000	1.000	1.000
171.5	0.000	0.000	Strato2_3095_82743_L_0									
91 D	17.34	0.000	346.9	173.4	346.9	173.4	V-C	4.0020E+04	-18.00	0.000	1.000	1.000
173.4	0.000	0.000	Strato2_3095_82743_L_0									

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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
|                                     NewProject.BaseDesignSection_28.SLERara_3454  |
|                                     Exe Time :29 July 2019  18:00:07  |
+-----+
    
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 1.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	9817.	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_2_8_L_0									
2 D	0.4028	0.000	3.800	2.014	3.800	2.014	V-C	9817.	-0.2000	0.000	1.000	1.000
2.014	0.000	0.000	Strato1_2_8_L_0									
3 D	0.8056	0.000	7.600	4.028	7.600	4.028	V-C	9817.	-0.4000	0.000	1.000	1.000
4.028	0.000	0.000	Strato1_2_8_L_0									
4 D	1.208	0.000	11.40	6.042	11.40	6.042	V-C	9817.	-0.6000	0.000	1.000	1.000
6.042	0.000	0.000	Strato1_2_8_L_0									
5 D	1.611	0.000	15.20	8.056	15.20	8.056	V-C	9817.	-0.8000	0.000	1.000	1.000
8.056	0.000	0.000	Strato1_2_8_L_0									
6 D	2.014	0.000	19.00	10.07	19.00	10.07	V-C	9817.	-1.000	0.000	1.000	1.000
10.07	0.000	0.000	Strato1_2_8_L_0									
7 D	2.417	0.000	22.80	12.08	22.80	12.08	V-C	9817.	-1.200	0.000	1.000	1.000
12.08	0.000	0.000	Strato1_2_8_L_0									
8 D	2.820	0.000	26.60	14.10	26.60	14.10	V-C	9817.	-1.400	0.000	1.000	1.000
14.10	0.000	0.000	Strato1_2_8_L_0									
9 D	3.222	0.000	30.40	16.11	30.40	16.11	V-C	9817.	-1.600	0.000	1.000	1.000
16.11	0.000	0.000	Strato1_2_8_L_0									
10 D	3.625	0.000	34.20	18.13	34.20	18.13	V-C	9817.	-1.800	0.000	1.000	1.000
18.13	0.000	0.000	Strato1_2_8_L_0									
11 D	4.028	0.000	38.00	20.14	38.00	20.14	V-C	9817.	-2.000	0.000	1.000	1.000
20.14	0.000	0.000	Strato1_2_8_L_0									
12 D	4.431	0.000	41.80	22.15	41.80	22.15	V-C	9817.	-2.200	0.000	1.000	1.000
22.15	0.000	0.000	Strato1_2_8_L_0									
13 D	4.834	0.000	45.60	24.17	45.60	24.17	V-C	9817.	-2.400	0.000	1.000	1.000
24.17	0.000	0.000	Strato1_2_8_L_0									
14 D	5.236	0.000	49.40	26.18	49.40	26.18	V-C	9817.	-2.600	0.000	1.000	1.000
26.18	0.000	0.000	Strato1_2_8_L_0									
15 D	5.639	0.000	53.20	28.20	53.20	28.20	V-C	9817.	-2.800	0.000	1.000	1.000
28.20	0.000	0.000	Strato1_2_8_L_0									
16 D	6.042	0.000	57.00	30.21	57.00	30.21	V-C	9817.	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Strato1_2_8_L_0									
17 D	6.445	0.000	60.80	32.22	60.80	32.22	V-C	9817.	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Strato1_2_8_L_0									
18 D	6.848	0.000	64.60	34.24	64.60	34.24	V-C	9817.	-3.400	0.000	1.000	1.000
34.24	0.000	0.000	Strato1_2_8_L_0									
19 D	7.250	0.000	68.40	36.25	68.40	36.25	V-C	9817.	-3.600	0.000	1.000	1.000
36.25	0.000	0.000	Strato1_2_8_L_0									
20 D	7.653	0.000	72.20	38.27	72.20	38.27	V-C	9817.	-3.800	0.000	1.000	1.000

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 433 di 1221
38.27	0.000	0.000	Strato1_2_8_L_0		
21 D	8.056	0.000	76.00 40.28	76.00	40.28
40.28	0.000	0.000	Strato1_2_8_L_0		
22 D	8.459	0.000	79.80 42.29	79.80	42.29
42.29	0.000	0.000	Strato1_2_8_L_0		
23 D	8.862	0.000	83.60 44.31	83.60	44.31
44.31	0.000	0.000	Strato1_2_8_L_0		
24 D	9.264	0.000	87.40 46.32	87.40	46.32
46.32	0.000	0.000	Strato1_2_8_L_0		
25 D	9.667	0.000	91.20 48.34	91.20	48.34
48.34	0.000	0.000	Strato1_2_8_L_0		
26 D	10.07	0.000	95.00 50.35	95.00	50.35
50.35	0.000	0.000	Strato1_2_8_L_0		
27 D	10.47	0.000	98.80 52.36	98.80	52.36
52.36	0.000	0.000	Strato1_2_8_L_0		
28 D	10.88	0.000	102.6 54.38	102.6	54.38
54.38	0.000	0.000	Strato1_2_8_L_0		
29 D	11.28	0.000	106.4 56.39	106.4	56.39
56.39	0.000	0.000	Strato1_2_8_L_0		
30 D	11.68	0.000	110.2 58.41	110.2	58.41
58.41	0.000	0.000	Strato1_2_8_L_0		
31 D	12.08	0.000	114.0 60.42	114.0	60.42
60.42	0.000	0.000	Strato1_2_8_L_0		
32 D	12.49	0.000	117.8 62.43	117.8	62.43
62.43	0.000	0.000	Strato1_2_8_L_0		
33 D	12.89	0.000	121.6 64.45	121.6	64.45
64.45	0.000	0.000	Strato1_2_8_L_0		
34 D	13.29	0.000	125.4 66.46	125.4	66.46
66.46	0.000	0.000	Strato1_2_8_L_0		
35 D	13.70	0.000	129.2 68.48	129.2	68.48
68.48	0.000	0.000	Strato1_2_8_L_0		
36 D	14.10	0.000	133.0 70.49	133.0	70.49
70.49	0.000	0.000	Strato1_2_8_L_0		
37 D	14.50	0.000	136.8 72.50	136.8	72.50
72.50	0.000	0.000	Strato1_2_8_L_0		
38 D	14.90	0.000	140.6 74.52	140.6	74.52
74.52	0.000	0.000	Strato1_2_8_L_0		
39 D	15.31	0.000	144.4 76.53	144.4	76.53
76.53	0.000	0.000	Strato1_2_8_L_0		
40 D	15.71	0.000	148.2 78.55	148.2	78.55
78.55	0.000	0.000	Strato1_2_8_L_0		
41 D	16.11	0.000	152.0 80.56	152.0	80.56
80.56	0.000	0.000	Strato1_2_8_L_0		
42 D	16.51	0.000	155.8 82.57	155.8	82.57
82.57	0.000	0.000	Strato1_2_8_L_0		
43 D	16.92	0.000	159.6 84.59	159.6	84.59
84.59	0.000	0.000	Strato1_2_8_L_0		
44 D	17.32	0.000	163.4 86.60	163.4	86.60
86.60	0.000	0.000	Strato1_2_8_L_0		
45 D	17.72	0.000	167.2 88.62	167.2	88.62
88.62	0.000	0.000	Strato1_2_8_L_0		
46 D	18.13	0.000	171.0 90.63	171.0	90.63
90.63	0.000	0.000	Strato1_2_8_L_0		
47 D	18.53	0.000	174.8 92.64	174.8	92.64
92.64	0.000	0.000	Strato1_2_8_L_0		
48 D	18.93	0.000	178.6 94.66	178.6	94.66
94.66	0.000	0.000	Strato1_2_8_L_0		
49 D	19.33	0.000	182.4 96.67	182.4	96.67
96.67	0.000	0.000	Strato1_2_8_L_0		
50 D	19.74	0.000	186.2 98.69	186.2	98.69
98.69	0.000	0.000	Strato1_2_8_L_0		
51 D	20.14	0.000	190.0 100.7	190.0	100.7
100.7	0.000	0.000	Strato1_2_8_L_0		
52 D	20.54	0.000	193.8 102.7	193.8	102.7
102.7	0.000	0.000	Strato1_2_8_L_0		
53 D	20.95	0.000	197.6 104.7	197.6	104.7
104.7	0.000	0.000	Strato1_2_8_L_0		
54 D	21.35	0.000	201.4 106.7	201.4	106.7
106.7	0.000	0.000	Strato1_2_8_L_0		
55 D	21.75	0.000	205.2 108.8	205.2	108.8
108.8	0.000	0.000	Strato1_2_8_L_0		
56 D	22.15	0.000	209.0 110.8	209.0	110.8
110.8	0.000	0.000	Strato1_2_8_L_0		
57 D	22.56	0.000	212.8 112.8	212.8	112.8
112.8	0.000	0.000	Strato1_2_8_L_0		
58 D	22.96	0.000	216.6 114.8	216.6	114.8
114.8	0.000	0.000	Strato1_2_8_L_0		
59 D	23.36	0.000	220.4 116.8	220.4	116.8
116.8	0.000	0.000	Strato1_2_8_L_0		
60 D	23.77	0.000	224.2 118.8	224.2	118.8
118.8	0.000	0.000	Strato1_2_8_L_0		
61 D	24.17	0.000	228.0 120.8	228.0	120.8
120.8	0.000	0.000	Strato1_2_8_L_0		
62 D	24.57	0.000	231.8 122.9	231.8	122.9
122.9	0.000	0.000	Strato1_2_8_L_0		

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 434 di 1221							
63 D	24.97	0.000	235.6	124.9	235.6	124.9	V-C	9817.	-12.40	0.000	1.000	1.000
124.9	0.000	0.000	Strato1_2_8_L_0									
64 D	25.38	0.000	239.4	126.9	239.4	126.9	V-C	9817.	-12.60	0.000	1.000	1.000
126.9	0.000	0.000	Strato1_2_8_L_0									
65 D	25.78	0.000	243.2	128.9	243.2	128.9	V-C	9817.	-12.80	0.000	1.000	1.000
128.9	0.000	0.000	Strato1_2_8_L_0									
66 D	26.18	0.000	247.0	130.9	247.0	130.9	V-C	9817.	-13.00	0.000	1.000	1.000
130.9	0.000	0.000	Strato1_2_8_L_0									
67 D	25.09	0.000	250.9	125.5	250.9	125.5	V-C	2.1690E+04	-13.20	0.000	1.000	1.000
125.5	0.000	0.000	Strato2_3095_82743_L_0									
68 D	25.49	0.000	254.9	127.5	254.9	127.5	V-C	2.1690E+04	-13.40	0.000	1.000	1.000
127.5	0.000	0.000	Strato2_3095_82743_L_0									
69 D	25.89	0.000	258.9	129.4	258.9	129.4	V-C	2.1690E+04	-13.60	0.000	1.000	1.000
129.4	0.000	0.000	Strato2_3095_82743_L_0									
70 D	26.29	0.000	262.9	131.5	262.9	131.5	V-C	2.1690E+04	-13.80	0.000	1.000	1.000
131.5	0.000	0.000	Strato2_3095_82743_L_0									
71 D	26.69	0.000	266.9	133.5	266.9	133.5	V-C	2.1690E+04	-14.00	0.000	1.000	1.000
133.5	0.000	0.000	Strato2_3095_82743_L_0									
72 D	27.09	0.000	270.9	135.4	270.9	135.4	V-C	2.1690E+04	-14.20	0.000	1.000	1.000
135.4	0.000	0.000	Strato2_3095_82743_L_0									
73 D	27.49	0.000	274.9	137.4	274.9	137.4	V-C	2.1690E+04	-14.40	0.000	1.000	1.000
137.4	0.000	0.000	Strato2_3095_82743_L_0									
74 D	27.89	0.000	278.9	139.4	278.9	139.4	V-C	2.1690E+04	-14.60	0.000	1.000	1.000
139.4	0.000	0.000	Strato2_3095_82743_L_0									
75 D	28.29	0.000	282.9	141.4	282.9	141.4	V-C	2.1690E+04	-14.80	0.000	1.000	1.000
141.4	0.000	0.000	Strato2_3095_82743_L_0									
76 D	28.69	0.000	286.9	143.4	286.9	143.4	V-C	2.1690E+04	-15.00	0.000	1.000	1.000
143.4	0.000	0.000	Strato2_3095_82743_L_0									
77 D	29.09	0.000	290.9	145.4	290.9	145.4	V-C	2.1690E+04	-15.20	0.000	1.000	1.000
145.4	0.000	0.000	Strato2_3095_82743_L_0									
78 D	29.49	0.000	294.9	147.4	294.9	147.4	V-C	2.1690E+04	-15.40	0.000	1.000	1.000
147.4	0.000	0.000	Strato2_3095_82743_L_0									
79 D	29.89	0.000	298.9	149.4	298.9	149.4	V-C	2.1690E+04	-15.60	0.000	1.000	1.000
149.4	0.000	0.000	Strato2_3095_82743_L_0									
80 D	30.29	0.000	302.9	151.4	302.9	151.4	V-C	2.1690E+04	-15.80	0.000	1.000	1.000
151.4	0.000	0.000	Strato2_3095_82743_L_0									
81 D	30.69	0.000	306.9	153.4	306.9	153.4	V-C	2.1690E+04	-16.00	0.000	1.000	1.000
153.4	0.000	0.000	Strato2_3095_82743_L_0									
82 D	31.09	0.000	310.9	155.4	310.9	155.4	V-C	2.1690E+04	-16.20	0.000	1.000	1.000
155.4	0.000	0.000	Strato2_3095_82743_L_0									
83 D	31.49	0.000	314.9	157.4	314.9	157.4	V-C	2.1690E+04	-16.40	0.000	1.000	1.000
157.4	0.000	0.000	Strato2_3095_82743_L_0									
84 D	31.89	0.000	318.9	159.4	318.9	159.4	V-C	2.1690E+04	-16.60	0.000	1.000	1.000
159.4	0.000	0.000	Strato2_3095_82743_L_0									
85 D	32.29	0.000	322.9	161.5	322.9	161.5	V-C	2.1690E+04	-16.80	0.000	1.000	1.000
161.5	0.000	0.000	Strato2_3095_82743_L_0									
86 D	32.69	0.000	326.9	163.4	326.9	163.4	V-C	2.1690E+04	-17.00	0.000	1.000	1.000
163.4	0.000	0.000	Strato2_3095_82743_L_0									
87 D	33.09	0.000	330.9	165.4	330.9	165.4	V-C	2.1690E+04	-17.20	0.000	1.000	1.000
165.4	0.000	0.000	Strato2_3095_82743_L_0									
88 D	33.49	0.000	334.9	167.4	334.9	167.4	V-C	2.1690E+04	-17.40	0.000	1.000	1.000
167.4	0.000	0.000	Strato2_3095_82743_L_0									
89 D	33.89	0.000	338.9	169.5	338.9	169.5	V-C	2.1690E+04	-17.60	0.000	1.000	1.000
169.5	0.000	0.000	Strato2_3095_82743_L_0									
90 D	34.29	0.000	342.9	171.5	342.9	171.5	V-C	2.1690E+04	-17.80	0.000	1.000	1.000
171.5	0.000	0.000	Strato2_3095_82743_L_0									
91 D	17.34	0.000	346.9	173.4	346.9	173.4	V-C	2.1690E+04	-18.00	0.000	1.000	1.000
173.4	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SLERara_3454                                                                                   |
|          Exe Time :29 July 2019  18:00:07                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
435 di 1221

5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000
31	0.0000	0.0000	0.0000	0.0000
32	0.0000	0.0000	0.0000	0.0000
33	0.0000	0.0000	0.0000	0.0000
34	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000
36	0.0000	0.0000	0.0000	0.0000
37	0.0000	0.0000	0.0000	0.0000
38	0.0000	0.0000	0.0000	0.0000
39	0.0000	0.0000	0.0000	0.0000
40	0.0000	0.0000	0.0000	0.0000
41	0.0000	0.0000	0.0000	0.0000
42	0.0000	0.0000	0.0000	0.0000
43	0.0000	0.0000	0.0000	0.0000
44	0.0000	0.0000	0.0000	0.0000
45	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000
47	0.0000	0.0000	0.0000	0.0000
48	0.0000	0.0000	0.0000	0.0000
49	0.0000	0.0000	0.0000	0.0000
50	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	0.0000	0.0000
52	0.0000	0.0000	0.0000	0.0000
53	0.0000	0.0000	0.0000	0.0000
54	0.0000	0.0000	0.0000	0.0000
55	0.0000	0.0000	0.0000	0.0000
56	0.0000	0.0000	0.0000	0.0000
57	0.0000	0.0000	0.0000	0.0000
58	0.0000	0.0000	0.0000	0.0000
59	0.0000	0.0000	0.0000	0.0000
60	0.0000	0.0000	0.0000	0.0000
61	0.0000	0.0000	0.0000	0.0000
62	0.0000	0.0000	0.0000	0.0000
63	0.0000	0.0000	0.0000	0.0000
64	0.0000	0.0000	0.0000	0.0000
65	0.0000	0.0000	0.0000	0.0000
66	0.0000	0.0000	0.0000	0.0000
67	0.0000	0.0000	0.0000	0.0000
68	0.0000	0.0000	0.0000	0.0000
69	0.0000	0.0000	0.0000	0.0000
70	0.0000	0.0000	0.0000	0.0000
71	0.0000	0.0000	0.0000	0.0000
72	0.0000	0.0000	0.0000	0.0000
73	0.0000	0.0000	0.0000	0.0000
74	0.0000	0.0000	0.0000	0.0000
75	0.0000	0.0000	0.0000	0.0000
76	0.0000	0.0000	0.0000	0.0000
77	0.0000	0.0000	0.0000	0.0000
78	0.0000	0.0000	0.0000	0.0000
79	0.0000	0.0000	0.0000	0.0000
80	0.0000	0.0000	0.0000	0.0000
81	0.0000	0.0000	0.0000	0.0000
82	0.0000	0.0000	0.0000	0.0000
83	0.0000	0.0000	0.0000	0.0000
84	0.0000	0.0000	0.0000	0.0000
85	0.0000	0.0000	0.0000	0.0000
86	0.0000	0.0000	0.0000	0.0000
87	0.0000	0.0000	0.0000	0.0000
88	0.0000	0.0000	0.0000	0.0000
89	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
436 di 1221

90 0.0000 0.0000 0.0000 0.0000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:00:07          |
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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

Tirante1_429 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

C U R R E N T T I M E I S 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:00:07          |
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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 . 5

Tirante2_1507 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

C U R R E N T T I M E I S 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

ITER   0  RNORM = 0.000   RMNORM= 0.000
RINORM=0.8799E+05 RIMNOR= 0.000
RENORM= 1405.   REMNOR= 0.000   RATIO =0.1264   TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 38.35   RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT   =0.8799E+05 RDR   = 0.000
RATIOT=0.1264   RATIO= 0.000
MAX UN= 4.240   IEQ=   129 NODE   65 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=0.8799E+05 RIMNOR= 0.000
RENORM= 4.967   REMNOR=0.4237E-20 RATIO =0.7513E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 38.35   RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT   =0.8799E+05 RDR   = 0.000
RATIOT=0.7513E-02 RATIO= 0.000
MAX UN= 1.673   IEQ=   3 NODE   2 DOF   1   Y-DISPL.F
MIN UN=-.1717E-09 IEQ=   129 NODE   65 DOF   1   Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS   0

```

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ITER   3  RNORM = 0.000   RMNORM= 0.000
RINORM=0.8799E+05 RIMNOR= 0.000
RENORM=0.4909   REMNOR=0.5830E-21 RATIO =0.2362E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 38.35   RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT   =0.8799E+05 RDR   = 0.000
RATIOT=0.2362E-02 RATIO= 0.000
MAX UN=0.5093   IEQ=   13 NODE   7 DOF   1   Y-DISPL.F
MIN UN=-.8358E-10 IEQ=   21 NODE   11 DOF   1   Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS   0

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GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
437 di 1221

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.8799E+05 RIMNOR= 0.000
            RENORM=0.6022E-04 REMNOR=0.5644E-21 RATIO =0.2616E-04 TOLER =0.1000E-03      CONVERGED !
            RFMAX = 38.35      RMMAX = 0.000
            RTSMAL=0.1000E-03 RMSMAL= 0.000
            RDT =0.8799E+05 RDR = 0.000
            RATIO=0.2616E-04 RATIO= 0.000
            MAX UN=0.7493E-02 IEQ= 51 NODE      26 DOF      1 Y-DISPL.F
            MIN UN=-.1148E-09 IEQ= 33 NODE      17 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:00:07  |
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New Project
SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.7011354E-04	3.0375484E-06	
2	3.7072153E-04	3.0447654E-06	
3	3.7133166E-04	3.0551835E-06	
4	3.7194366E-04	3.0664776E-06	
5	3.7255901E-04	3.0891198E-06	
6	3.7318082E-04	3.1343781E-06	
7	3.7381506E-04	3.2141976E-06	
8	3.7446934E-04	3.3366448E-06	
9	3.7515287E-04	3.5062873E-06	
10	3.7587486E-04	3.7210655E-06	
11	3.7664375E-04	3.9727671E-06	
12	3.7746566E-04	4.2497674E-06	
13	3.7834451E-04	4.5395515E-06	
14	3.7928162E-04	4.8314961E-06	
15	3.8027670E-04	5.1172391E-06	
16	3.8132763E-04	5.3896591E-06	
17	3.8243124E-04	5.6422471E-06	
18	3.8358277E-04	5.8684166E-06	
19	3.8477648E-04	6.0627428E-06	
20	3.8600542E-04	6.2203767E-06	
21	3.8726192E-04	6.3372506E-06	
22	3.8853735E-04	6.4096217E-06	
23	3.8982258E-04	6.4342539E-06	
24	3.9110766E-04	6.4080565E-06	
25	3.9238218E-04	6.3276342E-06	
26	3.9363483E-04	6.1890263E-06	
27	3.9485366E-04	5.9883233E-06	
28	3.9602576E-04	5.7215682E-06	
29	3.9713764E-04	5.3851983E-06	
30	3.9817496E-04	4.9758194E-06	
31	3.9912289E-04	4.4903282E-06	
32	3.9996579E-04	3.9252622E-06	
33	4.0068744E-04	3.2769374E-06	
34	4.0127078E-04	2.5418149E-06	
35	4.0169816E-04	1.7166343E-06	
36	4.0195122E-04	7.9831214E-07	
37	4.0201110E-04	-2.1588955E-07	
38	4.0185831E-04	-1.3284253E-06	
39	4.0147304E-04	-2.5413031E-06	
40	4.0083497E-04	-3.8564626E-06	
41	3.9992352E-04	-5.2756157E-06	
42	3.9871772E-04	-6.7997950E-06	
43	3.9719659E-04	-8.4291870E-06	
44	3.9533908E-04	-1.0163067E-05	
45	3.9312453E-04	-1.1999578E-05	
46	3.9053255E-04	-1.3935729E-05	
47	3.8754382E-04	-1.5967230E-05	
48	3.8413967E-04	-1.8088693E-05	
49	3.8030285E-04	-2.0292851E-05	
50	3.7601764E-04	-2.2570499E-05	
51	3.7127052E-04	-2.4910173E-05	
52	3.6605034E-04	-2.7298032E-05	
53	3.6034917E-04	-2.9717535E-05	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 439 di 1221							
11 D	4.590	-3.7664E-04	73.46	22.95	73.46	38.94	UL-RL	4.2442E+04	-2.000	0.000	1.000	1.000
22.95	0.000	0.000	Stratol_2_8_L_0									
12 D	4.822	-3.7747E-04	75.72	24.11	75.72	40.13	UL-RL	4.2442E+04	-2.200	0.000	1.000	1.000
24.11	0.000	0.000	Stratol_2_8_L_0									
13 D	5.479	-3.7834E-04	81.98	27.39	81.98	43.45	UL-RL	4.2442E+04	-2.400	0.000	1.000	1.000
27.39	0.000	0.000	Stratol_2_8_L_0									
14 D	5.727	-3.7928E-04	84.40	28.63	84.40	44.73	UL-RL	4.2442E+04	-2.600	0.000	1.000	1.000
28.63	0.000	0.000	Stratol_2_8_L_0									
15 D	6.340	-3.8028E-04	90.27	31.70	90.27	47.84	UL-RL	4.2442E+04	-2.800	0.000	1.000	1.000
31.70	0.000	0.000	Stratol_2_8_L_0									
16 D	6.562	-3.8133E-04	92.44	32.81	92.44	49.00	UL-RL	4.2442E+04	-3.000	0.000	1.000	1.000
32.81	0.000	0.000	Stratol_2_8_L_0									
17 D	7.147	-3.8243E-04	98.05	35.73	98.05	51.96	UL-RL	4.2442E+04	-3.200	0.000	1.000	1.000
35.73	0.000	0.000	Stratol_2_8_L_0									
18 D	7.421	-3.8358E-04	100.7	37.11	100.7	53.39	UL-RL	4.2442E+04	-3.400	0.000	1.000	1.000
37.11	0.000	0.000	Stratol_2_8_L_0									
19 D	7.981	-3.8478E-04	106.1	39.91	106.1	56.24	UL-RL	4.2442E+04	-3.600	0.000	1.000	1.000
39.91	0.000	0.000	Stratol_2_8_L_0									
20 D	8.264	-3.8601E-04	108.9	41.32	108.9	57.70	UL-RL	4.2442E+04	-3.800	0.000	1.000	1.000
41.32	0.000	0.000	Stratol_2_8_L_0									
21 D	8.805	-3.8726E-04	114.1	44.03	114.1	60.46	UL-RL	4.2442E+04	-4.000	0.000	1.000	1.000
44.03	0.000	0.000	Stratol_2_8_L_0									
22 D	9.096	-3.8854E-04	116.9	45.48	116.9	61.97	UL-RL	4.2442E+04	-4.200	0.000	1.000	1.000
45.48	0.000	0.000	Stratol_2_8_L_0									
23 D	9.622	-3.8982E-04	122.0	48.11	122.0	64.66	UL-RL	4.2442E+04	-4.400	0.000	1.000	1.000
48.11	0.000	0.000	Stratol_2_8_L_0									
24 D	9.894	-3.9111E-04	124.7	49.47	124.7	66.07	UL-RL	4.2442E+04	-4.600	0.000	1.000	1.000
49.47	0.000	0.000	Stratol_2_8_L_0									
25 D	10.41	-3.9238E-04	129.6	52.04	129.6	68.70	UL-RL	4.2442E+04	-4.800	0.000	1.000	1.000
52.04	0.000	0.000	Stratol_2_8_L_0									
26 D	10.71	-3.9363E-04	132.6	53.57	132.6	70.28	UL-RL	4.2442E+04	-5.000	0.000	1.000	1.000
53.57	0.000	0.000	Stratol_2_8_L_0									
27 D	11.22	-3.9485E-04	137.5	56.10	137.5	72.85	UL-RL	4.2442E+04	-5.200	0.000	1.000	1.000
56.10	0.000	0.000	Stratol_2_8_L_0									
28 D	11.53	-3.9603E-04	140.5	57.65	140.5	74.46	UL-RL	4.2442E+04	-5.400	0.000	1.000	1.000
57.65	0.000	0.000	Stratol_2_8_L_0									
29 D	12.03	-3.9714E-04	145.3	60.14	145.3	76.99	UL-RL	4.2442E+04	-5.600	0.000	1.000	1.000
60.14	0.000	0.000	Stratol_2_8_L_0									
30 D	12.34	-3.9817E-04	148.3	61.72	148.3	78.62	UL-RL	4.2442E+04	-5.800	0.000	1.000	1.000
61.72	0.000	0.000	Stratol_2_8_L_0									
31 D	12.82	-3.9912E-04	152.9	64.08	152.9	81.02	UL-RL	4.2442E+04	-6.000	0.000	1.000	1.000
64.08	0.000	0.000	Stratol_2_8_L_0									
32 D	13.14	-3.9997E-04	156.0	65.70	156.0	82.67	UL-RL	4.2442E+04	-6.200	0.000	1.000	1.000
65.70	0.000	0.000	Stratol_2_8_L_0									
33 D	13.63	-4.0069E-04	160.6	68.13	160.6	85.14	UL-RL	4.2442E+04	-6.400	0.000	1.000	1.000
68.13	0.000	0.000	Stratol_2_8_L_0									
34 D	13.96	-4.0127E-04	163.8	69.78	163.8	86.81	UL-RL	4.2442E+04	-6.600	0.000	1.000	1.000
69.78	0.000	0.000	Stratol_2_8_L_0									
35 D	14.44	-4.0170E-04	168.4	72.20	168.4	89.25	UL-RL	4.2442E+04	-6.800	0.000	1.000	1.000
72.20	0.000	0.000	Stratol_2_8_L_0									
36 D	14.78	-4.0195E-04	171.6	73.88	171.6	90.94	UL-RL	4.2442E+04	-7.000	0.000	1.000	1.000
73.88	0.000	0.000	Stratol_2_8_L_0									
37 D	15.26	-4.0201E-04	176.1	76.28	176.1	93.35	UL-RL	4.2442E+04	-7.200	0.000	1.000	1.000
76.28	0.000	0.000	Stratol_2_8_L_0									
38 D	15.60	-4.0186E-04	179.3	78.00	179.3	95.05	UL-RL	4.2442E+04	-7.400	0.000	1.000	1.000
78.00	0.000	0.000	Stratol_2_8_L_0									
39 D	16.06	-4.0147E-04	183.7	80.32	183.7	97.36	UL-RL	4.2442E+04	-7.600	0.000	1.000	1.000
80.32	0.000	0.000	Stratol_2_8_L_0									
40 D	16.41	-4.0083E-04	186.9	82.07	186.9	99.08	UL-RL	4.2442E+04	-7.800	0.000	1.000	1.000
82.07	0.000	0.000	Stratol_2_8_L_0									
41 D	16.90	-3.9992E-04	191.4	84.48	191.4	101.5	UL-RL	4.2442E+04	-8.000	0.000	1.000	1.000
84.48	0.000	0.000	Stratol_2_8_L_0									
42 D	17.25	-3.9872E-04	194.7	86.26	194.7	103.2	UL-RL	4.2442E+04	-8.200	0.000	1.000	1.000
86.26	0.000	0.000	Stratol_2_8_L_0									
43 D	17.74	-3.9720E-04	199.1	88.68	199.1	105.5	UL-RL	4.2442E+04	-8.400	0.000	1.000	1.000
88.68	0.000	0.000	Stratol_2_8_L_0									
44 D	18.10	-3.9534E-04	202.4	90.50	202.4	107.3	UL-RL	4.2442E+04	-8.600	0.000	1.000	1.000
90.50	0.000	0.000	Stratol_2_8_L_0									
45 D	18.59	-3.9312E-04	206.8	92.93	206.8	109.6	UL-RL	4.2442E+04	-8.800	0.000	1.000	1.000
92.93	0.000	0.000	Stratol_2_8_L_0									
46 D	18.95	-3.9053E-04	210.0	94.73	210.0	111.3	UL-RL	4.2442E+04	-9.000	0.000	1.000	1.000
94.73	0.000	0.000	Stratol_2_8_L_0									
47 D	19.44	-3.8754E-04	214.4	97.18	214.4	113.6	UL-RL	4.2442E+04	-9.200	0.000	1.000	1.000
97.18	0.000	0.000	Stratol_2_8_L_0									
48 D	19.82	-3.8414E-04	217.7	99.09	217.7	115.4	UL-RL	4.2442E+04	-9.400	0.000	1.000	1.000
99.09	0.000	0.000	Stratol_2_8_L_0									
49 D	20.31	-3.8030E-04	222.1	101.6	222.1	117.7	UL-RL	4.2442E+04	-9.600	0.000	1.000	1.000
101.6	0.000	0.000	Stratol_2_8_L_0									
50 D	20.70	-3.7602E-04	225.4	103.5	225.4	119.5	UL-RL	4.2442E+04	-9.800	0.000	1.000	1.000
103.5	0.000	0.000	Stratol_2_8_L_0									
51 D	21.20	-3.7127E-04	229.8	106.0	229.8	121.8	UL-RL	4.2442E+04	-10.000	0.000	1.000	1.000
106.0	0.000	0.000	Stratol_2_8_L_0									
52 D	21.60	-3.6605E-04	233.1	108.0	233.1	123.6	UL-RL	4.2442E+04	-10.200	0.000	1.000	1.000
108.0	0.000	0.000	Stratol_2_8_L_0									
53 D	22.11	-3.6035E-04	237.4	110.5	237.4	125.8	UL-RL	4.2442E+04	-10.400	0.000	1.000	1.000



Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 440 di 1221
110.5	0.000	0.000	Strato1_2_8_L_0				
54 D	22.51	-3.5416E-04	240.7	112.5	240.7	127.6	UL-RL 4.2442E+04 -10.60 0.000 1.000 1.000
112.5	0.000	0.000	Strato1_2_8_L_0				
55 D	23.02	-3.4749E-04	245.0	115.1	245.0	129.8	UL-RL 4.2442E+04 -10.80 0.000 1.000 1.000
115.1	0.000	0.000	Strato1_2_8_L_0				
56 D	23.44	-3.4034E-04	248.4	117.2	248.4	131.6	UL-RL 4.2442E+04 -11.00 0.000 1.000 1.000
117.2	0.000	0.000	Strato1_2_8_L_0				
57 D	23.96	-3.3271E-04	252.7	119.8	252.7	133.9	UL-RL 4.2442E+04 -11.20 0.000 1.000 1.000
119.8	0.000	0.000	Strato1_2_8_L_0				
58 D	24.39	-3.2463E-04	256.1	121.9	256.1	135.7	UL-RL 4.2442E+04 -11.40 0.000 1.000 1.000
121.9	0.000	0.000	Strato1_2_8_L_0				
59 D	24.91	-3.1612E-04	260.3	124.6	260.3	138.0	UL-RL 4.2442E+04 -11.60 0.000 1.000 1.000
124.6	0.000	0.000	Strato1_2_8_L_0				
60 D	25.35	-3.0720E-04	263.7	126.7	263.7	139.8	UL-RL 4.2442E+04 -11.80 0.000 1.000 1.000
126.7	0.000	0.000	Strato1_2_8_L_0				
61 D	25.87	-2.9793E-04	267.9	129.3	267.9	142.0	UL-RL 4.2442E+04 -12.00 0.000 1.000 1.000
129.3	0.000	0.000	Strato1_2_8_L_0				
62 D	26.31	-2.8834E-04	271.3	131.6	271.3	143.8	UL-RL 4.2442E+04 -12.20 0.000 1.000 1.000
131.6	0.000	0.000	Strato1_2_8_L_0				
63 D	26.84	-2.7849E-04	275.5	134.2	275.5	146.0	UL-RL 4.2442E+04 -12.40 0.000 1.000 1.000
134.2	0.000	0.000	Strato1_2_8_L_0				
64 D	27.29	-2.6846E-04	279.0	136.5	279.0	147.9	UL-RL 4.2442E+04 -12.60 0.000 1.000 1.000
136.5	0.000	0.000	Strato1_2_8_L_0				
65 D	27.83	-2.5834E-04	283.2	139.1	283.2	150.1	UL-RL 4.2442E+04 -12.80 0.000 1.000 1.000
139.1	0.000	0.000	Strato1_2_8_L_0				
66 D	28.28	-2.4821E-04	286.7	141.4	286.7	151.9	UL-RL 4.2442E+04 -13.00 0.000 1.000 1.000
141.4	0.000	0.000	Strato1_2_8_L_0				
67 D	23.38	-2.3818E-04	291.0	116.9	291.0	145.5	UL-RL 1.2006E+05 -13.20 0.000 1.000 1.000
116.9	0.000	0.000	Strato2_3095_82743_L_0				
68 D	23.98	-2.2839E-04	294.6	119.9	294.6	147.3	UL-RL 1.2006E+05 -13.40 0.000 1.000 1.000
119.9	0.000	0.000	Strato2_3095_82743_L_0				
69 D	24.64	-2.1892E-04	298.9	123.2	298.9	149.5	UL-RL 1.2006E+05 -13.60 0.000 1.000 1.000
123.2	0.000	0.000	Strato2_3095_82743_L_0				
70 D	25.22	-2.0985E-04	302.6	126.1	302.6	151.3	UL-RL 1.2006E+05 -13.80 0.000 1.000 1.000
126.1	0.000	0.000	Strato2_3095_82743_L_0				
71 D	25.86	-2.0125E-04	307.0	129.3	307.0	153.5	UL-RL 1.2006E+05 -14.00 0.000 1.000 1.000
129.3	0.000	0.000	Strato2_3095_82743_L_0				
72 D	26.43	-1.9314E-04	310.7	132.1	310.7	155.3	UL-RL 1.2006E+05 -14.20 0.000 1.000 1.000
132.1	0.000	0.000	Strato2_3095_82743_L_0				
73 D	27.05	-1.8555E-04	315.0	135.2	315.0	157.5	UL-RL 1.2006E+05 -14.40 0.000 1.000 1.000
135.2	0.000	0.000	Strato2_3095_82743_L_0				
74 D	27.58	-1.7849E-04	318.7	137.9	318.7	159.4	UL-RL 1.2006E+05 -14.60 0.000 1.000 1.000
137.9	0.000	0.000	Strato2_3095_82743_L_0				
75 D	28.18	-1.7195E-04	323.1	140.9	323.1	161.5	UL-RL 1.2006E+05 -14.80 0.000 1.000 1.000
140.9	0.000	0.000	Strato2_3095_82743_L_0				
76 D	28.68	-1.6590E-04	326.7	143.4	326.7	163.3	UL-RL 1.2006E+05 -15.00 0.000 1.000 1.000
143.4	0.000	0.000	Strato2_3095_82743_L_0				
77 D	29.25	-1.6034E-04	331.0	146.3	331.0	165.5	UL-RL 1.2006E+05 -15.20 0.000 1.000 1.000
146.3	0.000	0.000	Strato2_3095_82743_L_0				
78 D	29.75	-1.5523E-04	334.7	148.7	334.7	167.4	UL-RL 1.2006E+05 -15.40 0.000 1.000 1.000
148.7	0.000	0.000	Strato2_3095_82743_L_0				
79 D	30.29	-1.5054E-04	339.1	151.5	339.1	169.5	UL-RL 1.2006E+05 -15.60 0.000 1.000 1.000
151.5	0.000	0.000	Strato2_3095_82743_L_0				
80 D	30.77	-1.4621E-04	342.8	153.8	342.8	171.4	UL-RL 1.2006E+05 -15.80 0.000 1.000 1.000
153.8	0.000	0.000	Strato2_3095_82743_L_0				
81 D	31.30	-1.4222E-04	347.1	156.5	347.1	173.6	UL-RL 1.2006E+05 -16.00 0.000 1.000 1.000
156.5	0.000	0.000	Strato2_3095_82743_L_0				
82 D	31.82	-1.3852E-04	351.4	159.1	351.4	175.7	UL-RL 1.2006E+05 -16.20 0.000 1.000 1.000
159.1	0.000	0.000	Strato2_3095_82743_L_0				
83 D	32.27	-1.3506E-04	355.1	161.4	355.1	177.6	UL-RL 1.2006E+05 -16.40 0.000 1.000 1.000
161.4	0.000	0.000	Strato2_3095_82743_L_0				
84 D	32.77	-1.3181E-04	359.4	163.9	359.4	179.7	UL-RL 1.2006E+05 -16.60 0.000 1.000 1.000
163.9	0.000	0.000	Strato2_3095_82743_L_0				
85 D	33.22	-1.2871E-04	363.1	166.1	363.1	181.6	UL-RL 1.2006E+05 -16.80 0.000 1.000 1.000
166.1	0.000	0.000	Strato2_3095_82743_L_0				
86 D	33.72	-1.2574E-04	367.4	168.6	367.4	183.7	UL-RL 1.2006E+05 -17.00 0.000 1.000 1.000
168.6	0.000	0.000	Strato2_3095_82743_L_0				
87 D	34.16	-1.2286E-04	371.1	170.8	371.1	185.6	UL-RL 1.2006E+05 -17.20 0.000 1.000 1.000
170.8	0.000	0.000	Strato2_3095_82743_L_0				
88 D	34.66	-1.2004E-04	375.4	173.3	375.4	187.7	UL-RL 1.2006E+05 -17.40 0.000 1.000 1.000
173.3	0.000	0.000	Strato2_3095_82743_L_0				
89 D	35.10	-1.1726E-04	379.2	175.5	379.2	189.6	UL-RL 1.2006E+05 -17.60 0.000 1.000 1.000
175.5	0.000	0.000	Strato2_3095_82743_L_0				
90 D	35.60	-1.1449E-04	383.5	178.0	383.5	191.7	UL-RL 1.2006E+05 -17.80 0.000 1.000 1.000
178.0	0.000	0.000	Strato2_3095_82743_L_0				
91 D	18.02	-1.1172E-04	387.1	180.2	387.1	193.6	UL-RL 1.2006E+05 -18.00 0.000 1.000 1.000
180.2	0.000	0.000	Strato2_3095_82743_L_0				

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 442 di 1221							
34 D	14.06	4.0127E-04	125.4	70.31	125.4	70.45	UL-RL	2.9452E+04	-6.600	0.000	1.000	1.000
70.31	0.000	0.000	Strato1_2_8_L_0									
35 D	14.46	4.0170E-04	129.2	72.32	129.2	72.47	UL-RL	2.9452E+04	-6.800	0.000	1.000	1.000
72.32	0.000	0.000	Strato1_2_8_L_0									
36 D	14.87	4.0195E-04	133.0	74.33	133.0	74.49	UL-RL	2.9452E+04	-7.000	0.000	1.000	1.000
74.33	0.000	0.000	Strato1_2_8_L_0									
37 D	15.27	4.0201E-04	136.8	76.35	136.8	76.50	UL-RL	2.9452E+04	-7.200	0.000	1.000	1.000
76.35	0.000	0.000	Strato1_2_8_L_0									
38 D	15.67	4.0186E-04	140.6	78.36	140.6	78.52	UL-RL	2.9452E+04	-7.400	0.000	1.000	1.000
78.36	0.000	0.000	Strato1_2_8_L_0									
39 D	16.07	4.0147E-04	144.4	80.37	144.4	80.53	UL-RL	2.9452E+04	-7.600	0.000	1.000	1.000
80.37	0.000	0.000	Strato1_2_8_L_0									
40 D	16.48	4.0083E-04	148.2	82.38	148.2	82.53	UL-RL	2.9452E+04	-7.800	0.000	1.000	1.000
82.38	0.000	0.000	Strato1_2_8_L_0									
41 D	16.88	3.9992E-04	152.0	84.39	152.0	84.54	UL-RL	2.9452E+04	-8.000	0.000	1.000	1.000
84.39	0.000	0.000	Strato1_2_8_L_0									
42 D	17.28	3.9872E-04	155.8	86.39	155.8	86.54	UL-RL	2.9452E+04	-8.200	0.000	1.000	1.000
86.39	0.000	0.000	Strato1_2_8_L_0									
43 D	17.68	3.9720E-04	159.6	88.40	159.6	88.53	UL-RL	2.9452E+04	-8.400	0.000	1.000	1.000
88.40	0.000	0.000	Strato1_2_8_L_0									
44 D	18.08	3.9534E-04	163.4	90.40	163.4	90.53	UL-RL	2.9452E+04	-8.600	0.000	1.000	1.000
90.40	0.000	0.000	Strato1_2_8_L_0									
45 D	18.48	3.9312E-04	167.2	92.39	167.2	92.52	UL-RL	2.9452E+04	-8.800	0.000	1.000	1.000
92.39	0.000	0.000	Strato1_2_8_L_0									
46 D	18.88	3.9053E-04	171.0	94.39	171.0	94.50	UL-RL	2.9452E+04	-9.000	0.000	1.000	1.000
94.39	0.000	0.000	Strato1_2_8_L_0									
47 D	19.28	3.8754E-04	174.8	96.38	174.8	96.49	UL-RL	2.9452E+04	-9.200	0.000	1.000	1.000
96.38	0.000	0.000	Strato1_2_8_L_0									
48 D	19.67	3.8414E-04	178.6	98.36	178.6	98.46	UL-RL	2.9452E+04	-9.400	0.000	1.000	1.000
98.36	0.000	0.000	Strato1_2_8_L_0									
49 D	20.07	3.8030E-04	182.4	100.3	182.4	100.4	UL-RL	2.9452E+04	-9.600	0.000	1.000	1.000
100.3	0.000	0.000	Strato1_2_8_L_0									
50 D	20.46	3.7602E-04	186.2	102.3	186.2	102.4	UL-RL	2.9452E+04	-9.800	0.000	1.000	1.000
102.3	0.000	0.000	Strato1_2_8_L_0									
51 D	20.86	3.7127E-04	190.0	104.3	190.0	104.4	UL-RL	2.9452E+04	-10.00	0.000	1.000	1.000
104.3	0.000	0.000	Strato1_2_8_L_0									
52 D	21.25	3.6605E-04	193.8	106.3	193.8	106.3	UL-RL	2.9452E+04	-10.20	0.000	1.000	1.000
106.3	0.000	0.000	Strato1_2_8_L_0									
53 D	21.64	3.6035E-04	197.6	108.2	197.6	108.3	UL-RL	2.9452E+04	-10.40	0.000	1.000	1.000
108.2	0.000	0.000	Strato1_2_8_L_0									
54 D	22.04	3.5416E-04	201.4	110.2	201.4	110.2	UL-RL	2.9452E+04	-10.60	0.000	1.000	1.000
110.2	0.000	0.000	Strato1_2_8_L_0									
55 D	22.43	3.4749E-04	205.2	112.1	205.2	112.2	UL-RL	2.9452E+04	-10.80	0.000	1.000	1.000
112.1	0.000	0.000	Strato1_2_8_L_0									
56 D	22.82	3.4034E-04	209.0	114.1	209.0	114.1	UL-RL	2.9452E+04	-11.00	0.000	1.000	1.000
114.1	0.000	0.000	Strato1_2_8_L_0									
57 D	23.20	3.3271E-04	212.8	116.0	212.8	116.1	UL-RL	2.9452E+04	-11.20	0.000	1.000	1.000
116.0	0.000	0.000	Strato1_2_8_L_0									
58 D	23.59	3.2463E-04	216.6	118.0	216.6	118.0	UL-RL	2.9452E+04	-11.40	0.000	1.000	1.000
118.0	0.000	0.000	Strato1_2_8_L_0									
59 D	23.98	3.1612E-04	220.4	119.9	220.4	119.9	UL-RL	2.9452E+04	-11.60	0.000	1.000	1.000
119.9	0.000	0.000	Strato1_2_8_L_0									
60 D	24.37	3.0720E-04	224.2	121.8	224.2	121.9	UL-RL	2.9452E+04	-11.80	0.000	1.000	1.000
121.8	0.000	0.000	Strato1_2_8_L_0									
61 D	24.75	2.9793E-04	228.0	123.8	228.0	123.8	UL-RL	2.9452E+04	-12.00	0.000	1.000	1.000
123.8	0.000	0.000	Strato1_2_8_L_0									
62 D	25.13	2.8834E-04	231.8	125.7	231.8	125.7	UL-RL	2.9452E+04	-12.20	0.000	1.000	1.000
125.7	0.000	0.000	Strato1_2_8_L_0									
63 D	25.52	2.7849E-04	235.6	127.6	235.6	127.6	UL-RL	2.9452E+04	-12.40	0.000	1.000	1.000
127.6	0.000	0.000	Strato1_2_8_L_0									
64 D	25.90	2.6846E-04	239.4	129.5	239.4	129.5	UL-RL	2.9452E+04	-12.60	0.000	1.000	1.000
129.5	0.000	0.000	Strato1_2_8_L_0									
65 D	26.29	2.5834E-04	243.2	131.4	243.2	131.4	UL-RL	2.9452E+04	-12.80	0.000	1.000	1.000
131.4	0.000	0.000	Strato1_2_8_L_0									
66 D	26.67	2.4821E-04	247.0	133.3	247.0	133.3	UL-RL	2.9452E+04	-13.00	0.000	1.000	1.000
133.3	0.000	0.000	Strato1_2_8_L_0									
67 D	26.12	2.3818E-04	250.9	130.6	250.9	130.6	UL-RL	6.5071E+04	-13.20	0.000	1.000	1.000
130.6	0.000	0.000	Strato2_3095_82743_L_0									
68 D	26.48	2.2839E-04	254.9	132.4	254.9	132.4	UL-RL	6.5071E+04	-13.40	0.000	1.000	1.000
132.4	0.000	0.000	Strato2_3095_82743_L_0									
69 D	26.84	2.1892E-04	258.9	134.2	258.9	134.2	UL-RL	6.5071E+04	-13.60	0.000	1.000	1.000
134.2	0.000	0.000	Strato2_3095_82743_L_0									
70 D	27.20	2.0985E-04	262.9	136.0	262.9	136.0	V-C	2.1690E+04	-13.80	0.000	1.000	1.000
136.0	0.000	0.000	Strato2_3095_82743_L_0									
71 D	27.56	2.0125E-04	266.9	137.8	266.9	137.8	V-C	2.1690E+04	-14.00	0.000	1.000	1.000
137.8	0.000	0.000	Strato2_3095_82743_L_0									
72 D	27.93	1.9314E-04	270.9	139.6	270.9	139.6	V-C	2.1690E+04	-14.20	0.000	1.000	1.000
139.6	0.000	0.000	Strato2_3095_82743_L_0									
73 D	28.29	1.8555E-04	274.9	141.5	274.9	141.5	V-C	2.1690E+04	-14.40	0.000	1.000	1.000
141.5	0.000	0.000	Strato2_3095_82743_L_0									
74 D	28.66	1.7849E-04	278.9	143.3	278.9	143.3	V-C	2.1690E+04	-14.60	0.000	1.000	1.000
143.3	0.000	0.000	Strato2_3095_82743_L_0									
75 D	29.04	1.7195E-04	282.9	145.2	282.9	145.2	V-C	2.1690E+04	-14.80	0.000	1.000	1.000
145.2	0.000	0.000	Strato2_3095_82743_L_0									
76 D	29.41	1.6590E-04	286.9	147.0	286.9	147.0	V-C	2.1690E+04	-15.00	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 443 di 1221
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147.0	0.000	0.000	Strato2_3095_82743_L_0									
77 D	29.79	1.6034E-04	290.9	148.9	290.9	148.9	V-C	2.1690E+04	-15.20	0.000	1.000	1.000
148.9	0.000	0.000	Strato2_3095_82743_L_0									
78 D	30.16	1.5523E-04	294.9	150.8	294.9	150.8	V-C	2.1690E+04	-15.40	0.000	1.000	1.000
150.8	0.000	0.000	Strato2_3095_82743_L_0									
79 D	30.54	1.5054E-04	298.9	152.7	298.9	152.7	V-C	2.1690E+04	-15.60	0.000	1.000	1.000
152.7	0.000	0.000	Strato2_3095_82743_L_0									
80 D	30.92	1.4621E-04	302.9	154.6	302.9	154.6	V-C	2.1690E+04	-15.80	0.000	1.000	1.000
154.6	0.000	0.000	Strato2_3095_82743_L_0									
81 D	31.31	1.4222E-04	306.9	156.5	306.9	156.5	V-C	2.1690E+04	-16.00	0.000	1.000	1.000
156.5	0.000	0.000	Strato2_3095_82743_L_0									
82 D	31.69	1.3852E-04	310.9	158.5	310.9	158.5	UL-RL	6.5071E+04	-16.20	0.000	1.000	1.000
158.5	0.000	0.000	Strato2_3095_82743_L_0									
83 D	32.08	1.3506E-04	314.9	160.4	314.9	160.4	UL-RL	6.5071E+04	-16.40	0.000	1.000	1.000
160.4	0.000	0.000	Strato2_3095_82743_L_0									
84 D	32.46	1.3181E-04	318.9	162.3	318.9	162.3	UL-RL	6.5071E+04	-16.60	0.000	1.000	1.000
162.3	0.000	0.000	Strato2_3095_82743_L_0									
85 D	32.85	1.2871E-04	322.9	164.2	322.9	164.2	UL-RL	6.5071E+04	-16.80	0.000	1.000	1.000
164.2	0.000	0.000	Strato2_3095_82743_L_0									
86 D	33.24	1.2574E-04	326.9	166.2	326.9	166.2	UL-RL	6.5071E+04	-17.00	0.000	1.000	1.000
166.2	0.000	0.000	Strato2_3095_82743_L_0									
87 D	33.62	1.2286E-04	330.9	168.1	330.9	168.1	UL-RL	6.5071E+04	-17.20	0.000	1.000	1.000
168.1	0.000	0.000	Strato2_3095_82743_L_0									
88 D	34.01	1.2004E-04	334.9	170.1	334.9	170.1	UL-RL	6.5071E+04	-17.40	0.000	1.000	1.000
170.1	0.000	0.000	Strato2_3095_82743_L_0									
89 D	34.40	1.1726E-04	338.9	172.0	338.9	172.0	UL-RL	6.5071E+04	-17.60	0.000	1.000	1.000
172.0	0.000	0.000	Strato2_3095_82743_L_0									
90 D	34.79	1.1449E-04	342.9	173.9	342.9	173.9	UL-RL	6.5071E+04	-17.80	0.000	1.000	1.000
173.9	0.000	0.000	Strato2_3095_82743_L_0									
91 D	17.59	1.1172E-04	346.9	175.9	346.9	175.9	UL-RL	6.5071E+04	-18.00	0.000	1.000	1.000
175.9	0.000	0.000	Strato2_3095_82743_L_0									

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|
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|
|          Exe Time :29 July 2019  18:00:07
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.30400	-0.30400	-4.10694E-12	6.08000E-02
2	-0.16916	0.16916	-6.08000E-02	2.69671E-02
3	0.20607	-0.20607	-2.69671E-02	6.81802E-02
4	0.27194	-0.27194	-6.81802E-02	0.12257
5	0.68070	-0.68070	-0.12257	0.25871
6	0.77511	-0.77511	-0.25871	0.41373
7	1.0205	-1.0205	-0.41373	0.61783
8	0.96751	-0.96751	-0.61783	0.81133
9	0.93372	-0.93372	-0.81133	0.99807
10	0.62160	-0.62160	-0.99807	1.1224
11	0.44405	-0.44405	-1.1224	1.2112
12	9.44456E-02	-9.44456E-02	-1.2112	1.2301
13	-3.44455E-03	3.44455E-03	-1.2301	1.2294
14	-0.25778	0.25778	-1.2294	1.1778
15	-0.30343	0.30343	-1.1778	1.1172
16	-0.53194	0.53194	-1.1172	1.0108
17	-0.58087	0.58087	-1.0108	0.89460
18	-0.76045	0.76045	-0.89460	0.74251
19	-0.78512	0.78512	-0.74251	0.58548
20	-0.93179	0.93179	-0.58548	0.39912
21	-0.94278	0.94278	-0.39912	0.21057
22	-1.0681	1.0681	-0.21057	-3.05325E-03
23	-1.0730	1.0730	3.05325E-03	-0.21765
24	-1.2111	1.2111	0.21765	-0.45987
25	-1.2398	1.2398	0.45987	-0.70783
26	-1.3758	1.3758	0.70783	-0.98299
27	-1.4065	1.4065	0.98299	-1.2643
28	-1.5260	1.5260	1.2643	-1.5695
29	-1.5493	1.5493	1.5695	-1.8793
30	-1.6567	1.6567	1.8793	-2.2107
31	-1.6952	1.6952	2.2107	-2.5497

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 444 di 1221
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32	-1.8119	1.8119	2.5497	-2.9121
33	-1.8442	1.8442	2.9121	-3.2809
34	-1.9494	1.9494	3.2809	-3.6708
35	-1.9737	1.9737	3.6708	-4.0656
36	-2.0649	2.0649	4.0656	-4.4786
37	-2.0771	2.0771	4.4786	-4.8940
38	-2.1495	2.1495	4.8940	-5.3239
39	-2.1591	2.1591	5.3239	-5.7557
40	-2.2211	2.2211	5.7557	-6.1999
41	-2.2029	2.2029	6.1999	-6.6405
42	-2.2289	2.2289	6.6405	-7.0863
43	-2.1724	2.1724	7.0863	-7.5208
44	-2.1511	2.1511	7.5208	-7.9510
45	-2.0435	2.0435	7.9510	-8.3597
46	-1.9749	1.9749	8.3597	-8.7547
47	-1.8146	1.8146	8.7547	-9.1176
48	-1.6692	1.6692	9.1176	-9.4514
49	-1.4260	1.4260	9.4514	-9.7366
50	-1.1867	1.1867	9.7366	-9.9740
51	-0.84253	0.84253	9.9740	-10.142
52	-0.49083	0.49083	10.142	-10.241
53	-2.65242E-02	2.65242E-02	10.241	-10.246
54	0.44564	-0.44564	10.246	-10.157
55	1.0387	-1.0387	10.157	-9.9491
56	1.6630	-1.6630	9.9491	-9.6165
57	2.4162	-2.4162	9.6165	-9.1332
58	3.2118	-3.2118	9.1332	-8.4909
59	4.1438	-4.1438	8.4909	-7.6621
60	5.1283	-5.1283	7.6621	-6.6365
61	6.2455	-6.2455	6.6365	-5.3873
62	7.4237	-7.4237	5.3873	-3.9026
63	8.7494	-8.7494	3.9026	-2.1527
64	10.142	-10.142	2.1527	-0.12440
65	11.683	-11.683	0.12440	2.2122
66	13.293	-13.293	-2.2122	4.8709
67	10.548	-10.548	-4.8709	6.9804
68	8.0452	-8.0452	-6.9804	8.5894
69	5.8409	-5.8409	-8.5894	9.7576
70	3.8606	-3.8606	-9.7576	10.530
71	2.1615	-2.1615	-10.530	10.962
72	0.66093	-0.66093	-10.962	11.094
73	-0.58810	0.58810	-11.094	10.977
74	-1.6679	1.6679	-10.977	10.643
75	-2.5268	2.5268	-10.643	10.138
76	-3.2523	3.2523	-10.138	9.4872
77	-3.7857	3.7857	-9.4872	8.7301
78	-4.2036	4.2036	-8.7301	7.8894
79	-4.4549	4.4549	-7.8894	6.9984
80	-4.6123	4.6123	-6.9984	6.0759
81	-4.6240	4.6240	-6.0759	5.1511
82	-4.4990	4.4990	-5.1511	4.2513
83	-4.3039	4.3039	-4.2513	3.3906
84	-3.9926	3.9926	-3.3906	2.5920
85	-3.6209	3.6209	-2.5920	1.8678
86	-3.1347	3.1347	-1.8678	1.2409
87	-2.5935	2.5935	-1.2409	0.72217
88	-1.9429	1.9429	-0.72217	0.33360
89	-1.2394	1.2394	-0.33360	8.57188E-02
90	-0.42859	0.42859	-8.57188E-02	1.32117E-14

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:00:07  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 445 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                    |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:00:07  |
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 CURRENT TIME IS 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER 0 RNORM = 0.000  RMNORM= 0.000
RINORM=0.7515E+05 RIMNOR= 6378.
RENORM= 751.6  REMNOR=0.5644E-21 RATIO =0.1000  TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 35.60  RMMAX = 11.09
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.7515E+05 RDR = 6378.
RATIOT=0.1000  RATIOR= 0.000
MAX UN= 7.601  IEQ= 35 NODE 18 DOF 1 Y-DISPL.F
MIN UN=-.9409E-10 IEQ= 95 NODE 48 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
```

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ITER 2 RNORM = 0.000  RMNORM= 0.000
RINORM=0.7515E+05 RIMNOR= 6378.
RENORM= 293.5  REMNOR=0.2343E-19 RATIO =0.6250E-01 TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 35.60  RMMAX = 11.09
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.7515E+05 RDR = 6378.
RATIOT=0.6250E-01 RATIOR= 0.000
MAX UN= 7.663  IEQ= 21 NODE 11 DOF 1 Y-DISPL.F
MIN UN=-.1109E-08 IEQ= 17 NODE 9 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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ITER 3 RNORM = 0.000  RMNORM= 0.000
RINORM=0.7515E+05 RIMNOR= 6378.
RENORM= 159.6  REMNOR=0.3749E-18 RATIO =0.4608E-01 TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 35.60  RMMAX = 11.09
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.7515E+05 RDR = 6378.
RATIOT=0.4608E-01 RATIOR= 0.000
MAX UN= 7.311  IEQ= 51 NODE 26 DOF 1 Y-DISPL.F
MIN UN=-.3507E-08 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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ITER 4 RNORM = 0.000  RMNORM= 0.000
RINORM=0.7515E+05 RIMNOR= 6378.
RENORM= 11.07  REMNOR=0.2389E-18 RATIO =0.1214E-01 TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 35.60  RMMAX = 11.09
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.7515E+05 RDR = 6378.
RATIOT=0.1214E-01 RATIOR= 0.000
MAX UN= 2.680  IEQ= 67 NODE 34 DOF 1 Y-DISPL.F
MIN UN=-.2886E-08 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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ITER 5 RNORM = 0.000  RMNORM= 0.000
RINORM=0.7515E+05 RIMNOR= 6378.
RENORM=0.1348  REMNOR=0.7314E-19 RATIO =0.1340E-02 TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 35.60  RMMAX = 11.09
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.7515E+05 RDR = 6378.
RATIOT=0.1340E-02 RATIOR= 0.000
MAX UN=0.3450  IEQ= 73 NODE 37 DOF 1 Y-DISPL.F
MIN UN=-.2393E-08 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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ITER 6 RNORM = 0.000  RMNORM= 0.000
RINORM=0.7515E+05 RIMNOR= 6378.
    
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GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
446 di 1221

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RENORM=0.1720E-16 REMNOR=0.1013E-18 RATIO =0.1513E-10 TOLER =0.1000E-03      CONVERGED !
RFMAX = 35.60      RMMAX = 11.09
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.7515E+05 RDR = 6378.
RATIOT=0.1513E-10 RATIO= 0.000
MAX UN=0.1584E-08 IEQ=      7 NODE      4 DOF      1 Y-DISPL.F
MIN UN=-.1238E-08 IEQ=     23 NODE     12 DOF      1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:00:07  |
|-----+-----

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New Project
SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	1.1894417E-02	-1.6906769E-03	
2	1.1556282E-02	-1.6906697E-03	
3	1.1218151E-02	-1.6906324E-03	
4	1.0880036E-02	-1.6905041E-03	
5	1.0541962E-02	-1.6901920E-03	
6	1.0203979E-02	-1.6895829E-03	
7	9.8661575E-03	-1.6885443E-03	
8	9.5285993E-03	-1.6869280E-03	
9	9.1914358E-03	-1.6845702E-03	
10	8.8548324E-03	-1.6812947E-03	
11	8.5189917E-03	-1.6769120E-03	
12	8.1841549E-03	-1.6712201E-03	
13	7.8506053E-03	-1.6640034E-03	
14	7.5186704E-03	-1.6550344E-03	
15	7.1887244E-03	-1.6440730E-03	
16	6.8611908E-03	-1.6308671E-03	
17	6.5365448E-03	-1.6151528E-03	
18	6.2153152E-03	-1.5966553E-03	
19	5.8980873E-03	-1.5750876E-03	
20	5.5855023E-03	-1.5501877E-03	
21	5.2782453E-03	-1.5217911E-03	
22	4.9770210E-03	-1.4898675E-03	
23	4.6825265E-03	-1.4545211E-03	
24	4.3954263E-03	-1.4159903E-03	
25	4.1163237E-03	-1.3745812E-03	
26	3.8457654E-03	-1.3305980E-03	
27	3.5842362E-03	-1.2843395E-03	
28	3.3321617E-03	-1.2360996E-03	
29	3.0899103E-03	-1.1861679E-03	
30	2.8577895E-03	-1.1348291E-03	
31	2.6360537E-03	-1.0823655E-03	
32	2.4248997E-03	-1.0290562E-03	
33	2.2244691E-03	-9.7517813E-04	
34	2.0348480E-03	-9.2100630E-04	
35	1.8560688E-03	-8.6681454E-04	
36	1.6881063E-03	-8.1287498E-04	
37	1.5308838E-03	-7.5946016E-04	
38	1.3842691E-03	-7.0684252E-04	
39	1.2480761E-03	-6.5528547E-04	
40	1.1220691E-03	-6.0502561E-04	
41	1.0059666E-03	-5.5626516E-04	
42	8.9945160E-04	-5.0917578E-04	
43	8.0217535E-04	-4.6389979E-04	
44	7.1376307E-04	-4.2055295E-04	
45	6.3381985E-04	-3.7922678E-04	
46	5.6193178E-04	-3.3998900E-04	
47	4.9767977E-04	-3.0289096E-04	
48	4.4063073E-04	-2.6796286E-04	
49	3.9034922E-04	-2.3521952E-04	
50	3.4639756E-04	-2.0466049E-04	
51	3.0834040E-04	-1.7627088E-04	
52	2.7574643E-04	-1.5002045E-04	
53	2.4819231E-04	-1.2586606E-04	
54	2.2526395E-04	-1.0375263E-04	
55	2.0655950E-04	-8.3615637E-05	
56	1.9169077E-04	-6.5382406E-05	
57	1.8028493E-04	-4.8973206E-05	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 448 di 1221							
13 D	4.985	-7.8506E-03	81.98	24.92	81.98	43.45	ACTIVE	0.000	-2.400	0.000	1.000	1.000
24.92	0.000	0.000	Stratol_2_8_L_0									
14 D	5.131	-7.5187E-03	84.40	25.66	84.40	44.73	ACTIVE	0.000	-2.600	0.000	1.000	1.000
25.66	0.000	0.000	Stratol_2_8_L_0									
15 D	5.488	-7.1887E-03	90.27	27.44	90.27	47.84	ACTIVE	0.000	-2.800	0.000	1.000	1.000
27.44	0.000	0.000	Stratol_2_8_L_0									
16 D	5.621	-6.8612E-03	92.44	28.10	92.44	49.00	ACTIVE	0.000	-3.000	0.000	1.000	1.000
28.10	0.000	0.000	Stratol_2_8_L_0									
17 D	5.961	-6.5365E-03	98.05	29.81	98.05	51.96	ACTIVE	0.000	-3.200	0.000	1.000	1.000
29.81	0.000	0.000	Stratol_2_8_L_0									
18 D	6.124	-6.2153E-03	100.7	30.62	100.7	53.39	ACTIVE	0.000	-3.400	0.000	1.000	1.000
30.62	0.000	0.000	Stratol_2_8_L_0									
19 D	6.451	-5.8981E-03	106.1	32.26	106.1	56.24	ACTIVE	0.000	-3.600	0.000	1.000	1.000
32.26	0.000	0.000	Stratol_2_8_L_0									
20 D	6.620	-5.5855E-03	108.9	33.10	108.9	57.70	ACTIVE	0.000	-3.800	0.000	1.000	1.000
33.10	0.000	0.000	Stratol_2_8_L_0									
21 D	6.936	-5.2782E-03	114.1	34.68	114.1	60.46	ACTIVE	0.000	-4.000	0.000	1.000	1.000
34.68	0.000	0.000	Stratol_2_8_L_0									
22 D	7.109	-4.9770E-03	116.9	35.55	116.9	61.97	ACTIVE	0.000	-4.200	0.000	1.000	1.000
35.55	0.000	0.000	Stratol_2_8_L_0									
23 D	7.417	-4.6825E-03	122.0	37.09	122.0	64.66	ACTIVE	0.000	-4.400	0.000	1.000	1.000
37.09	0.000	0.000	Stratol_2_8_L_0									
24 D	7.579	-4.3954E-03	124.7	37.90	124.7	66.07	ACTIVE	0.000	-4.600	0.000	1.000	1.000
37.90	0.000	0.000	Stratol_2_8_L_0									
25 D	7.881	-4.1163E-03	129.6	39.40	129.6	68.70	ACTIVE	0.000	-4.800	0.000	1.000	1.000
39.40	0.000	0.000	Stratol_2_8_L_0									
26 D	8.062	-3.8458E-03	132.6	40.31	132.6	70.28	ACTIVE	0.000	-5.000	0.000	1.000	1.000
40.31	0.000	0.000	Stratol_2_8_L_0									
27 D	8.358	-3.5842E-03	137.5	41.79	137.5	72.85	ACTIVE	0.000	-5.200	0.000	1.000	1.000
41.79	0.000	0.000	Stratol_2_8_L_0									
28 D	8.542	-3.3322E-03	140.5	42.71	140.5	74.46	ACTIVE	0.000	-5.400	0.000	1.000	1.000
42.71	0.000	0.000	Stratol_2_8_L_0									
29 D	8.832	-3.0899E-03	145.3	44.16	145.3	76.99	ACTIVE	0.000	-5.600	0.000	1.000	1.000
44.16	0.000	0.000	Stratol_2_8_L_0									
30 D	9.019	-2.8578E-03	148.3	45.10	148.3	78.62	ACTIVE	0.000	-5.800	0.000	1.000	1.000
45.10	0.000	0.000	Stratol_2_8_L_0									
31 D	9.294	-2.6361E-03	152.9	46.47	152.9	81.02	ACTIVE	0.000	-6.000	0.000	1.000	1.000
46.47	0.000	0.000	Stratol_2_8_L_0									
32 D	9.484	-2.4249E-03	156.0	47.42	156.0	82.67	ACTIVE	0.000	-6.200	0.000	1.000	1.000
47.42	0.000	0.000	Stratol_2_8_L_0									
33 D	9.767	-2.2245E-03	160.6	48.83	160.6	85.14	ACTIVE	0.000	-6.400	0.000	1.000	1.000
48.83	0.000	0.000	Stratol_2_8_L_0									
34 D	9.959	-2.0348E-03	163.8	49.79	163.8	86.81	ACTIVE	0.000	-6.600	0.000	1.000	1.000
49.79	0.000	0.000	Stratol_2_8_L_0									
35 D	10.24	-1.8561E-03	168.4	51.19	168.4	89.25	ACTIVE	0.000	-6.800	0.000	1.000	1.000
51.19	0.000	0.000	Stratol_2_8_L_0									
36 D	10.43	-1.6881E-03	171.6	52.16	171.6	90.94	ACTIVE	0.000	-7.000	0.000	1.000	1.000
52.16	0.000	0.000	Stratol_2_8_L_0									
37 D	10.71	-1.5309E-03	176.1	53.54	176.1	93.35	ACTIVE	0.000	-7.200	0.000	1.000	1.000
53.54	0.000	0.000	Stratol_2_8_L_0									
38 D	11.31	-1.3843E-03	179.3	56.55	179.3	95.05	UL-RL	2.1827E+04	-7.400	0.000	1.000	1.000
56.55	0.000	0.000	Stratol_2_8_L_0									
39 D	12.37	-1.2481E-03	183.7	61.84	183.7	97.36	UL-RL	2.1827E+04	-7.600	0.000	1.000	1.000
61.84	0.000	0.000	Stratol_2_8_L_0									
40 D	13.27	-1.1221E-03	186.9	66.33	186.9	99.08	UL-RL	2.1827E+04	-7.800	0.000	1.000	1.000
66.33	0.000	0.000	Stratol_2_8_L_0									
41 D	14.25	-1.0060E-03	191.4	71.25	191.4	101.5	UL-RL	2.1827E+04	-8.000	0.000	1.000	1.000
71.25	0.000	0.000	Stratol_2_8_L_0									
42 D	15.07	-8.9945E-04	194.7	75.33	194.7	103.2	UL-RL	2.1827E+04	-8.200	0.000	1.000	1.000
75.33	0.000	0.000	Stratol_2_8_L_0									
43 D	15.97	-8.0218E-04	199.1	79.84	199.1	105.5	UL-RL	2.1827E+04	-8.400	0.000	1.000	1.000
79.84	0.000	0.000	Stratol_2_8_L_0									
44 D	16.71	-7.1376E-04	202.4	83.55	202.4	107.3	UL-RL	2.1827E+04	-8.600	0.000	1.000	1.000
83.55	0.000	0.000	Stratol_2_8_L_0									
45 D	17.54	-6.3382E-04	206.8	87.68	206.8	109.6	UL-RL	2.1827E+04	-8.800	0.000	1.000	1.000
87.68	0.000	0.000	Stratol_2_8_L_0									
46 D	18.20	-5.6193E-04	210.0	90.99	210.0	111.3	UL-RL	2.1827E+04	-9.000	0.000	1.000	1.000
90.99	0.000	0.000	Stratol_2_8_L_0									
47 D	18.95	-4.9768E-04	214.4	94.77	214.4	113.6	UL-RL	2.1827E+04	-9.200	0.000	1.000	1.000
94.77	0.000	0.000	Stratol_2_8_L_0									
48 D	19.57	-4.4063E-04	217.7	97.86	217.7	115.4	UL-RL	2.1827E+04	-9.400	0.000	1.000	1.000
97.86	0.000	0.000	Stratol_2_8_L_0									
49 D	20.27	-3.9035E-04	222.1	101.3	222.1	117.7	UL-RL	2.1827E+04	-9.600	0.000	1.000	1.000
101.3	0.000	0.000	Stratol_2_8_L_0									
50 D	20.83	-3.4640E-04	225.4	104.2	225.4	119.5	UL-RL	2.1827E+04	-9.800	0.000	1.000	1.000
104.2	0.000	0.000	Stratol_2_8_L_0									
51 D	21.48	-3.0834E-04	229.8	107.4	229.8	121.8	UL-RL	2.1827E+04	-10.00	0.000	1.000	1.000
107.4	0.000	0.000	Stratol_2_8_L_0									
52 D	22.00	-2.7575E-04	233.1	110.0	233.1	123.6	UL-RL	2.1827E+04	-10.20	0.000	1.000	1.000
110.0	0.000	0.000	Stratol_2_8_L_0									
53 D	22.60	-2.4819E-04	237.4	113.0	237.4	125.8	UL-RL	2.1827E+04	-10.40	0.000	1.000	1.000
113.0	0.000	0.000	Stratol_2_8_L_0									
54 D	23.07	-2.2526E-04	240.7	115.4	240.7	127.6	UL-RL	2.1827E+04	-10.60	0.000	1.000	1.000
115.4	0.000	0.000	Stratol_2_8_L_0									
55 D	23.64	-2.0656E-04	245.0	118.2	245.0	129.8	UL-RL	2.1827E+04	-10.80	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 449 di 1221
118.2	0.000	0.000	Strato1_2_8_L_0		
56 D	24.09	-1.9169E-04	248.4 120.4	248.4	131.6
120.4	0.000	0.000	Strato1_2_8_L_0		
57 D	24.62	-1.8028E-04	252.7 123.1	252.7	133.9
123.1	0.000	0.000	Strato1_2_8_L_0		
58 D	25.05	-1.7199E-04	256.1 125.3	256.1	135.7
125.3	0.000	0.000	Strato1_2_8_L_0		
59 D	25.56	-1.6645E-04	260.3 127.8	260.3	138.0
127.8	0.000	0.000	Strato1_2_8_L_0		
60 D	25.98	-1.6337E-04	263.7 129.9	263.7	139.8
129.9	0.000	0.000	Strato1_2_8_L_0		
61 D	26.46	-1.6243E-04	267.9 132.3	267.9	142.0
132.3	0.000	0.000	Strato1_2_8_L_0		
62 D	26.86	-1.6336E-04	271.3 134.3	271.3	143.8
134.3	0.000	0.000	Strato1_2_8_L_0		
63 D	27.34	-1.6589E-04	275.5 136.7	275.5	146.0
136.7	0.000	0.000	Strato1_2_8_L_0		
64 D	27.73	-1.6978E-04	279.0 138.6	279.0	147.9
138.6	0.000	0.000	Strato1_2_8_L_0		
65 D	28.19	-1.7482E-04	283.2 141.0	283.2	150.1
141.0	0.000	0.000	Strato1_2_8_L_0		
66 D	28.57	-1.8080E-04	286.7 142.9	286.7	151.9
142.9	0.000	0.000	Strato1_2_8_L_0		
67 D	24.00	-1.8755E-04	291.0 120.0	291.0	145.5
120.0	0.000	0.000	Strato2_3095_82743_L_0		
68 D	24.39	-1.9491E-04	294.6 122.0	294.6	147.3
122.0	0.000	0.000	Strato2_3095_82743_L_0		
69 D	24.84	-2.0274E-04	298.9 124.2	298.9	149.5
124.2	0.000	0.000	Strato2_3095_82743_L_0		
70 D	25.21	-2.1092E-04	302.6 126.0	302.6	151.3
126.0	0.000	0.000	Strato2_3095_82743_L_0		
71 D	25.64	-2.1935E-04	307.0 128.2	307.0	153.5
128.2	0.000	0.000	Strato2_3095_82743_L_0		
72 D	26.00	-2.2792E-04	310.7 130.0	310.7	155.3
130.0	0.000	0.000	Strato2_3095_82743_L_0		
73 D	26.42	-2.3657E-04	315.0 132.1	315.0	157.5
132.1	0.000	0.000	Strato2_3095_82743_L_0		
74 D	26.76	-2.4522E-04	318.7 133.8	318.7	159.4
133.8	0.000	0.000	Strato2_3095_82743_L_0		
75 D	27.17	-2.5384E-04	323.1 135.8	323.1	161.5
135.8	0.000	0.000	Strato2_3095_82743_L_0		
76 D	27.49	-2.6237E-04	326.7 137.5	326.7	163.3
137.5	0.000	0.000	Strato2_3095_82743_L_0		
77 D	27.89	-2.7079E-04	331.0 139.4	331.0	165.5
139.4	0.000	0.000	Strato2_3095_82743_L_0		
78 D	28.22	-2.7907E-04	334.7 141.1	334.7	167.4
141.1	0.000	0.000	Strato2_3095_82743_L_0		
79 D	28.60	-2.8722E-04	339.1 143.0	339.1	169.5
143.0	0.000	0.000	Strato2_3095_82743_L_0		
80 D	28.93	-2.9521E-04	342.8 144.6	342.8	171.4
144.6	0.000	0.000	Strato2_3095_82743_L_0		
81 D	29.31	-3.0306E-04	347.1 146.5	347.1	173.6
146.5	0.000	0.000	Strato2_3095_82743_L_0		
82 D	29.69	-3.1077E-04	351.4 148.4	351.4	175.7
148.4	0.000	0.000	Strato2_3095_82743_L_0		
83 D	30.01	-3.1835E-04	355.1 150.0	355.1	177.6
150.0	0.000	0.000	Strato2_3095_82743_L_0		
84 D	30.38	-3.2582E-04	359.4 151.9	359.4	179.7
151.9	0.000	0.000	Strato2_3095_82743_L_0		
85 D	30.69	-3.3320E-04	363.1 153.5	363.1	181.6
153.5	0.000	0.000	Strato2_3095_82743_L_0		
86 D	31.07	-3.4050E-04	367.4 155.3	367.4	183.7
155.3	0.000	0.000	Strato2_3095_82743_L_0		
87 D	31.39	-3.4775E-04	371.1 156.9	371.1	185.6
156.9	0.000	0.000	Strato2_3095_82743_L_0		
88 D	31.76	-3.5495E-04	375.4 158.8	375.4	187.7
158.8	0.000	0.000	Strato2_3095_82743_L_0		
89 D	32.08	-3.6213E-04	379.2 160.4	379.2	189.6
160.4	0.000	0.000	Strato2_3095_82743_L_0		
90 D	32.45	-3.6929E-04	383.5 162.3	383.5	191.7
162.3	0.000	0.000	Strato2_3095_82743_L_0		
91 D	16.38	-3.7645E-04	387.1 163.8	387.1	193.6
163.8	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SLERara_3454          |
|          Exe Time :29 July 2019          18:00:07          |
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 451 di 1221							
36 D	16.19	1.6881E-03	66.50	80.93	133.0	80.93	V-C	5049.	-7.000	0.000	1.000	1.000
80.93	0.000	0.000	Strato1_2_8_L_0									
37 D	16.43	1.5309E-03	70.30	82.15	136.8	82.15	V-C	5049.	-7.200	0.000	1.000	1.000
82.15	0.000	0.000	Strato1_2_8_L_0									
38 D	16.68	1.3843E-03	74.10	83.42	140.6	83.42	V-C	5049.	-7.400	0.000	1.000	1.000
83.42	0.000	0.000	Strato1_2_8_L_0									
39 D	16.95	1.2481E-03	77.90	84.75	144.4	84.75	V-C	5049.	-7.600	0.000	1.000	1.000
84.75	0.000	0.000	Strato1_2_8_L_0									
40 D	17.22	1.1221E-03	81.70	86.12	148.2	86.12	V-C	5049.	-7.800	0.000	1.000	1.000
86.12	0.000	0.000	Strato1_2_8_L_0									
41 D	17.51	1.0060E-03	85.50	87.55	152.0	87.55	V-C	5049.	-8.000	0.000	1.000	1.000
87.55	0.000	0.000	Strato1_2_8_L_0									
42 D	17.80	8.9945E-04	89.30	89.02	155.8	89.02	V-C	5049.	-8.200	0.000	1.000	1.000
89.02	0.000	0.000	Strato1_2_8_L_0									
43 D	18.11	8.0218E-04	93.10	90.53	159.6	90.53	V-C	5049.	-8.400	0.000	1.000	1.000
90.53	0.000	0.000	Strato1_2_8_L_0									
44 D	18.42	7.1376E-04	96.90	92.09	163.4	92.09	V-C	5049.	-8.600	0.000	1.000	1.000
92.09	0.000	0.000	Strato1_2_8_L_0									
45 D	18.74	6.3382E-04	100.7	93.69	167.2	93.69	V-C	5049.	-8.800	0.000	1.000	1.000
93.69	0.000	0.000	Strato1_2_8_L_0									
46 D	19.07	5.6193E-04	104.5	95.33	171.0	95.33	V-C	5049.	-9.000	0.000	1.000	1.000
95.33	0.000	0.000	Strato1_2_8_L_0									
47 D	19.40	4.9768E-04	108.3	97.00	174.8	97.00	V-C	5049.	-9.200	0.000	1.000	1.000
97.00	0.000	0.000	Strato1_2_8_L_0									
48 D	19.74	4.4063E-04	112.1	98.71	178.6	98.71	V-C	5049.	-9.400	0.000	1.000	1.000
98.71	0.000	0.000	Strato1_2_8_L_0									
49 D	20.09	3.9035E-04	115.9	100.5	182.4	100.5	V-C	5049.	-9.600	0.000	1.000	1.000
100.5	0.000	0.000	Strato1_2_8_L_0									
50 D	20.37	3.4640E-04	119.7	101.9	186.2	102.4	UL-RL	1.5147E+04	-9.800	0.000	1.000	1.000
101.9	0.000	0.000	Strato1_2_8_L_0									
51 D	20.67	3.0834E-04	123.5	103.3	190.0	104.4	UL-RL	1.5147E+04	-10.00	0.000	1.000	1.000
103.3	0.000	0.000	Strato1_2_8_L_0									
52 D	20.98	2.7575E-04	127.3	104.9	193.8	106.3	UL-RL	1.5147E+04	-10.20	0.000	1.000	1.000
104.9	0.000	0.000	Strato1_2_8_L_0									
53 D	21.30	2.4819E-04	131.1	106.5	197.6	108.3	UL-RL	1.5147E+04	-10.40	0.000	1.000	1.000
106.5	0.000	0.000	Strato1_2_8_L_0									
54 D	21.65	2.2526E-04	134.9	108.2	201.4	110.2	UL-RL	1.5147E+04	-10.60	0.000	1.000	1.000
108.2	0.000	0.000	Strato1_2_8_L_0									
55 D	22.00	2.0656E-04	138.7	110.0	205.2	112.2	UL-RL	1.5147E+04	-10.80	0.000	1.000	1.000
110.0	0.000	0.000	Strato1_2_8_L_0									
56 D	22.37	1.9169E-04	142.5	111.8	209.0	114.1	UL-RL	1.5147E+04	-11.00	0.000	1.000	1.000
111.8	0.000	0.000	Strato1_2_8_L_0									
57 D	22.74	1.8028E-04	146.3	113.7	212.8	116.1	UL-RL	1.5147E+04	-11.20	0.000	1.000	1.000
113.7	0.000	0.000	Strato1_2_8_L_0									
58 D	23.13	1.7199E-04	150.1	115.7	216.6	118.0	UL-RL	1.5147E+04	-11.40	0.000	1.000	1.000
115.7	0.000	0.000	Strato1_2_8_L_0									
59 D	23.53	1.6645E-04	153.9	117.6	220.4	119.9	UL-RL	1.5147E+04	-11.60	0.000	1.000	1.000
117.6	0.000	0.000	Strato1_2_8_L_0									
60 D	23.92	1.6337E-04	157.7	119.6	224.2	121.9	UL-RL	1.5147E+04	-11.80	0.000	1.000	1.000
119.6	0.000	0.000	Strato1_2_8_L_0									
61 D	24.31	1.6243E-04	161.5	121.6	228.0	123.8	UL-RL	1.5147E+04	-12.00	0.000	1.000	1.000
121.6	0.000	0.000	Strato1_2_8_L_0									
62 D	24.71	1.6336E-04	165.3	123.5	231.8	125.8	UL-RL	1.5147E+04	-12.20	0.000	1.000	1.000
123.5	0.000	0.000	Strato1_2_8_L_0									
63 D	25.11	1.6589E-04	169.1	125.5	235.6	127.8	UL-RL	1.5147E+04	-12.40	0.000	1.000	1.000
125.5	0.000	0.000	Strato1_2_8_L_0									
64 D	25.51	1.6978E-04	172.9	127.6	239.4	129.7	UL-RL	1.5147E+04	-12.60	0.000	1.000	1.000
127.6	0.000	0.000	Strato1_2_8_L_0									
65 D	25.92	1.7482E-04	176.7	129.6	243.2	131.7	UL-RL	1.5147E+04	-12.80	0.000	1.000	1.000
129.6	0.000	0.000	Strato1_2_8_L_0									
66 D	26.33	1.8080E-04	180.5	131.7	247.0	133.7	UL-RL	1.5147E+04	-13.00	0.000	1.000	1.000
131.7	0.000	0.000	Strato1_2_8_L_0									
67 D	22.20	1.8755E-04	184.4	111.0	250.9	130.6	UL-RL	3.3465E+04	-13.20	0.000	1.000	1.000
111.0	0.000	0.000	Strato2_3095_82743_L_0									
68 D	22.68	1.9491E-04	188.4	113.4	254.9	132.4	UL-RL	3.3465E+04	-13.40	0.000	1.000	1.000
113.4	0.000	0.000	Strato2_3095_82743_L_0									
69 D	23.16	2.0274E-04	192.4	115.8	258.9	134.2	UL-RL	3.3465E+04	-13.60	0.000	1.000	1.000
115.8	0.000	0.000	Strato2_3095_82743_L_0									
70 D	23.64	2.1092E-04	196.4	118.2	262.9	136.0	UL-RL	3.3465E+04	-13.80	0.000	1.000	1.000
118.2	0.000	0.000	Strato2_3095_82743_L_0									
71 D	24.12	2.1935E-04	200.4	120.6	266.9	137.8	UL-RL	3.3465E+04	-14.00	0.000	1.000	1.000
120.6	0.000	0.000	Strato2_3095_82743_L_0									
72 D	24.60	2.2792E-04	204.4	123.0	270.9	139.6	UL-RL	3.3465E+04	-14.20	0.000	1.000	1.000
123.0	0.000	0.000	Strato2_3095_82743_L_0									
73 D	25.08	2.3657E-04	208.4	125.4	274.9	141.5	UL-RL	3.3465E+04	-14.40	0.000	1.000	1.000
125.4	0.000	0.000	Strato2_3095_82743_L_0									
74 D	25.56	2.4522E-04	212.4	127.8	278.9	143.3	UL-RL	3.3465E+04	-14.60	0.000	1.000	1.000
127.8	0.000	0.000	Strato2_3095_82743_L_0									
75 D	26.04	2.5384E-04	216.4	130.2	282.9	145.2	UL-RL	3.3465E+04	-14.80	0.000	1.000	1.000
130.2	0.000	0.000	Strato2_3095_82743_L_0									
76 D	26.51	2.6237E-04	220.4	132.6	286.9	147.0	UL-RL	3.3465E+04	-15.00	0.000	1.000	1.000
132.6	0.000	0.000	Strato2_3095_82743_L_0									
77 D	26.98	2.7079E-04	224.4	134.9	290.9	148.9	UL-RL	3.3465E+04	-15.20	0.000	1.000	1.000
134.9	0.000	0.000	Strato2_3095_82743_L_0									
78 D	27.46	2.7907E-04	228.4	137.3	294.9	150.8	UL-RL	3.3465E+04	-15.40	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 452 di 1221
137.3	0.000	0.000	Strato2_3095_82743_L_0		
79 D	27.92	2.8722E-04	232.4 139.6	298.9	152.7
139.6	0.000	0.000	Strato2_3095_82743_L_0		
80 D	28.39	2.9521E-04	236.4 142.0	302.9	154.6
142.0	0.000	0.000	Strato2_3095_82743_L_0		
81 D	28.86	3.0306E-04	240.4 144.3	306.9	156.5
144.3	0.000	0.000	Strato2_3095_82743_L_0		
82 D	29.32	3.1077E-04	244.4 146.6	310.9	158.5
146.6	0.000	0.000	Strato2_3095_82743_L_0		
83 D	29.78	3.1835E-04	248.4 148.9	314.9	160.4
148.9	0.000	0.000	Strato2_3095_82743_L_0		
84 D	30.24	3.2582E-04	252.4 151.2	318.9	162.3
151.2	0.000	0.000	Strato2_3095_82743_L_0		
85 D	30.70	3.3320E-04	256.4 153.5	322.9	164.2
153.5	0.000	0.000	Strato2_3095_82743_L_0		
86 D	31.16	3.4050E-04	260.4 155.8	326.9	166.2
155.8	0.000	0.000	Strato2_3095_82743_L_0		
87 D	31.62	3.4775E-04	264.4 158.1	330.9	168.1
158.1	0.000	0.000	Strato2_3095_82743_L_0		
88 D	32.07	3.5495E-04	268.4 160.4	334.9	170.1
160.4	0.000	0.000	Strato2_3095_82743_L_0		
89 D	32.53	3.6213E-04	272.4 162.7	338.9	172.0
162.7	0.000	0.000	Strato2_3095_82743_L_0		
90 D	32.99	3.6929E-04	276.4 164.9	342.9	173.9
164.9	0.000	0.000	Strato2_3095_82743_L_0		
91 D	16.72	3.7645E-04	280.4 167.2	346.9	175.9
167.2	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
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|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      18:00:07
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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_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
C U R R E N T T I M E I S 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.30400	-0.30400	9.94582E-11	6.08000E-02
2	0.96154	-0.96154	-6.08000E-02	0.25311
3	2.8715	-2.8715	-0.25311	0.82740
4	4.8761	-4.8761	-0.82740	1.8026
5	7.6275	-7.6275	-1.8026	3.3281
6	10.469	-10.469	-3.3281	5.4219
7	13.865	-13.865	-5.4219	8.1948
8	17.367	-17.367	-8.1948	11.668
9	21.292	-21.292	-11.668	15.927
10	25.343	-25.343	-15.927	20.995
11	29.810	-29.810	-20.995	26.957
12	34.413	-34.413	-26.957	33.840
13	39.398	-39.398	-33.840	41.719
14	44.529	-44.529	-41.719	50.625
15	50.017	-50.017	-50.625	60.629
16	55.638	-55.638	-60.629	71.756
17	61.599	-61.599	-71.756	84.076
18	67.724	-67.724	-84.076	97.621
19	72.639	-72.639	-97.621	112.15
20	74.652	-74.652	-112.15	127.08
21	73.910	-73.910	-127.08	141.86
22	70.271	-70.271	-141.86	155.92
23	63.868	-63.868	-155.92	168.69
24	57.371	-57.371	-168.69	180.16
25	51.054	-51.054	-180.16	190.37
26	44.787	-44.787	-190.37	199.33
27	38.676	-38.676	-199.33	207.07
28	32.600	-32.600	-207.07	213.59
29	26.655	-26.655	-213.59	218.92
30	20.728	-20.728	-218.92	223.06
31	14.895	-14.895	-223.06	226.04
32	9.0624	-9.0624	-226.04	227.85
33	3.3111	-3.3111	-227.85	228.52
34	-2.4602	2.4602	-228.52	228.02
35	-8.1747	8.1747	-228.02	226.39

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 453 di 1221
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36	-13.929	13.929	-226.39	223.60
37	-19.650	19.650	-223.60	219.67
38	-25.024	25.024	-219.67	214.67
39	-29.606	29.606	-214.67	208.75
40	-33.565	33.565	-208.75	202.03
41	-36.824	36.824	-202.03	194.67
42	-39.561	39.561	-194.67	186.76
43	-41.700	41.700	-186.76	178.42
44	-43.408	43.408	-178.42	169.74
45	-44.610	44.610	-169.74	160.81
46	-45.479	45.479	-160.81	151.72
47	-45.925	45.925	-151.72	142.53
48	-46.096	46.096	-142.53	133.31
49	-45.920	45.920	-133.31	124.13
50	-45.461	45.461	-124.13	115.04
51	-44.652	44.652	-115.04	106.11
52	-43.632	43.632	-106.11	97.381
53	-42.339	42.339	-97.381	88.914
54	-40.913	40.913	-88.914	80.731
55	-39.278	39.278	-80.731	72.875
56	-37.555	37.555	-72.875	65.364
57	-35.674	35.674	-65.364	58.229
58	-33.750	33.750	-58.229	51.479
59	-31.711	31.711	-51.479	45.137
60	-29.659	29.659	-45.137	39.205
61	-27.514	27.514	-39.205	33.703
62	-25.365	25.365	-33.703	28.630
63	-23.138	23.138	-28.630	24.002
64	-20.926	20.926	-24.002	19.817
65	-18.654	18.654	-19.817	16.086
66	-16.412	16.412	-16.086	12.804
67	-14.613	14.613	-12.804	9.8811
68	-12.902	12.902	-9.8811	7.3007
69	-11.227	11.227	-7.3007	5.0553
70	-9.6604	9.6604	-5.0553	3.1232
71	-8.1408	8.1408	-3.1232	1.4951
72	-6.7448	6.7448	-1.4951	0.14620
73	-5.4104	5.4104	-0.14620	-0.93587
74	-4.2098	4.2098	0.93587	-1.7778
75	-3.0806	3.0806	1.7778	-2.3940
76	-2.0991	2.0991	2.3940	-2.8138
77	-1.1951	1.1951	2.8138	-3.0528
78	-0.43410	0.43410	3.0528	-3.1396
79	0.24591	-0.24591	3.1396	-3.0904
80	0.78203	-0.78203	3.0904	-2.9340
81	1.2355	-1.2355	2.9340	-2.6869
82	1.6053	-1.6053	2.6869	-2.3659
83	1.8321	-1.8321	2.3659	-1.9995
84	1.9682	-1.9682	1.9995	-1.6058
85	1.9627	-1.9627	1.6058	-1.2133
86	1.8734	-1.8734	1.2133	-0.83858
87	1.6439	-1.6439	0.83858	-0.50981
88	1.3304	-1.3304	0.50981	-0.24373
89	0.87776	-0.87776	0.24373	-6.81741E-02
90	0.34087	-0.34087	6.81741E-02	-1.33105E-12

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SLERara_3454                                                                              |
|          Exe Time :29 July 2019  18:00:07                                                                                              |
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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

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL FORCE d0 EDISPL pl. eps K -ve limit +ve limit

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
454 di 1221

|
| NewProject.BaseDesignSection_28.SLERara_3454 |
| Exe Time :29 July 2019 18:00:07 |
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL FORCE d0 EDISPL pl. eps K -ve limit +ve limit

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2882E+06 RIMNOR=0.2446E+07
RENORM=0.1852E+05 REMNOR=0.1013E-18 RATIO =0.2535 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 136.1 RMMAX = 228.5
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.2882E+06 RDR =0.2446E+07
RATIOT=0.2535 RATIO= 0.000
MAX UN=0.1584E-08 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
MIN UN=-136.1 IEQ= 31 NODE 16 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2882E+06 RIMNOR=0.2446E+07
RENORM= 23.06 REMNOR=0.9131E-19 RATIO =0.8944E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 136.1 RMMAX = 228.5
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.2882E+06 RDR =0.2446E+07
RATIOT=0.8944E-02 RATIO= 0.000
MAX UN=0.6030E-09 IEQ= 53 NODE 27 DOF 1 Y-DISPL.F
MIN UN=-2.455 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2882E+06 RIMNOR=0.2446E+07
RENORM=0.6034 REMNOR=0.1334E-18 RATIO =0.1447E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 136.1 RMMAX = 228.5
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.2882E+06 RDR =0.2446E+07
RATIOT=0.1447E-02 RATIO= 0.000
MAX UN=0.4526E-01 IEQ= 97 NODE 49 DOF 1 Y-DISPL.F
MIN UN=-.6232 IEQ= 29 NODE 15 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2882E+06 RIMNOR=0.2446E+07
RENORM=0.3987E-16 REMNOR=0.1012E-18 RATIO =0.1176E-10 TOLER =0.1000E-03 CONVERGED !
RFMAX = 136.1 RMMAX = 228.5
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.2882E+06 RDR =0.2446E+07
RATIOT=0.1176E-10 RATIO= 0.000
MAX UN=0.2578E-08 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F
MIN UN=-.2532E-08 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
|
| NewProject.BaseDesignSection_28.SLERara_3454 |
| Exe Time :29 July 2019 18:00:07 |
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New Project
SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 4 (AT TIME 4.000)

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

Y-DISPL.F X-ROT. F

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

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Doc. N.

Progetto
INORLotto
12Codifica Documento
E E2 CL GA 2701 002Rev.
AFoglio
455 di 1221

	(02)	(04)
1	1.0320382E-02	-1.5609441E-03
2	1.0008196E-02	-1.5609061E-03
3	9.6960302E-03	-1.5607153E-03
4	9.3839334E-03	-1.5601746E-03
5	9.0719999E-03	-1.5590405E-03
6	8.7603748E-03	-1.5570419E-03
7	8.4492608E-03	-1.5538794E-03
8	8.1389220E-03	-1.5492328E-03
9	7.8296894E-03	-1.5427602E-03
10	7.5219636E-03	-1.5341029E-03
11	7.2162190E-03	-1.5228846E-03
12	6.9130067E-03	-1.5087117E-03
13	6.6129586E-03	-1.4911734E-03
14	6.3167902E-03	-1.4698425E-03
15	6.0253041E-03	-1.4442755E-03
16	5.7393930E-03	-1.4140137E-03
17	5.4598277E-03	-1.3818147E-03
18	5.1866133E-03	-1.3504224E-03
19	4.9196384E-03	-1.3193359E-03
20	4.6588922E-03	-1.2880514E-03
21	4.4044618E-03	-1.2561066E-03
22	4.1565166E-03	-1.2231553E-03
23	3.9152797E-03	-1.1890041E-03
24	3.6809988E-03	-1.1536128E-03
25	3.4539154E-03	-1.1170272E-03
26	3.2342634E-03	-1.0793099E-03
27	3.0222619E-03	-1.0405361E-03
28	2.8181135E-03	-1.0007936E-03
29	2.6220033E-03	-9.6018310E-04
30	2.4340916E-03	-9.1881709E-04
31	2.2545184E-03	-8.7682113E-04
32	2.0833960E-03	-8.3433304E-04
33	1.9208080E-03	-7.9150283E-04
34	1.7668069E-03	-7.4849225E-04
35	1.6214123E-03	-7.0547469E-04
36	1.4846059E-03	-6.6263415E-04
37	1.3563338E-03	-6.2016619E-04
38	1.2365009E-03	-5.7827688E-04
39	1.1249707E-03	-5.3717305E-04
40	1.0215672E-03	-4.9704369E-04
41	9.2607789E-04	-4.5805189E-04
42	8.3826129E-04	-4.2033755E-04
43	7.5784987E-04	-3.8401826E-04
44	6.8455451E-04	-3.4919124E-04
45	6.1806898E-04	-3.1593505E-04
46	5.5807062E-04	-2.8430981E-04
47	5.0423163E-04	-2.5436299E-04
48	4.5621149E-04	-2.2612513E-04
49	4.1366668E-04	-1.9961387E-04
50	3.7625075E-04	-1.7483378E-04
51	3.4361821E-04	-1.5177814E-04
52	3.1542565E-04	-1.3042818E-04
53	2.9133508E-04	-1.1075386E-04
54	2.7101509E-04	-9.2714681E-05
55	2.5414346E-04	-7.6261708E-05
56	2.4040841E-04	-6.1338665E-05
57	2.2951019E-04	-4.7882720E-05
58	2.2116208E-04	-3.5825512E-05
59	2.1509160E-04	-2.5093991E-05
60	2.1104123E-04	-1.5611243E-05
61	2.0876920E-04	-7.2970432E-06
62	2.0805005E-04	-6.8252107E-08
63	2.0867527E-04	6.1610826E-06
64	2.1045376E-04	1.1479487E-05
65	2.1321239E-04	1.5977696E-05
66	2.1679633E-04	1.9748274E-05
67	2.2106946E-04	2.2885324E-05
68	2.2591319E-04	2.5463322E-05
69	2.3122113E-04	2.7536419E-05
70	2.3689766E-04	2.9158110E-05
71	2.4285777E-04	3.0380739E-05
72	2.4902674E-04	3.1255202E-05
73	2.5533959E-04	3.1830522E-05
74	2.6174182E-04	3.2153550E-05
75	2.6818714E-04	3.2268477E-05
76	2.7463809E-04	3.2216655E-05
77	2.8106522E-04	3.2036157E-05
78	2.8744628E-04	3.1761552E-05
79	2.9376564E-04	3.1423935E-05
80	3.0001349E-04	3.1050769E-05
81	3.0618516E-04	3.0665793E-05
82	3.1228034E-04	3.0288915E-05
83	3.1830243E-04	2.9937584E-05
84	3.2425798E-04	2.9625304E-05

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 456 di 1221
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85 3.3015607E-04 2.9361410E-05
 86 3.3600641E-04 2.9151114E-05
 87 3.4182017E-04 2.8995560E-05
 88 3.4760809E-04 2.8891891E-05
 89 3.5337992E-04 2.8833212E-05
 90 3.5914365E-04 2.8808607E-05
 91 3.6490464E-04 2.8803125E-05

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      18:00:07
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 4.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1 D	1.600	-1.0320E-02	10.00	16.00	10.00	16.00	V-C	7276.	0.000	0.000	1.000	1.000
16.00	0.000	0.000	Strato1_2_8_L_0									
2 D	3.236	-1.0008E-02	10.81	16.18	10.81	16.18	V-C	7276.	-0.2000	0.000	1.000	1.000
16.18	0.000	0.000	Strato1_2_8_L_0									
3 D	5.071	-9.6960E-03	31.41	25.36	31.41	25.36	V-C	7276.	-0.4000	0.000	1.000	1.000
25.36	0.000	0.000	Strato1_2_8_L_0									
4 D	5.175	-9.3839E-03	32.97	25.88	32.97	25.88	V-C	7276.	-0.6000	0.000	1.000	1.000
25.88	0.000	0.000	Strato1_2_8_L_0									
5 D	6.254	-9.0720E-03	45.25	31.27	45.25	31.27	V-C	7276.	-0.8000	0.000	1.000	1.000
31.27	0.000	0.000	Strato1_2_8_L_0									
6 D	6.350	-8.7604E-03	46.73	31.75	46.73	31.75	V-C	7276.	-1.000	0.000	1.000	1.000
31.75	0.000	0.000	Strato1_2_8_L_0									
7 D	7.141	-8.4493E-03	55.86	35.71	55.86	35.71	V-C	7276.	-1.200	0.000	1.000	1.000
35.71	0.000	0.000	Strato1_2_8_L_0									
8 D	7.260	-8.1389E-03	57.60	36.30	57.60	36.30	V-C	7276.	-1.400	0.000	1.000	1.000
36.30	0.000	0.000	Strato1_2_8_L_0									
9 D	7.852	-7.8297E-03	64.56	39.26	64.56	39.26	V-C	7276.	-1.600	0.000	1.000	1.000
39.26	0.000	0.000	Strato1_2_8_L_0									
10 D	7.998	-7.5220E-03	66.63	39.99	66.63	39.99	V-C	7276.	-1.800	0.000	1.000	1.000
39.99	0.000	0.000	Strato1_2_8_L_0									
11 D	8.576	-7.2162E-03	73.46	42.88	73.46	42.88	V-C	7276.	-2.000	0.000	1.000	1.000
42.88	0.000	0.000	Strato1_2_8_L_0									
12 D	8.735	-6.9130E-03	75.72	43.68	75.72	43.68	V-C	7276.	-2.200	0.000	1.000	1.000
43.68	0.000	0.000	Strato1_2_8_L_0									
13 D	9.256	-6.6130E-03	81.98	46.28	81.98	46.28	V-C	7276.	-2.400	0.000	1.000	1.000
46.28	0.000	0.000	Strato1_2_8_L_0									
14 D	9.424	-6.3168E-03	84.40	47.12	84.40	47.12	V-C	7276.	-2.600	0.000	1.000	1.000
47.12	0.000	0.000	Strato1_2_8_L_0									
15 D	9.901	-6.0253E-03	90.27	49.51	90.27	49.51	V-C	7276.	-2.800	0.000	1.000	1.000
49.51	0.000	0.000	Strato1_2_8_L_0									
16 D	10.04	-5.7394E-03	92.44	50.19	92.44	50.19	V-C	7276.	-3.000	0.000	1.000	1.000
50.19	0.000	0.000	Strato1_2_8_L_0									
17 D	10.48	-5.4598E-03	98.05	52.41	98.05	52.41	V-C	7276.	-3.200	0.000	1.000	1.000
52.41	0.000	0.000	Strato1_2_8_L_0									
18 D	10.61	-5.1866E-03	100.7	53.07	100.7	53.39	UL-RL	2.1827E+04	-3.400	0.000	1.000	1.000
53.07	0.000	0.000	Strato1_2_8_L_0									
19 D	10.72	-4.9196E-03	106.1	53.61	106.1	56.24	UL-RL	2.1827E+04	-3.600	0.000	1.000	1.000
53.61	0.000	0.000	Strato1_2_8_L_0									
20 D	10.66	-4.6589E-03	108.9	53.32	108.9	57.70	UL-RL	2.1827E+04	-3.800	0.000	1.000	1.000
53.32	0.000	0.000	Strato1_2_8_L_0									
21 D	10.75	-4.4045E-03	114.1	53.75	114.1	60.46	UL-RL	2.1827E+04	-4.000	0.000	1.000	1.000
53.75	0.000	0.000	Strato1_2_8_L_0									
22 D	10.69	-4.1565E-03	116.9	53.46	116.9	61.97	UL-RL	2.1827E+04	-4.200	0.000	1.000	1.000
53.46	0.000	0.000	Strato1_2_8_L_0									
23 D	10.77	-3.9153E-03	122.0	53.83	122.0	64.66	UL-RL	2.1827E+04	-4.400	0.000	1.000	1.000
53.83	0.000	0.000	Strato1_2_8_L_0									
24 D	10.70	-3.6810E-03	124.7	53.49	124.7	66.07	UL-RL	2.1827E+04	-4.600	0.000	1.000	1.000
53.49	0.000	0.000	Strato1_2_8_L_0									
25 D	10.77	-3.4539E-03	129.6	53.86	129.6	68.70	UL-RL	2.1827E+04	-4.800	0.000	1.000	1.000
53.86	0.000	0.000	Strato1_2_8_L_0									
26 D	10.73	-3.2343E-03	132.6	53.66	132.6	70.28	UL-RL	2.1827E+04	-5.000	0.000	1.000	1.000

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Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 457 di 1221
53.66	0.000	0.000	Strato1_2_8_L_0				
27 D	10.81	-3.0223E-03	137.5	54.05	137.5	72.85	UL-RL 2.1827E+04 -5.200 0.000 1.000 1.000
54.05	0.000	0.000	Strato1_2_8_L_0				
28 D	10.79	-2.8181E-03	140.5	53.93	140.5	74.46	UL-RL 2.1827E+04 -5.400 0.000 1.000 1.000
53.93	0.000	0.000	Strato1_2_8_L_0				
29 D	10.88	-2.6220E-03	145.3	54.38	145.3	76.99	UL-RL 2.1827E+04 -5.600 0.000 1.000 1.000
54.38	0.000	0.000	Strato1_2_8_L_0				
30 D	10.87	-2.4341E-03	148.3	54.35	148.3	78.62	UL-RL 2.1827E+04 -5.800 0.000 1.000 1.000
54.35	0.000	0.000	Strato1_2_8_L_0				
31 D	10.96	-2.2545E-03	152.9	54.80	152.9	81.02	UL-RL 2.1827E+04 -6.000 0.000 1.000 1.000
54.80	0.000	0.000	Strato1_2_8_L_0				
32 D	10.97	-2.0834E-03	156.0	54.87	156.0	82.67	UL-RL 2.1827E+04 -6.200 0.000 1.000 1.000
54.87	0.000	0.000	Strato1_2_8_L_0				
33 D	11.09	-1.9208E-03	160.6	55.46	160.6	85.14	UL-RL 2.1827E+04 -6.400 0.000 1.000 1.000
55.46	0.000	0.000	Strato1_2_8_L_0				
34 D	11.13	-1.7668E-03	163.8	55.64	163.8	86.81	UL-RL 2.1827E+04 -6.600 0.000 1.000 1.000
55.64	0.000	0.000	Strato1_2_8_L_0				
35 D	11.26	-1.6214E-03	168.4	56.31	168.4	89.25	UL-RL 2.1827E+04 -6.800 0.000 1.000 1.000
56.31	0.000	0.000	Strato1_2_8_L_0				
36 D	11.32	-1.4846E-03	171.6	56.60	171.6	90.94	UL-RL 2.1827E+04 -7.000 0.000 1.000 1.000
56.60	0.000	0.000	Strato1_2_8_L_0				
37 D	11.47	-1.3563E-03	176.1	57.35	176.1	93.35	UL-RL 2.1827E+04 -7.200 0.000 1.000 1.000
57.35	0.000	0.000	Strato1_2_8_L_0				
38 D	11.96	-1.2365E-03	179.3	59.78	179.3	95.05	UL-RL 2.1827E+04 -7.400 0.000 1.000 1.000
59.78	0.000	0.000	Strato1_2_8_L_0				
39 D	12.91	-1.1250E-03	183.7	64.53	183.7	97.36	UL-RL 2.1827E+04 -7.600 0.000 1.000 1.000
64.53	0.000	0.000	Strato1_2_8_L_0				
40 D	13.70	-1.0216E-03	186.9	68.52	186.9	99.08	UL-RL 2.1827E+04 -7.800 0.000 1.000 1.000
68.52	0.000	0.000	Strato1_2_8_L_0				
41 D	14.60	-9.2608E-04	191.4	72.99	191.4	101.5	UL-RL 2.1827E+04 -8.000 0.000 1.000 1.000
72.99	0.000	0.000	Strato1_2_8_L_0				
42 D	15.33	-8.3826E-04	194.7	76.67	194.7	103.2	UL-RL 2.1827E+04 -8.200 0.000 1.000 1.000
76.67	0.000	0.000	Strato1_2_8_L_0				
43 D	16.16	-7.5785E-04	199.1	80.81	199.1	105.5	UL-RL 2.1827E+04 -8.400 0.000 1.000 1.000
80.81	0.000	0.000	Strato1_2_8_L_0				
44 D	16.84	-6.8455E-04	202.4	84.19	202.4	107.3	UL-RL 2.1827E+04 -8.600 0.000 1.000 1.000
84.19	0.000	0.000	Strato1_2_8_L_0				
45 D	17.60	-6.1807E-04	206.8	88.02	206.8	109.6	UL-RL 2.1827E+04 -8.800 0.000 1.000 1.000
88.02	0.000	0.000	Strato1_2_8_L_0				
46 D	18.21	-5.5807E-04	210.0	91.07	210.0	111.3	UL-RL 2.1827E+04 -9.000 0.000 1.000 1.000
91.07	0.000	0.000	Strato1_2_8_L_0				
47 D	18.93	-5.0423E-04	214.4	94.63	214.4	113.6	UL-RL 2.1827E+04 -9.200 0.000 1.000 1.000
94.63	0.000	0.000	Strato1_2_8_L_0				
48 D	19.50	-4.5621E-04	217.7	97.52	217.7	115.4	UL-RL 2.1827E+04 -9.400 0.000 1.000 1.000
97.52	0.000	0.000	Strato1_2_8_L_0				
49 D	20.17	-4.1367E-04	222.1	100.8	222.1	117.7	UL-RL 2.1827E+04 -9.600 0.000 1.000 1.000
100.8	0.000	0.000	Strato1_2_8_L_0				
50 D	20.70	-3.7625E-04	225.4	103.5	225.4	119.5	UL-RL 2.1827E+04 -9.800 0.000 1.000 1.000
103.5	0.000	0.000	Strato1_2_8_L_0				
51 D	21.32	-3.4362E-04	229.8	106.6	229.8	121.8	UL-RL 2.1827E+04 -10.00 0.000 1.000 1.000
106.6	0.000	0.000	Strato1_2_8_L_0				
52 D	21.82	-3.1543E-04	233.1	109.1	233.1	123.6	UL-RL 2.1827E+04 -10.20 0.000 1.000 1.000
109.1	0.000	0.000	Strato1_2_8_L_0				
53 D	22.41	-2.9134E-04	237.4	112.1	237.4	125.8	UL-RL 2.1827E+04 -10.40 0.000 1.000 1.000
112.1	0.000	0.000	Strato1_2_8_L_0				
54 D	22.87	-2.7102E-04	240.7	114.4	240.7	127.6	UL-RL 2.1827E+04 -10.60 0.000 1.000 1.000
114.4	0.000	0.000	Strato1_2_8_L_0				
55 D	23.43	-2.5414E-04	245.0	117.1	245.0	129.8	UL-RL 2.1827E+04 -10.80 0.000 1.000 1.000
117.1	0.000	0.000	Strato1_2_8_L_0				
56 D	23.88	-2.4041E-04	248.4	119.4	248.4	131.6	UL-RL 2.1827E+04 -11.00 0.000 1.000 1.000
119.4	0.000	0.000	Strato1_2_8_L_0				
57 D	24.41	-2.2951E-04	252.7	122.0	252.7	133.9	UL-RL 2.1827E+04 -11.20 0.000 1.000 1.000
122.0	0.000	0.000	Strato1_2_8_L_0				
58 D	24.84	-2.2116E-04	256.1	124.2	256.1	135.7	UL-RL 2.1827E+04 -11.40 0.000 1.000 1.000
124.2	0.000	0.000	Strato1_2_8_L_0				
59 D	25.35	-2.1509E-04	260.3	126.8	260.3	138.0	UL-RL 2.1827E+04 -11.60 0.000 1.000 1.000
126.8	0.000	0.000	Strato1_2_8_L_0				
60 D	25.77	-2.1104E-04	263.7	128.8	263.7	139.8	UL-RL 2.1827E+04 -11.80 0.000 1.000 1.000
128.8	0.000	0.000	Strato1_2_8_L_0				
61 D	26.26	-2.0877E-04	267.9	131.3	267.9	142.0	UL-RL 2.1827E+04 -12.00 0.000 1.000 1.000
131.3	0.000	0.000	Strato1_2_8_L_0				
62 D	26.66	-2.0805E-04	271.3	133.3	271.3	143.8	UL-RL 2.1827E+04 -12.20 0.000 1.000 1.000
133.3	0.000	0.000	Strato1_2_8_L_0				
63 D	27.15	-2.0868E-04	275.5	135.7	275.5	146.0	UL-RL 2.1827E+04 -12.40 0.000 1.000 1.000
135.7	0.000	0.000	Strato1_2_8_L_0				
64 D	27.55	-2.1045E-04	279.0	137.7	279.0	147.9	UL-RL 2.1827E+04 -12.60 0.000 1.000 1.000
137.7	0.000	0.000	Strato1_2_8_L_0				
65 D	28.02	-2.1321E-04	283.2	140.1	283.2	150.1	UL-RL 2.1827E+04 -12.80 0.000 1.000 1.000
140.1	0.000	0.000	Strato1_2_8_L_0				
66 D	28.42	-2.1680E-04	286.7	142.1	286.7	151.9	UL-RL 2.1827E+04 -13.00 0.000 1.000 1.000
142.1	0.000	0.000	Strato1_2_8_L_0				
67 D	23.59	-2.2107E-04	291.0	117.9	291.0	145.5	UL-RL 6.1746E+04 -13.20 0.000 1.000 1.000
117.9	0.000	0.000	Strato2_3095_82743_L_0				
68 D	24.01	-2.2591E-04	294.6	120.0	294.6	147.3	UL-RL 6.1746E+04 -13.40 0.000 1.000 1.000
120.0	0.000	0.000	Strato2_3095_82743_L_0				

GENERAL CONTRACTOR

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 459 di 1221						
7	0.000	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available	--	--						
9	0.000	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available	--	--						
11	0.000	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available	--	--						
13	0.000	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available	--	--						
15	0.000	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
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	not available	--	--						
17	0.000	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
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	not available	--	--						
19 D	0.1155	4.9196E-03	1.900	0.5776	68.40	40.03	ACTIVE	0.000	-3.600	0.000	1.000
0.5776	0.000	0.000	Stratol_2_8_L_0								
20 D	1.800	4.6589E-03	5.700	8.998	72.20	42.06	UL-RL	1.5147E+04	-3.800	0.000	1.000
8.998	0.000	0.000	Stratol_2_8_L_0								
21 D	5.031	4.4045E-03	9.500	25.15	76.00	44.08	UL-RL	1.5147E+04	-4.000	0.000	1.000
25.15	0.000	0.000	Stratol_2_8_L_0								
22 D	8.263	4.1565E-03	13.30	41.32	79.80	53.75	UL-RL	1.5147E+04	-4.200	0.000	1.000
41.32	0.000	0.000	Stratol_2_8_L_0								
23 D	11.50	3.9153E-03	17.10	57.48	83.60	69.10	UL-RL	1.5147E+04	-4.400	0.000	1.000
57.48	0.000	0.000	Stratol_2_8_L_0								
24 D	11.91	3.6810E-03	20.90	59.56	87.40	70.38	UL-RL	1.5147E+04	-4.600	0.000	1.000
59.56	0.000	0.000	Stratol_2_8_L_0								
25 D	12.19	3.4539E-03	24.70	60.96	91.20	70.99	UL-RL	1.5147E+04	-4.800	0.000	1.000
60.96	0.000	0.000	Stratol_2_8_L_0								
26 D	12.48	3.2343E-03	28.50	62.38	95.00	71.64	UL-RL	1.5147E+04	-5.000	0.000	1.000
62.38	0.000	0.000	Stratol_2_8_L_0								
27 D	12.77	3.0223E-03	32.30	63.83	98.80	72.34	UL-RL	1.5147E+04	-5.200	0.000	1.000
63.83	0.000	0.000	Stratol_2_8_L_0								
28 D	13.06	2.8181E-03	36.10	65.30	102.6	73.09	UL-RL	1.5147E+04	-5.400	0.000	1.000
65.30	0.000	0.000	Stratol_2_8_L_0								
29 D	13.36	2.6220E-03	39.90	66.80	106.4	73.89	UL-RL	1.5147E+04	-5.600	0.000	1.000
66.80	0.000	0.000	Stratol_2_8_L_0								
30 D	13.66	2.4341E-03	43.70	68.32	110.2	74.73	UL-RL	1.5147E+04	-5.800	0.000	1.000
68.32	0.000	0.000	Stratol_2_8_L_0								
31 D	13.97	2.2545E-03	47.50	69.85	114.0	75.63	UL-RL	1.5147E+04	-6.000	0.000	1.000
69.85	0.000	0.000	Stratol_2_8_L_0								
32 D	14.28	2.0834E-03	51.30	71.41	117.8	76.58	UL-RL	1.5147E+04	-6.200	0.000	1.000
71.41	0.000	0.000	Stratol_2_8_L_0								
33 D	14.60	1.9208E-03	55.10	72.99	121.6	77.59	UL-RL	1.5147E+04	-6.400	0.000	1.000
72.99	0.000	0.000	Stratol_2_8_L_0								
34 D	14.92	1.7668E-03	58.90	74.59	125.4	78.65	UL-RL	1.5147E+04	-6.600	0.000	1.000
74.59	0.000	0.000	Stratol_2_8_L_0								
35 D	15.24	1.6214E-03	62.70	76.21	129.2	79.76	UL-RL	1.5147E+04	-6.800	0.000	1.000
76.21	0.000	0.000	Stratol_2_8_L_0								
36 D	15.57	1.4846E-03	66.50	77.85	133.0	80.93	UL-RL	1.5147E+04	-7.000	0.000	1.000
77.85	0.000	0.000	Stratol_2_8_L_0								
37 D	15.90	1.3563E-03	70.30	79.51	136.8	82.15	UL-RL	1.5147E+04	-7.200	0.000	1.000
79.51	0.000	0.000	Stratol_2_8_L_0								
38 D	16.24	1.2365E-03	74.10	81.19	140.6	83.42	UL-RL	1.5147E+04	-7.400	0.000	1.000
81.19	0.000	0.000	Stratol_2_8_L_0								
39 D	16.58	1.1250E-03	77.90	82.88	144.4	84.75	UL-RL	1.5147E+04	-7.600	0.000	1.000
82.88	0.000	0.000	Stratol_2_8_L_0								
40 D	16.92	1.0216E-03	81.70	84.60	148.2	86.12	UL-RL	1.5147E+04	-7.800	0.000	1.000
84.60	0.000	0.000	Stratol_2_8_L_0								
41 D	17.27	9.2608E-04	85.50	86.34	152.0	87.55	UL-RL	1.5147E+04	-8.000	0.000	1.000
86.34	0.000	0.000	Stratol_2_8_L_0								
42 D	17.62	8.3826E-04	89.30	88.09	155.8	89.02	UL-RL	1.5147E+04	-8.200	0.000	1.000
88.09	0.000	0.000	Stratol_2_8_L_0								
43 D	17.97	7.5785E-04	93.10	89.86	159.6	90.53	UL-RL	1.5147E+04	-8.400	0.000	1.000
89.86	0.000	0.000	Stratol_2_8_L_0								
44 D	18.33	6.8455E-04	96.90	91.65	163.4	92.09	UL-RL	1.5147E+04	-8.600	0.000	1.000
91.65	0.000	0.000	Stratol_2_8_L_0								
45 D	18.69	6.1807E-04	100.7	93.45	167.2	93.69	UL-RL	1.5147E+04	-8.800	0.000	1.000
93.45	0.000	0.000	Stratol_2_8_L_0								
46 D	19.05	5.5807E-04	104.5	95.27	171.0	95.33	UL-RL	1.5147E+04	-9.000	0.000	1.000
95.27	0.000	0.000	Stratol_2_8_L_0								
47 D	19.41	5.0423E-04	108.3	97.04	174.8	97.04	V-C	5049.	-9.200	0.000	1.000
97.04	0.000	0.000	Stratol_2_8_L_0								
48 D	19.76	4.5621E-04	112.1	98.79	178.6	98.79	V-C	5049.	-9.400	0.000	1.000
98.79	0.000	0.000	Stratol_2_8_L_0								
49 D	20.11	4.1367E-04	115.9	100.6	182.4	100.6	V-C	5049.	-9.600	0.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 460 di 1221
100.6	0.000	0.000	Strato1_2_8_L_0		
50 D	20.46	3.7625E-04	119.7 102.3	186.2	102.4
102.3	0.000	0.000	Strato1_2_8_L_0		
51 D	20.77	3.4362E-04	123.5 103.9	190.0	104.4
103.9	0.000	0.000	Strato1_2_8_L_0		
52 D	21.10	3.1543E-04	127.3 105.5	193.8	106.3
105.5	0.000	0.000	Strato1_2_8_L_0		
53 D	21.44	2.9134E-04	131.1 107.2	197.6	108.3
107.2	0.000	0.000	Strato1_2_8_L_0		
54 D	21.78	2.7102E-04	134.9 108.9	201.4	110.2
108.9	0.000	0.000	Strato1_2_8_L_0		
55 D	22.14	2.5414E-04	138.7 110.7	205.2	112.2
110.7	0.000	0.000	Strato1_2_8_L_0		
56 D	22.51	2.4041E-04	142.5 112.6	209.0	114.1
112.6	0.000	0.000	Strato1_2_8_L_0		
57 D	22.89	2.2951E-04	146.3 114.5	212.8	116.1
114.5	0.000	0.000	Strato1_2_8_L_0		
58 D	23.28	2.2116E-04	150.1 116.4	216.6	118.0
116.4	0.000	0.000	Strato1_2_8_L_0		
59 D	23.67	2.1509E-04	153.9 118.4	220.4	119.9
118.4	0.000	0.000	Strato1_2_8_L_0		
60 D	24.07	2.1104E-04	157.7 120.3	224.2	121.9
120.3	0.000	0.000	Strato1_2_8_L_0		
61 D	24.45	2.0877E-04	161.5 122.3	228.0	123.8
122.3	0.000	0.000	Strato1_2_8_L_0		
62 D	24.84	2.0805E-04	165.3 124.2	231.8	125.8
124.2	0.000	0.000	Strato1_2_8_L_0		
63 D	25.24	2.0868E-04	169.1 126.2	235.6	127.8
126.2	0.000	0.000	Strato1_2_8_L_0		
64 D	25.64	2.1045E-04	172.9 128.2	239.4	129.7
128.2	0.000	0.000	Strato1_2_8_L_0		
65 D	26.04	2.1321E-04	176.7 130.2	243.2	131.7
130.2	0.000	0.000	Strato1_2_8_L_0		
66 D	26.44	2.1680E-04	180.5 132.2	247.0	133.7
132.2	0.000	0.000	Strato1_2_8_L_0		
67 D	22.43	2.2107E-04	184.4 112.1	250.9	130.6
112.1	0.000	0.000	Strato2_3095_82743_L_0		
68 D	22.89	2.2591E-04	188.4 114.4	254.9	132.4
114.4	0.000	0.000	Strato2_3095_82743_L_0		
69 D	23.35	2.3122E-04	192.4 116.8	258.9	134.2
116.8	0.000	0.000	Strato2_3095_82743_L_0		
70 D	23.81	2.3690E-04	196.4 119.1	262.9	136.0
119.1	0.000	0.000	Strato2_3095_82743_L_0		
71 D	24.28	2.4286E-04	200.4 121.4	266.9	137.8
121.4	0.000	0.000	Strato2_3095_82743_L_0		
72 D	24.74	2.4903E-04	204.4 123.7	270.9	139.6
123.7	0.000	0.000	Strato2_3095_82743_L_0		
73 D	25.21	2.5534E-04	208.4 126.0	274.9	141.5
126.0	0.000	0.000	Strato2_3095_82743_L_0		
74 D	25.67	2.6174E-04	212.4 128.4	278.9	143.3
128.4	0.000	0.000	Strato2_3095_82743_L_0		
75 D	26.13	2.6819E-04	216.4 130.7	282.9	145.2
130.7	0.000	0.000	Strato2_3095_82743_L_0		
76 D	26.59	2.7464E-04	220.4 133.0	286.9	147.0
133.0	0.000	0.000	Strato2_3095_82743_L_0		
77 D	27.05	2.8107E-04	224.4 135.3	290.9	148.9
135.3	0.000	0.000	Strato2_3095_82743_L_0		
78 D	27.51	2.8745E-04	228.4 137.6	294.9	150.8
137.6	0.000	0.000	Strato2_3095_82743_L_0		
79 D	27.97	2.9377E-04	232.4 139.8	298.9	152.7
139.8	0.000	0.000	Strato2_3095_82743_L_0		
80 D	28.42	3.0001E-04	236.4 142.1	302.9	154.6
142.1	0.000	0.000	Strato2_3095_82743_L_0		
81 D	28.88	3.0619E-04	240.4 144.4	306.9	156.5
144.4	0.000	0.000	Strato2_3095_82743_L_0		
82 D	29.33	3.1228E-04	244.4 146.6	310.9	158.5
146.6	0.000	0.000	Strato2_3095_82743_L_0		
83 D	29.78	3.1830E-04	248.4 148.9	314.9	160.4
148.9	0.000	0.000	Strato2_3095_82743_L_0		
84 D	30.23	3.2426E-04	252.4 151.2	318.9	162.3
151.2	0.000	0.000	Strato2_3095_82743_L_0		
85 D	30.68	3.3016E-04	256.4 153.4	322.9	164.2
153.4	0.000	0.000	Strato2_3095_82743_L_0		
86 D	31.13	3.3601E-04	260.4 155.6	326.9	166.2
155.6	0.000	0.000	Strato2_3095_82743_L_0		
87 D	31.58	3.4182E-04	264.4 157.9	330.9	168.1
157.9	0.000	0.000	Strato2_3095_82743_L_0		
88 D	32.02	3.4761E-04	268.4 160.1	334.9	170.1
160.1	0.000	0.000	Strato2_3095_82743_L_0		
89 D	32.47	3.5338E-04	272.4 162.4	338.9	172.0
162.4	0.000	0.000	Strato2_3095_82743_L_0		
90 D	32.92	3.5914E-04	276.4 164.6	342.9	173.9
164.6	0.000	0.000	Strato2_3095_82743_L_0		
91 D	16.68	3.6490E-04	280.4 166.8	346.9	175.9

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
461 di 1221

166.8 0.000 0.000 Strato2_3095_82743_I_0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:00:07          |
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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_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
C U R R E N T T I M E I S 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.5999	-1.5999	-2.41389E-11	0.31998
2	4.8360	-4.8360	-0.31998	1.2872
3	9.9074	-9.9074	-1.2872	3.2687
4	15.083	-15.083	-3.2687	6.2852
5	21.337	-21.337	-6.2852	10.553
6	27.687	-27.687	-10.553	16.090
7	34.828	-34.828	-16.090	23.055
8	42.087	-42.087	-23.055	31.473
9	49.939	-49.939	-31.473	41.461
10	57.938	-57.938	-41.461	53.048
11	66.514	-66.514	-53.048	66.351
12	75.249	-75.249	-66.351	81.401
13	84.505	-84.505	-81.401	98.302
14	93.928	-93.928	-98.302	117.09
15	103.83	-103.83	-117.09	137.85
16	-22.231	22.231	-137.85	133.41
17	-11.748	11.748	-133.41	131.06
18	-1.1334	1.1334	-131.06	130.83
19	9.4737	-9.4737	-130.83	132.73
20	18.339	-18.339	-132.73	136.39
21	24.058	-24.058	-136.39	141.21
22	26.486	-26.486	-141.21	146.50
23	25.757	-25.757	-146.50	151.65
24	24.543	-24.543	-151.65	156.56
25	23.124	-23.124	-156.56	161.19
26	21.380	-21.380	-161.19	165.46
27	19.424	-19.424	-165.46	169.35
28	17.149	-17.149	-169.35	172.78
29	14.665	-14.665	-172.78	175.71
30	11.870	-11.870	-175.71	178.08
31	8.8594	-8.8594	-178.08	179.86
32	5.5518	-5.5518	-179.86	180.97
33	2.0460	-2.0460	-180.97	181.38
34	-1.7432	1.7432	-181.38	181.03
35	-5.7224	5.7224	-181.03	179.88
36	-9.9717	9.9717	-179.88	177.89
37	-14.403	14.403	-177.89	175.01
38	-18.684	18.684	-175.01	171.27
39	-22.355	22.355	-171.27	166.80
40	-25.571	25.571	-166.80	161.69
41	-28.239	28.239	-161.69	156.04
42	-30.524	30.524	-156.04	149.93
43	-32.335	32.335	-149.93	143.47
44	-33.826	33.826	-143.47	136.70
45	-34.913	34.913	-136.70	129.72
46	-35.752	35.752	-129.72	122.57
47	-36.234	36.234	-122.57	115.32
48	-36.489	36.489	-115.32	108.02
49	-36.438	36.438	-108.02	100.74
50	-36.200	36.200	-100.74	93.496
51	-35.652	35.652	-93.496	86.366
52	-34.926	34.926	-86.366	79.381
53	-33.951	33.951	-79.381	72.591
54	-32.864	32.864	-72.591	66.018
55	-31.581	31.581	-66.018	59.702
56	-30.217	30.217	-59.702	53.658
57	-28.701	28.701	-53.658	47.918
58	-27.140	27.140	-47.918	42.490
59	-25.461	25.461	-42.490	37.398
60	-23.761	23.761	-37.398	32.645
61	-21.959	21.959	-32.645	28.254

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
462 di 1221

62	-20.141	20.141	-28.254	24.225
63	-18.230	18.230	-24.225	20.579
64	-16.319	16.319	-20.579	17.316
65	-14.331	14.331	-17.316	14.450
66	-12.355	12.355	-14.450	11.979
67	-11.194	11.194	-11.979	9.7398
68	-10.074	10.074	-9.7398	7.7251
69	-8.9408	8.9408	-7.7251	5.9369
70	-7.8688	7.8688	-5.9369	4.3631
71	-6.7969	6.7969	-4.3631	3.0038
72	-5.8028	5.8028	-3.0038	1.8433
73	-4.8259	4.8259	-1.8433	0.87809
74	-3.9399	3.9399	-0.87809	9.01121E-02
75	-3.0840	3.0840	-9.01121E-02	-0.52669
76	-2.3362	2.3362	0.52669	-0.99392
77	-1.6279	1.6279	0.99392	-1.3195
78	-1.0263	1.0263	1.3195	-1.5248
79	-0.47106	0.47106	1.5248	-1.6190
80	-2.63996E-02	2.63996E-02	1.6190	-1.6243
81	0.36751	-0.36751	1.6243	-1.5508
82	0.70857	-0.70857	1.5508	-1.4090
83	0.93636	-0.93636	1.4090	-1.2218
84	1.1023	-1.1023	1.2218	-1.0013
85	1.1548	-1.1548	1.0013	-0.77034
86	1.1511	-1.1511	0.77034	-0.54012
87	1.0344	-1.0344	0.54012	-0.33324
88	0.86072	-0.86072	0.33324	-0.16110
89	0.57458	-0.57458	0.16110	-4.61842E-02
90	0.23092	-0.23092	4.61842E-02	-5.11480E-13

```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:00:07  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

```

Tirante1_429      :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
CURRENT TIME IS  4.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	140.90	-1.08357E-03	-1.08357E-03	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

```

-----
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:00:07  |
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New Project

STRESS RESULTS FOR GROUP NO. 5

```

Tirante2_1507    :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
CURRENT TIME IS  4.0000

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POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
--	----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

ITER  0 RNORM = 0.000  RMNORM= 0.000
      RINORM=0.2297E+06 RIMNOR=0.1842E+07
      RENORM= 8876.    REMNOR=0.1012E-18 RATIO =0.1966  TOLER =0.1000E-03  NOT CONVERGED
      RFMAX = 136.1    RMMAX = 181.4
      RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
      RDT  =0.2297E+06 RDR  =0.1842E+07
      RATIOT=0.1966  RATOR= 0.000

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 463 di 1221
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MAX UN= 19.76 IEQ= 95 NODE 48 DOF 1 Y-DISPL.F
 MIN UN=-.2532E-08 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2297E+06 RIMNOR=0.1842E+07
 RENORM= 1182. REMNOR=0.7491E-18 RATIO =0.7174E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 136.1 RMMAX = 181.4
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.2297E+06 RDR =0.1842E+07
 RATIOT=0.7174E-01 RATIOR= 0.000
 MAX UN= 8.768 IEQ= 73 NODE 37 DOF 1 Y-DISPL.F
 MIN UN=-.1825E-08 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2297E+06 RIMNOR=0.1842E+07
 RENORM= 443.5 REMNOR=0.1428E-17 RATIO =0.4394E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 136.1 RMMAX = 181.4
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.2297E+06 RDR =0.1842E+07
 RATIOT=0.4394E-01 RATIOR= 0.000
 MAX UN= 7.312 IEQ= 103 NODE 52 DOF 1 Y-DISPL.F
 MIN UN=-.4089E-08 IEQ= 71 NODE 36 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2297E+06 RIMNOR=0.1842E+07
 RENORM= 60.47 REMNOR=0.6845E-17 RATIO =0.1623E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 136.1 RMMAX = 181.4
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.2297E+06 RDR =0.1842E+07
 RATIOT=0.1623E-01 RATIOR= 0.000
 MAX UN= 4.684 IEQ= 139 NODE 70 DOF 1 Y-DISPL.F
 MIN UN=-.8309 IEQ= 179 NODE 90 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2297E+06 RIMNOR=0.1842E+07
 RENORM=0.3284 REMNOR=0.1576E-17 RATIO =0.1196E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 136.1 RMMAX = 181.4
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.2297E+06 RDR =0.1842E+07
 RATIOT=0.1196E-02 RATIOR= 0.000
 MAX UN=0.4104 IEQ= 139 NODE 70 DOF 1 Y-DISPL.F
 MIN UN=-.5703E-08 IEQ= 41 NODE 21 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2297E+06 RIMNOR=0.1842E+07
 RENORM=0.5295E-15 REMNOR=0.1155E-17 RATIO =0.4801E-10 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 136.1 RMMAX = 181.4
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.2297E+06 RDR =0.1842E+07
 RATIOT=0.4801E-10 RATIOR= 0.000
 MAX UN=0.7420E-08 IEQ= 47 NODE 24 DOF 1 Y-DISPL.F
 MIN UN=-.6931E-08 IEQ= 45 NODE 23 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:00:07  |
+-----+

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New Project
 SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 5 (AT TIME 5.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.2041727E-02	-1.2795206E-03	
2	3.1785823E-02	-1.2795134E-03	

GENERAL CONTRACTOR

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 464 di 1221
3	3.1529924E-02	-1.2794761E-03			
4	3.1274039E-02	-1.2793478E-03			
5	3.1018197E-02	-1.2790357E-03			
6	3.0762444E-02	-1.2784266E-03			
7	3.0506855E-02	-1.2773880E-03			
8	3.0251528E-02	-1.2757717E-03			
9	2.9996595E-02	-1.2734139E-03			
10	2.9742223E-02	-1.2701384E-03			
11	2.9488614E-02	-1.2657557E-03			
12	2.9236008E-02	-1.2600638E-03			
13	2.8984690E-02	-1.2528471E-03			
14	2.8734986E-02	-1.2438781E-03			
15	2.8487272E-02	-1.2329167E-03			
16	2.8241969E-02	-1.2197108E-03			
17	2.7999208E-02	-1.2091963E-03			
18	2.7757783E-02	-1.2062982E-03			
19	2.7516200E-02	-1.2107296E-03			
20	2.7273022E-02	-1.2221920E-03			
21	2.7026875E-02	-1.2403749E-03			
22	2.6776446E-02	-1.2649566E-03			
23	2.6520488E-02	-1.2956037E-03			
24	2.6257824E-02	-1.3319711E-03			
25	2.5987343E-02	-1.3737031E-03			
26	2.5708010E-02	-1.4204326E-03			
27	2.5418862E-02	-1.4717810E-03			
28	2.5119016E-02	-1.5273586E-03			
29	2.4807665E-02	-1.5867638E-03			
30	2.4484084E-02	-1.6495848E-03			
31	2.4147632E-02	-1.7153974E-03			
32	2.3797754E-02	-1.7837670E-03			
33	2.3433984E-02	-1.8542476E-03			
34	2.3055945E-02	-1.9263824E-03			
35	2.2663354E-02	-1.9997025E-03			
36	2.2256019E-02	-2.0737294E-03			
37	2.1833848E-02	-2.1479719E-03			
38	2.1396849E-02	-2.2219282E-03			
39	2.0945130E-02	-2.2950851E-03			
40	2.0478906E-02	-2.3669183E-03			
41	1.9998489E-02	-2.4368936E-03			
42	1.9504309E-02	-2.5044643E-03			
43	1.8996901E-02	-2.5690733E-03			
44	1.8476915E-02	-2.6301521E-03			
45	1.7945117E-02	-2.6871208E-03			
46	1.7402369E-02	-2.7393906E-03			
47	1.6849701E-02	-2.7863568E-03			
48	1.6288220E-02	-2.8274083E-03			
49	1.5719176E-02	-2.8619213E-03			
50	1.5143930E-02	-2.8892976E-03			
51	1.4563966E-02	-2.9090370E-03			
52	1.3980846E-02	-2.9207743E-03			
53	1.3396202E-02	-2.9242785E-03			
54	1.2811690E-02	-2.9194539E-03			
55	1.2228973E-02	-2.9063394E-03			
56	1.1649695E-02	-2.8851089E-03			
57	1.1075450E-02	-2.8560709E-03			
58	1.0507758E-02	-2.8196689E-03			
59	9.9480374E-03	-2.7764474E-03			
60	9.3975951E-03	-2.7269834E-03			
61	8.8576220E-03	-2.6718504E-03			
62	8.3291948E-03	-2.6116187E-03			
63	7.8132766E-03	-2.5468560E-03			
64	7.3107169E-03	-2.4781270E-03			
65	6.8222527E-03	-2.4059943E-03			
66	6.3485087E-03	-2.3310183E-03			
67	5.8899986E-03	-2.2537438E-03			
68	5.4471189E-03	-2.1748532E-03			
69	5.0201097E-03	-2.0951764E-03			
70	4.6090460E-03	-2.0155352E-03			
71	4.2138390E-03	-1.9367435E-03			
72	3.8342384E-03	-1.8596039E-03			
73	3.4698533E-03	-1.7848978E-03			
74	3.1200864E-03	-1.7133613E-03			
75	2.7842525E-03	-1.6456692E-03			
76	2.4615254E-03	-1.5823766E-03			
77	2.1509792E-03	-1.5239238E-03			
78	1.8516112E-03	-1.4706410E-03			
79	1.5623632E-03	-1.4227520E-03			
80	1.2821427E-03	-1.3803784E-03			
81	1.0098426E-03	-1.3435433E-03			
82	7.4436104E-04	-1.3121736E-03			
83	4.8461997E-04	-1.2861023E-03			
84	2.2958413E-04	-1.2650710E-03			
85	-2.1733804E-05	-1.2487323E-03			
86	-2.7020540E-04	-1.2366538E-03			
87	-5.1664457E-04	-1.2283140E-03			

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 466 di 1221							
28 D	8.542	-2.5119E-02	140.5	42.71	140.5	74.46	ACTIVE	0.000	-5.400	0.000	1.000	1.000
42.71	0.000	0.000	Strato1_2_8_L_0									
29 D	8.832	-2.4808E-02	145.3	44.16	145.3	76.99	ACTIVE	0.000	-5.600	0.000	1.000	1.000
44.16	0.000	0.000	Strato1_2_8_L_0									
30 D	9.019	-2.4484E-02	148.3	45.10	148.3	78.62	ACTIVE	0.000	-5.800	0.000	1.000	1.000
45.10	0.000	0.000	Strato1_2_8_L_0									
31 D	9.294	-2.4148E-02	152.9	46.47	152.9	81.02	ACTIVE	0.000	-6.000	0.000	1.000	1.000
46.47	0.000	0.000	Strato1_2_8_L_0									
32 D	9.484	-2.3798E-02	156.0	47.42	156.0	82.67	ACTIVE	0.000	-6.200	0.000	1.000	1.000
47.42	0.000	0.000	Strato1_2_8_L_0									
33 D	9.767	-2.3434E-02	160.6	48.83	160.6	85.14	ACTIVE	0.000	-6.400	0.000	1.000	1.000
48.83	0.000	0.000	Strato1_2_8_L_0									
34 D	9.959	-2.3056E-02	163.8	49.79	163.8	86.81	ACTIVE	0.000	-6.600	0.000	1.000	1.000
49.79	0.000	0.000	Strato1_2_8_L_0									
35 D	10.24	-2.2663E-02	168.4	51.19	168.4	89.25	ACTIVE	0.000	-6.800	0.000	1.000	1.000
51.19	0.000	0.000	Strato1_2_8_L_0									
36 D	10.43	-2.2256E-02	171.6	52.16	171.6	90.94	ACTIVE	0.000	-7.000	0.000	1.000	1.000
52.16	0.000	0.000	Strato1_2_8_L_0									
37 D	10.71	-2.1834E-02	176.1	53.54	176.1	93.35	ACTIVE	0.000	-7.200	0.000	1.000	1.000
53.54	0.000	0.000	Strato1_2_8_L_0									
38 D	10.90	-2.1397E-02	179.3	54.52	179.3	95.05	ACTIVE	0.000	-7.400	0.000	1.000	1.000
54.52	0.000	0.000	Strato1_2_8_L_0									
39 D	11.17	-2.0945E-02	183.7	55.84	183.7	97.36	ACTIVE	0.000	-7.600	0.000	1.000	1.000
55.84	0.000	0.000	Strato1_2_8_L_0									
40 D	11.37	-2.0479E-02	186.9	56.83	186.9	99.08	ACTIVE	0.000	-7.800	0.000	1.000	1.000
56.83	0.000	0.000	Strato1_2_8_L_0									
41 D	11.64	-1.9998E-02	191.4	58.19	191.4	101.5	ACTIVE	0.000	-8.000	0.000	1.000	1.000
58.19	0.000	0.000	Strato1_2_8_L_0									
42 D	11.84	-1.9504E-02	194.7	59.18	194.7	103.2	ACTIVE	0.000	-8.200	0.000	1.000	1.000
59.18	0.000	0.000	Strato1_2_8_L_0									
43 D	12.11	-1.8997E-02	199.1	60.53	199.1	105.5	ACTIVE	0.000	-8.400	0.000	1.000	1.000
60.53	0.000	0.000	Strato1_2_8_L_0									
44 D	12.31	-1.8477E-02	202.4	61.53	202.4	107.3	ACTIVE	0.000	-8.600	0.000	1.000	1.000
61.53	0.000	0.000	Strato1_2_8_L_0									
45 D	12.57	-1.7945E-02	206.8	62.87	206.8	109.6	ACTIVE	0.000	-8.800	0.000	1.000	1.000
62.87	0.000	0.000	Strato1_2_8_L_0									
46 D	12.77	-1.7402E-02	210.0	63.84	210.0	111.3	ACTIVE	0.000	-9.000	0.000	1.000	1.000
63.84	0.000	0.000	Strato1_2_8_L_0									
47 D	13.03	-1.6850E-02	214.4	65.17	214.4	113.6	ACTIVE	0.000	-9.200	0.000	1.000	1.000
65.17	0.000	0.000	Strato1_2_8_L_0									
48 D	13.24	-1.6288E-02	217.7	66.19	217.7	115.4	ACTIVE	0.000	-9.400	0.000	1.000	1.000
66.19	0.000	0.000	Strato1_2_8_L_0									
49 D	13.50	-1.5719E-02	222.1	67.51	222.1	117.7	ACTIVE	0.000	-9.600	0.000	1.000	1.000
67.51	0.000	0.000	Strato1_2_8_L_0									
50 D	13.71	-1.5144E-02	225.4	68.53	225.4	119.5	ACTIVE	0.000	-9.800	0.000	1.000	1.000
68.53	0.000	0.000	Strato1_2_8_L_0									
51 D	13.97	-1.4564E-02	229.8	69.85	229.8	121.8	ACTIVE	0.000	-10.00	0.000	1.000	1.000
69.85	0.000	0.000	Strato1_2_8_L_0									
52 D	14.17	-1.3981E-02	233.1	70.87	233.1	123.6	ACTIVE	0.000	-10.20	0.000	1.000	1.000
70.87	0.000	0.000	Strato1_2_8_L_0									
53 D	14.44	-1.3396E-02	237.4	72.18	237.4	125.8	ACTIVE	0.000	-10.40	0.000	1.000	1.000
72.18	0.000	0.000	Strato1_2_8_L_0									
54 D	14.63	-1.2812E-02	240.7	73.17	240.7	127.6	ACTIVE	0.000	-10.60	0.000	1.000	1.000
73.17	0.000	0.000	Strato1_2_8_L_0									
55 D	14.90	-1.2229E-02	245.0	74.48	245.0	129.8	ACTIVE	0.000	-10.80	0.000	1.000	1.000
74.48	0.000	0.000	Strato1_2_8_L_0									
56 D	15.10	-1.1650E-02	248.4	75.51	248.4	131.6	ACTIVE	0.000	-11.00	0.000	1.000	1.000
75.51	0.000	0.000	Strato1_2_8_L_0									
57 D	15.36	-1.1075E-02	252.7	76.81	252.7	133.9	ACTIVE	0.000	-11.20	0.000	1.000	1.000
76.81	0.000	0.000	Strato1_2_8_L_0									
58 D	15.57	-1.0508E-02	256.1	77.85	256.1	135.7	ACTIVE	0.000	-11.40	0.000	1.000	1.000
77.85	0.000	0.000	Strato1_2_8_L_0									
59 D	15.83	-9.9480E-03	260.3	79.14	260.3	138.0	ACTIVE	0.000	-11.60	0.000	1.000	1.000
79.14	0.000	0.000	Strato1_2_8_L_0									
60 D	16.04	-9.3976E-03	263.7	80.18	263.7	139.8	ACTIVE	0.000	-11.80	0.000	1.000	1.000
80.18	0.000	0.000	Strato1_2_8_L_0									
61 D	16.29	-8.8576E-03	267.9	81.44	267.9	142.0	ACTIVE	0.000	-12.00	0.000	1.000	1.000
81.44	0.000	0.000	Strato1_2_8_L_0									
62 D	16.50	-8.3292E-03	271.3	82.48	271.3	143.8	ACTIVE	0.000	-12.20	0.000	1.000	1.000
82.48	0.000	0.000	Strato1_2_8_L_0									
63 D	16.75	-7.8133E-03	275.5	83.77	275.5	146.0	ACTIVE	0.000	-12.40	0.000	1.000	1.000
83.77	0.000	0.000	Strato1_2_8_L_0									
64 D	16.96	-7.3107E-03	279.0	84.81	279.0	147.9	ACTIVE	0.000	-12.60	0.000	1.000	1.000
84.81	0.000	0.000	Strato1_2_8_L_0									
65 D	17.22	-6.8223E-03	283.2	86.09	283.2	150.1	ACTIVE	0.000	-12.80	0.000	1.000	1.000
86.09	0.000	0.000	Strato1_2_8_L_0									
66 D	18.01	-6.3485E-03	286.7	90.03	286.7	151.9	UL-RL	8488.	-13.00	0.000	1.000	1.000
90.03	0.000	0.000	Strato1_2_8_L_0									
67 D	9.797	-5.8900E-03	291.0	48.98	291.0	145.5	ACTIVE	0.000	-13.20	0.000	1.000	1.000
48.98	0.000	0.000	Strato2_3095_82743_L_0									
68 D	9.969	-5.4471E-03	294.6	49.84	294.6	147.3	ACTIVE	0.000	-13.40	0.000	1.000	1.000
49.84	0.000	0.000	Strato2_3095_82743_L_0									
69 D	10.17	-5.0201E-03	298.9	50.86	298.9	149.5	ACTIVE	0.000	-13.60	0.000	1.000	1.000
50.86	0.000	0.000	Strato2_3095_82743_L_0									
70 D	10.34	-4.6090E-03	302.6	51.72	302.6	151.3	ACTIVE	0.000	-13.80	0.000	1.000	1.000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 467 di 1221						
51.72	0.000	0.000	Strato2_3095_82743_L_0								
71 D	10.55	-4.2138E-03	307.0 52.75	307.0	153.5	ACTIVE	0.000	-14.00	0.000	1.000	1.000
52.75	0.000	0.000	Strato2_3095_82743_L_0								
72 D	10.72	-3.8342E-03	310.7 53.61	310.7	155.3	ACTIVE	0.000	-14.20	0.000	1.000	1.000
53.61	0.000	0.000	Strato2_3095_82743_L_0								
73 D	10.93	-3.4699E-03	315.0 54.64	315.0	157.5	ACTIVE	0.000	-14.40	0.000	1.000	1.000
54.64	0.000	0.000	Strato2_3095_82743_L_0								
74 D	12.83	-3.1201E-03	318.7 64.15	318.7	159.4	UL-RL	2.4012E+04	-14.60	0.000	1.000	1.000
64.15	0.000	0.000	Strato2_3095_82743_L_0								
75 D	14.91	-2.7843E-03	323.1 74.53	323.1	161.5	UL-RL	2.4012E+04	-14.80	0.000	1.000	1.000
74.53	0.000	0.000	Strato2_3095_82743_L_0								
76 D	16.84	-2.4615E-03	326.7 84.19	326.7	163.3	UL-RL	2.4012E+04	-15.00	0.000	1.000	1.000
84.19	0.000	0.000	Strato2_3095_82743_L_0								
77 D	18.78	-2.1510E-03	331.0 93.91	331.0	165.5	UL-RL	2.4012E+04	-15.20	0.000	1.000	1.000
93.91	0.000	0.000	Strato2_3095_82743_L_0								
78 D	20.60	-1.8516E-03	334.7 103.0	334.7	167.4	UL-RL	2.4012E+04	-15.40	0.000	1.000	1.000
103.0	0.000	0.000	Strato2_3095_82743_L_0								
79 D	22.43	-1.5624E-03	339.1 112.2	339.1	169.5	UL-RL	2.4012E+04	-15.60	0.000	1.000	1.000
112.2	0.000	0.000	Strato2_3095_82743_L_0								
80 D	24.15	-1.2821E-03	342.8 120.8	342.8	171.4	UL-RL	2.4012E+04	-15.80	0.000	1.000	1.000
120.8	0.000	0.000	Strato2_3095_82743_L_0								
81 D	25.89	-1.0098E-03	347.1 129.5	347.1	173.6	UL-RL	2.4012E+04	-16.00	0.000	1.000	1.000
129.5	0.000	0.000	Strato2_3095_82743_L_0								
82 D	27.60	-7.4436E-04	351.4 138.0	351.4	175.7	UL-RL	2.4012E+04	-16.20	0.000	1.000	1.000
138.0	0.000	0.000	Strato2_3095_82743_L_0								
83 D	29.21	-4.8462E-04	355.1 146.0	355.1	177.6	UL-RL	2.4012E+04	-16.40	0.000	1.000	1.000
146.0	0.000	0.000	Strato2_3095_82743_L_0								
84 D	30.85	-2.2958E-04	359.4 154.3	359.4	179.7	UL-RL	2.4012E+04	-16.60	0.000	1.000	1.000
154.3	0.000	0.000	Strato2_3095_82743_L_0								
85 D	32.42	2.1734E-05	363.1 162.1	363.1	181.6	UL-RL	2.4012E+04	-16.80	0.000	1.000	1.000
162.1	0.000	0.000	Strato2_3095_82743_L_0								
86 D	34.04	2.7021E-04	367.4 170.2	367.4	183.7	UL-RL	2.4012E+04	-17.00	0.000	1.000	1.000
170.2	0.000	0.000	Strato2_3095_82743_L_0								
87 D	35.58	5.1664E-04	371.1 177.9	371.1	185.6	UL-RL	2.4012E+04	-17.20	0.000	1.000	1.000
177.9	0.000	0.000	Strato2_3095_82743_L_0								
88 D	37.18	7.6174E-04	375.4 185.9	375.4	187.7	UL-RL	2.4012E+04	-17.40	0.000	1.000	1.000
185.9	0.000	0.000	Strato2_3095_82743_L_0								
89 D	38.18	1.0061E-03	379.2 190.9	379.2	190.9	V-C	8004.	-17.60	0.000	1.000	1.000
190.9	0.000	0.000	Strato2_3095_82743_L_0								
90 D	39.00	1.2500E-03	383.5 195.0	383.5	195.0	V-C	8004.	-17.80	0.000	1.000	1.000
195.0	0.000	0.000	Strato2_3095_82743_L_0								
91 D	19.88	1.4938E-03	387.1 198.8	387.1	198.8	V-C	8004.	-18.00	0.000	1.000	1.000
198.8	0.000	0.000	Strato2_3095_82743_L_0								

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|          NewProject.BaseDesignSection_28.SLERara_3454          |
|          Exe Time :29 July 2019          18:00:07          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 5.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
0.000	0.000	0.000	not available									
8	0.000	--	--	--	--	--	REMOVED	--	-1.400	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 468 di 1221
0.000	0.000	0.000	not available		
9	0.000	--	--	--	--
0.000	0.000	0.000	not available		
10	0.000	--	--	--	--
0.000	0.000	0.000	not available		
11	0.000	--	--	--	--
0.000	0.000	0.000	not available		
12	0.000	--	--	--	--
0.000	0.000	0.000	not available		
13	0.000	--	--	--	--
0.000	0.000	0.000	not available		
14	0.000	--	--	--	--
0.000	0.000	0.000	not available		
15	0.000	--	--	--	--
0.000	0.000	0.000	not available		
16	0.000	--	--	--	--
0.000	0.000	0.000	not available		
17	0.000	--	--	--	--
0.000	0.000	0.000	not available		
18	0.000	--	--	--	--
0.000	0.000	0.000	not available		
19	0.000	--	--	--	--
0.000	0.000	0.000	not available		
20	0.000	--	--	--	--
0.000	0.000	0.000	not available		
21	0.000	--	--	--	--
0.000	0.000	0.000	not available		
22	0.000	--	--	--	--
0.000	0.000	0.000	not available		
23	0.000	--	--	--	--
0.000	0.000	0.000	not available		
24	0.000	--	--	--	--
0.000	0.000	0.000	not available		
25	0.000	--	--	--	--
0.000	0.000	0.000	not available		
26	0.000	--	--	--	--
0.000	0.000	0.000	not available		
27	0.000	--	--	--	--
0.000	0.000	0.000	not available		
28	0.000	--	--	--	--
0.000	0.000	0.000	not available		
29	0.000	--	--	--	--
0.000	0.000	0.000	not available		
30	0.000	--	--	--	--
0.000	0.000	0.000	not available		
31	0.000	--	--	--	--
0.000	0.000	0.000	not available		
32	0.000	--	--	--	--
0.000	0.000	0.000	not available		
33	0.000	--	--	--	--
0.000	0.000	0.000	not available		
34	0.000	--	--	--	--
0.000	0.000	0.000	not available		
35	0.000	--	--	--	--
0.000	0.000	0.000	not available		
36	0.000	--	--	--	--
0.000	0.000	0.000	not available		
37	0.000	--	--	--	--
0.000	0.000	0.000	not available		
38	0.000	--	--	--	--
0.000	0.000	0.000	not available		
39	0.000	--	--	--	--
0.000	0.000	0.000	not available		
40	0.000	--	--	--	--
0.000	0.000	0.000	not available		
41	0.000	--	--	--	--
0.000	0.000	0.000	not available		
42	0.000	--	--	--	--
0.000	0.000	0.000	not available		
43	0.000	--	--	--	--
0.000	0.000	0.000	not available		
44	0.000	--	--	--	--
0.000	0.000	0.000	not available		
45	0.000	--	--	--	--
0.000	0.000	0.000	not available		
46	0.000	--	--	--	--
0.000	0.000	0.000	not available		
47	0.000	--	--	--	--
0.000	0.000	0.000	not available		
48	0.000	--	--	--	--
0.000	0.000	0.000	not available		
49 D	1.536	1.5719E-02	1.900	7.678	182.4
7.678	0.000	0.000	Strato1_2_8_L_0		100.6
50 D	4.607	1.5144E-02	5.700	23.03	186.2
23.03	0.000	0.000	Strato1_2_8_L_0		102.4

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 470 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      18:00:07
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New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.30400	-0.30400	2.84981E-11	6.08000E-02
2	0.96154	-0.96154	-6.08000E-02	0.25311
3	2.8715	-2.8715	-0.25311	0.82740
4	4.8761	-4.8761	-0.82740	1.8026
5	7.6275	-7.6275	-1.8026	3.3281
6	10.469	-10.469	-3.3281	5.4219
7	13.865	-13.865	-5.4219	8.1948
8	17.367	-17.367	-8.1948	11.668
9	21.292	-21.292	-11.668	15.927
10	25.343	-25.343	-15.927	20.995
11	29.810	-29.810	-20.995	26.957
12	34.413	-34.413	-26.957	33.840
13	39.398	-39.398	-33.840	41.719
14	44.529	-44.529	-41.719	50.625
15	50.017	-50.017	-50.625	60.629
16	-163.39	163.39	-60.629	27.950
17	-157.43	157.43	-27.950	-3.5356
18	-151.31	151.31	3.5356	-33.797
19	-144.85	144.85	33.797	-62.768
20	-138.23	138.23	62.768	-90.415
21	-131.30	131.30	90.415	-116.67
22	-124.19	124.19	116.67	-141.51
23	-116.77	116.77	141.51	-164.87
24	-109.19	109.19	164.87	-186.71
25	-101.31	101.31	186.71	-206.97
26	-93.250	93.250	206.97	-225.62
27	-84.892	84.892	225.62	-242.60
28	-76.350	76.350	242.60	-257.87
29	-67.518	67.518	257.87	-271.37
30	-58.499	58.499	271.37	-283.07
31	-49.205	49.205	283.07	-292.91
32	-39.721	39.721	292.91	-300.85
33	-29.954	29.954	300.85	-306.85
34	-19.995	19.995	306.85	-310.84
35	-9.7573	9.7573	310.84	-312.80
36	0.67459	-0.67459	312.80	-312.66
37	11.383	-11.383	312.66	-310.38
38	22.287	-22.287	310.38	-305.93
39	33.456	-33.456	305.93	-299.24
40	44.822	-44.822	299.24	-290.27
41	56.460	-56.460	290.27	-278.98
42	68.297	-68.297	278.98	-265.32
43	80.404	-80.404	265.32	-249.24
44	92.711	-92.711	249.24	-230.70
45	105.29	-105.29	230.70	-209.64
46	118.05	-118.05	209.64	-186.03
47	131.09	-131.09	186.03	-159.81
48	144.33	-144.33	159.81	-130.95
49	156.29	-156.29	130.95	-99.687
50	165.39	-165.39	99.687	-66.608
51	171.68	-171.68	66.608	-32.272
52	175.11	-175.11	32.272	2.7501
53	175.72	-175.72	-2.7501	37.895
54	173.47	-173.47	-37.895	72.588
55	168.40	-168.40	-72.588	106.27
56	160.47	-160.47	-106.27	138.36
57	149.73	-149.73	-138.36	168.31
58	137.53	-137.53	-168.31	195.81
59	125.43	-125.43	-195.81	220.90
60	113.37	-113.37	-220.90	243.57
61	101.40	-101.40	-243.57	263.85
62	89.462	-89.462	-263.85	281.74
63	77.604	-77.604	-281.74	297.26
64	65.769	-65.769	-297.26	310.42
65	53.999	-53.999	-310.42	321.22

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 471 di 1221
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66	42.819	-42.819	-321.22	329.78
67	25.256	-25.256	-329.78	334.83
68	7.8594	-7.8594	-334.83	336.40
69	-9.3550	9.3550	-336.40	334.53
70	-26.431	26.431	-334.53	329.25
71	-43.163	43.163	-329.25	320.62
72	-59.182	59.182	-320.62	308.78
73	-74.494	74.494	-308.78	293.88
74	-87.440	87.440	-293.88	276.39
75	-97.879	97.879	-276.39	256.82
76	-105.99	105.99	-256.82	235.62
77	-111.78	111.78	-235.62	213.26
78	-115.42	115.42	-213.26	190.18
79	-116.91	116.91	-190.18	166.80
80	-116.38	116.38	-166.80	143.52
81	-113.84	113.84	-143.52	120.75
82	-109.33	109.33	-120.75	98.886
83	-102.97	102.97	-98.886	78.292
84	-94.725	94.725	-78.292	59.346
85	-84.682	84.682	-59.346	42.410
86	-72.804	72.804	-42.410	27.849
87	-59.162	59.162	-27.849	16.017
88	-43.709	43.709	-16.017	7.2746
89	-27.037	27.037	-7.2746	1.8671
90	-9.3357	9.3357	-1.8671	2.57228E-12

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      18:00:07
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	226.76	-1.08357E-03	2.06522E-02	0.0000	3950.0	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      18:00:07
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
--	----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER      0  RNORM = 0.000      RMNORM= 0.000
           RINORM=0.1763E+07  RIMNOR=0.7345E+07
           RENORM=0.5831E+05  REMNOR=0.1155E-17  RATIO =0.1819      TOLER =0.1000E-03  NOT CONVERGED
           RFMAX = 241.5      RMMAX = 336.4
           RTSMAL=0.1000E-02  RMSMAL=0.1000E-02
           RDT  =0.1763E+07  RDR   =0.7345E+07
           RATIOT=0.1819    RATIOR= 0.000
           MAX UN=0.7420E-08  IEQ=   47 NODE    24 DOF    1  Y-DISPL.F
           MIN UN=-241.5     IEQ=   91 NODE    46 DOF    1  Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
472 di 1221

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1763E+07 RIMNOR=0.7345E+07
            RENORM= 3.325      REMNOR=0.1875E-17 RATIO =0.1373E-02 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 241.5      RMMAX = 336.4
            RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
            RDT =0.1763E+07 RDR =0.7345E+07
            RATIOI=0.1373E-02 RATIOI= 0.000
            MAX UN=0.2814      IEQ=      15 NODE      8 DOF      1 Y-DISPL.F
            MIN UN=-1.798      IEQ=      97 NODE     49 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+07 RIMNOR=0.7345E+07
            RENORM=0.4412E-15 REMNOR=0.1960E-17 RATIO =0.1582E-10 TOLER =0.1000E-03 CONVERGED !
            RFMAX = 241.5      RMMAX = 336.4
            RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
            RDT =0.1763E+07 RDR =0.7345E+07
            RATIOI=0.1582E-10 RATIOI= 0.000
            MAX UN=0.8154E-08 IEQ=      5 NODE      3 DOF      1 Y-DISPL.F
            MIN UN=-.7246E-08 IEQ=      3 NODE      2 DOF      1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454 |
|          Exe Time :29 July 2019      18:00:07      |
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New Project
SOLUTION REACHED USING 3 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 6 (AT TIME 6.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.2936415E-02	-1.7828932E-03	
2	3.2579837E-02	-1.7828860E-03	
3	3.2223263E-02	-1.7828487E-03	
4	3.1866704E-02	-1.7827205E-03	
5	3.1510187E-02	-1.7824083E-03	
6	3.1153760E-02	-1.7817993E-03	
7	3.0797496E-02	-1.7807606E-03	
8	3.0441494E-02	-1.7791443E-03	
9	3.0085887E-02	-1.7767866E-03	
10	2.9730841E-02	-1.7735110E-03	
11	2.9376557E-02	-1.7691279E-03	
12	2.9023277E-02	-1.7634300E-03	
13	2.8671288E-02	-1.7561890E-03	
14	2.8320921E-02	-1.7471559E-03	
15	2.7972563E-02	-1.7360613E-03	
16	2.7626653E-02	-1.7226156E-03	
17	2.7283351E-02	-1.7116556E-03	
18	2.6941504E-02	-1.7079987E-03	
19	2.6599688E-02	-1.7112961E-03	
20	2.6256547E-02	-1.7211796E-03	
21	2.5910803E-02	-1.7372608E-03	
22	2.5561256E-02	-1.7591320E-03	
23	2.5206792E-02	-1.7863658E-03	
24	2.4846384E-02	-1.8185153E-03	
25	2.4479091E-02	-1.8551149E-03	
26	2.4104074E-02	-1.8956798E-03	
27	2.3720589E-02	-1.9397061E-03	
28	2.3327996E-02	-1.9866708E-03	
29	2.2925763E-02	-2.0360320E-03	
30	2.2513462E-02	-2.0872294E-03	
31	2.2090787E-02	-2.1396840E-03	
32	2.1657545E-02	-2.1927985E-03	
33	2.1213665E-02	-2.2459580E-03	
34	2.0759201E-02	-2.2985299E-03	
35	2.0294338E-02	-2.3498633E-03	
36	1.9819385E-02	-2.3992915E-03	
37	1.9334794E-02	-2.4461297E-03	
38	1.8841152E-02	-2.4896771E-03	
39	1.8339190E-02	-2.5292170E-03	
40	1.7829784E-02	-2.5640170E-03	
41	1.7313951E-02	-2.5933308E-03	
42	1.6792868E-02	-2.6163972E-03	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 473 di 1221
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- 43 1.6267861E-02 -2.6324412E-03
- 44 1.5740412E-02 -2.6406753E-03
- 45 1.5212167E-02 -2.6402995E-03
- 46 1.4684910E-02 -2.6305024E-03
- 47 1.4160254E-02 -2.6161960E-03
- 48 1.3638405E-02 -2.6022824E-03
- 49 1.3119373E-02 -2.5879229E-03
- 50 1.2603325E-02 -2.5722737E-03
- 51 1.2090604E-02 -2.5545185E-03
- 52 1.1581703E-02 -2.5339415E-03
- 53 1.1077251E-02 -2.5099713E-03
- 54 1.0577969E-02 -2.4821823E-03
- 55 1.0084651E-02 -2.4502949E-03
- 56 9.5981332E-03 -2.4141770E-03
- 57 9.1192616E-03 -2.3738438E-03
- 58 8.6488658E-03 -2.3294585E-03
- 59 8.1877298E-03 -2.2812989E-03
- 60 7.7365763E-03 -2.2296890E-03
- 61 7.2960620E-03 -2.1749630E-03
- 62 6.8667758E-03 -2.1174659E-03
- 63 6.4492366E-03 -2.0575540E-03
- 64 6.0438907E-03 -1.9955944E-03
- 65 5.6511101E-03 -1.9319658E-03
- 66 5.2711897E-03 -1.8670581E-03
- 67 4.9043463E-03 -1.8012589E-03
- 68 4.5507169E-03 -1.7349984E-03
- 69 4.2103449E-03 -1.6687688E-03
- 70 3.8831729E-03 -1.6030857E-03
- 71 3.5690383E-03 -1.5384875E-03
- 72 3.2676685E-03 -1.4755309E-03
- 73 2.9786933E-03 -1.4147791E-03
- 74 2.7015879E-03 -1.3567800E-03
- 75 2.4357637E-03 -1.3020443E-03
- 76 2.1805248E-03 -1.2509895E-03
- 77 1.9351007E-03 -1.2039430E-03
- 78 1.6986643E-03 -1.1611458E-03
- 79 1.4703486E-03 -1.1227555E-03
- 80 1.2492631E-03 -1.0888499E-03
- 81 1.0345096E-03 -1.0594294E-03
- 82 8.2519731E-04 -1.0344197E-03
- 83 6.2045759E-04 -1.0136725E-03
- 84 4.1945877E-04 -9.9696851E-04
- 85 2.2141003E-04 -9.8401882E-04
- 86 2.5614711E-05 -9.7446827E-04
- 87 -1.6857560E-04 -9.6789245E-04
- 88 -3.6170790E-04 -9.6380104E-04
- 89 -5.5422454E-04 -9.6163756E-04
- 90 -7.4645080E-04 -9.6079222E-04
- 91 -9.3858633E-04 -9.6062040E-04

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|          PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION   *Build date:Jul 11, 2017*   |
|          |
|          NewProject.BaseDesignSection_28.SLERara_3454   |
|          Exe Time :29 July 2019   18:00:07   |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 6.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D 3.040	0.3040 0.000	-3.2936E-02 0.000	10.00 Stratol_2_8_L_0	3.040	10.00	16.00	ACTIVE	0.000	0.000	0.000	1.000	1.000
2 D 3.288	0.6575 0.000	-3.2580E-02 0.000	10.81 Stratol_2_8_L_0	3.288	10.81	16.18	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
3 D 9.550	1.910 0.000	-3.2223E-02 0.000	31.41 Stratol_2_8_L_0	9.550	31.41	25.36	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
4 D 10.02	2.005 0.000	-3.1867E-02 0.000	32.97 Stratol_2_8_L_0	10.02	32.97	25.88	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
5 D	2.751	-3.1510E-02	45.25	13.76	45.25	31.27	ACTIVE	0.000	-0.8000	0.000	1.000	1.000

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 475 di 1221							
48 D	17.74	-1.3638E-02	217.7	88.68	217.7	115.4	UL-RL	8488.	-9.400	0.000	1.000	1.000
88.68	0.000	0.000	Strato1_2_8_L_0									
49 D	17.92	-1.3119E-02	222.1	89.58	222.1	117.7	UL-RL	8488.	-9.600	0.000	1.000	1.000
89.58	0.000	0.000	Strato1_2_8_L_0									
50 D	18.02	-1.2603E-02	225.4	90.09	225.4	119.5	UL-RL	8488.	-9.800	0.000	1.000	1.000
90.09	0.000	0.000	Strato1_2_8_L_0									
51 D	18.17	-1.2091E-02	229.8	90.84	229.8	121.8	UL-RL	8488.	-10.00	0.000	1.000	1.000
90.84	0.000	0.000	Strato1_2_8_L_0									
52 D	18.25	-1.1582E-02	233.1	91.23	233.1	123.6	UL-RL	8488.	-10.20	0.000	1.000	1.000
91.23	0.000	0.000	Strato1_2_8_L_0									
53 D	18.37	-1.1077E-02	237.4	91.86	237.4	125.8	UL-RL	8488.	-10.40	0.000	1.000	1.000
91.86	0.000	0.000	Strato1_2_8_L_0									
54 D	18.43	-1.0578E-02	240.7	92.13	240.7	127.6	UL-RL	8488.	-10.60	0.000	1.000	1.000
92.13	0.000	0.000	Strato1_2_8_L_0									
55 D	18.54	-1.0085E-02	245.0	92.68	245.0	129.8	UL-RL	8488.	-10.80	0.000	1.000	1.000
92.68	0.000	0.000	Strato1_2_8_L_0									
56 D	18.58	-9.5981E-03	248.4	92.92	248.4	131.6	UL-RL	8488.	-11.00	0.000	1.000	1.000
92.92	0.000	0.000	Strato1_2_8_L_0									
57 D	18.68	-9.1193E-03	252.7	93.41	252.7	133.9	UL-RL	8488.	-11.20	0.000	1.000	1.000
93.41	0.000	0.000	Strato1_2_8_L_0									
58 D	18.72	-8.6489E-03	256.1	93.62	256.1	135.7	UL-RL	8488.	-11.40	0.000	1.000	1.000
93.62	0.000	0.000	Strato1_2_8_L_0									
59 D	18.82	-8.1877E-03	260.3	94.08	260.3	138.0	UL-RL	8488.	-11.60	0.000	1.000	1.000
94.08	0.000	0.000	Strato1_2_8_L_0									
60 D	18.86	-7.7366E-03	263.7	94.28	263.7	139.8	UL-RL	8488.	-11.80	0.000	1.000	1.000
94.28	0.000	0.000	Strato1_2_8_L_0									
61 D	18.94	-7.2961E-03	267.9	94.69	267.9	142.0	UL-RL	8488.	-12.00	0.000	1.000	1.000
94.69	0.000	0.000	Strato1_2_8_L_0									
62 D	18.98	-6.8668E-03	271.3	94.90	271.3	143.8	UL-RL	8488.	-12.20	0.000	1.000	1.000
94.90	0.000	0.000	Strato1_2_8_L_0									
63 D	19.07	-6.4492E-03	275.5	95.35	275.5	146.0	UL-RL	8488.	-12.40	0.000	1.000	1.000
95.35	0.000	0.000	Strato1_2_8_L_0									
64 D	19.11	-6.0439E-03	279.0	95.57	279.0	147.9	UL-RL	8488.	-12.60	0.000	1.000	1.000
95.57	0.000	0.000	Strato1_2_8_L_0									
65 D	19.21	-5.6511E-03	283.2	96.04	283.2	150.1	UL-RL	8488.	-12.80	0.000	1.000	1.000
96.04	0.000	0.000	Strato1_2_8_L_0									
66 D	19.84	-5.2712E-03	286.7	99.18	286.7	151.9	UL-RL	8488.	-13.00	0.000	1.000	1.000
99.18	0.000	0.000	Strato1_2_8_L_0									
67 D	14.53	-4.9043E-03	291.0	72.65	291.0	145.5	UL-RL	2.4012E+04	-13.20	0.000	1.000	1.000
72.65	0.000	0.000	Strato2_3095_82743_L_0									
68 D	14.27	-4.5507E-03	294.6	71.37	294.6	147.3	UL-RL	2.4012E+04	-13.40	0.000	1.000	1.000
71.37	0.000	0.000	Strato2_3095_82743_L_0									
69 D	14.06	-4.2103E-03	298.9	70.30	298.9	149.5	UL-RL	2.4012E+04	-13.60	0.000	1.000	1.000
70.30	0.000	0.000	Strato2_3095_82743_L_0									
70 D	13.83	-3.8832E-03	302.6	69.15	302.6	151.3	UL-RL	2.4012E+04	-13.80	0.000	1.000	1.000
69.15	0.000	0.000	Strato2_3095_82743_L_0									
71 D	13.65	-3.5690E-03	307.0	68.23	307.0	153.5	UL-RL	2.4012E+04	-14.00	0.000	1.000	1.000
68.23	0.000	0.000	Strato2_3095_82743_L_0									
72 D	13.44	-3.2677E-03	310.7	67.22	310.7	155.3	UL-RL	2.4012E+04	-14.20	0.000	1.000	1.000
67.22	0.000	0.000	Strato2_3095_82743_L_0									
73 D	13.29	-2.9787E-03	315.0	66.43	315.0	157.5	UL-RL	2.4012E+04	-14.40	0.000	1.000	1.000
66.43	0.000	0.000	Strato2_3095_82743_L_0									
74 D	14.84	-2.7016E-03	318.7	74.20	318.7	159.4	UL-RL	2.4012E+04	-14.60	0.000	1.000	1.000
74.20	0.000	0.000	Strato2_3095_82743_L_0									
75 D	16.58	-2.4358E-03	323.1	82.89	323.1	161.5	UL-RL	2.4012E+04	-14.80	0.000	1.000	1.000
82.89	0.000	0.000	Strato2_3095_82743_L_0									
76 D	18.19	-2.1805E-03	326.7	90.94	326.7	163.3	UL-RL	2.4012E+04	-15.00	0.000	1.000	1.000
90.94	0.000	0.000	Strato2_3095_82743_L_0									
77 D	19.82	-1.9351E-03	331.0	99.09	331.0	165.5	UL-RL	2.4012E+04	-15.20	0.000	1.000	1.000
99.09	0.000	0.000	Strato2_3095_82743_L_0									
78 D	21.34	-1.6987E-03	334.7	106.7	334.7	167.4	UL-RL	2.4012E+04	-15.40	0.000	1.000	1.000
106.7	0.000	0.000	Strato2_3095_82743_L_0									
79 D	22.87	-1.4703E-03	339.1	114.4	339.1	169.5	UL-RL	2.4012E+04	-15.60	0.000	1.000	1.000
114.4	0.000	0.000	Strato2_3095_82743_L_0									
80 D	24.31	-1.2493E-03	342.8	121.5	342.8	171.4	UL-RL	2.4012E+04	-15.80	0.000	1.000	1.000
121.5	0.000	0.000	Strato2_3095_82743_L_0									
81 D	25.77	-1.0345E-03	347.1	128.9	347.1	173.6	UL-RL	2.4012E+04	-16.00	0.000	1.000	1.000
128.9	0.000	0.000	Strato2_3095_82743_L_0									
82 D	27.21	-8.2520E-04	351.4	136.0	351.4	175.7	UL-RL	2.4012E+04	-16.20	0.000	1.000	1.000
136.0	0.000	0.000	Strato2_3095_82743_L_0									
83 D	28.56	-6.2046E-04	355.1	142.8	355.1	177.6	UL-RL	2.4012E+04	-16.40	0.000	1.000	1.000
142.8	0.000	0.000	Strato2_3095_82743_L_0									
84 D	29.94	-4.1946E-04	359.4	149.7	359.4	179.7	UL-RL	2.4012E+04	-16.60	0.000	1.000	1.000
149.7	0.000	0.000	Strato2_3095_82743_L_0									
85 D	31.25	-2.2141E-04	363.1	156.3	363.1	181.6	UL-RL	2.4012E+04	-16.80	0.000	1.000	1.000
156.3	0.000	0.000	Strato2_3095_82743_L_0									
86 D	32.62	-2.5615E-05	367.4	163.1	367.4	183.7	UL-RL	2.4012E+04	-17.00	0.000	1.000	1.000
163.1	0.000	0.000	Strato2_3095_82743_L_0									
87 D	33.91	1.6858E-04	371.1	169.6	371.1	185.6	UL-RL	2.4012E+04	-17.20	0.000	1.000	1.000
169.6	0.000	0.000	Strato2_3095_82743_L_0									
88 D	35.26	3.6171E-04	375.4	176.3	375.4	187.7	UL-RL	2.4012E+04	-17.40	0.000	1.000	1.000
176.3	0.000	0.000	Strato2_3095_82743_L_0									
89 D	36.01	5.5422E-04	379.2	180.1	379.2	190.9	UL-RL	2.4012E+04	-17.60	0.000	1.000	1.000
180.1	0.000	0.000	Strato2_3095_82743_L_0									
90 D	36.58	7.4645E-04	383.5	182.9	383.5	195.0	UL-RL	2.4012E+04	-17.80	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 476 di 1221
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182.9	0.000	0.000	Strato2_3095_82743_L_0									
91 D	18.54	9.3859E-04	387.1	185.4	387.1	198.8	UL-RL	2.4012E+04	-18.00	0.000	1.000	1.000
185.4	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:00:07  |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 6.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
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	not available									
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
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	not available									
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
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	not available									
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available									
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
0.000	0.000	0.000	not available									
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available									
24	0.000	--	--	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
0.000	0.000	0.000	not available									
25	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available									
26	0.000	--	--	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
0.000	0.000	0.000	not available									
27	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available									
28	0.000	--	--	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 477 di 1221
0.000	0.000	0.000	not available		
29	0.000	--	--	--	--
0.000	0.000	0.000	not available		
30	0.000	--	--	--	--
0.000	0.000	0.000	not available		
31	0.000	--	--	--	--
0.000	0.000	0.000	not available		
32	0.000	--	--	--	--
0.000	0.000	0.000	not available		
33	0.000	--	--	--	--
0.000	0.000	0.000	not available		
34	0.000	--	--	--	--
0.000	0.000	0.000	not available		
35	0.000	--	--	--	--
0.000	0.000	0.000	not available		
36	0.000	--	--	--	--
0.000	0.000	0.000	not available		
37	0.000	--	--	--	--
0.000	0.000	0.000	not available		
38	0.000	--	--	--	--
0.000	0.000	0.000	not available		
39	0.000	--	--	--	--
0.000	0.000	0.000	not available		
40	0.000	--	--	--	--
0.000	0.000	0.000	not available		
41	0.000	--	--	--	--
0.000	0.000	0.000	not available		
42	0.000	--	--	--	--
0.000	0.000	0.000	not available		
43	0.000	--	--	--	--
0.000	0.000	0.000	not available		
44	0.000	--	--	--	--
0.000	0.000	0.000	not available		
45	0.000	--	--	--	--
0.000	0.000	0.000	not available		
46	0.000	--	--	--	--
0.000	0.000	0.000	not available		
47	0.000	--	--	--	--
0.000	0.000	0.000	not available		
48	0.000	--	--	--	--
0.000	0.000	0.000	not available		
49 D	0.1155	1.3119E-02	1.900 0.5776	182.4	100.6
0.5776	0.000	0.000	Strato1_2_8_L_0		
50 D	1.438	1.2603E-02	5.700 7.188	186.2	102.4
7.188	0.000	0.000	Strato1_2_8_L_0		
51 D	4.593	1.2091E-02	9.500 22.96	190.0	104.4
22.96	0.000	0.000	Strato1_2_8_L_0		
52 D	7.756	1.1582E-02	13.30 38.78	193.8	106.3
38.78	0.000	0.000	Strato1_2_8_L_0		
53 D	10.93	1.1077E-02	17.10 54.64	197.6	108.3
54.64	0.000	0.000	Strato1_2_8_L_0		
54 D	14.11	1.0578E-02	20.90 70.53	201.4	110.2
70.53	0.000	0.000	Strato1_2_8_L_0		
55 D	17.29	1.0085E-02	24.70 86.44	205.2	112.2
86.44	0.000	0.000	Strato1_2_8_L_0		
56 D	20.47	9.5981E-03	28.50 102.4	209.0	115.2
102.4	0.000	0.000	Strato1_2_8_L_0		
57 D	23.66	9.1193E-03	32.30 118.3	212.8	130.5
118.3	0.000	0.000	Strato1_2_8_L_0		
58 D	25.45	8.6489E-03	36.10 127.3	216.6	138.8
127.3	0.000	0.000	Strato1_2_8_L_0		
59 D	25.73	8.1877E-03	39.90 128.7	220.4	139.6
128.7	0.000	0.000	Strato1_2_8_L_0		
60 D	26.02	7.7366E-03	43.70 130.1	224.2	140.5
130.1	0.000	0.000	Strato1_2_8_L_0		
61 D	26.31	7.2961E-03	47.50 131.6	228.0	141.3
131.6	0.000	0.000	Strato1_2_8_L_0		
62 D	26.61	6.8668E-03	51.30 133.0	231.8	142.2
133.0	0.000	0.000	Strato1_2_8_L_0		
63 D	26.91	6.4492E-03	55.10 134.6	235.6	143.1
134.6	0.000	0.000	Strato1_2_8_L_0		
64 D	27.22	6.0439E-03	58.90 136.1	239.4	144.0
136.1	0.000	0.000	Strato1_2_8_L_0		
65 D	27.53	5.6511E-03	62.70 137.6	243.2	144.9
137.6	0.000	0.000	Strato1_2_8_L_0		
66 D	27.84	5.2712E-03	66.50 139.2	247.0	145.9
139.2	0.000	0.000	Strato1_2_8_L_0		
67 D	24.64	4.9043E-03	70.40 123.2	250.9	136.8
123.2	0.000	0.000	Strato2_3095_82743_L_0		
68 D	24.89	4.5507E-03	74.40 124.5	254.9	136.8
124.5	0.000	0.000	Strato2_3095_82743_L_0		
69 D	25.15	4.2103E-03	78.40 125.8	258.9	136.9
125.8	0.000	0.000	Strato2_3095_82743_L_0		
70 D	25.42	3.8832E-03	82.40 127.1	262.9	137.1
127.1	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 478 di 1221
71 D 25.50 3.5690E-03 86.40 127.5 266.9 137.8	UL-RL	1.3780E+04	-14.00 0.000	1.000	1.000
127.5 0.000 0.000 Strato2_3095_82743_L_0					
72 D 25.18 3.2677E-03 90.40 125.9 270.9 139.6	UL-RL	1.3780E+04	-14.20 0.000	1.000	1.000
125.9 0.000 0.000 Strato2_3095_82743_L_0					
73 D 24.89 2.9787E-03 94.40 124.4 274.9 141.5	UL-RL	1.3780E+04	-14.40 0.000	1.000	1.000
124.4 0.000 0.000 Strato2_3095_82743_L_0					
74 D 24.62 2.7016E-03 98.40 123.1 278.9 143.3	UL-RL	1.3780E+04	-14.60 0.000	1.000	1.000
123.1 0.000 0.000 Strato2_3095_82743_L_0					
75 D 24.38 2.4358E-03 102.4 121.9 282.9 145.2	UL-RL	1.3780E+04	-14.80 0.000	1.000	1.000
121.9 0.000 0.000 Strato2_3095_82743_L_0					
76 D 24.17 2.1805E-03 106.4 120.9 286.9 147.0	UL-RL	1.3780E+04	-15.00 0.000	1.000	1.000
120.9 0.000 0.000 Strato2_3095_82743_L_0					
77 D 23.98 1.9351E-03 110.4 119.9 290.9 148.9	UL-RL	1.3780E+04	-15.20 0.000	1.000	1.000
119.9 0.000 0.000 Strato2_3095_82743_L_0					
78 D 23.82 1.6987E-03 114.4 119.1 294.9 150.8	UL-RL	1.3780E+04	-15.40 0.000	1.000	1.000
119.1 0.000 0.000 Strato2_3095_82743_L_0					
79 D 23.67 1.4703E-03 118.4 118.3 298.9 152.7	UL-RL	1.3780E+04	-15.60 0.000	1.000	1.000
118.3 0.000 0.000 Strato2_3095_82743_L_0					
80 D 23.53 1.2493E-03 122.4 117.7 302.9 154.6	UL-RL	1.3780E+04	-15.80 0.000	1.000	1.000
117.7 0.000 0.000 Strato2_3095_82743_L_0					
81 D 23.42 1.0345E-03 126.4 117.1 306.9 156.5	UL-RL	1.3780E+04	-16.00 0.000	1.000	1.000
117.1 0.000 0.000 Strato2_3095_82743_L_0					
82 D 23.31 8.2520E-04 130.4 116.6 310.9 158.5	UL-RL	1.3780E+04	-16.20 0.000	1.000	1.000
116.6 0.000 0.000 Strato2_3095_82743_L_0					
83 D 23.22 6.2046E-04 134.4 116.1 314.9 160.4	UL-RL	1.3780E+04	-16.40 0.000	1.000	1.000
116.1 0.000 0.000 Strato2_3095_82743_L_0					
84 D 23.13 4.1946E-04 138.4 115.7 318.9 162.3	UL-RL	1.3780E+04	-16.60 0.000	1.000	1.000
115.7 0.000 0.000 Strato2_3095_82743_L_0					
85 D 23.05 2.2141E-04 142.4 115.2 322.9 164.2	UL-RL	1.3780E+04	-16.80 0.000	1.000	1.000
115.2 0.000 0.000 Strato2_3095_82743_L_0					
86 D 22.97 2.5615E-05 146.4 114.9 326.9 166.2	UL-RL	1.3780E+04	-17.00 0.000	1.000	1.000
114.9 0.000 0.000 Strato2_3095_82743_L_0					
87 D 22.90 -1.6858E-04 150.4 114.5 330.9 168.1	UL-RL	1.3780E+04	-17.20 0.000	1.000	1.000
114.5 0.000 0.000 Strato2_3095_82743_L_0					
88 D 22.83 -3.6171E-04 154.4 114.1 334.9 170.1	UL-RL	1.3780E+04	-17.40 0.000	1.000	1.000
114.1 0.000 0.000 Strato2_3095_82743_L_0					
89 D 22.76 -5.5422E-04 158.4 113.8 338.9 172.0	UL-RL	1.3780E+04	-17.60 0.000	1.000	1.000
113.8 0.000 0.000 Strato2_3095_82743_L_0					
90 D 22.68 -7.4645E-04 162.4 113.4 342.9 173.9	UL-RL	1.3780E+04	-17.80 0.000	1.000	1.000
113.4 0.000 0.000 Strato2_3095_82743_L_0					
91 D 11.31 -9.3859E-04 166.4 113.1 346.9 175.9	UL-RL	1.3780E+04	-18.00 0.000	1.000	1.000
113.1 0.000 0.000 Strato2_3095_82743_L_0					

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.SLERara_3454                       |
|                               Exe Time :29 July 2019      18:00:07                             |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 6.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.30400	-0.30400	-3.97074E-10	6.08000E-02
2	0.96154	-0.96154	-6.08000E-02	0.25311
3	2.8715	-2.8715	-0.25311	0.82740
4	4.8761	-4.8761	-0.82740	1.8026
5	7.6275	-7.6275	-1.8026	3.3281
6	10.469	-10.469	-3.3281	5.4219
7	13.865	-13.865	-5.4219	8.1948
8	17.367	-17.367	-8.1948	11.668
9	21.292	-21.292	-11.668	15.927
10	25.362	-25.362	-15.927	20.999
11	30.019	-30.019	-20.999	27.003
12	34.984	-34.984	-27.003	34.000
13	40.501	-40.501	-34.000	42.100
14	46.335	-46.335	-42.100	51.367
15	52.697	-52.697	-51.367	61.906
16	-157.40	157.40	-61.906	30.426
17	-150.22	150.22	-30.426	0.38166
18	-142.71	142.71	-0.38166	-28.161
19	-134.71	134.71	28.161	-55.102
20	-126.36	126.36	55.102	-80.374

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 479 di 1221
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21	-117.53	117.53	80.374	-103.88
22	-108.36	108.36	103.88	-125.55
23	-98.710	98.710	125.55	-145.29
24	-88.735	88.735	145.29	-163.04
25	-78.293	78.293	163.04	-178.70
26	-67.508	67.508	178.70	-192.20
27	-56.267	56.267	192.20	-203.45
28	-44.685	44.685	203.45	-212.39
29	-32.658	32.658	212.39	-218.92
30	-20.293	20.293	218.92	-222.98
31	-7.5069	7.5069	222.98	-224.48
32	5.6104	-5.6104	224.48	-223.36
33	19.146	-19.146	223.36	-219.53
34	33.004	-33.004	219.53	-212.93
35	47.264	-47.264	212.93	-203.48
36	61.832	-61.832	203.48	-191.11
37	76.783	-76.783	191.11	-175.75
38	92.026	-92.026	175.75	-157.35
39	107.62	-107.62	157.35	-135.83
40	123.48	-123.48	135.83	-111.13
41	139.68	-139.68	111.13	-83.193
42	156.12	-156.12	83.193	-51.970
43	172.86	-172.86	51.970	-17.398
44	189.81	-189.81	17.398	20.564
45	207.03	-207.03	-20.564	61.970
46	-17.075	17.075	-61.970	58.555
47	0.52592	-0.52592	-58.555	58.660
48	18.262	-18.262	-58.660	62.312
49	36.062	-36.062	-62.312	69.525
50	52.643	-52.643	-69.525	80.054
51	66.219	-66.219	-80.054	93.297
52	76.709	-76.709	-93.297	108.64
53	84.154	-84.154	-108.64	125.47
54	88.476	-88.476	-125.47	143.17
55	89.724	-89.724	-143.17	161.11
56	87.835	-87.835	-161.11	178.68
57	82.853	-82.853	-178.68	195.25
58	76.127	-76.127	-195.25	210.47
59	69.211	-69.211	-210.47	224.32
60	62.047	-62.047	-224.32	236.72
61	54.675	-54.675	-236.72	247.66
62	47.046	-47.046	-247.66	257.07
63	39.204	-39.204	-257.07	264.91
64	31.101	-31.101	-264.91	271.13
65	22.780	-22.780	-271.13	275.69
66	14.772	-14.772	-275.69	278.64
67	4.6590	-4.6590	-278.64	279.57
68	-5.9621	5.9621	-279.57	278.38
69	-17.056	17.056	-278.38	274.97
70	-28.646	28.646	-274.97	269.24
71	-40.503	40.503	-269.24	261.14
72	-52.240	52.240	-261.14	250.69
73	-63.840	63.840	-250.69	237.92
74	-73.623	73.623	-237.92	223.20
75	-81.428	81.428	-223.20	206.91
76	-87.411	87.411	-206.91	189.43
77	-91.576	91.576	-189.43	171.12
78	-94.056	94.056	-171.12	152.30
79	-94.850	94.850	-152.30	133.33
80	-94.076	94.076	-133.33	114.52
81	-91.720	91.720	-114.52	96.175
82	-87.826	87.826	-96.175	78.610
83	-82.486	82.486	-78.610	62.113
84	-75.677	75.677	-62.113	46.977
85	-67.473	67.473	-46.977	33.482
86	-57.830	57.830	-33.482	21.916
87	-46.819	46.819	-21.916	12.552
88	-34.390	34.390	-12.552	5.6741
89	-21.133	21.133	-5.6741	1.4475
90	-7.2374	7.2374	-1.4475	-3.33844E-13

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SLERara_3454                                                                                   |
|          Exe Time :29 July 2019          18:00:07                                                                                       |
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New Project

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 480 di 1221
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Tirante1_429 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 C U R R E N T T I M E I S 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit		
ANCHOR	1	224.41	-1.08357E-03	2.00579E-02	0.0000	3950.0	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:00:07  |
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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 . 5

Tirante2_1507 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 C U R R E N T T I M E I S 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit		
ANCHOR	1	250.00	-2.62486E-03	-2.62486E-03	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1248E+07 RIMNOR=0.4397E+07
 RENORM= 9331. REMNOR=0.1960E-17 RATIO =0.8647E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 241.5 RMMAX = 279.6
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.1248E+07 RDR =0.4397E+07
 RATIO=0.8647E-01 RATIO= 0.000
 MAX UN= 27.84 IEQ= 131 NODE 66 DOF 1 Y-DISPL.F
 MIN UN=-.7246E-08 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1248E+07 RIMNOR=0.4397E+07
 RENORM= 778.8 REMNOR=0.1727E-17 RATIO =0.2498E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 241.5 RMMAX = 279.6
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.1248E+07 RDR =0.4397E+07
 RATIO=0.2498E-01 RATIO= 0.000
 MAX UN= 13.70 IEQ= 133 NODE 67 DOF 1 Y-DISPL.F
 MIN UN=-.5833E-08 IEQ= 79 NODE 40 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1248E+07 RIMNOR=0.4397E+07
 RENORM= 59.81 REMNOR=0.2949E-17 RATIO =0.6923E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 241.5 RMMAX = 279.6
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.1248E+07 RDR =0.4397E+07
 RATIO=0.6923E-02 RATIO= 0.000
 MAX UN= 3.825 IEQ= 143 NODE 72 DOF 1 Y-DISPL.F
 MIN UN=-.7588E-08 IEQ= 95 NODE 48 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1248E+07 RIMNOR=0.4397E+07
 RENORM=0.8368 REMNOR=0.2489E-17 RATIO =0.8188E-03 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 241.5 RMMAX = 279.6
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.1248E+07 RDR =0.4397E+07
 RATIO=0.8188E-03 RATIO= 0.000
 MAX UN=0.5908 IEQ= 65 NODE 33 DOF 1 Y-DISPL.F
 MIN UN=-.5558E-08 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1248E+07 RIMNOR=0.4397E+07
 RENORM=0.4682E-02 REMNOR=0.2840E-17 RATIO =0.6125E-04 TOLER =0.1000E-03 CONVERGED !

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
481 di 1221

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RFMAX = 241.5      RMMAX = 279.6
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT  =0.1248E+07 RDR  =0.4397E+07
RATIOT=0.6125E-04 RATIO= 0.000
MAX UN=0.6843E-01 IEQ= 53 NODE 27 DOF 1 Y-DISPL.F
MIN UN=-.5401E-08 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.SLERara_3454                       |
|                               Exe Time :29 July 2019 18:00:07                               |
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New Project
SOLUTION REACHED USING 5 ITERATIONS ON 100

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PRINT OUT FOR TIME STEP 7 ( AT TIME 7.000 )

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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	3.1539591E-02	-1.2277752E-03	
2	3.1294039E-02	-1.2277399E-03	
3	3.1048505E-02	-1.2275663E-03	
4	3.0803032E-02	-1.2270945E-03	
5	3.0557699E-02	-1.2261413E-03	
6	3.0312621E-02	-1.2245125E-03	
7	3.0067953E-02	-1.2220030E-03	
8	2.9823892E-02	-1.2184014E-03	
9	2.9580679E-02	-1.2134898E-03	
10	2.9338598E-02	-1.2070466E-03	
11	2.9097978E-02	-1.1988456E-03	
12	2.8859193E-02	-1.1886529E-03	
13	2.8622666E-02	-1.1762219E-03	
14	2.8388870E-02	-1.1612955E-03	
15	2.8158332E-02	-1.1436048E-03	
16	2.7931631E-02	-1.1228705E-03	
17	2.7709061E-02	-1.1039759E-03	
18	2.7489594E-02	-1.0917943E-03	
19	2.7271917E-02	-1.0860165E-03	
20	2.7054781E-02	-1.0863232E-03	
21	2.6837004E-02	-1.0923855E-03	
22	2.6617466E-02	-1.1038650E-03	
23	2.6395120E-02	-1.1204143E-03	
24	2.6168987E-02	-1.1416770E-03	
25	2.5938160E-02	-1.1672885E-03	
26	2.5701807E-02	-1.1968764E-03	
27	2.5459170E-02	-1.2300597E-03	
28	2.5209569E-02	-1.2664500E-03	
29	2.4952404E-02	-1.3056477E-03	
30	2.4687152E-02	-1.3472406E-03	
31	2.4413376E-02	-1.3908046E-03	
32	2.4130727E-02	-1.4359052E-03	
33	2.3838942E-02	-1.4820963E-03	
34	2.3537846E-02	-1.5289212E-03	
35	2.3227364E-02	-1.5759111E-03	
36	2.2907504E-02	-1.6225871E-03	
37	2.2578382E-02	-1.6684584E-03	
38	2.2240208E-02	-1.7130229E-03	
39	2.1893295E-02	-1.7557676E-03	
40	2.1538059E-02	-1.7961683E-03	
41	2.1175021E-02	-1.8336905E-03	
42	2.0804811E-02	-1.8677877E-03	
43	2.0428171E-02	-1.8979026E-03	
44	2.0045954E-02	-1.9234670E-03	
45	1.9659129E-02	-1.9439009E-03	
46	1.9268767E-02	-1.9586144E-03	
47	1.8875670E-02	-1.9733794E-03	
48	1.8479028E-02	-1.9939585E-03	
49	1.8077742E-02	-2.019278E-03	
50	1.7670835E-02	-2.0500529E-03	
51	1.7257460E-02	-2.0842875E-03	
52	1.6836901E-02	-2.1217750E-03	
53	1.6408576E-02	-2.1618469E-03	
54	1.5972035E-02	-2.2038240E-03	
55	1.5526965E-02	-2.2470163E-03	
56	1.5073194E-02	-2.2907227E-03	
57	1.4610689E-02	-2.3342311E-03	
58	1.4139563E-02	-2.3768182E-03	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 482 di 1221
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- 59 1.3660073E-02 -2.4177497E-03
- 60 1.3172623E-02 -2.4562803E-03
- 61 1.2677771E-02 -2.4916534E-03
- 62 1.2176224E-02 -2.5231018E-03
- 63 1.1668844E-02 -2.5498471E-03
- 64 1.1156651E-02 -2.5711000E-03
- 65 1.0640823E-02 -2.5860600E-03
- 66 1.0122701E-02 -2.5939157E-03
- 67 9.6037855E-03 -2.5938445E-03
- 68 9.0856998E-03 -2.5857164E-03
- 69 8.5699911E-03 -2.5702064E-03
- 70 8.0580511E-03 -2.5481894E-03
- 71 7.5510849E-03 -2.5206278E-03
- 72 7.0501061E-03 -2.4884736E-03
- 73 6.5559635E-03 -2.4526688E-03
- 74 6.0692452E-03 -2.4141368E-03
- 75 5.5904296E-03 -2.3737932E-03
- 76 5.1197887E-03 -2.3325380E-03
- 77 4.6574161E-03 -2.2912574E-03
- 78 4.2032293E-03 -2.2508238E-03
- 79 3.7569740E-03 -2.2120786E-03
- 80 3.3182328E-03 -2.1758090E-03
- 81 2.8864402E-03 -2.1426927E-03
- 82 2.4609113E-03 -2.1132430E-03
- 83 2.0408755E-03 -2.0878057E-03
- 84 1.6255094E-03 -2.0665625E-03
- 85 1.2139492E-03 -2.0495314E-03
- 86 8.0540483E-04 -2.0365718E-03
- 87 3.9906925E-04 -2.0273800E-03
- 88 -5.7675201E-06 -2.0214934E-03
- 89 -4.0970699E-04 -2.0182900E-03
- 90 -8.1321119E-04 -2.0170016E-03
- 91 -1.2165755E-03 -2.0167318E-03

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:00:07  |
+-----+

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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 7.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1 D	1.490	-3.1540E-02	10.00	14.90	10.00	16.00	UL-RL	8488.	0.000	0.000	1.000	1.000
14.90	0.000	0.000	Stratol_2_8_L_0									
2 D	2.840	-3.1294E-02	10.81	14.20	10.81	16.18	UL-RL	8488.	-0.2000	0.000	1.000	1.000
14.20	0.000	0.000	Stratol_2_8_L_0									
3 D	3.904	-3.1049E-02	31.41	19.52	31.41	25.36	UL-RL	8488.	-0.4000	0.000	1.000	1.000
19.52	0.000	0.000	Stratol_2_8_L_0									
4 D	3.810	-3.0803E-02	32.97	19.05	32.97	25.88	UL-RL	8488.	-0.6000	0.000	1.000	1.000
19.05	0.000	0.000	Stratol_2_8_L_0									
5 D	4.368	-3.0558E-02	45.25	21.84	45.25	31.27	UL-RL	8488.	-0.8000	0.000	1.000	1.000
21.84	0.000	0.000	Stratol_2_8_L_0									
6 D	4.269	-3.0313E-02	46.73	21.35	46.73	31.75	UL-RL	8488.	-1.000	0.000	1.000	1.000
21.35	0.000	0.000	Stratol_2_8_L_0									
7 D	4.635	-3.0068E-02	55.86	23.17	55.86	35.71	UL-RL	8488.	-1.200	0.000	1.000	1.000
23.17	0.000	0.000	Stratol_2_8_L_0									
8 D	4.550	-2.9824E-02	57.60	22.75	57.60	36.30	UL-RL	8488.	-1.400	0.000	1.000	1.000
22.75	0.000	0.000	Stratol_2_8_L_0									
9 D	4.783	-2.9581E-02	64.56	23.91	64.56	39.26	UL-RL	8488.	-1.600	0.000	1.000	1.000
23.91	0.000	0.000	Stratol_2_8_L_0									
10 D	4.736	-2.9339E-02	66.63	23.68	66.63	39.99	UL-RL	8488.	-1.800	0.000	1.000	1.000
23.68	0.000	0.000	Stratol_2_8_L_0									
11 D	5.130	-2.9098E-02	73.46	25.65	73.46	42.88	UL-RL	8488.	-2.000	0.000	1.000	1.000
25.65	0.000	0.000	Stratol_2_8_L_0									
12 D	5.244	-2.8859E-02	75.72	26.22	75.72	43.68	UL-RL	8488.	-2.200	0.000	1.000	1.000
26.22	0.000	0.000	Stratol_2_8_L_0									
13 D	5.599	-2.8623E-02	81.98	28.00	81.98	46.28	UL-RL	8488.	-2.400	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 483 di 1221				
28.00	0.000	0.000	Strato1_2_8_L_0								
14 D	5.719	-2.8389E-02	84.40	28.60	84.40	47.12	UL-RL 8488.	-2.600	0.000	1.000	1.000
28.60	0.000	0.000	Strato1_2_8_L_0								
15 D	6.047	-2.8158E-02	90.27	30.23	90.27	49.51	UL-RL 8488.	-2.800	0.000	1.000	1.000
30.23	0.000	0.000	Strato1_2_8_L_0								
16 D	6.147	-2.7932E-02	92.44	30.74	92.44	50.19	UL-RL 8488.	-3.000	0.000	1.000	1.000
30.74	0.000	0.000	Strato1_2_8_L_0								
17 D	6.454	-2.7709E-02	98.05	32.27	98.05	52.41	UL-RL 8488.	-3.200	0.000	1.000	1.000
32.27	0.000	0.000	Strato1_2_8_L_0								
18 D	6.580	-2.7490E-02	100.7	32.90	100.7	53.39	UL-RL 8488.	-3.400	0.000	1.000	1.000
32.90	0.000	0.000	Strato1_2_8_L_0								
19 D	6.866	-2.7272E-02	106.1	34.33	106.1	56.24	UL-RL 8488.	-3.600	0.000	1.000	1.000
34.33	0.000	0.000	Strato1_2_8_L_0								
20 D	6.990	-2.7055E-02	108.9	34.95	108.9	57.70	UL-RL 8488.	-3.800	0.000	1.000	1.000
34.95	0.000	0.000	Strato1_2_8_L_0								
21 D	7.258	-2.6837E-02	114.1	36.29	114.1	60.46	UL-RL 8488.	-4.000	0.000	1.000	1.000
36.29	0.000	0.000	Strato1_2_8_L_0								
22 D	7.379	-2.6617E-02	116.9	36.90	116.9	61.97	UL-RL 8488.	-4.200	0.000	1.000	1.000
36.90	0.000	0.000	Strato1_2_8_L_0								
23 D	7.630	-2.6395E-02	122.0	38.15	122.0	64.66	UL-RL 8488.	-4.400	0.000	1.000	1.000
38.15	0.000	0.000	Strato1_2_8_L_0								
24 D	7.730	-2.6169E-02	124.7	38.65	124.7	66.07	UL-RL 8488.	-4.600	0.000	1.000	1.000
38.65	0.000	0.000	Strato1_2_8_L_0								
25 D	7.964	-2.5938E-02	129.6	39.82	129.6	68.70	UL-RL 8488.	-4.800	0.000	1.000	1.000
39.82	0.000	0.000	Strato1_2_8_L_0								
26 D	8.073	-2.5702E-02	132.6	40.36	132.6	70.28	UL-RL 8488.	-5.000	0.000	1.000	1.000
40.36	0.000	0.000	Strato1_2_8_L_0								
27 D	8.358	-2.5459E-02	137.5	41.79	137.5	72.85	ACTIVE 0.000	-5.200	0.000	1.000	1.000
41.79	0.000	0.000	Strato1_2_8_L_0								
28 D	8.542	-2.5210E-02	140.5	42.71	140.5	74.46	ACTIVE 0.000	-5.400	0.000	1.000	1.000
42.71	0.000	0.000	Strato1_2_8_L_0								
29 D	8.832	-2.4952E-02	145.3	44.16	145.3	76.99	ACTIVE 0.000	-5.600	0.000	1.000	1.000
44.16	0.000	0.000	Strato1_2_8_L_0								
30 D	9.019	-2.4687E-02	148.3	45.10	148.3	78.62	ACTIVE 0.000	-5.800	0.000	1.000	1.000
45.10	0.000	0.000	Strato1_2_8_L_0								
31 D	9.294	-2.4413E-02	152.9	46.47	152.9	81.02	ACTIVE 0.000	-6.000	0.000	1.000	1.000
46.47	0.000	0.000	Strato1_2_8_L_0								
32 D	9.484	-2.4131E-02	156.0	47.42	156.0	82.67	ACTIVE 0.000	-6.200	0.000	1.000	1.000
47.42	0.000	0.000	Strato1_2_8_L_0								
33 D	9.767	-2.3839E-02	160.6	48.83	160.6	85.14	ACTIVE 0.000	-6.400	0.000	1.000	1.000
48.83	0.000	0.000	Strato1_2_8_L_0								
34 D	9.959	-2.3538E-02	163.8	49.79	163.8	86.81	ACTIVE 0.000	-6.600	0.000	1.000	1.000
49.79	0.000	0.000	Strato1_2_8_L_0								
35 D	10.24	-2.3227E-02	168.4	51.19	168.4	89.25	ACTIVE 0.000	-6.800	0.000	1.000	1.000
51.19	0.000	0.000	Strato1_2_8_L_0								
36 D	10.43	-2.2908E-02	171.6	52.16	171.6	90.94	ACTIVE 0.000	-7.000	0.000	1.000	1.000
52.16	0.000	0.000	Strato1_2_8_L_0								
37 D	10.71	-2.2578E-02	176.1	53.54	176.1	93.35	ACTIVE 0.000	-7.200	0.000	1.000	1.000
53.54	0.000	0.000	Strato1_2_8_L_0								
38 D	10.90	-2.2240E-02	179.3	54.52	179.3	95.05	ACTIVE 0.000	-7.400	0.000	1.000	1.000
54.52	0.000	0.000	Strato1_2_8_L_0								
39 D	11.17	-2.1893E-02	183.7	55.84	183.7	97.36	ACTIVE 0.000	-7.600	0.000	1.000	1.000
55.84	0.000	0.000	Strato1_2_8_L_0								
40 D	11.37	-2.1538E-02	186.9	56.83	186.9	99.08	ACTIVE 0.000	-7.800	0.000	1.000	1.000
56.83	0.000	0.000	Strato1_2_8_L_0								
41 D	11.64	-2.1175E-02	191.4	58.19	191.4	101.5	ACTIVE 0.000	-8.000	0.000	1.000	1.000
58.19	0.000	0.000	Strato1_2_8_L_0								
42 D	11.84	-2.0805E-02	194.7	59.18	194.7	103.2	ACTIVE 0.000	-8.200	0.000	1.000	1.000
59.18	0.000	0.000	Strato1_2_8_L_0								
43 D	12.11	-2.0428E-02	199.1	60.53	199.1	105.5	ACTIVE 0.000	-8.400	0.000	1.000	1.000
60.53	0.000	0.000	Strato1_2_8_L_0								
44 D	12.31	-2.0046E-02	202.4	61.53	202.4	107.3	ACTIVE 0.000	-8.600	0.000	1.000	1.000
61.53	0.000	0.000	Strato1_2_8_L_0								
45 D	12.57	-1.9659E-02	206.8	62.87	206.8	109.6	ACTIVE 0.000	-8.800	0.000	1.000	1.000
62.87	0.000	0.000	Strato1_2_8_L_0								
46 D	12.77	-1.9269E-02	210.0	63.84	210.0	111.3	ACTIVE 0.000	-9.000	0.000	1.000	1.000
63.84	0.000	0.000	Strato1_2_8_L_0								
47 D	13.03	-1.8876E-02	214.4	65.17	214.4	113.6	ACTIVE 0.000	-9.200	0.000	1.000	1.000
65.17	0.000	0.000	Strato1_2_8_L_0								
48 D	13.24	-1.8479E-02	217.7	66.19	217.7	115.4	ACTIVE 0.000	-9.400	0.000	1.000	1.000
66.19	0.000	0.000	Strato1_2_8_L_0								
49 D	13.50	-1.8078E-02	222.1	67.51	222.1	117.7	ACTIVE 0.000	-9.600	0.000	1.000	1.000
67.51	0.000	0.000	Strato1_2_8_L_0								
50 D	13.71	-1.7671E-02	225.4	68.53	225.4	119.5	ACTIVE 0.000	-9.800	0.000	1.000	1.000
68.53	0.000	0.000	Strato1_2_8_L_0								
51 D	13.97	-1.7257E-02	229.8	69.85	229.8	121.8	ACTIVE 0.000	-10.000	0.000	1.000	1.000
69.85	0.000	0.000	Strato1_2_8_L_0								
52 D	14.17	-1.6837E-02	233.1	70.87	233.1	123.6	ACTIVE 0.000	-10.200	0.000	1.000	1.000
70.87	0.000	0.000	Strato1_2_8_L_0								
53 D	14.44	-1.6409E-02	237.4	72.18	237.4	125.8	ACTIVE 0.000	-10.400	0.000	1.000	1.000
72.18	0.000	0.000	Strato1_2_8_L_0								
54 D	14.63	-1.5972E-02	240.7	73.17	240.7	127.6	ACTIVE 0.000	-10.600	0.000	1.000	1.000
73.17	0.000	0.000	Strato1_2_8_L_0								
55 D	14.90	-1.5527E-02	245.0	74.48	245.0	129.8	ACTIVE 0.000	-10.800	0.000	1.000	1.000
74.48	0.000	0.000	Strato1_2_8_L_0								

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 484 di 1221
56 D 15.10 -1.5073E-02 248.4 75.51 248.4 131.6 ACTIVE 0.000 -11.00 0.000 1.000 1.000					
75.51 0.000 0.000 Strato1_2_8_L_0					
57 D 15.36 -1.4611E-02 252.7 76.81 252.7 133.9 ACTIVE 0.000 -11.20 0.000 1.000 1.000					
76.81 0.000 0.000 Strato1_2_8_L_0					
58 D 15.57 -1.4140E-02 256.1 77.85 256.1 135.7 ACTIVE 0.000 -11.40 0.000 1.000 1.000					
77.85 0.000 0.000 Strato1_2_8_L_0					
59 D 15.83 -1.3660E-02 260.3 79.14 260.3 138.0 ACTIVE 0.000 -11.60 0.000 1.000 1.000					
79.14 0.000 0.000 Strato1_2_8_L_0					
60 D 16.04 -1.3173E-02 263.7 80.18 263.7 139.8 ACTIVE 0.000 -11.80 0.000 1.000 1.000					
80.18 0.000 0.000 Strato1_2_8_L_0					
61 D 16.29 -1.2678E-02 267.9 81.44 267.9 142.0 ACTIVE 0.000 -12.00 0.000 1.000 1.000					
81.44 0.000 0.000 Strato1_2_8_L_0					
62 D 16.50 -1.2176E-02 271.3 82.48 271.3 143.8 ACTIVE 0.000 -12.20 0.000 1.000 1.000					
82.48 0.000 0.000 Strato1_2_8_L_0					
63 D 16.75 -1.1669E-02 275.5 83.77 275.5 146.0 ACTIVE 0.000 -12.40 0.000 1.000 1.000					
83.77 0.000 0.000 Strato1_2_8_L_0					
64 D 16.96 -1.1157E-02 279.0 84.81 279.0 147.9 ACTIVE 0.000 -12.60 0.000 1.000 1.000					
84.81 0.000 0.000 Strato1_2_8_L_0					
65 D 17.22 -1.0641E-02 283.2 86.09 283.2 150.1 ACTIVE 0.000 -12.80 0.000 1.000 1.000					
86.09 0.000 0.000 Strato1_2_8_L_0					
66 D 17.43 -1.0123E-02 286.7 87.14 286.7 151.9 ACTIVE 0.000 -13.00 0.000 1.000 1.000					
87.14 0.000 0.000 Strato1_2_8_L_0					
67 D 9.797 -9.6038E-03 291.0 48.98 291.0 145.5 ACTIVE 0.000 -13.20 0.000 1.000 1.000					
48.98 0.000 0.000 Strato2_3095_82743_L_0					
68 D 9.969 -9.0857E-03 294.6 49.84 294.6 147.3 ACTIVE 0.000 -13.40 0.000 1.000 1.000					
49.84 0.000 0.000 Strato2_3095_82743_L_0					
69 D 10.17 -8.5700E-03 298.9 50.86 298.9 149.5 ACTIVE 0.000 -13.60 0.000 1.000 1.000					
50.86 0.000 0.000 Strato2_3095_82743_L_0					
70 D 10.34 -8.0581E-03 302.6 51.72 302.6 151.3 ACTIVE 0.000 -13.80 0.000 1.000 1.000					
51.72 0.000 0.000 Strato2_3095_82743_L_0					
71 D 10.55 -7.5511E-03 307.0 52.75 307.0 153.5 ACTIVE 0.000 -14.00 0.000 1.000 1.000					
52.75 0.000 0.000 Strato2_3095_82743_L_0					
72 D 10.72 -7.0501E-03 310.7 53.61 310.7 155.3 ACTIVE 0.000 -14.20 0.000 1.000 1.000					
53.61 0.000 0.000 Strato2_3095_82743_L_0					
73 D 10.93 -6.5560E-03 315.0 54.64 315.0 157.5 ACTIVE 0.000 -14.40 0.000 1.000 1.000					
54.64 0.000 0.000 Strato2_3095_82743_L_0					
74 D 11.10 -6.0692E-03 318.7 55.50 318.7 159.4 ACTIVE 0.000 -14.60 0.000 1.000 1.000					
55.50 0.000 0.000 Strato2_3095_82743_L_0					
75 D 11.31 -5.5904E-03 323.1 56.53 323.1 161.5 ACTIVE 0.000 -14.80 0.000 1.000 1.000					
56.53 0.000 0.000 Strato2_3095_82743_L_0					
76 D 11.48 -5.1198E-03 326.7 57.38 326.7 163.3 ACTIVE 0.000 -15.00 0.000 1.000 1.000					
57.38 0.000 0.000 Strato2_3095_82743_L_0					
77 D 11.68 -4.6574E-03 331.0 58.40 331.0 165.5 ACTIVE 0.000 -15.20 0.000 1.000 1.000					
58.40 0.000 0.000 Strato2_3095_82743_L_0					
78 D 11.85 -4.2032E-03 334.7 59.27 334.7 167.4 ACTIVE 0.000 -15.40 0.000 1.000 1.000					
59.27 0.000 0.000 Strato2_3095_82743_L_0					
79 D 12.06 -3.7570E-03 339.1 60.29 339.1 169.5 ACTIVE 0.000 -15.60 0.000 1.000 1.000					
60.29 0.000 0.000 Strato2_3095_82743_L_0					
80 D 14.37 -3.3182E-03 342.8 71.86 342.8 171.4 UL-RL 2.4012E+04 -15.80 0.000 1.000 1.000					
71.86 0.000 0.000 Strato2_3095_82743_L_0					
81 D 16.88 -2.8864E-03 347.1 84.39 347.1 173.6 UL-RL 2.4012E+04 -16.00 0.000 1.000 1.000					
84.39 0.000 0.000 Strato2_3095_82743_L_0					
82 D 19.35 -2.4609E-03 351.4 96.76 351.4 175.7 UL-RL 2.4012E+04 -16.20 0.000 1.000 1.000					
96.76 0.000 0.000 Strato2_3095_82743_L_0					
83 D 21.74 -2.0409E-03 355.1 108.7 355.1 177.6 UL-RL 2.4012E+04 -16.40 0.000 1.000 1.000					
108.7 0.000 0.000 Strato2_3095_82743_L_0					
84 D 24.15 -1.6255E-03 359.4 120.7 359.4 179.7 UL-RL 2.4012E+04 -16.60 0.000 1.000 1.000					
120.7 0.000 0.000 Strato2_3095_82743_L_0					
85 D 26.49 -1.2139E-03 363.1 132.4 363.1 181.6 UL-RL 2.4012E+04 -16.80 0.000 1.000 1.000					
132.4 0.000 0.000 Strato2_3095_82743_L_0					
86 D 28.87 -8.0540E-04 367.4 144.4 367.4 183.7 UL-RL 2.4012E+04 -17.00 0.000 1.000 1.000					
144.4 0.000 0.000 Strato2_3095_82743_L_0					
87 D 31.19 -3.9907E-04 371.1 155.9 371.1 185.6 UL-RL 2.4012E+04 -17.20 0.000 1.000 1.000					
155.9 0.000 0.000 Strato2_3095_82743_L_0					
88 D 33.55 5.7675E-06 375.4 167.7 375.4 187.7 UL-RL 2.4012E+04 -17.40 0.000 1.000 1.000					
167.7 0.000 0.000 Strato2_3095_82743_L_0					
89 D 35.32 4.0971E-04 379.2 176.6 379.2 190.9 UL-RL 2.4012E+04 -17.60 0.000 1.000 1.000					
176.6 0.000 0.000 Strato2_3095_82743_L_0					
90 D 36.90 8.1321E-04 383.5 184.5 383.5 195.0 UL-RL 2.4012E+04 -17.80 0.000 1.000 1.000					
184.5 0.000 0.000 Strato2_3095_82743_L_0					
91 D 19.21 1.2166E-03 387.1 192.1 387.1 198.8 UL-RL 2.4012E+04 -18.00 0.000 1.000 1.000					
192.1 0.000 0.000 Strato2_3095_82743_L_0					

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SLERara_3454                                                                                   |
|          Exe Time :29 July 2019  18:00:07                                                                                               |
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New Project



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 485 di 1221
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STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 7.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
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	not available									
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
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	not available									
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
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	not available									
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available									
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
0.000	0.000	0.000	not available									
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available									
24	0.000	--	--	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
0.000	0.000	0.000	not available									
25	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available									
26	0.000	--	--	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
0.000	0.000	0.000	not available									
27	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available									
28	0.000	--	--	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000
0.000	0.000	0.000	not available									
29	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000
0.000	0.000	0.000	not available									
30	0.000	--	--	--	--	--	REMOVED	--	-5.800	0.000	1.000	1.000
0.000	0.000	0.000	not available									
31	0.000	--	--	--	--	--	REMOVED	--	-6.000	0.000	1.000	1.000
0.000	0.000	0.000	not available									
32	0.000	--	--	--	--	--	REMOVED	--	-6.200	0.000	1.000	1.000
0.000	0.000	0.000	not available									
33	0.000	--	--	--	--	--	REMOVED	--	-6.400	0.000	1.000	1.000
0.000	0.000	0.000	not available									
34	0.000	--	--	--	--	--	REMOVED	--	-6.600	0.000	1.000	1.000
0.000	0.000	0.000	not available									
35	0.000	--	--	--	--	--	REMOVED	--	-6.800	0.000	1.000	1.000
0.000	0.000	0.000	not available									
36	0.000	--	--	--	--	--	REMOVED	--	-7.000	0.000	1.000	1.000

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 487 di 1221							
79 D	28.01	3.7570E-03	50.00	140.1	298.9	152.7	UL-RL	2.3904E+04	-15.60	0.000	1.000	1.000
140.1	0.000	0.000	Strato2_3095_82743_L_0									
80 D	26.96	3.3182E-03	54.00	134.8	302.9	154.6	UL-RL	2.3904E+04	-15.80	0.000	1.000	1.000
134.8	0.000	0.000	Strato2_3095_82743_L_0									
81 D	25.92	2.8864E-03	58.00	129.6	306.9	156.5	UL-RL	2.3904E+04	-16.00	0.000	1.000	1.000
129.6	0.000	0.000	Strato2_3095_82743_L_0									
82 D	24.88	2.4609E-03	62.00	124.4	310.9	158.5	UL-RL	2.3904E+04	-16.20	0.000	1.000	1.000
124.4	0.000	0.000	Strato2_3095_82743_L_0									
83 D	23.85	2.0409E-03	66.00	119.3	314.9	160.4	UL-RL	2.3904E+04	-16.40	0.000	1.000	1.000
119.3	0.000	0.000	Strato2_3095_82743_L_0									
84 D	22.83	1.6255E-03	70.00	114.1	318.9	162.3	UL-RL	2.3904E+04	-16.60	0.000	1.000	1.000
114.1	0.000	0.000	Strato2_3095_82743_L_0									
85 D	21.81	1.2139E-03	74.00	109.0	322.9	164.2	UL-RL	2.3904E+04	-16.80	0.000	1.000	1.000
109.0	0.000	0.000	Strato2_3095_82743_L_0									
86 D	20.79	8.0540E-04	78.00	104.0	326.9	166.2	UL-RL	2.3904E+04	-17.00	0.000	1.000	1.000
104.0	0.000	0.000	Strato2_3095_82743_L_0									
87 D	19.78	3.9907E-04	82.00	98.89	330.9	168.1	UL-RL	2.3904E+04	-17.20	0.000	1.000	1.000
98.89	0.000	0.000	Strato2_3095_82743_L_0									
88 D	18.76	-5.7675E-06	86.00	93.81	334.9	170.1	UL-RL	2.3904E+04	-17.40	0.000	1.000	1.000
93.81	0.000	0.000	Strato2_3095_82743_L_0									
89 D	17.74	-4.0971E-04	90.00	88.71	338.9	172.0	UL-RL	2.3904E+04	-17.60	0.000	1.000	1.000
88.71	0.000	0.000	Strato2_3095_82743_L_0									
90 D	16.72	-8.1321E-04	94.00	83.61	342.9	173.9	UL-RL	2.3904E+04	-17.80	0.000	1.000	1.000
83.61	0.000	0.000	Strato2_3095_82743_L_0									
91 D	7.848	-1.2166E-03	98.00	78.48	346.9	175.9	UL-RL	2.3904E+04	-18.00	0.000	1.000	1.000
78.48	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:00:07  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 7.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.4897	-1.4897	3.43013E-10	0.29793
2	4.3301	-4.3301	-0.29793	1.1639
3	8.2343	-8.2343	-1.1639	2.8108
4	12.045	-12.045	-2.8108	5.2197
5	16.413	-16.413	-5.2197	8.5024
6	20.682	-20.682	-8.5024	12.639
7	25.317	-25.317	-12.639	17.702
8	29.867	-29.867	-17.702	23.676
9	34.650	-34.650	-23.676	30.606
10	39.387	-39.387	-30.606	38.483
11	44.516	-44.516	-38.483	47.386
12	49.760	-49.760	-47.386	57.338
13	55.359	-55.359	-57.338	68.410
14	61.078	-61.078	-68.410	80.626
15	67.124	-67.124	-80.626	94.050
16	-144.61	144.61	-94.050	65.128
17	-138.16	138.16	-65.128	37.496
18	-131.58	131.58	-37.496	11.180
19	-124.71	124.71	-11.180	-13.763
20	-117.72	117.72	13.763	-37.308
21	-110.47	110.47	37.308	-59.401
22	-103.09	103.09	59.401	-80.019
23	-95.457	95.457	80.019	-99.110
24	-87.727	87.727	99.110	-116.66
25	-79.762	79.762	116.66	-132.61
26	-71.690	71.690	132.61	-146.95
27	-63.400	63.400	146.95	-159.63
28	-54.858	54.858	159.63	-170.60
29	-46.026	46.026	170.60	-179.80
30	-37.007	37.007	179.80	-187.20
31	-27.712	27.712	187.20	-192.75
32	-18.229	18.229	192.75	-196.39
33	-8.4619	8.4619	196.39	-198.08
34	1.4967	-1.4967	198.08	-197.78
35	11.735	-11.735	197.78	-195.44
36	22.167	-22.167	195.44	-191.00

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Progetto
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Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
489 di 1221

| Exe Time :29 July 2019 18:00:07 |
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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 . 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 7.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	277.99	-2.62486E-03	1.80280E-03	0.0000	6321.2	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| |
| NewProject.BaseDesignSection_28.SLERara_3454 |
| Exe Time :29 July 2019 18:00:07 |
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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	2
2	CONVERGENCE :YES	4
3	CONVERGENCE :YES	6
4	CONVERGENCE :YES	4
5	CONVERGENCE :YES	6
6	CONVERGENCE :YES	3
7	CONVERGENCE :YES	5

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME 0.09 [sec]
DATABASE CREATION CPU TIME..... 0.41 [sec]

2.5. Design Assumption : A1+M1+R1 - File di Paratie - File di input (.d)

* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: A1+M1+R1

* Time:lunedì 29 luglio 2019 18:00:08

* 1: Defining general settings

UNIT m kN

TITLE New Project

DELTA 0.2

option param itemax 100

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)

WALL LeftWall_32 0 -18 0 1

* 3: Defining surfaces for wall(s)

SOIL 0_L LeftWall_32 -18 0 1 0

SOIL 0_R LeftWall_32 -18 0 2 180

* 4: Defining soil layers

*

* Soil Profile (Strato1_2_8_L_0)

*

LDATA Strato1_2_8_L_0 0 LeftWall_32

ATREST 0.53 1 1

WEIGHT 19 9 10

PERMEABILITY 1E-06

RESISTANCE 0 29

YOUNG 2E+04 6E+04

ENDL

*

* Soil Profile (Strato2_3095_82743_L_0)

*

LDATA Strato2_3095_82743_L_0 -13.1 LeftWall_32

ATREST 0.5 0.5 1

WEIGHT 20 10 10

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 490 di 1221
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PERMEABILITY 0.0001
RESISTANCE 20 35
YOUNG 5E+04 1.5E+05
ENDL

* 5: Defining structural materials

* Steel material: 108 Name=Fe360 E=206000200 kPa
MATERIAL Fe360_108 2.06E+08
* Concrete material: 104 Name=C25/30 E=31475800 kPa
MATERIAL C2530_104 3.148E+07
* Rebar material: 124 Name=acciaio armonico E=200100000 kPa
MATERIAL acciaioarmonico_124 2.001E+08
* Concrete material: 103 Name=C20/25 E=29962000 kPa
MATERIAL C2025_103 2.996E+07

* 6: Defining structural elements

* 6.1: Beams and combined Wall Elements

BEAM WallElement_33 LeftWall_32 -18 0 C2530_104 0.6848 00 00 0

* 6.2: Supports

WIRE Tirantel_429 LeftWall_32 -3 acciaioarmonico_124 1.974E-05 140.9 15 0 0
WIRE Tirante2_1507 LeftWall_32 -9 acciaioarmonico_124 3.159E-05 250 15 0 0

* 6.3: Strips

STRIP LeftWall_32 2 7 0.325 39.68 0 49.4 45
STRIP LeftWall_32 2 7 0 40 0 11.54 30

* 7: Defining Steps

STEP Stage1_31
CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32
CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32
CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32
CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32
CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-COHE=20 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -26 0 -18 0 0
ADD WallElement_33
ENDSTEP

STEP Stage2_755438
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -26 0 -18 0 0
ENDSTEP

STEP Stage3_158
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -3.5
WATER -26 0 -18 0 0
ENDSTEP

STEP Stage4_617
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -3.5
WATER -26 0 -18 0 0

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 491 di 1221
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ADD Tirante1_429
ENDSTEP

STEP Stage5_714
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -9.5
WATER -26 0 -18 0 0
ENDSTEP

STEP Stage6_1682
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -9.5
WATER -26 0 -18 0 0
ADD Tirante2_1507
ENDSTEP

STEP Stage7_1779
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -13.1
WATER -26 0 -18 0 0
ENDSTEP

2.6. Design Assumption : A1+M1+R1 - File di Paratie - File di output (.out)

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019      18:00:08                             |
+-----+

```

```

*****
*                                                                 *
* PARATIE PLUS Non-Linear Spring Engine                       *
*                                                                 *
* AN ELASTOPLASTIC FINITE ELEMENT PROGRAM                   *
* FOR FLEXIBLE EARTH-RETAINING STRUCTURES                   *
*                                                                 *
* Written by Ce.A.S. s.r.l. (ITALY)                          *
* with the scientific supervision of                          *
* Roberto Nova - full professor SOIL MECHANICS              *
* at Politecnico di Milano (ITALY)                          *
*                                                                 *
*****
* RELEASE  2017.1      *Build date:Jul 11, 2017*  *          *
*                                                                 *
* Ce.A.S.    S.R.L  CENTRO DI ANALISI STRUTTURALE           *
*            VIALE  GIUSTINIANO 10                          *
*            20129  M I L A N O (ITALIA)                     *
* TEL.      +39 02 2020221  (+39 035 23 67 19)              *
* FAX       +39 02 29512533 (+39 035 42285 49)              *
* email    bruno.becci@ceas.it                               *
* Web Page www.ceas.it                                       *
*****

```

```

JOB : NewProject.BaseDesignSection_28.A1M1R1_3484
STARTING
ACCEPTED <FILE,GENW                                     >
ACCEPTED <FILE,PLOTTER,BINARY                           >
ACCEPTED <SOLVE TOTAL STRESS                             >
ACCEPTED <PARAM ITEM MAX 100                             >
ACCEPTED <CONTROL HINGES 0 0.0001 0.001                 >

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
492 di 1221

```

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

```

PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]

```

-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                    |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484 |
|                               Exe Time :29 July 2019    18:00:08 |
|                                                                    |
-----

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 91
NO. OF COORDINATES (NCOORD) ..... 2
NO. OF NODE DOFS (NDOF) ..... 2
NO. OF EQUATIONS (NEQ) ..... 182
NO. OF CONSTRAINTS CARDS (NVINC) ..... 0
NO. OF ELEMENT GROUPS (NEG) ..... 5
NO. OF SOLUTION STEPS (NSTE) ..... 7
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 109
NO. OF LONG NAMES (LASTNAME) ..... 26
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH ..... 1
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  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                    |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484 |
|                               Exe Time :29 July 2019    18:00:08 |
|                                                                    |
-----

```

PREPROCESSOR DATA

NO. OF COMMANDS 109

```

1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 100
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -18 0 1
7 : SOIL 0_L LeftWall_32 -18 0 1 0
8 : SOIL 0_R LeftWall_32 -18 0 2 180
9 : LDATA Stratol_2_8_L_0 0 LeftWall_32
10 : ATREST 0.53 1 1
11 : WEIGHT 19 9 10
12 : PERMEABILITY 1E-06
13 : RESISTANCE 0 29
14 : YOUNG 2E+04 6E+04

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
493 di 1221

15 : ENDL
16 : LDATA Strato2_3095_82743_L_0 -13.1 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 20 10 10
19 : PERMEABILITY 0.0001
20 : RESISTANCE 20 35
21 : YOUNG 5E+04 1.5E+05
22 : ENDL
23 : MATERIAL Fe360_108 2.06E+08
24 : MATERIAL C2530_104 3.148E+07
25 : MATERIAL acciaioarmonico_124 2.001E+08
26 : MATERIAL C2025_103 2.996E+07
27 : BEAM WallElement_33 LeftWall_32 -18 0 C2530_104 0.6848 00 00 0
28 : WIRE Tirante1_429 LeftWall_32 -3 acciaioarmonico_124 1.974E-05 140.9 15 0 0
29 : WIRE Tirante2_1507 LeftWall_32 -9 acciaioarmonico_124 3.159E-05 250 15 0 0
30 : STRIP LeftWall_32 2 7 0 0.325 39.68 0 49.4 45
31 : STRIP LeftWall_32 2 7 0 40 0 11.54 30
32 : STEP Stage1_31
33 : CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32
34 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
35 : CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32
36 : CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32
37 : CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32
38 : CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32
39 : CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32
40 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
41 : CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32
42 : CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32
43 : CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32
44 : CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32
45 : CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
46 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
47 : CHANGE Strato2_3095_82743_L_0 U-COHE=20 LeftWall_32
48 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
49 : SETWALL LeftWall_32
50 : GEOM 0 0
51 : WATER -26 0 -18 0 0
52 : ADD WallElement_33
53 : ENDSTEP
54 : STEP Stage2_755438
55 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
56 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
57 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
58 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
59 : SETWALL LeftWall_32
60 : GEOM 0 0
61 : WATER -26 0 -18 0 0
62 : ENDSTEP
63 : STEP Stage3_158
64 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
65 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
66 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
67 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
68 : SETWALL LeftWall_32
69 : GEOM 0 -3.5
70 : WATER -26 0 -18 0 0
71 : ENDSTEP
72 : STEP Stage4_617
73 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
74 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
75 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
76 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
77 : SETWALL LeftWall_32
78 : GEOM 0 -3.5
79 : WATER -26 0 -18 0 0
80 : ADD Tirante1_429
81 : ENDSTEP
82 : STEP Stage5_714
83 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
84 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
85 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
86 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
87 : SETWALL LeftWall_32
88 : GEOM 0 -9.5
89 : WATER -26 0 -18 0 0
90 : ENDSTEP
91 : STEP Stage6_1682
92 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
93 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
94 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
95 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
96 : SETWALL LeftWall_32
97 : GEOM 0 -9.5
98 : WATER -26 0 -18 0 0
99 : ADD Tirante2_1507



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 494 di 1221
---------	------------------	-------------	---	-----------	-----------------------

```

100 : ENDSTEP
101 : STEP Stage7_1779
102 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
103 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
104 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
105 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
106 : SETWALL LeftWall_32
107 : GEOM 0 -13.1
108 : WATER -26 0 -18 0 0
109 : ENDSTEP
    
```

```

-----
|                                     PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|                                     NewProject.BaseDesignSection_28.A1M1R1_3484
|                                     Exe Time :29 July 2019      18:00:08
|
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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 / NODE
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 -10.000 /	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 /		

```

-----
|                                     PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|                                     NewProject.BaseDesignSection_28.A1M1R1_3484
|                                     Exe Time :29 July 2019      18:00:08
|
-----
    
```

```

ELEMENT GROUP NO. 1
O_L :
5 91 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0
.....2D PLASTIC SOIL .....
.....
    
```

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	active
6	active
7	active

```

material set no. 1
prop( 1) angle 0.00000
prop( 2) layer as foreseen 1.00000
    
```

```

material set no. 2
    
```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 495 di 1221
---------	------------------	-------------	---	-----------	-----------------------

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

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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	0.2000	0.000	0.000	0.000	1.000
28	28	1	0.2000	0.000	0.000	0.000	1.000
29	29	1	0.2000	0.000	0.000	0.000	1.000
30	30	1	0.2000	0.000	0.000	0.000	1.000
31	31	1	0.2000	0.000	0.000	0.000	1.000
32	32	1	0.2000	0.000	0.000	0.000	1.000
33	33	1	0.2000	0.000	0.000	0.000	1.000
34	34	1	0.2000	0.000	0.000	0.000	1.000
35	35	1	0.2000	0.000	0.000	0.000	1.000
36	36	1	0.2000	0.000	0.000	0.000	1.000
37	37	1	0.2000	0.000	0.000	0.000	1.000
38	38	1	0.2000	0.000	0.000	0.000	1.000
39	39	1	0.2000	0.000	0.000	0.000	1.000
40	40	1	0.2000	0.000	0.000	0.000	1.000
41	41	1	0.2000	0.000	0.000	0.000	1.000
42	42	1	0.2000	0.000	0.000	0.000	1.000
43	43	1	0.2000	0.000	0.000	0.000	1.000
44	44	1	0.2000	0.000	0.000	0.000	1.000
45	45	1	0.2000	0.000	0.000	0.000	1.000
46	46	1	0.2000	0.000	0.000	0.000	1.000
47	47	1	0.2000	0.000	0.000	0.000	1.000
48	48	1	0.2000	0.000	0.000	0.000	1.000
49	49	1	0.2000	0.000	0.000	0.000	1.000
50	50	1	0.2000	0.000	0.000	0.000	1.000
51	51	1	0.2000	0.000	0.000	0.000	1.000
52	52	1	0.2000	0.000	0.000	0.000	1.000
53	53	1	0.2000	0.000	0.000	0.000	1.000
54	54	1	0.2000	0.000	0.000	0.000	1.000
55	55	1	0.2000	0.000	0.000	0.000	1.000
56	56	1	0.2000	0.000	0.000	0.000	1.000
57	57	1	0.2000	0.000	0.000	0.000	1.000
58	58	1	0.2000	0.000	0.000	0.000	1.000
59	59	1	0.2000	0.000	0.000	0.000	1.000
60	60	1	0.2000	0.000	0.000	0.000	1.000
61	61	1	0.2000	0.000	0.000	0.000	1.000
62	62	1	0.2000	0.000	0.000	0.000	1.000
63	63	1	0.2000	0.000	0.000	0.000	1.000
64	64	1	0.2000	0.000	0.000	0.000	1.000
65	65	1	0.2000	0.000	0.000	0.000	1.000
66	66	1	0.2000	0.000	0.000	0.000	1.000
67	67	2	0.2000	0.000	0.000	0.000	1.000
68	68	2	0.2000	0.000	0.000	0.000	1.000
69	69	2	0.2000	0.000	0.000	0.000	1.000
70	70	2	0.2000	0.000	0.000	0.000	1.000
71	71	2	0.2000	0.000	0.000	0.000	1.000
72	72	2	0.2000	0.000	0.000	0.000	1.000
73	73	2	0.2000	0.000	0.000	0.000	1.000
74	74	2	0.2000	0.000	0.000	0.000	1.000
75	75	2	0.2000	0.000	0.000	0.000	1.000
76	76	2	0.2000	0.000	0.000	0.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 496 di 1221
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77	77	2	0.2000	0.000	0.000	0.000	1.000
78	78	2	0.2000	0.000	0.000	0.000	1.000
79	79	2	0.2000	0.000	0.000	0.000	1.000
80	80	2	0.2000	0.000	0.000	0.000	1.000
81	81	2	0.2000	0.000	0.000	0.000	1.000
82	82	2	0.2000	0.000	0.000	0.000	1.000
83	83	2	0.2000	0.000	0.000	0.000	1.000
84	84	2	0.2000	0.000	0.000	0.000	1.000
85	85	2	0.2000	0.000	0.000	0.000	1.000
86	86	2	0.2000	0.000	0.000	0.000	1.000
87	87	2	0.2000	0.000	0.000	0.000	1.000
88	88	2	0.2000	0.000	0.000	0.000	1.000
89	89	2	0.2000	0.000	0.000	0.000	1.000
90	90	2	0.2000	0.000	0.000	0.000	1.000
91	91	2	0.1000	0.000	0.000	0.000	1.000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  18:00:08  |
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```

```

ELEMENT GROUP NO. 2

0_R      :
 5 91 0 1 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0

```

.....2D PLASTIC SOIL

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	active
6	active
7	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

```

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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 497 di 1221
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24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	0.2000	0.000	0.000	0.000	2.000
28	28	1	0.2000	0.000	0.000	0.000	2.000
29	29	1	0.2000	0.000	0.000	0.000	2.000
30	30	1	0.2000	0.000	0.000	0.000	2.000
31	31	1	0.2000	0.000	0.000	0.000	2.000
32	32	1	0.2000	0.000	0.000	0.000	2.000
33	33	1	0.2000	0.000	0.000	0.000	2.000
34	34	1	0.2000	0.000	0.000	0.000	2.000
35	35	1	0.2000	0.000	0.000	0.000	2.000
36	36	1	0.2000	0.000	0.000	0.000	2.000
37	37	1	0.2000	0.000	0.000	0.000	2.000
38	38	1	0.2000	0.000	0.000	0.000	2.000
39	39	1	0.2000	0.000	0.000	0.000	2.000
40	40	1	0.2000	0.000	0.000	0.000	2.000
41	41	1	0.2000	0.000	0.000	0.000	2.000
42	42	1	0.2000	0.000	0.000	0.000	2.000
43	43	1	0.2000	0.000	0.000	0.000	2.000
44	44	1	0.2000	0.000	0.000	0.000	2.000
45	45	1	0.2000	0.000	0.000	0.000	2.000
46	46	1	0.2000	0.000	0.000	0.000	2.000
47	47	1	0.2000	0.000	0.000	0.000	2.000
48	48	1	0.2000	0.000	0.000	0.000	2.000
49	49	1	0.2000	0.000	0.000	0.000	2.000
50	50	1	0.2000	0.000	0.000	0.000	2.000
51	51	1	0.2000	0.000	0.000	0.000	2.000
52	52	1	0.2000	0.000	0.000	0.000	2.000
53	53	1	0.2000	0.000	0.000	0.000	2.000
54	54	1	0.2000	0.000	0.000	0.000	2.000
55	55	1	0.2000	0.000	0.000	0.000	2.000
56	56	1	0.2000	0.000	0.000	0.000	2.000
57	57	1	0.2000	0.000	0.000	0.000	2.000
58	58	1	0.2000	0.000	0.000	0.000	2.000
59	59	1	0.2000	0.000	0.000	0.000	2.000
60	60	1	0.2000	0.000	0.000	0.000	2.000
61	61	1	0.2000	0.000	0.000	0.000	2.000
62	62	1	0.2000	0.000	0.000	0.000	2.000
63	63	1	0.2000	0.000	0.000	0.000	2.000
64	64	1	0.2000	0.000	0.000	0.000	2.000
65	65	1	0.2000	0.000	0.000	0.000	2.000
66	66	1	0.2000	0.000	0.000	0.000	2.000
67	67	2	0.2000	0.000	0.000	0.000	2.000
68	68	2	0.2000	0.000	0.000	0.000	2.000
69	69	2	0.2000	0.000	0.000	0.000	2.000
70	70	2	0.2000	0.000	0.000	0.000	2.000
71	71	2	0.2000	0.000	0.000	0.000	2.000
72	72	2	0.2000	0.000	0.000	0.000	2.000
73	73	2	0.2000	0.000	0.000	0.000	2.000
74	74	2	0.2000	0.000	0.000	0.000	2.000
75	75	2	0.2000	0.000	0.000	0.000	2.000
76	76	2	0.2000	0.000	0.000	0.000	2.000
77	77	2	0.2000	0.000	0.000	0.000	2.000
78	78	2	0.2000	0.000	0.000	0.000	2.000
79	79	2	0.2000	0.000	0.000	0.000	2.000
80	80	2	0.2000	0.000	0.000	0.000	2.000
81	81	2	0.2000	0.000	0.000	0.000	2.000
82	82	2	0.2000	0.000	0.000	0.000	2.000
83	83	2	0.2000	0.000	0.000	0.000	2.000
84	84	2	0.2000	0.000	0.000	0.000	2.000
85	85	2	0.2000	0.000	0.000	0.000	2.000
86	86	2	0.2000	0.000	0.000	0.000	2.000
87	87	2	0.2000	0.000	0.000	0.000	2.000
88	88	2	0.2000	0.000	0.000	0.000	2.000
89	89	2	0.2000	0.000	0.000	0.000	2.000
90	90	2	0.2000	0.000	0.000	0.000	2.000
91	91	2	0.1000	0.000	0.000	0.000	2.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          18:00:08          |
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```

ELEMENT GROUP NO.  3

WallElement_33      :
  2  90  0  1  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  1  0
.....2D WALL ELEMENT.....
.....

```



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 498 di 1221
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element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	active
6	active
7	active

material set no. 1

prop(1) young modulus	0.314800E+08
prop(2) modification time	0.00000
prop(3) new young modulus	0.00000
prop(4) poisson ratio	0.00000
prop(5) future	0.308300E-43

no. of step variable items: 1
step inertia multiplier

step	inertia multiplier
1	1.000
2	1.000
3	1.000
4	1.000
5	1.000
6	1.000
7	1.000

element data

el	na	nb	mat	erc1	erc2	thick	by-i	by-j
1	1	2	1	0.000	0.000	0.6848	0.000	0.000
2	2	3	1	0.000	0.000	0.6848	0.000	0.000
3	3	4	1	0.000	0.000	0.6848	0.000	0.000
4	4	5	1	0.000	0.000	0.6848	0.000	0.000
5	5	6	1	0.000	0.000	0.6848	0.000	0.000
6	6	7	1	0.000	0.000	0.6848	0.000	0.000
7	7	8	1	0.000	0.000	0.6848	0.000	0.000
8	8	9	1	0.000	0.000	0.6848	0.000	0.000
9	9	10	1	0.000	0.000	0.6848	0.000	0.000
10	10	11	1	0.000	0.000	0.6848	0.000	0.000
11	11	12	1	0.000	0.000	0.6848	0.000	0.000
12	12	13	1	0.000	0.000	0.6848	0.000	0.000
13	13	14	1	0.000	0.000	0.6848	0.000	0.000
14	14	15	1	0.000	0.000	0.6848	0.000	0.000
15	15	16	1	0.000	0.000	0.6848	0.000	0.000
16	16	17	1	0.000	0.000	0.6848	0.000	0.000
17	17	18	1	0.000	0.000	0.6848	0.000	0.000
18	18	19	1	0.000	0.000	0.6848	0.000	0.000
19	19	20	1	0.000	0.000	0.6848	0.000	0.000
20	20	21	1	0.000	0.000	0.6848	0.000	0.000
21	21	22	1	0.000	0.000	0.6848	0.000	0.000
22	22	23	1	0.000	0.000	0.6848	0.000	0.000
23	23	24	1	0.000	0.000	0.6848	0.000	0.000
24	24	25	1	0.000	0.000	0.6848	0.000	0.000
25	25	26	1	0.000	0.000	0.6848	0.000	0.000
26	26	27	1	0.000	0.000	0.6848	0.000	0.000
27	27	28	1	0.000	0.000	0.6848	0.000	0.000
28	28	29	1	0.000	0.000	0.6848	0.000	0.000
29	29	30	1	0.000	0.000	0.6848	0.000	0.000
30	30	31	1	0.000	0.000	0.6848	0.000	0.000
31	31	32	1	0.000	0.000	0.6848	0.000	0.000
32	32	33	1	0.000	0.000	0.6848	0.000	0.000
33	33	34	1	0.000	0.000	0.6848	0.000	0.000
34	34	35	1	0.000	0.000	0.6848	0.000	0.000
35	35	36	1	0.000	0.000	0.6848	0.000	0.000
36	36	37	1	0.000	0.000	0.6848	0.000	0.000
37	37	38	1	0.000	0.000	0.6848	0.000	0.000
38	38	39	1	0.000	0.000	0.6848	0.000	0.000
39	39	40	1	0.000	0.000	0.6848	0.000	0.000
40	40	41	1	0.000	0.000	0.6848	0.000	0.000
41	41	42	1	0.000	0.000	0.6848	0.000	0.000
42	42	43	1	0.000	0.000	0.6848	0.000	0.000
43	43	44	1	0.000	0.000	0.6848	0.000	0.000
44	44	45	1	0.000	0.000	0.6848	0.000	0.000
45	45	46	1	0.000	0.000	0.6848	0.000	0.000
46	46	47	1	0.000	0.000	0.6848	0.000	0.000
47	47	48	1	0.000	0.000	0.6848	0.000	0.000
48	48	49	1	0.000	0.000	0.6848	0.000	0.000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 499 di 1221
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49	49	50	1	0.000	0.000	0.6848	0.000	0.000
50	50	51	1	0.000	0.000	0.6848	0.000	0.000
51	51	52	1	0.000	0.000	0.6848	0.000	0.000
52	52	53	1	0.000	0.000	0.6848	0.000	0.000
53	53	54	1	0.000	0.000	0.6848	0.000	0.000
54	54	55	1	0.000	0.000	0.6848	0.000	0.000
55	55	56	1	0.000	0.000	0.6848	0.000	0.000
56	56	57	1	0.000	0.000	0.6848	0.000	0.000
57	57	58	1	0.000	0.000	0.6848	0.000	0.000
58	58	59	1	0.000	0.000	0.6848	0.000	0.000
59	59	60	1	0.000	0.000	0.6848	0.000	0.000
60	60	61	1	0.000	0.000	0.6848	0.000	0.000
61	61	62	1	0.000	0.000	0.6848	0.000	0.000
62	62	63	1	0.000	0.000	0.6848	0.000	0.000
63	63	64	1	0.000	0.000	0.6848	0.000	0.000
64	64	65	1	0.000	0.000	0.6848	0.000	0.000
65	65	66	1	0.000	0.000	0.6848	0.000	0.000
66	66	67	1	0.000	0.000	0.6848	0.000	0.000
67	67	68	1	0.000	0.000	0.6848	0.000	0.000
68	68	69	1	0.000	0.000	0.6848	0.000	0.000
69	69	70	1	0.000	0.000	0.6848	0.000	0.000
70	70	71	1	0.000	0.000	0.6848	0.000	0.000
71	71	72	1	0.000	0.000	0.6848	0.000	0.000
72	72	73	1	0.000	0.000	0.6848	0.000	0.000
73	73	74	1	0.000	0.000	0.6848	0.000	0.000
74	74	75	1	0.000	0.000	0.6848	0.000	0.000
75	75	76	1	0.000	0.000	0.6848	0.000	0.000
76	76	77	1	0.000	0.000	0.6848	0.000	0.000
77	77	78	1	0.000	0.000	0.6848	0.000	0.000
78	78	79	1	0.000	0.000	0.6848	0.000	0.000
79	79	80	1	0.000	0.000	0.6848	0.000	0.000
80	80	81	1	0.000	0.000	0.6848	0.000	0.000
81	81	82	1	0.000	0.000	0.6848	0.000	0.000
82	82	83	1	0.000	0.000	0.6848	0.000	0.000
83	83	84	1	0.000	0.000	0.6848	0.000	0.000
84	84	85	1	0.000	0.000	0.6848	0.000	0.000
85	85	86	1	0.000	0.000	0.6848	0.000	0.000
86	86	87	1	0.000	0.000	0.6848	0.000	0.000
87	87	88	1	0.000	0.000	0.6848	0.000	0.000
88	88	89	1	0.000	0.000	0.6848	0.000	0.000
89	89	90	1	0.000	0.000	0.6848	0.000	0.000
90	90	91	1	0.000	0.000	0.6848	0.000	0.000

```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019      18:00:08                             |
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```

```

ELEMENT GROUP NO.  4

Tirantel_429
6 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0

```

```

.....
.....2D POST-TENSION ANCHOR....
.....

```

element group behaviour throughout stage analysis

stage	status
1	inactive
2	inactive
3	inactive
4	active
5	active
6	active
7	active

```

material set no.  1

prop( 1) angle      15.0000
prop( 2) young modulus 0.200100E+09
prop( 3) modification time 0.00000
prop( 4) new young modulus 0.00000

```

no. of step variable items: 2

step	-ve lim	+ve lim
1	0.000	0.000
2	0.000	0.000
3	0.000	0.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 500 di 1221
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4 0.000 0.000
 5 0.000 0.000
 6 0.000 0.000
 7 0.000 0.000

element data

el	n	mat	a/l	pinit	yieldc	yieldt
1	16	1	0.1974E-04	140.9	0.000	0.000

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1M1R1_3484
|          Exe Time :29 July 2019      18:00:08
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ELEMENT GROUP NO. 5

Tirante2_1507 :

6 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0

.....2D POST-TENSION ANCHOR.....

element group behaviour throughout stage analysis

stage	status
1	inactive
2	inactive
3	inactive
4	inactive
5	inactive
6	active
7	active

material set no. 1

prop(1) angle 15.0000
 prop(2) young modulus 0.200100E+09
 prop(3) modification time 0.00000
 prop(4) new young modulus 0.00000

no. of step variable items: 2

step	-ve lim	+ve lim
1	0.000	0.000
2	0.000	0.000
3	0.000	0.000
4	0.000	0.000
5	0.000	0.000
6	0.000	0.000
7	0.000	0.000

element data

el	n	mat	a/l	pinit	yieldc	yieldt
1	46	1	0.3159E-04	250.0	0.000	0.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1M1R1_3484
|          Exe Time :29 July 2019      18:00:08
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NO. OF NODAL LOADS (NLOAD) 0
 NO. OF LOAD CURVES (NLCUR) 14
 MAXIMUM POINTS/LCURVE (NPTM)..... 5

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
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GENERAL CONTRACTOR



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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
501 di 1221

| NewProject.BaseDesignSection_28.A1M1R1_3484 |
| Exe Time :29 July 2019 18:00:08 |
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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
8.00000	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
8.00000	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
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
4.20000	0.0000E+00
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
5.20000	0.0000E+00
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
6.20000	0.0000E+00
8.00000	0.0000E+00

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
502 di 1221

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
6.80000	0.0000E+00
7.00000	0.1000E+01
7.20000	0.0000E+00
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 11
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 12
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 13
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
8.00000	0.1000E+01

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 503 di 1221
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LOAD FUNCTION NUMBER = 14
 NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
6.80000	0.0000E+00
7.00000	0.1000E+01
8.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      18:00:08        |
+-----+

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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
STEP	4	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	4	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	6	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	6	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	7	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	7	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      18:00:08        |
+-----+

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NO. OF LAYERS 2
 NO. OF DATA PER LAYER..... 100

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      18:00:08        |
+-----+

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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	>= 18.000	(BOTH WALLS)
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)
ITEM NO.	3<LEVEL	>= 0.0000	(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)

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 504 di 1221
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ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 505 di 1221
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ITEM NO. 9<U-FRICT >= 35.0000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.235000 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.500000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 0.500000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.235000 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 19.000 (BOTH WALLS)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 506 di 1221
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ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.0000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 29.0000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.0000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.0000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.0000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.0000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.0000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.0000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.0000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.0000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 5

ITEM NO. 1<NAME >= 18.0000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 19.0000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 9.0000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.0000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 29.0000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.0000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 5

ITEM NO. 1<NAME >= 19.0000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.0000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.0000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.0000 (BOTH WALLS)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 507 di 1221
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ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 6

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 6

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 6

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 7

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 7

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 508 di 1221
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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 >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 7

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 14 VALUES

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
509 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  18:00:08  |
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PHASE DESCRIPTORS

STEP NO.	1	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30	
Z-PC	0.000	0.000	
Z-EXCAVATION	0.000	0.000	
Z-WATER_TABLE	-26.00	-0.9990E+30	
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000	
ZQ	0.000	0.000	
DZW_OF_THE_WATER_TABLE	0.000	0.000	
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000	
ZQS	-0.9990E+30	-0.9990E+30	
ZCUT	0.000	0.000	
BALANCE LEVEL FOR PORE PRESSURES	-18.00	-18.00	
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	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30	
Z-PC	0.000	0.000	
Z-EXCAVATION	0.000	0.000	
Z-WATER_TABLE	-26.00	-0.9990E+30	
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000	
ZQ	0.000	0.000	
DZW_OF_THE_WATER_TABLE	0.000	0.000	
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000	
ZQS	-0.9990E+30	-0.9990E+30	
ZCUT	0.000	0.000	
BALANCE LEVEL FOR PORE PRESSURES	-18.00	-18.00	
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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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
510 di 1221

=====end of step 2

STEP NO.	3	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-3.500	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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

STEP NO.	4	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-3.500	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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 4

STEP NO.	5	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-9.500	0.000

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 511 di 1221
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Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-18.00	-18.00
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 5

STEP NO.	6		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-9.500	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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 6

STEP NO.	7		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-13.10	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
WATER_BEHAVIOUR_FLAG (LINING OPT)		0.000	0.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 512 di 1221
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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 7

LEFT-HAND WALL

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LOWER LEVEL      -18.00000
UPPER LEVEL      0.00000
    
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RIGHT-HAND WALL

```

LOWER LEVEL      -18.00000
UPPER LEVEL      0.00000
    
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                     |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      18:00:08  |
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INITIAL STRESS TABLES

SECTION

NUMBER OF DEFINED TABLES 2

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

ACTIVATION TIME 2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 7.0000

TYPE BOUSSINESQ

```

HORIZONTAL DISTANCE (DY)      0.3250000000000000
FOUNDATION WIDTH (B)         39.6800000000000000
ZETA-F.....                 0.0000000000000000E+000
Q-F .....                    49.4000000000000000
BETA .....                   45.0000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.0000000000000000E+000
    
```

INPUT DATA FOR INITIAL STRESS SET NO. 2
PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

ACTIVATION TIME 2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 7.0000

TYPE BOUSSINESQ

```

HORIZONTAL DISTANCE (DY)      0.0000000000000000E+000
FOUNDATION WIDTH (B)         40.0000000000000000
ZETA-F.....                 0.0000000000000000E+000
Q-F .....                    11.5400000000000000
BETA .....                   30.0000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.0000000000000000E+000
    
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
513 di 1221

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION 4903

NO. OF D.P.W FOR THIS AREA 10857
MAX NO. OF D.P.W. AVAILABLE 81920
** MAX NO OF ITERATIONS SET TO 100

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7368E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 34.29 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7368E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 182 NODE 91 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7368E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 34.29 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7368E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 182 NODE 91 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7368E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 34.29 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7368E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 182 NODE 91 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| | |
| NewProject.BaseDesignSection_28.A1M1R1_3484 |
Exe Time :29 July 2019 18:00:08

New Project
SOLUTION REACHED USING 2 ITERATIONS ON 100
PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)
Y-DISPL.F X-ROT. F
(02) (04) (

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| | |
| NewProject.BaseDesignSection_28.A1M1R1_3484 |
Exe Time :29 July 2019 18:00:08

New Project
STRESS RESULTS FOR GROUP NO. 1
O_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 1.0000
HARDENING 2D SOIL ELEMENT

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 515 di 1221						
40 D	15.71	0.000	148.2 78.55	148.2	78.55	V-C	1.4147E+04	-7.800	0.000	1.000	1.000
78.55	0.000	0.000	Strato1_2_8_L_0								
41 D	16.11	0.000	152.0 80.56	152.0	80.56	V-C	1.4147E+04	-8.000	0.000	1.000	1.000
80.56	0.000	0.000	Strato1_2_8_L_0								
42 D	16.51	0.000	155.8 82.57	155.8	82.57	V-C	1.4147E+04	-8.200	0.000	1.000	1.000
82.57	0.000	0.000	Strato1_2_8_L_0								
43 D	16.92	0.000	159.6 84.59	159.6	84.59	V-C	1.4147E+04	-8.400	0.000	1.000	1.000
84.59	0.000	0.000	Strato1_2_8_L_0								
44 D	17.32	0.000	163.4 86.60	163.4	86.60	V-C	1.4147E+04	-8.600	0.000	1.000	1.000
86.60	0.000	0.000	Strato1_2_8_L_0								
45 D	17.72	0.000	167.2 88.62	167.2	88.62	V-C	1.4147E+04	-8.800	0.000	1.000	1.000
88.62	0.000	0.000	Strato1_2_8_L_0								
46 D	18.13	0.000	171.0 90.63	171.0	90.63	V-C	1.4147E+04	-9.000	0.000	1.000	1.000
90.63	0.000	0.000	Strato1_2_8_L_0								
47 D	18.53	0.000	174.8 92.64	174.8	92.64	V-C	1.4147E+04	-9.200	0.000	1.000	1.000
92.64	0.000	0.000	Strato1_2_8_L_0								
48 D	18.93	0.000	178.6 94.66	178.6	94.66	V-C	1.4147E+04	-9.400	0.000	1.000	1.000
94.66	0.000	0.000	Strato1_2_8_L_0								
49 D	19.33	0.000	182.4 96.67	182.4	96.67	V-C	1.4147E+04	-9.600	0.000	1.000	1.000
96.67	0.000	0.000	Strato1_2_8_L_0								
50 D	19.74	0.000	186.2 98.69	186.2	98.69	V-C	1.4147E+04	-9.800	0.000	1.000	1.000
98.69	0.000	0.000	Strato1_2_8_L_0								
51 D	20.14	0.000	190.0 100.7	190.0	100.7	V-C	1.4147E+04	-10.00	0.000	1.000	1.000
100.7	0.000	0.000	Strato1_2_8_L_0								
52 D	20.54	0.000	193.8 102.7	193.8	102.7	V-C	1.4147E+04	-10.20	0.000	1.000	1.000
102.7	0.000	0.000	Strato1_2_8_L_0								
53 D	20.95	0.000	197.6 104.7	197.6	104.7	V-C	1.4147E+04	-10.40	0.000	1.000	1.000
104.7	0.000	0.000	Strato1_2_8_L_0								
54 D	21.35	0.000	201.4 106.7	201.4	106.7	V-C	1.4147E+04	-10.60	0.000	1.000	1.000
106.7	0.000	0.000	Strato1_2_8_L_0								
55 D	21.75	0.000	205.2 108.8	205.2	108.8	V-C	1.4147E+04	-10.80	0.000	1.000	1.000
108.8	0.000	0.000	Strato1_2_8_L_0								
56 D	22.15	0.000	209.0 110.8	209.0	110.8	V-C	1.4147E+04	-11.00	0.000	1.000	1.000
110.8	0.000	0.000	Strato1_2_8_L_0								
57 D	22.56	0.000	212.8 112.8	212.8	112.8	V-C	1.4147E+04	-11.20	0.000	1.000	1.000
112.8	0.000	0.000	Strato1_2_8_L_0								
58 D	22.96	0.000	216.6 114.8	216.6	114.8	V-C	1.4147E+04	-11.40	0.000	1.000	1.000
114.8	0.000	0.000	Strato1_2_8_L_0								
59 D	23.36	0.000	220.4 116.8	220.4	116.8	V-C	1.4147E+04	-11.60	0.000	1.000	1.000
116.8	0.000	0.000	Strato1_2_8_L_0								
60 D	23.77	0.000	224.2 118.8	224.2	118.8	V-C	1.4147E+04	-11.80	0.000	1.000	1.000
118.8	0.000	0.000	Strato1_2_8_L_0								
61 D	24.17	0.000	228.0 120.8	228.0	120.8	V-C	1.4147E+04	-12.00	0.000	1.000	1.000
120.8	0.000	0.000	Strato1_2_8_L_0								
62 D	24.57	0.000	231.8 122.9	231.8	122.9	V-C	1.4147E+04	-12.20	0.000	1.000	1.000
122.9	0.000	0.000	Strato1_2_8_L_0								
63 D	24.97	0.000	235.6 124.9	235.6	124.9	V-C	1.4147E+04	-12.40	0.000	1.000	1.000
124.9	0.000	0.000	Strato1_2_8_L_0								
64 D	25.38	0.000	239.4 126.9	239.4	126.9	V-C	1.4147E+04	-12.60	0.000	1.000	1.000
126.9	0.000	0.000	Strato1_2_8_L_0								
65 D	25.78	0.000	243.2 128.9	243.2	128.9	V-C	1.4147E+04	-12.80	0.000	1.000	1.000
128.9	0.000	0.000	Strato1_2_8_L_0								
66 D	26.18	0.000	247.0 130.9	247.0	130.9	V-C	1.4147E+04	-13.00	0.000	1.000	1.000
130.9	0.000	0.000	Strato1_2_8_L_0								
67 D	25.09	0.000	250.9 125.5	250.9	125.5	V-C	4.0020E+04	-13.20	0.000	1.000	1.000
125.5	0.000	0.000	Strato2_3095_82743_L_0								
68 D	25.49	0.000	254.9 127.5	254.9	127.5	V-C	4.0020E+04	-13.40	0.000	1.000	1.000
127.5	0.000	0.000	Strato2_3095_82743_L_0								
69 D	25.89	0.000	258.9 129.4	258.9	129.4	V-C	4.0020E+04	-13.60	0.000	1.000	1.000
129.4	0.000	0.000	Strato2_3095_82743_L_0								
70 D	26.29	0.000	262.9 131.5	262.9	131.5	V-C	4.0020E+04	-13.80	0.000	1.000	1.000
131.5	0.000	0.000	Strato2_3095_82743_L_0								
71 D	26.69	0.000	266.9 133.5	266.9	133.5	V-C	4.0020E+04	-14.00	0.000	1.000	1.000
133.5	0.000	0.000	Strato2_3095_82743_L_0								
72 D	27.09	0.000	270.9 135.4	270.9	135.4	V-C	4.0020E+04	-14.20	0.000	1.000	1.000
135.4	0.000	0.000	Strato2_3095_82743_L_0								
73 D	27.49	0.000	274.9 137.4	274.9	137.4	V-C	4.0020E+04	-14.40	0.000	1.000	1.000
137.4	0.000	0.000	Strato2_3095_82743_L_0								
74 D	27.89	0.000	278.9 139.4	278.9	139.4	V-C	4.0020E+04	-14.60	0.000	1.000	1.000
139.4	0.000	0.000	Strato2_3095_82743_L_0								
75 D	28.29	0.000	282.9 141.4	282.9	141.4	V-C	4.0020E+04	-14.80	0.000	1.000	1.000
141.4	0.000	0.000	Strato2_3095_82743_L_0								
76 D	28.69	0.000	286.9 143.4	286.9	143.4	V-C	4.0020E+04	-15.00	0.000	1.000	1.000
143.4	0.000	0.000	Strato2_3095_82743_L_0								
77 D	29.09	0.000	290.9 145.4	290.9	145.4	V-C	4.0020E+04	-15.20	0.000	1.000	1.000
145.4	0.000	0.000	Strato2_3095_82743_L_0								
78 D	29.49	0.000	294.9 147.4	294.9	147.4	V-C	4.0020E+04	-15.40	0.000	1.000	1.000
147.4	0.000	0.000	Strato2_3095_82743_L_0								
79 D	29.89	0.000	298.9 149.4	298.9	149.4	V-C	4.0020E+04	-15.60	0.000	1.000	1.000
149.4	0.000	0.000	Strato2_3095_82743_L_0								
80 D	30.29	0.000	302.9 151.4	302.9	151.4	V-C	4.0020E+04	-15.80	0.000	1.000	1.000
151.4	0.000	0.000	Strato2_3095_82743_L_0								
81 D	30.69	0.000	306.9 153.4	306.9	153.4	V-C	4.0020E+04	-16.00	0.000	1.000	1.000
153.4	0.000	0.000	Strato2_3095_82743_L_0								
82 D	31.09	0.000	310.9 155.4	310.9	155.4	V-C	4.0020E+04	-16.20	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 516 di 1221
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155.4	0.000	0.000	Strato2_3095_82743_L_0									
83 D	31.49	0.000	314.9	157.4	314.9	157.4	V-C	4.0020E+04	-16.40	0.000	1.000	1.000
157.4	0.000	0.000	Strato2_3095_82743_L_0									
84 D	31.89	0.000	318.9	159.4	318.9	159.4	V-C	4.0020E+04	-16.60	0.000	1.000	1.000
159.4	0.000	0.000	Strato2_3095_82743_L_0									
85 D	32.29	0.000	322.9	161.5	322.9	161.5	V-C	4.0020E+04	-16.80	0.000	1.000	1.000
161.5	0.000	0.000	Strato2_3095_82743_L_0									
86 D	32.69	0.000	326.9	163.4	326.9	163.4	V-C	4.0020E+04	-17.00	0.000	1.000	1.000
163.4	0.000	0.000	Strato2_3095_82743_L_0									
87 D	33.09	0.000	330.9	165.4	330.9	165.4	V-C	4.0020E+04	-17.20	0.000	1.000	1.000
165.4	0.000	0.000	Strato2_3095_82743_L_0									
88 D	33.49	0.000	334.9	167.4	334.9	167.4	V-C	4.0020E+04	-17.40	0.000	1.000	1.000
167.4	0.000	0.000	Strato2_3095_82743_L_0									
89 D	33.89	0.000	338.9	169.5	338.9	169.5	V-C	4.0020E+04	-17.60	0.000	1.000	1.000
169.5	0.000	0.000	Strato2_3095_82743_L_0									
90 D	34.29	0.000	342.9	171.5	342.9	171.5	V-C	4.0020E+04	-17.80	0.000	1.000	1.000
171.5	0.000	0.000	Strato2_3095_82743_L_0									
91 D	17.34	0.000	346.9	173.4	346.9	173.4	V-C	4.0020E+04	-18.00	0.000	1.000	1.000
173.4	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.AlMIRl_3484                       |
|                               Exe Time :29 July 2019      18:00:08                             |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 1.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	9817.	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_2_8_L_0									
2 D	0.4028	0.000	3.800	2.014	3.800	2.014	V-C	9817.	-0.2000	0.000	1.000	1.000
2.014	0.000	0.000	Strato1_2_8_L_0									
3 D	0.8056	0.000	7.600	4.028	7.600	4.028	V-C	9817.	-0.4000	0.000	1.000	1.000
4.028	0.000	0.000	Strato1_2_8_L_0									
4 D	1.208	0.000	11.40	6.042	11.40	6.042	V-C	9817.	-0.6000	0.000	1.000	1.000
6.042	0.000	0.000	Strato1_2_8_L_0									
5 D	1.611	0.000	15.20	8.056	15.20	8.056	V-C	9817.	-0.8000	0.000	1.000	1.000
8.056	0.000	0.000	Strato1_2_8_L_0									
6 D	2.014	0.000	19.00	10.07	19.00	10.07	V-C	9817.	-1.000	0.000	1.000	1.000
10.07	0.000	0.000	Strato1_2_8_L_0									
7 D	2.417	0.000	22.80	12.08	22.80	12.08	V-C	9817.	-1.200	0.000	1.000	1.000
12.08	0.000	0.000	Strato1_2_8_L_0									
8 D	2.820	0.000	26.60	14.10	26.60	14.10	V-C	9817.	-1.400	0.000	1.000	1.000
14.10	0.000	0.000	Strato1_2_8_L_0									
9 D	3.222	0.000	30.40	16.11	30.40	16.11	V-C	9817.	-1.600	0.000	1.000	1.000
16.11	0.000	0.000	Strato1_2_8_L_0									
10 D	3.625	0.000	34.20	18.13	34.20	18.13	V-C	9817.	-1.800	0.000	1.000	1.000
18.13	0.000	0.000	Strato1_2_8_L_0									
11 D	4.028	0.000	38.00	20.14	38.00	20.14	V-C	9817.	-2.000	0.000	1.000	1.000
20.14	0.000	0.000	Strato1_2_8_L_0									
12 D	4.431	0.000	41.80	22.15	41.80	22.15	V-C	9817.	-2.200	0.000	1.000	1.000
22.15	0.000	0.000	Strato1_2_8_L_0									
13 D	4.834	0.000	45.60	24.17	45.60	24.17	V-C	9817.	-2.400	0.000	1.000	1.000
24.17	0.000	0.000	Strato1_2_8_L_0									
14 D	5.236	0.000	49.40	26.18	49.40	26.18	V-C	9817.	-2.600	0.000	1.000	1.000
26.18	0.000	0.000	Strato1_2_8_L_0									
15 D	5.639	0.000	53.20	28.20	53.20	28.20	V-C	9817.	-2.800	0.000	1.000	1.000
28.20	0.000	0.000	Strato1_2_8_L_0									
16 D	6.042	0.000	57.00	30.21	57.00	30.21	V-C	9817.	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Strato1_2_8_L_0									
17 D	6.445	0.000	60.80	32.22	60.80	32.22	V-C	9817.	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Strato1_2_8_L_0									
18 D	6.848	0.000	64.60	34.24	64.60	34.24	V-C	9817.	-3.400	0.000	1.000	1.000
34.24	0.000	0.000	Strato1_2_8_L_0									
19 D	7.250	0.000	68.40	36.25	68.40	36.25	V-C	9817.	-3.600	0.000	1.000	1.000
36.25	0.000	0.000	Strato1_2_8_L_0									
20 D	7.653	0.000	72.20	38.27	72.20	38.27	V-C	9817.	-3.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 517 di 1221				
38.27	0.000	0.000	Strato1_2_8_L_0								
21 D	8.056	0.000	76.00 40.28	76.00	40.28	V-C	9817.	-4.000	0.000	1.000	1.000
40.28	0.000	0.000	Strato1_2_8_L_0								
22 D	8.459	0.000	79.80 42.29	79.80	42.29	V-C	9817.	-4.200	0.000	1.000	1.000
42.29	0.000	0.000	Strato1_2_8_L_0								
23 D	8.862	0.000	83.60 44.31	83.60	44.31	V-C	9817.	-4.400	0.000	1.000	1.000
44.31	0.000	0.000	Strato1_2_8_L_0								
24 D	9.264	0.000	87.40 46.32	87.40	46.32	V-C	9817.	-4.600	0.000	1.000	1.000
46.32	0.000	0.000	Strato1_2_8_L_0								
25 D	9.667	0.000	91.20 48.34	91.20	48.34	V-C	9817.	-4.800	0.000	1.000	1.000
48.34	0.000	0.000	Strato1_2_8_L_0								
26 D	10.07	0.000	95.00 50.35	95.00	50.35	V-C	9817.	-5.000	0.000	1.000	1.000
50.35	0.000	0.000	Strato1_2_8_L_0								
27 D	10.47	0.000	98.80 52.36	98.80	52.36	V-C	9817.	-5.200	0.000	1.000	1.000
52.36	0.000	0.000	Strato1_2_8_L_0								
28 D	10.88	0.000	102.6 54.38	102.6	54.38	V-C	9817.	-5.400	0.000	1.000	1.000
54.38	0.000	0.000	Strato1_2_8_L_0								
29 D	11.28	0.000	106.4 56.39	106.4	56.39	V-C	9817.	-5.600	0.000	1.000	1.000
56.39	0.000	0.000	Strato1_2_8_L_0								
30 D	11.68	0.000	110.2 58.41	110.2	58.41	V-C	9817.	-5.800	0.000	1.000	1.000
58.41	0.000	0.000	Strato1_2_8_L_0								
31 D	12.08	0.000	114.0 60.42	114.0	60.42	V-C	9817.	-6.000	0.000	1.000	1.000
60.42	0.000	0.000	Strato1_2_8_L_0								
32 D	12.49	0.000	117.8 62.43	117.8	62.43	V-C	9817.	-6.200	0.000	1.000	1.000
62.43	0.000	0.000	Strato1_2_8_L_0								
33 D	12.89	0.000	121.6 64.45	121.6	64.45	V-C	9817.	-6.400	0.000	1.000	1.000
64.45	0.000	0.000	Strato1_2_8_L_0								
34 D	13.29	0.000	125.4 66.46	125.4	66.46	V-C	9817.	-6.600	0.000	1.000	1.000
66.46	0.000	0.000	Strato1_2_8_L_0								
35 D	13.70	0.000	129.2 68.48	129.2	68.48	V-C	9817.	-6.800	0.000	1.000	1.000
68.48	0.000	0.000	Strato1_2_8_L_0								
36 D	14.10	0.000	133.0 70.49	133.0	70.49	V-C	9817.	-7.000	0.000	1.000	1.000
70.49	0.000	0.000	Strato1_2_8_L_0								
37 D	14.50	0.000	136.8 72.50	136.8	72.50	V-C	9817.	-7.200	0.000	1.000	1.000
72.50	0.000	0.000	Strato1_2_8_L_0								
38 D	14.90	0.000	140.6 74.52	140.6	74.52	V-C	9817.	-7.400	0.000	1.000	1.000
74.52	0.000	0.000	Strato1_2_8_L_0								
39 D	15.31	0.000	144.4 76.53	144.4	76.53	V-C	9817.	-7.600	0.000	1.000	1.000
76.53	0.000	0.000	Strato1_2_8_L_0								
40 D	15.71	0.000	148.2 78.55	148.2	78.55	V-C	9817.	-7.800	0.000	1.000	1.000
78.55	0.000	0.000	Strato1_2_8_L_0								
41 D	16.11	0.000	152.0 80.56	152.0	80.56	V-C	9817.	-8.000	0.000	1.000	1.000
80.56	0.000	0.000	Strato1_2_8_L_0								
42 D	16.51	0.000	155.8 82.57	155.8	82.57	V-C	9817.	-8.200	0.000	1.000	1.000
82.57	0.000	0.000	Strato1_2_8_L_0								
43 D	16.92	0.000	159.6 84.59	159.6	84.59	V-C	9817.	-8.400	0.000	1.000	1.000
84.59	0.000	0.000	Strato1_2_8_L_0								
44 D	17.32	0.000	163.4 86.60	163.4	86.60	V-C	9817.	-8.600	0.000	1.000	1.000
86.60	0.000	0.000	Strato1_2_8_L_0								
45 D	17.72	0.000	167.2 88.62	167.2	88.62	V-C	9817.	-8.800	0.000	1.000	1.000
88.62	0.000	0.000	Strato1_2_8_L_0								
46 D	18.13	0.000	171.0 90.63	171.0	90.63	V-C	9817.	-9.000	0.000	1.000	1.000
90.63	0.000	0.000	Strato1_2_8_L_0								
47 D	18.53	0.000	174.8 92.64	174.8	92.64	V-C	9817.	-9.200	0.000	1.000	1.000
92.64	0.000	0.000	Strato1_2_8_L_0								
48 D	18.93	0.000	178.6 94.66	178.6	94.66	V-C	9817.	-9.400	0.000	1.000	1.000
94.66	0.000	0.000	Strato1_2_8_L_0								
49 D	19.33	0.000	182.4 96.67	182.4	96.67	V-C	9817.	-9.600	0.000	1.000	1.000
96.67	0.000	0.000	Strato1_2_8_L_0								
50 D	19.74	0.000	186.2 98.69	186.2	98.69	V-C	9817.	-9.800	0.000	1.000	1.000
98.69	0.000	0.000	Strato1_2_8_L_0								
51 D	20.14	0.000	190.0 100.7	190.0	100.7	V-C	9817.	-10.00	0.000	1.000	1.000
100.7	0.000	0.000	Strato1_2_8_L_0								
52 D	20.54	0.000	193.8 102.7	193.8	102.7	V-C	9817.	-10.20	0.000	1.000	1.000
102.7	0.000	0.000	Strato1_2_8_L_0								
53 D	20.95	0.000	197.6 104.7	197.6	104.7	V-C	9817.	-10.40	0.000	1.000	1.000
104.7	0.000	0.000	Strato1_2_8_L_0								
54 D	21.35	0.000	201.4 106.7	201.4	106.7	V-C	9817.	-10.60	0.000	1.000	1.000
106.7	0.000	0.000	Strato1_2_8_L_0								
55 D	21.75	0.000	205.2 108.8	205.2	108.8	V-C	9817.	-10.80	0.000	1.000	1.000
108.8	0.000	0.000	Strato1_2_8_L_0								
56 D	22.15	0.000	209.0 110.8	209.0	110.8	V-C	9817.	-11.00	0.000	1.000	1.000
110.8	0.000	0.000	Strato1_2_8_L_0								
57 D	22.56	0.000	212.8 112.8	212.8	112.8	V-C	9817.	-11.20	0.000	1.000	1.000
112.8	0.000	0.000	Strato1_2_8_L_0								
58 D	22.96	0.000	216.6 114.8	216.6	114.8	V-C	9817.	-11.40	0.000	1.000	1.000
114.8	0.000	0.000	Strato1_2_8_L_0								
59 D	23.36	0.000	220.4 116.8	220.4	116.8	V-C	9817.	-11.60	0.000	1.000	1.000
116.8	0.000	0.000	Strato1_2_8_L_0								
60 D	23.77	0.000	224.2 118.8	224.2	118.8	V-C	9817.	-11.80	0.000	1.000	1.000
118.8	0.000	0.000	Strato1_2_8_L_0								
61 D	24.17	0.000	228.0 120.8	228.0	120.8	V-C	9817.	-12.00	0.000	1.000	1.000
120.8	0.000	0.000	Strato1_2_8_L_0								
62 D	24.57	0.000	231.8 122.9	231.8	122.9	V-C	9817.	-12.20	0.000	1.000	1.000
122.9	0.000	0.000	Strato1_2_8_L_0								

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 518 di 1221							
63 D	24.97	0.000	235.6	124.9	235.6	124.9	V-C	9817.	-12.40	0.000	1.000	1.000
124.9	0.000	0.000	Strato1_2_8_L_0									
64 D	25.38	0.000	239.4	126.9	239.4	126.9	V-C	9817.	-12.60	0.000	1.000	1.000
126.9	0.000	0.000	Strato1_2_8_L_0									
65 D	25.78	0.000	243.2	128.9	243.2	128.9	V-C	9817.	-12.80	0.000	1.000	1.000
128.9	0.000	0.000	Strato1_2_8_L_0									
66 D	26.18	0.000	247.0	130.9	247.0	130.9	V-C	9817.	-13.00	0.000	1.000	1.000
130.9	0.000	0.000	Strato1_2_8_L_0									
67 D	25.09	0.000	250.9	125.5	250.9	125.5	V-C	2.1690E+04	-13.20	0.000	1.000	1.000
125.5	0.000	0.000	Strato2_3095_82743_L_0									
68 D	25.49	0.000	254.9	127.5	254.9	127.5	V-C	2.1690E+04	-13.40	0.000	1.000	1.000
127.5	0.000	0.000	Strato2_3095_82743_L_0									
69 D	25.89	0.000	258.9	129.4	258.9	129.4	V-C	2.1690E+04	-13.60	0.000	1.000	1.000
129.4	0.000	0.000	Strato2_3095_82743_L_0									
70 D	26.29	0.000	262.9	131.5	262.9	131.5	V-C	2.1690E+04	-13.80	0.000	1.000	1.000
131.5	0.000	0.000	Strato2_3095_82743_L_0									
71 D	26.69	0.000	266.9	133.5	266.9	133.5	V-C	2.1690E+04	-14.00	0.000	1.000	1.000
133.5	0.000	0.000	Strato2_3095_82743_L_0									
72 D	27.09	0.000	270.9	135.4	270.9	135.4	V-C	2.1690E+04	-14.20	0.000	1.000	1.000
135.4	0.000	0.000	Strato2_3095_82743_L_0									
73 D	27.49	0.000	274.9	137.4	274.9	137.4	V-C	2.1690E+04	-14.40	0.000	1.000	1.000
137.4	0.000	0.000	Strato2_3095_82743_L_0									
74 D	27.89	0.000	278.9	139.4	278.9	139.4	V-C	2.1690E+04	-14.60	0.000	1.000	1.000
139.4	0.000	0.000	Strato2_3095_82743_L_0									
75 D	28.29	0.000	282.9	141.4	282.9	141.4	V-C	2.1690E+04	-14.80	0.000	1.000	1.000
141.4	0.000	0.000	Strato2_3095_82743_L_0									
76 D	28.69	0.000	286.9	143.4	286.9	143.4	V-C	2.1690E+04	-15.00	0.000	1.000	1.000
143.4	0.000	0.000	Strato2_3095_82743_L_0									
77 D	29.09	0.000	290.9	145.4	290.9	145.4	V-C	2.1690E+04	-15.20	0.000	1.000	1.000
145.4	0.000	0.000	Strato2_3095_82743_L_0									
78 D	29.49	0.000	294.9	147.4	294.9	147.4	V-C	2.1690E+04	-15.40	0.000	1.000	1.000
147.4	0.000	0.000	Strato2_3095_82743_L_0									
79 D	29.89	0.000	298.9	149.4	298.9	149.4	V-C	2.1690E+04	-15.60	0.000	1.000	1.000
149.4	0.000	0.000	Strato2_3095_82743_L_0									
80 D	30.29	0.000	302.9	151.4	302.9	151.4	V-C	2.1690E+04	-15.80	0.000	1.000	1.000
151.4	0.000	0.000	Strato2_3095_82743_L_0									
81 D	30.69	0.000	306.9	153.4	306.9	153.4	V-C	2.1690E+04	-16.00	0.000	1.000	1.000
153.4	0.000	0.000	Strato2_3095_82743_L_0									
82 D	31.09	0.000	310.9	155.4	310.9	155.4	V-C	2.1690E+04	-16.20	0.000	1.000	1.000
155.4	0.000	0.000	Strato2_3095_82743_L_0									
83 D	31.49	0.000	314.9	157.4	314.9	157.4	V-C	2.1690E+04	-16.40	0.000	1.000	1.000
157.4	0.000	0.000	Strato2_3095_82743_L_0									
84 D	31.89	0.000	318.9	159.4	318.9	159.4	V-C	2.1690E+04	-16.60	0.000	1.000	1.000
159.4	0.000	0.000	Strato2_3095_82743_L_0									
85 D	32.29	0.000	322.9	161.5	322.9	161.5	V-C	2.1690E+04	-16.80	0.000	1.000	1.000
161.5	0.000	0.000	Strato2_3095_82743_L_0									
86 D	32.69	0.000	326.9	163.4	326.9	163.4	V-C	2.1690E+04	-17.00	0.000	1.000	1.000
163.4	0.000	0.000	Strato2_3095_82743_L_0									
87 D	33.09	0.000	330.9	165.4	330.9	165.4	V-C	2.1690E+04	-17.20	0.000	1.000	1.000
165.4	0.000	0.000	Strato2_3095_82743_L_0									
88 D	33.49	0.000	334.9	167.4	334.9	167.4	V-C	2.1690E+04	-17.40	0.000	1.000	1.000
167.4	0.000	0.000	Strato2_3095_82743_L_0									
89 D	33.89	0.000	338.9	169.5	338.9	169.5	V-C	2.1690E+04	-17.60	0.000	1.000	1.000
169.5	0.000	0.000	Strato2_3095_82743_L_0									
90 D	34.29	0.000	342.9	171.5	342.9	171.5	V-C	2.1690E+04	-17.80	0.000	1.000	1.000
171.5	0.000	0.000	Strato2_3095_82743_L_0									
91 D	17.34	0.000	346.9	173.4	346.9	173.4	V-C	2.1690E+04	-18.00	0.000	1.000	1.000
173.4	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1M1R1_3484                                                                                       |
|          Exe Time :29 July 2019  18:00:08                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 519 di 1221
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5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000
31	0.0000	0.0000	0.0000	0.0000
32	0.0000	0.0000	0.0000	0.0000
33	0.0000	0.0000	0.0000	0.0000
34	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000
36	0.0000	0.0000	0.0000	0.0000
37	0.0000	0.0000	0.0000	0.0000
38	0.0000	0.0000	0.0000	0.0000
39	0.0000	0.0000	0.0000	0.0000
40	0.0000	0.0000	0.0000	0.0000
41	0.0000	0.0000	0.0000	0.0000
42	0.0000	0.0000	0.0000	0.0000
43	0.0000	0.0000	0.0000	0.0000
44	0.0000	0.0000	0.0000	0.0000
45	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000
47	0.0000	0.0000	0.0000	0.0000
48	0.0000	0.0000	0.0000	0.0000
49	0.0000	0.0000	0.0000	0.0000
50	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	0.0000	0.0000
52	0.0000	0.0000	0.0000	0.0000
53	0.0000	0.0000	0.0000	0.0000
54	0.0000	0.0000	0.0000	0.0000
55	0.0000	0.0000	0.0000	0.0000
56	0.0000	0.0000	0.0000	0.0000
57	0.0000	0.0000	0.0000	0.0000
58	0.0000	0.0000	0.0000	0.0000
59	0.0000	0.0000	0.0000	0.0000
60	0.0000	0.0000	0.0000	0.0000
61	0.0000	0.0000	0.0000	0.0000
62	0.0000	0.0000	0.0000	0.0000
63	0.0000	0.0000	0.0000	0.0000
64	0.0000	0.0000	0.0000	0.0000
65	0.0000	0.0000	0.0000	0.0000
66	0.0000	0.0000	0.0000	0.0000
67	0.0000	0.0000	0.0000	0.0000
68	0.0000	0.0000	0.0000	0.0000
69	0.0000	0.0000	0.0000	0.0000
70	0.0000	0.0000	0.0000	0.0000
71	0.0000	0.0000	0.0000	0.0000
72	0.0000	0.0000	0.0000	0.0000
73	0.0000	0.0000	0.0000	0.0000
74	0.0000	0.0000	0.0000	0.0000
75	0.0000	0.0000	0.0000	0.0000
76	0.0000	0.0000	0.0000	0.0000
77	0.0000	0.0000	0.0000	0.0000
78	0.0000	0.0000	0.0000	0.0000
79	0.0000	0.0000	0.0000	0.0000
80	0.0000	0.0000	0.0000	0.0000
81	0.0000	0.0000	0.0000	0.0000
82	0.0000	0.0000	0.0000	0.0000
83	0.0000	0.0000	0.0000	0.0000
84	0.0000	0.0000	0.0000	0.0000
85	0.0000	0.0000	0.0000	0.0000
86	0.0000	0.0000	0.0000	0.0000
87	0.0000	0.0000	0.0000	0.0000
88	0.0000	0.0000	0.0000	0.0000
89	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 520 di 1221
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90 0.0000 0.0000 0.0000 0.0000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  18:00:08  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

CURRENT TIME IS 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  18:00:08  |
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

CURRENT TIME IS 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER 0 RNORM = 0.000  RMNORM= 0.000
RINORM=0.8842E+05 RIMNOR= 0.000
RENORM= 1484.  REMNOR= 0.000  RATIO =0.1296  TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 38.45  RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.8842E+05 RDR = 0.000
RATIOT=0.1296  RATIOR= 0.000
MAX UN= 4.354  IEQ= 129 NODE 65 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=0.8842E+05 RIMNOR= 0.000
RENORM= 5.382  REMNOR=0.5150E-20 RATIO =0.7802E-02 TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 38.45  RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.8842E+05 RDR = 0.000
RATIOT=0.7802E-02 RATIOR= 0.000
MAX UN= 1.728  IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
MIN UN=-.2243E-09 IEQ= 73 NODE 37 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 3 RNORM = 0.000  RMNORM= 0.000
RINORM=0.8842E+05 RIMNOR= 0.000
RENORM=0.4300  REMNOR=0.6602E-21 RATIO =0.2205E-02 TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 38.45  RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.8842E+05 RDR = 0.000
RATIOT=0.2205E-02 RATIOR= 0.000
MAX UN=0.5648  IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
MIN UN=-.9791E-10 IEQ= 43 NODE 22 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
521 di 1221

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ITER      4  RNORM = 0.000      RMNORM= 0.000
           RINORM=0.8842E+05 RIMNOR= 0.000
           RENORM=0.1097E-04 REMNOR=0.4454E-21 RATIO =0.1114E-04 TOLER =0.1000E-03      CONVERGED !
           RFMAX = 38.45      RMMAX = 0.000
           RTSMAL=0.1000E-03 RMSMAL= 0.000
           RDT  =0.8842E+05 RDR  = 0.000
           RATIO=0.1114E-04 RATIO= 0.000
           MAX UN=0.3124E-02 IEQ= 53 NODE      27 DOF      1 Y-DISPL.F
           MIN UN=-.1117E-09 IEQ= 7 NODE      4 DOF      1 Y-DISPL.F
           NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1Rl_3484  |
|          Exe Time :29 July 2019      18:00:08  |
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New Project
SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.9074387E-04	5.8319835E-07	
2	3.9086107E-04	5.9152681E-07	
3	3.9098088E-04	6.0553159E-07	
4	3.9110356E-04	6.2363345E-07	
5	3.9123136E-04	6.5740291E-07	
6	3.9136840E-04	7.1938923E-07	
7	3.9152189E-04	8.2294239E-07	
8	3.9170098E-04	9.7762914E-07	
9	3.9191676E-04	1.1895978E-06	
10	3.9218060E-04	1.4582906E-06	
11	3.9250340E-04	1.7769283E-06	
12	3.9289389E-04	2.1333416E-06	
13	3.9335826E-04	2.5125829E-06	
14	3.9389960E-04	2.9018594E-06	
15	3.9451899E-04	3.2908860E-06	
16	3.9521535E-04	3.6708476E-06	
17	3.9598618E-04	4.0336125E-06	
18	3.9682710E-04	4.3710367E-06	
19	3.9773246E-04	4.6763400E-06	
20	3.9869510E-04	4.9435048E-06	
21	3.9970698E-04	5.1674661E-06	
22	4.0075890E-04	5.3436406E-06	
23	4.0184099E-04	5.4680952E-06	
24	4.0294244E-04	5.5371724E-06	
25	4.0405190E-04	5.5469349E-06	
26	4.0515696E-04	5.4928956E-06	
27	4.0624452E-04	5.3709008E-06	
28	4.0730051E-04	5.1768125E-06	
29	4.0831018E-04	4.9067730E-06	
30	4.0925791E-04	4.5571915E-06	
31	4.1012754E-04	4.1248528E-06	
32	4.1090210E-04	3.6061863E-06	
33	4.1156401E-04	2.9973965E-06	
34	4.1209481E-04	2.2948970E-06	
35	4.1247550E-04	1.4954372E-06	
36	4.1268632E-04	5.9599448E-07	
37	4.1270706E-04	-4.0606335E-07	
38	4.1251690E-04	-1.5130436E-06	
39	4.1209472E-04	-2.7267697E-06	
40	4.1141896E-04	-4.0490192E-06	
41	4.1046778E-04	-5.4813650E-06	
42	4.0921901E-04	-7.0246653E-06	
43	4.0765052E-04	-8.6788968E-06	
44	4.0574013E-04	-1.0443089E-05	
45	4.0346610E-04	-1.2315104E-05	
46	4.0080706E-04	-1.4291629E-05	
47	3.9774273E-04	-1.6368059E-05	
48	3.9425356E-04	-1.8538697E-05	
49	3.9032150E-04	-2.0795916E-05	
50	3.8593008E-04	-2.3130096E-05	
51	3.8106512E-04	-2.5529297E-05	
52	3.7571496E-04	-2.7979144E-05	
53	3.6987121E-04	-3.0462482E-05	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 523 di 1221							
11 D	4.567	-3.9250E-04	74.52	22.84	74.52	39.49	UL-RL	4.2442E+04	-2.000	0.000	1.000	1.000
22.84	0.000	0.000	Stratol_2_8_L_0									
12 D	4.804	-3.9289E-04	76.79	24.02	76.79	40.70	UL-RL	4.2442E+04	-2.200	0.000	1.000	1.000
24.02	0.000	0.000	Stratol_2_8_L_0									
13 D	5.465	-3.9336E-04	83.06	27.33	83.06	44.02	UL-RL	4.2442E+04	-2.400	0.000	1.000	1.000
27.33	0.000	0.000	Stratol_2_8_L_0									
14 D	5.717	-3.9390E-04	85.48	28.59	85.48	45.31	UL-RL	4.2442E+04	-2.600	0.000	1.000	1.000
28.59	0.000	0.000	Stratol_2_8_L_0									
15 D	6.335	-3.9452E-04	91.36	31.67	91.36	48.42	UL-RL	4.2442E+04	-2.800	0.000	1.000	1.000
31.67	0.000	0.000	Stratol_2_8_L_0									
16 D	6.554	-3.9522E-04	93.48	32.77	93.48	49.55	UL-RL	4.2442E+04	-3.000	0.000	1.000	1.000
32.77	0.000	0.000	Stratol_2_8_L_0									
17 D	7.143	-3.9599E-04	99.09	35.71	99.09	52.52	UL-RL	4.2442E+04	-3.200	0.000	1.000	1.000
35.71	0.000	0.000	Stratol_2_8_L_0									
18 D	7.421	-3.9683E-04	101.8	37.10	101.8	53.95	UL-RL	4.2442E+04	-3.400	0.000	1.000	1.000
37.10	0.000	0.000	Stratol_2_8_L_0									
19 D	7.984	-3.9773E-04	107.2	39.92	107.2	56.80	UL-RL	4.2442E+04	-3.600	0.000	1.000	1.000
39.92	0.000	0.000	Stratol_2_8_L_0									
20 D	8.270	-3.9870E-04	109.9	41.35	109.9	58.27	UL-RL	4.2442E+04	-3.800	0.000	1.000	1.000
41.35	0.000	0.000	Stratol_2_8_L_0									
21 D	8.814	-3.9971E-04	115.2	44.07	115.2	61.03	UL-RL	4.2442E+04	-4.000	0.000	1.000	1.000
44.07	0.000	0.000	Stratol_2_8_L_0									
22 D	9.107	-4.0076E-04	118.0	45.54	118.0	62.54	UL-RL	4.2442E+04	-4.200	0.000	1.000	1.000
45.54	0.000	0.000	Stratol_2_8_L_0									
23 D	9.635	-4.0184E-04	123.1	48.18	123.1	65.23	UL-RL	4.2442E+04	-4.400	0.000	1.000	1.000
48.18	0.000	0.000	Stratol_2_8_L_0									
24 D	9.905	-4.0294E-04	125.7	49.53	125.7	66.63	UL-RL	4.2442E+04	-4.600	0.000	1.000	1.000
49.53	0.000	0.000	Stratol_2_8_L_0									
25 D	10.42	-4.0405E-04	130.7	52.11	130.7	69.26	UL-RL	4.2442E+04	-4.800	0.000	1.000	1.000
52.11	0.000	0.000	Stratol_2_8_L_0									
26 D	10.73	-4.0516E-04	133.7	53.65	133.7	70.84	UL-RL	4.2442E+04	-5.000	0.000	1.000	1.000
53.65	0.000	0.000	Stratol_2_8_L_0									
27 D	11.24	-4.0624E-04	138.5	56.18	138.5	73.42	UL-RL	4.2442E+04	-5.200	0.000	1.000	1.000
56.18	0.000	0.000	Stratol_2_8_L_0									
28 D	11.55	-4.0730E-04	141.6	57.74	141.6	75.03	UL-RL	4.2442E+04	-5.400	0.000	1.000	1.000
57.74	0.000	0.000	Stratol_2_8_L_0									
29 D	12.05	-4.0831E-04	146.3	60.23	146.3	77.56	UL-RL	4.2442E+04	-5.600	0.000	1.000	1.000
60.23	0.000	0.000	Stratol_2_8_L_0									
30 D	12.37	-4.0926E-04	149.4	61.83	149.4	79.20	UL-RL	4.2442E+04	-5.800	0.000	1.000	1.000
61.83	0.000	0.000	Stratol_2_8_L_0									
31 D	12.83	-4.1013E-04	153.9	64.17	153.9	81.58	UL-RL	4.2442E+04	-6.000	0.000	1.000	1.000
64.17	0.000	0.000	Stratol_2_8_L_0									
32 D	13.16	-4.1090E-04	157.0	65.79	157.0	83.23	UL-RL	4.2442E+04	-6.200	0.000	1.000	1.000
65.79	0.000	0.000	Stratol_2_8_L_0									
33 D	13.65	-4.1156E-04	161.7	68.23	161.7	85.70	UL-RL	4.2442E+04	-6.400	0.000	1.000	1.000
68.23	0.000	0.000	Stratol_2_8_L_0									
34 D	13.98	-4.1209E-04	164.9	69.88	164.9	87.37	UL-RL	4.2442E+04	-6.600	0.000	1.000	1.000
69.88	0.000	0.000	Stratol_2_8_L_0									
35 D	14.46	-4.1248E-04	169.5	72.31	169.5	89.81	UL-RL	4.2442E+04	-6.800	0.000	1.000	1.000
72.31	0.000	0.000	Stratol_2_8_L_0									
36 D	14.80	-4.1269E-04	172.6	73.99	172.6	91.50	UL-RL	4.2442E+04	-7.000	0.000	1.000	1.000
73.99	0.000	0.000	Stratol_2_8_L_0									
37 D	15.28	-4.1271E-04	177.2	76.40	177.2	93.92	UL-RL	4.2442E+04	-7.200	0.000	1.000	1.000
76.40	0.000	0.000	Stratol_2_8_L_0									
38 D	15.62	-4.1252E-04	180.4	78.11	180.4	95.62	UL-RL	4.2442E+04	-7.400	0.000	1.000	1.000
78.11	0.000	0.000	Stratol_2_8_L_0									
39 D	16.09	-4.1209E-04	184.8	80.43	184.8	97.92	UL-RL	4.2442E+04	-7.600	0.000	1.000	1.000
80.43	0.000	0.000	Stratol_2_8_L_0									
40 D	16.44	-4.1142E-04	188.0	82.18	188.0	99.64	UL-RL	4.2442E+04	-7.800	0.000	1.000	1.000
82.18	0.000	0.000	Stratol_2_8_L_0									
41 D	16.92	-4.1047E-04	192.5	84.59	192.5	102.0	UL-RL	4.2442E+04	-8.000	0.000	1.000	1.000
84.59	0.000	0.000	Stratol_2_8_L_0									
42 D	17.28	-4.0922E-04	195.8	86.38	195.8	103.7	UL-RL	4.2442E+04	-8.200	0.000	1.000	1.000
86.38	0.000	0.000	Stratol_2_8_L_0									
43 D	17.76	-4.0765E-04	200.2	88.80	200.2	106.1	UL-RL	4.2442E+04	-8.400	0.000	1.000	1.000
88.80	0.000	0.000	Stratol_2_8_L_0									
44 D	18.13	-4.0574E-04	203.5	90.63	203.5	107.8	UL-RL	4.2442E+04	-8.600	0.000	1.000	1.000
90.63	0.000	0.000	Stratol_2_8_L_0									
45 D	18.61	-4.0347E-04	207.9	93.06	207.9	110.2	UL-RL	4.2442E+04	-8.800	0.000	1.000	1.000
93.06	0.000	0.000	Stratol_2_8_L_0									
46 D	18.97	-4.0081E-04	211.1	94.85	211.1	111.9	UL-RL	4.2442E+04	-9.000	0.000	1.000	1.000
94.85	0.000	0.000	Stratol_2_8_L_0									
47 D	19.46	-3.9774E-04	215.4	97.31	215.4	114.2	UL-RL	4.2442E+04	-9.200	0.000	1.000	1.000
97.31	0.000	0.000	Stratol_2_8_L_0									
48 D	19.84	-3.9425E-04	218.8	99.22	218.8	116.0	UL-RL	4.2442E+04	-9.400	0.000	1.000	1.000
99.22	0.000	0.000	Stratol_2_8_L_0									
49 D	20.34	-3.9032E-04	223.1	101.7	223.1	118.3	UL-RL	4.2442E+04	-9.600	0.000	1.000	1.000
101.7	0.000	0.000	Stratol_2_8_L_0									
50 D	20.73	-3.8593E-04	226.5	103.7	226.5	120.0	UL-RL	4.2442E+04	-9.800	0.000	1.000	1.000
103.7	0.000	0.000	Stratol_2_8_L_0									
51 D	21.23	-3.8107E-04	230.8	106.2	230.8	122.3	UL-RL	4.2442E+04	-10.00	0.000	1.000	1.000
106.2	0.000	0.000	Stratol_2_8_L_0									
52 D	21.64	-3.7571E-04	234.2	108.2	234.2	124.1	UL-RL	4.2442E+04	-10.20	0.000	1.000	1.000
108.2	0.000	0.000	Stratol_2_8_L_0									
53 D	22.14	-3.6987E-04	238.5	110.7	238.5	126.4	UL-RL	4.2442E+04	-10.40	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.						Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 524 di 1221
110.7	0.000	0.000	Strato1_2_8_L_0							
54 D	22.54	-3.6353E-04	241.8	112.7	241.8	128.1	UL-RL 4.2442E+04	-10.60	0.000	1.000
112.7	0.000	0.000	Strato1_2_8_L_0							
55 D	23.05	-3.5669E-04	246.1	115.3	246.1	130.4	UL-RL 4.2442E+04	-10.80	0.000	1.000
115.3	0.000	0.000	Strato1_2_8_L_0							
56 D	23.48	-3.4935E-04	249.5	117.4	249.5	132.2	UL-RL 4.2442E+04	-11.00	0.000	1.000
117.4	0.000	0.000	Strato1_2_8_L_0							
57 D	24.00	-3.4153E-04	253.7	120.0	253.7	134.5	UL-RL 4.2442E+04	-11.20	0.000	1.000
120.0	0.000	0.000	Strato1_2_8_L_0							
58 D	24.43	-3.3325E-04	257.1	122.1	257.1	136.3	UL-RL 4.2442E+04	-11.40	0.000	1.000
122.1	0.000	0.000	Strato1_2_8_L_0							
59 D	24.95	-3.2451E-04	261.4	124.8	261.4	138.5	UL-RL 4.2442E+04	-11.60	0.000	1.000
124.8	0.000	0.000	Strato1_2_8_L_0							
60 D	25.39	-3.1537E-04	264.8	127.0	264.8	140.4	UL-RL 4.2442E+04	-11.80	0.000	1.000
127.0	0.000	0.000	Strato1_2_8_L_0							
61 D	25.91	-3.0585E-04	269.0	129.6	269.0	142.5	UL-RL 4.2442E+04	-12.00	0.000	1.000
129.6	0.000	0.000	Strato1_2_8_L_0							
62 D	26.36	-2.9601E-04	272.4	131.8	272.4	144.4	UL-RL 4.2442E+04	-12.20	0.000	1.000
131.8	0.000	0.000	Strato1_2_8_L_0							
63 D	26.89	-2.8591E-04	276.6	134.5	276.6	146.6	UL-RL 4.2442E+04	-12.40	0.000	1.000
134.5	0.000	0.000	Strato1_2_8_L_0							
64 D	27.35	-2.7562E-04	280.1	136.7	280.1	148.4	UL-RL 4.2442E+04	-12.60	0.000	1.000
136.7	0.000	0.000	Strato1_2_8_L_0							
65 D	27.88	-2.6523E-04	284.3	139.4	284.3	150.7	UL-RL 4.2442E+04	-12.80	0.000	1.000
139.4	0.000	0.000	Strato1_2_8_L_0							
66 D	28.34	-2.5483E-04	287.7	141.7	287.7	152.5	UL-RL 4.2442E+04	-13.00	0.000	1.000
141.7	0.000	0.000	Strato1_2_8_L_0							
67 D	23.33	-2.4454E-04	292.0	116.7	292.0	146.0	UL-RL 1.2006E+05	-13.20	0.000	1.000
116.7	0.000	0.000	Strato2_3095_82743_L_0							
68 D	23.94	-2.3449E-04	295.7	119.7	295.7	147.8	UL-RL 1.2006E+05	-13.40	0.000	1.000
119.7	0.000	0.000	Strato2_3095_82743_L_0							
69 D	24.60	-2.2477E-04	300.0	123.0	300.0	150.0	UL-RL 1.2006E+05	-13.60	0.000	1.000
123.0	0.000	0.000	Strato2_3095_82743_L_0							
70 D	25.19	-2.1546E-04	303.7	126.0	303.7	151.8	UL-RL 1.2006E+05	-13.80	0.000	1.000
126.0	0.000	0.000	Strato2_3095_82743_L_0							
71 D	25.84	-2.0663E-04	308.0	129.2	308.0	154.0	UL-RL 1.2006E+05	-14.00	0.000	1.000
129.2	0.000	0.000	Strato2_3095_82743_L_0							
72 D	26.41	-1.9830E-04	311.7	132.1	311.7	155.9	UL-RL 1.2006E+05	-14.20	0.000	1.000
132.1	0.000	0.000	Strato2_3095_82743_L_0							
73 D	27.03	-1.9051E-04	316.1	135.2	316.1	158.0	UL-RL 1.2006E+05	-14.40	0.000	1.000
135.2	0.000	0.000	Strato2_3095_82743_L_0							
74 D	27.58	-1.8326E-04	319.8	137.9	319.8	159.9	UL-RL 1.2006E+05	-14.60	0.000	1.000
137.9	0.000	0.000	Strato2_3095_82743_L_0							
75 D	28.17	-1.7654E-04	324.1	140.9	324.1	162.1	UL-RL 1.2006E+05	-14.80	0.000	1.000
140.9	0.000	0.000	Strato2_3095_82743_L_0							
76 D	28.68	-1.7034E-04	327.7	143.4	327.7	163.9	UL-RL 1.2006E+05	-15.00	0.000	1.000
143.4	0.000	0.000	Strato2_3095_82743_L_0							
77 D	29.26	-1.6463E-04	332.1	146.3	332.1	166.0	UL-RL 1.2006E+05	-15.20	0.000	1.000
146.3	0.000	0.000	Strato2_3095_82743_L_0							
78 D	29.75	-1.5938E-04	335.8	148.8	335.8	167.9	UL-RL 1.2006E+05	-15.40	0.000	1.000
148.8	0.000	0.000	Strato2_3095_82743_L_0							
79 D	30.30	-1.5455E-04	340.1	151.5	340.1	170.1	UL-RL 1.2006E+05	-15.60	0.000	1.000
151.5	0.000	0.000	Strato2_3095_82743_L_0							
80 D	30.78	-1.5011E-04	343.8	153.9	343.8	171.9	UL-RL 1.2006E+05	-15.80	0.000	1.000
153.9	0.000	0.000	Strato2_3095_82743_L_0							
81 D	31.31	-1.4601E-04	348.2	156.6	348.2	174.1	UL-RL 1.2006E+05	-16.00	0.000	1.000
156.6	0.000	0.000	Strato2_3095_82743_L_0							
82 D	31.83	-1.4221E-04	352.5	159.2	352.5	176.2	UL-RL 1.2006E+05	-16.20	0.000	1.000
159.2	0.000	0.000	Strato2_3095_82743_L_0							
83 D	32.29	-1.3866E-04	356.2	161.5	356.2	178.1	UL-RL 1.2006E+05	-16.40	0.000	1.000
161.5	0.000	0.000	Strato2_3095_82743_L_0							
84 D	32.80	-1.3531E-04	360.4	164.0	360.4	180.2	UL-RL 1.2006E+05	-16.60	0.000	1.000
164.0	0.000	0.000	Strato2_3095_82743_L_0							
85 D	33.24	-1.3213E-04	364.2	166.2	364.2	182.1	UL-RL 1.2006E+05	-16.80	0.000	1.000
166.2	0.000	0.000	Strato2_3095_82743_L_0							
86 D	33.75	-1.2908E-04	368.5	168.7	368.5	184.2	UL-RL 1.2006E+05	-17.00	0.000	1.000
168.7	0.000	0.000	Strato2_3095_82743_L_0							
87 D	34.19	-1.2612E-04	372.2	171.0	372.2	186.1	UL-RL 1.2006E+05	-17.20	0.000	1.000
171.0	0.000	0.000	Strato2_3095_82743_L_0							
88 D	34.69	-1.2322E-04	376.5	173.5	376.5	188.3	UL-RL 1.2006E+05	-17.40	0.000	1.000
173.5	0.000	0.000	Strato2_3095_82743_L_0							
89 D	35.13	-1.2036E-04	380.2	175.7	380.2	190.1	UL-RL 1.2006E+05	-17.60	0.000	1.000
175.7	0.000	0.000	Strato2_3095_82743_L_0							
90 D	35.63	-1.1751E-04	384.5	178.2	384.5	192.3	UL-RL 1.2006E+05	-17.80	0.000	1.000
178.2	0.000	0.000	Strato2_3095_82743_L_0							
91 D	18.03	-1.1467E-04	388.2	180.3	388.2	194.1	UL-RL 1.2006E+05	-18.00	0.000	1.000
180.3	0.000	0.000	Strato2_3095_82743_L_0							

GENERAL CONTRACTOR

Cepav due



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GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 526 di 1221							
34 D	14.08	4.1209E-04	125.4	70.41	125.4	70.56	UL-RL	2.9452E+04	-6.600	0.000	1.000	1.000
70.41	0.000	0.000	Strato1_2_8_L_0									
35 D	14.48	4.1248E-04	129.2	72.42	129.2	72.58	UL-RL	2.9452E+04	-6.800	0.000	1.000	1.000
72.42	0.000	0.000	Strato1_2_8_L_0									
36 D	14.89	4.1269E-04	133.0	74.43	133.0	74.60	UL-RL	2.9452E+04	-7.000	0.000	1.000	1.000
74.43	0.000	0.000	Strato1_2_8_L_0									
37 D	15.29	4.1271E-04	136.8	76.44	136.8	76.61	UL-RL	2.9452E+04	-7.200	0.000	1.000	1.000
76.44	0.000	0.000	Strato1_2_8_L_0									
38 D	15.69	4.1252E-04	140.6	78.46	140.6	78.62	UL-RL	2.9452E+04	-7.400	0.000	1.000	1.000
78.46	0.000	0.000	Strato1_2_8_L_0									
39 D	16.09	4.1209E-04	144.4	80.47	144.4	80.63	UL-RL	2.9452E+04	-7.600	0.000	1.000	1.000
80.47	0.000	0.000	Strato1_2_8_L_0									
40 D	16.50	4.1142E-04	148.2	82.48	148.2	82.64	UL-RL	2.9452E+04	-7.800	0.000	1.000	1.000
82.48	0.000	0.000	Strato1_2_8_L_0									
41 D	16.90	4.1047E-04	152.0	84.48	152.0	84.64	UL-RL	2.9452E+04	-8.000	0.000	1.000	1.000
84.48	0.000	0.000	Strato1_2_8_L_0									
42 D	17.30	4.0922E-04	155.8	86.49	155.8	86.64	UL-RL	2.9452E+04	-8.200	0.000	1.000	1.000
86.49	0.000	0.000	Strato1_2_8_L_0									
43 D	17.70	4.0765E-04	159.6	88.49	159.6	88.64	UL-RL	2.9452E+04	-8.400	0.000	1.000	1.000
88.49	0.000	0.000	Strato1_2_8_L_0									
44 D	18.10	4.0574E-04	163.4	90.49	163.4	90.63	UL-RL	2.9452E+04	-8.600	0.000	1.000	1.000
90.49	0.000	0.000	Strato1_2_8_L_0									
45 D	18.50	4.0347E-04	167.2	92.49	167.2	92.62	UL-RL	2.9452E+04	-8.800	0.000	1.000	1.000
92.49	0.000	0.000	Strato1_2_8_L_0									
46 D	18.90	4.0081E-04	171.0	94.48	171.0	94.61	UL-RL	2.9452E+04	-9.000	0.000	1.000	1.000
94.48	0.000	0.000	Strato1_2_8_L_0									
47 D	19.29	3.9774E-04	174.8	96.47	174.8	96.59	UL-RL	2.9452E+04	-9.200	0.000	1.000	1.000
96.47	0.000	0.000	Strato1_2_8_L_0									
48 D	19.69	3.9425E-04	178.6	98.46	178.6	98.57	UL-RL	2.9452E+04	-9.400	0.000	1.000	1.000
98.46	0.000	0.000	Strato1_2_8_L_0									
49 D	20.09	3.9032E-04	182.4	100.4	182.4	100.5	UL-RL	2.9452E+04	-9.600	0.000	1.000	1.000
100.4	0.000	0.000	Strato1_2_8_L_0									
50 D	20.48	3.8593E-04	186.2	102.4	186.2	102.5	UL-RL	2.9452E+04	-9.800	0.000	1.000	1.000
102.4	0.000	0.000	Strato1_2_8_L_0									
51 D	20.88	3.8107E-04	190.0	104.4	190.0	104.5	UL-RL	2.9452E+04	-10.00	0.000	1.000	1.000
104.4	0.000	0.000	Strato1_2_8_L_0									
52 D	21.27	3.7571E-04	193.8	106.4	193.8	106.4	UL-RL	2.9452E+04	-10.20	0.000	1.000	1.000
106.4	0.000	0.000	Strato1_2_8_L_0									
53 D	21.66	3.6987E-04	197.6	108.3	197.6	108.4	UL-RL	2.9452E+04	-10.40	0.000	1.000	1.000
108.3	0.000	0.000	Strato1_2_8_L_0									
54 D	22.05	3.6353E-04	201.4	110.3	201.4	110.3	UL-RL	2.9452E+04	-10.60	0.000	1.000	1.000
110.3	0.000	0.000	Strato1_2_8_L_0									
55 D	22.44	3.5669E-04	205.2	112.2	205.2	112.3	UL-RL	2.9452E+04	-10.80	0.000	1.000	1.000
112.2	0.000	0.000	Strato1_2_8_L_0									
56 D	22.83	3.4935E-04	209.0	114.2	209.0	114.2	UL-RL	2.9452E+04	-11.00	0.000	1.000	1.000
114.2	0.000	0.000	Strato1_2_8_L_0									
57 D	23.22	3.4153E-04	212.8	116.1	212.8	116.2	UL-RL	2.9452E+04	-11.20	0.000	1.000	1.000
116.1	0.000	0.000	Strato1_2_8_L_0									
58 D	23.61	3.3325E-04	216.6	118.0	216.6	118.1	UL-RL	2.9452E+04	-11.40	0.000	1.000	1.000
118.0	0.000	0.000	Strato1_2_8_L_0									
59 D	24.00	3.2451E-04	220.4	120.0	220.4	120.0	UL-RL	2.9452E+04	-11.60	0.000	1.000	1.000
120.0	0.000	0.000	Strato1_2_8_L_0									
60 D	24.38	3.1537E-04	224.2	121.9	224.2	121.9	UL-RL	2.9452E+04	-11.80	0.000	1.000	1.000
121.9	0.000	0.000	Strato1_2_8_L_0									
61 D	24.77	3.0585E-04	228.0	123.8	228.0	123.9	UL-RL	2.9452E+04	-12.00	0.000	1.000	1.000
123.8	0.000	0.000	Strato1_2_8_L_0									
62 D	25.15	2.9601E-04	231.8	125.7	231.8	125.8	UL-RL	2.9452E+04	-12.20	0.000	1.000	1.000
125.7	0.000	0.000	Strato1_2_8_L_0									
63 D	25.53	2.8591E-04	235.6	127.7	235.6	127.7	UL-RL	2.9452E+04	-12.40	0.000	1.000	1.000
127.7	0.000	0.000	Strato1_2_8_L_0									
64 D	25.92	2.7562E-04	239.4	129.6	239.4	129.6	UL-RL	2.9452E+04	-12.60	0.000	1.000	1.000
129.6	0.000	0.000	Strato1_2_8_L_0									
65 D	26.30	2.6523E-04	243.2	131.5	243.2	131.5	UL-RL	2.9452E+04	-12.80	0.000	1.000	1.000
131.5	0.000	0.000	Strato1_2_8_L_0									
66 D	26.68	2.5483E-04	247.0	133.4	247.0	133.4	UL-RL	2.9452E+04	-13.00	0.000	1.000	1.000
133.4	0.000	0.000	Strato1_2_8_L_0									
67 D	26.15	2.4454E-04	250.9	130.7	250.9	130.8	UL-RL	6.5071E+04	-13.20	0.000	1.000	1.000
130.7	0.000	0.000	Strato2_3095_82743_L_0									
68 D	26.51	2.3449E-04	254.9	132.5	254.9	132.5	UL-RL	6.5071E+04	-13.40	0.000	1.000	1.000
132.5	0.000	0.000	Strato2_3095_82743_L_0									
69 D	26.86	2.2477E-04	258.9	134.3	258.9	134.3	UL-RL	6.5071E+04	-13.60	0.000	1.000	1.000
134.3	0.000	0.000	Strato2_3095_82743_L_0									
70 D	27.22	2.1546E-04	262.9	136.1	262.9	136.1	V-C	2.1690E+04	-13.80	0.000	1.000	1.000
136.1	0.000	0.000	Strato2_3095_82743_L_0									
71 D	27.59	2.0663E-04	266.9	137.9	266.9	137.9	V-C	2.1690E+04	-14.00	0.000	1.000	1.000
137.9	0.000	0.000	Strato2_3095_82743_L_0									
72 D	27.95	1.9830E-04	270.9	139.8	270.9	139.8	V-C	2.1690E+04	-14.20	0.000	1.000	1.000
139.8	0.000	0.000	Strato2_3095_82743_L_0									
73 D	28.32	1.9051E-04	274.9	141.6	274.9	141.6	V-C	2.1690E+04	-14.40	0.000	1.000	1.000
141.6	0.000	0.000	Strato2_3095_82743_L_0									
74 D	28.68	1.8326E-04	278.9	143.4	278.9	143.4	V-C	2.1690E+04	-14.60	0.000	1.000	1.000
143.4	0.000	0.000	Strato2_3095_82743_L_0									
75 D	29.06	1.7654E-04	282.9	145.3	282.9	145.3	V-C	2.1690E+04	-14.80	0.000	1.000	1.000
145.3	0.000	0.000	Strato2_3095_82743_L_0									
76 D	29.43	1.7034E-04	286.9	147.1	286.9	147.1	V-C	2.1690E+04	-15.00	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 527 di 1221
147.1	0.000	0.000	Strato2_3095_82743_L_0		
77 D	29.80	1.6463E-04	290.9 149.0	290.9	149.0
149.0	0.000	0.000	Strato2_3095_82743_L_0		
78 D	30.18	1.5938E-04	294.9 150.9	294.9	150.9
150.9	0.000	0.000	Strato2_3095_82743_L_0		
79 D	30.56	1.5455E-04	298.9 152.8	298.9	152.8
152.8	0.000	0.000	Strato2_3095_82743_L_0		
80 D	30.94	1.5011E-04	302.9 154.7	302.9	154.7
154.7	0.000	0.000	Strato2_3095_82743_L_0		
81 D	31.32	1.4601E-04	306.9 156.6	306.9	156.6
156.6	0.000	0.000	Strato2_3095_82743_L_0		
82 D	31.71	1.4221E-04	310.9 158.5	310.9	158.5
158.5	0.000	0.000	Strato2_3095_82743_L_0		
83 D	32.09	1.3866E-04	314.9 160.5	314.9	160.5
160.5	0.000	0.000	Strato2_3095_82743_L_0		
84 D	32.48	1.3531E-04	318.9 162.4	318.9	162.4
162.4	0.000	0.000	Strato2_3095_82743_L_0		
85 D	32.86	1.3213E-04	322.9 164.3	322.9	164.3
164.3	0.000	0.000	Strato2_3095_82743_L_0		
86 D	33.25	1.2908E-04	326.9 166.2	326.9	166.3
166.2	0.000	0.000	Strato2_3095_82743_L_0		
87 D	33.64	1.2612E-04	330.9 168.2	330.9	168.2
168.2	0.000	0.000	Strato2_3095_82743_L_0		
88 D	34.02	1.2322E-04	334.9 170.1	334.9	170.1
170.1	0.000	0.000	Strato2_3095_82743_L_0		
89 D	34.41	1.2036E-04	338.9 172.1	338.9	172.1
172.1	0.000	0.000	Strato2_3095_82743_L_0		
90 D	34.80	1.1751E-04	342.9 174.0	342.9	174.0
174.0	0.000	0.000	Strato2_3095_82743_L_0		
91 D	17.59	1.1467E-04	346.9 175.9	346.9	175.9
175.9	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1MIR1_3484          |
|          Exe Time :29 July 2019          18:00:08          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.35082	-0.35082	2.77112E-13	7.01632E-02
2	-0.11171	0.11171	-7.01632E-02	4.78202E-02
3	0.28429	-0.28429	-4.78202E-02	0.10468
4	0.37566	-0.37566	-0.10468	0.17981
5	0.81290	-0.81290	-0.17981	0.34239
6	0.93800	-0.93800	-0.34239	0.52999
7	1.2159	-1.2159	-0.52999	0.77317
8	1.1970	-1.1970	-0.77317	1.0126
9	1.1924	-1.1924	-1.0126	1.2510
10	0.91143	-0.91143	-1.2510	1.4333
11	0.67977	-0.67977	-1.4333	1.5693
12	0.28180	-0.28180	-1.5693	1.6256
13	0.14090	-0.14090	-1.6256	1.6538
14	-0.15143	0.15143	-1.6538	1.6235
15	-0.23041	0.23041	-1.6235	1.5775
16	-0.49395	0.49395	-1.5775	1.4787
17	-0.57347	0.57347	-1.4787	1.3640
18	-0.77954	0.77954	-1.3640	1.2081
19	-0.82695	0.82695	-1.2081	1.0427
20	-0.99289	0.99289	-1.0427	0.84409
21	-1.0200	1.0200	-0.84409	0.64009
22	-1.1586	1.1586	-0.64009	0.40838
23	-1.1741	1.1741	-0.40838	0.17357
24	-1.3244	1.3244	-0.17357	-9.13216E-02
25	-1.3631	1.3631	9.13216E-02	-0.36393
26	-1.4994	1.4994	0.36393	-0.66381
27	-1.5374	1.5374	0.66381	-0.97129
28	-1.6620	1.6620	0.97129	-1.3037
29	-1.6885	1.6885	1.3037	-1.6414
30	-1.7974	1.7974	1.6414	-2.0009
31	-1.8389	1.8389	2.0009	-2.3686

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 528 di 1221
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32	-1.9573	1.9573	2.3686	-2.7601
33	-1.9900	1.9900	2.7601	-3.1581
34	-2.0944	2.0944	3.1581	-3.5770
35	-2.1169	2.1169	3.5770	-4.0004
36	-2.2055	2.2055	4.0004	-4.4415
37	-2.2141	2.2141	4.4415	-4.8843
38	-2.2823	2.2823	4.8843	-5.3408
39	-2.2893	2.2893	5.3408	-5.7986
40	-2.3480	2.3480	5.7986	-6.2682
41	-2.3257	2.3257	6.2682	-6.7333
42	-2.3470	2.3470	6.7333	-7.2027
43	-2.2849	2.2849	7.2027	-7.6597
44	-2.2573	2.2573	7.6597	-8.1112
45	-2.1424	2.1424	8.1112	-8.5397
46	-2.0678	2.0678	8.5397	-8.9532
47	-1.9005	1.9005	8.9532	-9.3333
48	-1.7470	1.7470	9.3333	-9.6827
49	-1.4944	1.4944	9.6827	-9.9816
50	-1.2445	1.2445	9.9816	-10.230
51	-0.88828	0.88828	10.230	-10.408
52	-0.52301	0.52301	10.408	-10.513
53	-4.34901E-02	4.34901E-02	10.513	-10.521
54	0.44391	-0.44391	10.521	-10.433
55	1.0542	-1.0542	10.433	-10.222
56	1.6977	-1.6977	10.222	-9.8823
57	2.4724	-2.4724	9.8823	-9.3878
58	3.2917	-3.2917	9.3878	-8.7295
59	4.2500	-4.2500	8.7295	-7.8795
60	5.2632	-5.2632	7.8795	-6.8269
61	6.4103	-6.4103	6.8269	-5.5448
62	7.6212	-7.6212	5.5448	-4.0206
63	8.9824	-8.9824	4.0206	-2.2241
64	10.413	-10.413	2.2241	-0.14145
65	11.996	-11.996	0.14145	2.2577
66	13.651	-13.651	-2.2577	4.9879
67	10.832	-10.832	-4.9879	7.1542
68	8.2641	-8.2641	-7.1542	8.8071
69	6.0004	-6.0004	-8.8071	10.007
70	3.9676	-3.9676	-10.007	10.801
71	2.2226	-2.2226	-10.801	11.245
72	0.68249	-0.68249	-11.245	11.382
73	-0.60021	0.60021	-11.382	11.262
74	-1.7081	1.7081	-11.262	10.920
75	-2.5900	2.5900	-10.920	10.402
76	-3.3350	3.3350	-10.402	9.7350
77	-3.8834	3.8834	-9.7350	8.9584
78	-4.3123	4.3123	-8.9584	8.0959
79	-4.5707	4.5707	-8.0959	7.1818
80	-4.7318	4.7318	-7.1818	6.2354
81	-4.7439	4.7439	-6.2354	5.2866
82	-4.6163	4.6163	-5.2866	4.3634
83	-4.4158	4.4158	-4.3634	3.4802
84	-4.0975	4.0975	-3.4802	2.6607
85	-3.7162	3.7162	-2.6607	1.9174
86	-3.2179	3.2179	-1.9174	1.2739
87	-2.6623	2.6623	-1.2739	0.74140
88	-1.9948	1.9948	-0.74140	0.34243
89	-1.2722	1.2722	-0.34243	8.79944E-02
90	-0.43997	0.43997	-8.79944E-02	-2.75280E-13

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019      18:00:08                             |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
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Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
529 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
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|
|          NewProject.BaseDesignSection_28.AlMIRl_3484
|          Exe Time :29 July 2019      18:00:08
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New Project

STRESS RESULTS FOR GROUP NO. 5

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Tirante2_1507          :
ELEMENT TYPE          6 NO.OF ELEMENTS. IN THIS GROUP    1
CURRENT TIME IS      2.0000

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POST-TENSION 2D-BOUNDARY ELEMENT

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-----
          EL    FORCE          d0          EDISPL    pl. eps          K    -ve limit    +ve limit
-----

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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER    0  RNORM = 0.000    RMNORM= 0.000
          RINORM=0.7541E+05 RIMNOR= 6696.
          RENORM= 756.7    REMNOR=0.4454E-21 RATIO =0.1002    TOLER =0.1000E-03 NOT CONVERGED
          RFMAX = 35.63    RMMAX = 11.38
          RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
          RDT =0.7541E+05 RDR = 6696.
          RATIO=0.1002    RATOR= 0.000
          MAX UN= 7.627    IEQ=    35 NODE    18 DOF    1  Y-DISPL.F
          MIN UN=-.8796E-10 IEQ=    85 NODE    43 DOF    1  Y-DISPL.F
          NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    2  RNORM = 0.000    RMNORM= 0.000
          RINORM=0.7541E+05 RIMNOR= 6696.
          RENORM= 307.5    REMNOR=0.2649E-19 RATIO =0.6385E-01 TOLER =0.1000E-03 NOT CONVERGED
          RFMAX = 35.63    RMMAX = 11.38
          RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
          RDT =0.7541E+05 RDR = 6696.
          RATIO=0.6385E-01 RATOR= 0.000
          MAX UN= 7.816    IEQ=    21 NODE    11 DOF    1  Y-DISPL.F
          MIN UN=-.1337E-08 IEQ=    17 NODE    9 DOF    1  Y-DISPL.F
          NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    3  RNORM = 0.000    RMNORM= 0.000
          RINORM=0.7541E+05 RIMNOR= 6696.
          RENORM= 174.2    REMNOR=0.4430E-18 RATIO =0.4807E-01 TOLER =0.1000E-03 NOT CONVERGED
          RFMAX = 35.63    RMMAX = 11.38
          RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
          RDT =0.7541E+05 RDR = 6696.
          RATIO=0.4807E-01 RATOR= 0.000
          MAX UN= 7.578    IEQ=    51 NODE    26 DOF    1  Y-DISPL.F
          MIN UN=-.4094E-08 IEQ=    7 NODE    4 DOF    1  Y-DISPL.F
          NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    4  RNORM = 0.000    RMNORM= 0.000
          RINORM=0.7541E+05 RIMNOR= 6696.
          RENORM= 6.714    REMNOR=0.2270E-18 RATIO =0.9436E-02 TOLER =0.1000E-03 NOT CONVERGED
          RFMAX = 35.63    RMMAX = 11.38
          RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
          RDT =0.7541E+05 RDR = 6696.
          RATIO=0.9436E-02 RATOR= 0.000
          MAX UN= 2.153    IEQ=    69 NODE    35 DOF    1  Y-DISPL.F
          MIN UN=-.4428E-08 IEQ=    15 NODE    8 DOF    1  Y-DISPL.F
          NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER    5  RNORM = 0.000    RMNORM= 0.000
          RINORM=0.7541E+05 RIMNOR= 6696.
          RENORM=0.7057E-03 REMNOR=0.1829E-18 RATIO =0.9673E-04 TOLER =0.1000E-03    CONVERGED !
          RFMAX = 35.63    RMMAX = 11.38
          RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
          RDT =0.7541E+05 RDR = 6696.
          RATIO=0.9673E-04 RATOR= 0.000
          MAX UN=0.2656E-01 IEQ=    97 NODE    49 DOF    1  Y-DISPL.F
          MIN UN=-.3479E-08 IEQ=    7 NODE    4 DOF    1  Y-DISPL.F
          NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 530 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|                                                                                                                                           |
|          NewProject.BaseDesignSection_28.A1MIR1_3484          |
|          Exe Time :29 July 2019          18:00:08          |
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New Project
SOLUTION REACHED USING 5 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	1.2275595E-02	-1.7398799E-03	
2	1.1927619E-02	-1.7398715E-03	
3	1.1579648E-02	-1.7398297E-03	
4	1.1231694E-02	-1.7396909E-03	
5	1.0883785E-02	-1.7393593E-03	
6	1.0535971E-02	-1.7387188E-03	
7	1.0188327E-02	-1.7376337E-03	
8	9.8409568E-03	-1.7359526E-03	
9	9.4939966E-03	-1.7335086E-03	
10	9.1476162E-03	-1.7301222E-03	
11	8.8020233E-03	-1.7256012E-03	
12	8.4574651E-03	-1.7197404E-03	
13	8.1142311E-03	-1.7123212E-03	
14	7.7726558E-03	-1.7031130E-03	
15	7.4331214E-03	-1.6918726E-03	
16	7.0960593E-03	-1.6783446E-03	
17	6.7619538E-03	-1.6622624E-03	
18	6.4313432E-03	-1.6433478E-03	
19	6.1048228E-03	-1.6213111E-03	
20	5.7830446E-03	-1.5958869E-03	
21	5.4667050E-03	-1.5669078E-03	
22	5.1565207E-03	-1.5343405E-03	
23	4.8532013E-03	-1.4982859E-03	
24	4.5574246E-03	-1.4589795E-03	
25	4.2698073E-03	-1.4167282E-03	
26	3.9909090E-03	-1.3718414E-03	
27	3.7212263E-03	-1.3246225E-03	
28	3.4611956E-03	-1.2753696E-03	
29	3.2111957E-03	-1.2243761E-03	
30	2.9715432E-03	-1.1719303E-03	
31	2.7425014E-03	-1.1183172E-03	
32	2.5242754E-03	-1.0638188E-03	
33	2.3170143E-03	-1.0087143E-03	
34	2.1208116E-03	-9.5328093E-04	
35	1.9357064E-03	-8.9779408E-04	
36	1.7616802E-03	-8.4252729E-04	
37	1.5986626E-03	-7.8775417E-04	
38	1.4465274E-03	-7.3374793E-04	
39	1.3050943E-03	-6.8077881E-04	
40	1.1741308E-03	-6.2909583E-04	
41	1.0533566E-03	-5.7891236E-04	
42	9.4245377E-04	-5.3040991E-04	
43	8.4107051E-04	-4.8373955E-04	
44	7.4882759E-04	-4.3902462E-04	
45	6.6532417E-04	-3.9636320E-04	
46	5.9013910E-04	-3.5582857E-04	
47	5.2284530E-04	-3.1747688E-04	
48	4.6300055E-04	-2.8134223E-04	
49	4.1015967E-04	-2.4744262E-04	
50	3.6387459E-04	-2.1578069E-04	
51	3.2369902E-04	-1.8634429E-04	
52	2.8919024E-04	-1.5910495E-04	
53	2.5991320E-04	-1.3402055E-04	
54	2.3544200E-04	-1.1103642E-04	
55	2.1536293E-04	-9.0087799E-05	
56	1.9927607E-04	-7.1101336E-05	
57	1.8679698E-04	-5.3996108E-05	
58	1.7755802E-04	-3.8684937E-05	
59	1.7120956E-04	-2.5075485E-05	
60	1.6742081E-04	-1.3071306E-05	
61	1.6588067E-04	-2.5726364E-06	
62	1.6629822E-04	6.5230001E-06	
63	1.6840333E-04	1.4320577E-05	
64	1.7194705E-04	2.0927231E-05	
65	1.7670209E-04	2.6451794E-05	
66	1.8246297E-04	3.1004311E-05	
67	1.8904640E-04	3.4695692E-05	
68	1.9629039E-04	3.7624256E-05	
69	2.0405088E-04	3.9874372E-05	

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Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 532 di 1221					
19 D	6.516	-6.1048E-03	107.2	32.58	107.2	56.80	ACTIVE	0.000	-3.600	0.000	1.000	1.000
32.58	0.000	0.000	Stratol_2_8_L_0									
20 D	6.685	-5.7830E-03	109.9	33.42	109.9	58.27	ACTIVE	0.000	-3.800	0.000	1.000	1.000
33.42	0.000	0.000	Stratol_2_8_L_0									
21 D	7.001	-5.4667E-03	115.2	35.01	115.2	61.03	ACTIVE	0.000	-4.000	0.000	1.000	1.000
35.01	0.000	0.000	Stratol_2_8_L_0									
22 D	7.175	-5.1565E-03	118.0	35.87	118.0	62.54	ACTIVE	0.000	-4.200	0.000	1.000	1.000
35.87	0.000	0.000	Stratol_2_8_L_0									
23 D	7.483	-4.8532E-03	123.1	37.42	123.1	65.23	ACTIVE	0.000	-4.400	0.000	1.000	1.000
37.42	0.000	0.000	Stratol_2_8_L_0									
24 D	7.643	-4.5574E-03	125.7	38.22	125.7	66.63	ACTIVE	0.000	-4.600	0.000	1.000	1.000
38.22	0.000	0.000	Stratol_2_8_L_0									
25 D	7.945	-4.2698E-03	130.7	39.73	130.7	69.26	ACTIVE	0.000	-4.800	0.000	1.000	1.000
39.73	0.000	0.000	Stratol_2_8_L_0									
26 D	8.127	-3.9909E-03	133.7	40.63	133.7	70.84	ACTIVE	0.000	-5.000	0.000	1.000	1.000
40.63	0.000	0.000	Stratol_2_8_L_0									
27 D	8.422	-3.7212E-03	138.5	42.11	138.5	73.42	ACTIVE	0.000	-5.200	0.000	1.000	1.000
42.11	0.000	0.000	Stratol_2_8_L_0									
28 D	8.607	-3.4612E-03	141.6	43.04	141.6	75.03	ACTIVE	0.000	-5.400	0.000	1.000	1.000
43.04	0.000	0.000	Stratol_2_8_L_0									
29 D	8.898	-3.2112E-03	146.3	44.49	146.3	77.56	ACTIVE	0.000	-5.600	0.000	1.000	1.000
44.49	0.000	0.000	Stratol_2_8_L_0									
30 D	9.085	-2.9715E-03	149.4	45.43	149.4	79.20	ACTIVE	0.000	-5.800	0.000	1.000	1.000
45.43	0.000	0.000	Stratol_2_8_L_0									
31 D	9.358	-2.7425E-03	153.9	46.79	153.9	81.58	ACTIVE	0.000	-6.000	0.000	1.000	1.000
46.79	0.000	0.000	Stratol_2_8_L_0									
32 D	9.548	-2.5243E-03	157.0	47.74	157.0	83.23	ACTIVE	0.000	-6.200	0.000	1.000	1.000
47.74	0.000	0.000	Stratol_2_8_L_0									
33 D	9.831	-2.3170E-03	161.7	49.16	161.7	85.70	ACTIVE	0.000	-6.400	0.000	1.000	1.000
49.16	0.000	0.000	Stratol_2_8_L_0									
34 D	10.02	-2.1208E-03	164.9	50.12	164.9	87.37	ACTIVE	0.000	-6.600	0.000	1.000	1.000
50.12	0.000	0.000	Stratol_2_8_L_0									
35 D	10.30	-1.9357E-03	169.5	51.52	169.5	89.81	ACTIVE	0.000	-6.800	0.000	1.000	1.000
51.52	0.000	0.000	Stratol_2_8_L_0									
36 D	10.50	-1.7617E-03	172.6	52.49	172.6	91.50	ACTIVE	0.000	-7.000	0.000	1.000	1.000
52.49	0.000	0.000	Stratol_2_8_L_0									
37 D	10.77	-1.5987E-03	177.2	53.87	177.2	93.92	ACTIVE	0.000	-7.200	0.000	1.000	1.000
53.87	0.000	0.000	Stratol_2_8_L_0									
38 D	11.11	-1.4465E-03	180.4	55.55	180.4	95.62	UL-RL	2.1827E+04	-7.400	0.000	1.000	1.000
55.55	0.000	0.000	Stratol_2_8_L_0									
39 D	12.19	-1.3051E-03	184.8	60.94	184.8	97.92	UL-RL	2.1827E+04	-7.600	0.000	1.000	1.000
60.94	0.000	0.000	Stratol_2_8_L_0									
40 D	13.11	-1.1741E-03	188.0	65.53	188.0	99.64	UL-RL	2.1827E+04	-7.800	0.000	1.000	1.000
65.53	0.000	0.000	Stratol_2_8_L_0									
41 D	14.11	-1.0534E-03	192.5	70.56	192.5	102.0	UL-RL	2.1827E+04	-8.000	0.000	1.000	1.000
70.56	0.000	0.000	Stratol_2_8_L_0									
42 D	14.95	-9.4245E-04	195.8	74.74	195.8	103.7	UL-RL	2.1827E+04	-8.200	0.000	1.000	1.000
74.74	0.000	0.000	Stratol_2_8_L_0									
43 D	15.87	-8.4107E-04	200.2	79.34	200.2	106.1	UL-RL	2.1827E+04	-8.400	0.000	1.000	1.000
79.34	0.000	0.000	Stratol_2_8_L_0									
44 D	16.63	-7.4883E-04	203.5	83.14	203.5	107.8	UL-RL	2.1827E+04	-8.600	0.000	1.000	1.000
83.14	0.000	0.000	Stratol_2_8_L_0									
45 D	17.47	-6.6532E-04	207.9	87.35	207.9	110.2	UL-RL	2.1827E+04	-8.800	0.000	1.000	1.000
87.35	0.000	0.000	Stratol_2_8_L_0									
46 D	18.14	-5.9014E-04	211.1	90.72	211.1	111.9	UL-RL	2.1827E+04	-9.000	0.000	1.000	1.000
90.72	0.000	0.000	Stratol_2_8_L_0									
47 D	18.92	-5.2285E-04	215.4	94.58	215.4	114.2	UL-RL	2.1827E+04	-9.200	0.000	1.000	1.000
94.58	0.000	0.000	Stratol_2_8_L_0									
48 D	19.54	-4.6300E-04	218.8	97.72	218.8	116.0	UL-RL	2.1827E+04	-9.400	0.000	1.000	1.000
97.72	0.000	0.000	Stratol_2_8_L_0									
49 D	20.25	-4.1016E-04	223.1	101.3	223.1	118.3	UL-RL	2.1827E+04	-9.600	0.000	1.000	1.000
101.3	0.000	0.000	Stratol_2_8_L_0									
50 D	20.83	-3.6387E-04	226.5	104.1	226.5	120.0	UL-RL	2.1827E+04	-9.800	0.000	1.000	1.000
104.1	0.000	0.000	Stratol_2_8_L_0									
51 D	21.48	-3.2370E-04	230.8	107.4	230.8	122.3	UL-RL	2.1827E+04	-10.00	0.000	1.000	1.000
107.4	0.000	0.000	Stratol_2_8_L_0									
52 D	22.01	-2.8919E-04	234.2	110.1	234.2	124.1	UL-RL	2.1827E+04	-10.20	0.000	1.000	1.000
110.1	0.000	0.000	Stratol_2_8_L_0									
53 D	22.62	-2.5991E-04	238.5	113.1	238.5	126.4	UL-RL	2.1827E+04	-10.40	0.000	1.000	1.000
113.1	0.000	0.000	Stratol_2_8_L_0									
54 D	23.10	-2.3544E-04	241.8	115.5	241.8	128.1	UL-RL	2.1827E+04	-10.60	0.000	1.000	1.000
115.5	0.000	0.000	Stratol_2_8_L_0									
55 D	23.67	-2.1536E-04	246.1	118.4	246.1	130.4	UL-RL	2.1827E+04	-10.80	0.000	1.000	1.000
118.4	0.000	0.000	Stratol_2_8_L_0									
56 D	24.13	-1.9928E-04	249.5	120.7	249.5	132.2	UL-RL	2.1827E+04	-11.00	0.000	1.000	1.000
120.7	0.000	0.000	Stratol_2_8_L_0									
57 D	24.67	-1.8680E-04	253.7	123.4	253.7	134.5	UL-RL	2.1827E+04	-11.20	0.000	1.000	1.000
123.4	0.000	0.000	Stratol_2_8_L_0									
58 D	25.11	-1.7756E-04	257.1	125.5	257.1	136.3	UL-RL	2.1827E+04	-11.40	0.000	1.000	1.000
125.5	0.000	0.000	Stratol_2_8_L_0									
59 D	25.62	-1.7121E-04	261.4	128.1	261.4	138.5	UL-RL	2.1827E+04	-11.60	0.000	1.000	1.000
128.1	0.000	0.000	Stratol_2_8_L_0									
60 D	26.04	-1.6742E-04	264.8	130.2	264.8	140.4	UL-RL	2.1827E+04	-11.80	0.000	1.000	1.000
130.2	0.000	0.000	Stratol_2_8_L_0									
61 D	26.52	-1.6588E-04	269.0	132.6	269.0	142.5	UL-RL	2.1827E+04	-12.00	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 533 di 1221
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132.6	0.000	0.000	Strato1_2_8_L_0									
62 D	26.93	-1.6630E-04	272.4	134.6	272.4	144.4	UL-RL	2.1827E+04	-12.20	0.000	1.000	1.000
134.6	0.000	0.000	Strato1_2_8_L_0									
63 D	27.41	-1.6840E-04	276.6	137.0	276.6	146.6	UL-RL	2.1827E+04	-12.40	0.000	1.000	1.000
137.0	0.000	0.000	Strato1_2_8_L_0									
64 D	27.80	-1.7195E-04	280.1	139.0	280.1	148.4	UL-RL	2.1827E+04	-12.60	0.000	1.000	1.000
139.0	0.000	0.000	Strato1_2_8_L_0									
65 D	28.27	-1.7670E-04	284.3	141.3	284.3	150.7	UL-RL	2.1827E+04	-12.80	0.000	1.000	1.000
141.3	0.000	0.000	Strato1_2_8_L_0									
66 D	28.65	-1.8246E-04	287.7	143.3	287.7	152.5	UL-RL	2.1827E+04	-13.00	0.000	1.000	1.000
143.3	0.000	0.000	Strato1_2_8_L_0									
67 D	24.02	-1.8905E-04	292.0	120.1	292.0	146.0	UL-RL	6.1746E+04	-13.20	0.000	1.000	1.000
120.1	0.000	0.000	Strato2_3095_82743_L_0									
68 D	24.41	-1.9629E-04	295.7	122.1	295.7	147.8	UL-RL	6.1746E+04	-13.40	0.000	1.000	1.000
122.1	0.000	0.000	Strato2_3095_82743_L_0									
69 D	24.86	-2.0405E-04	300.0	124.3	300.0	150.0	UL-RL	6.1746E+04	-13.60	0.000	1.000	1.000
124.3	0.000	0.000	Strato2_3095_82743_L_0									
70 D	25.23	-2.1220E-04	303.7	126.2	303.7	151.8	UL-RL	6.1746E+04	-13.80	0.000	1.000	1.000
126.2	0.000	0.000	Strato2_3095_82743_L_0									
71 D	25.67	-2.2063E-04	308.0	128.3	308.0	154.0	UL-RL	6.1746E+04	-14.00	0.000	1.000	1.000
128.3	0.000	0.000	Strato2_3095_82743_L_0									
72 D	26.03	-2.2924E-04	311.7	130.1	311.7	155.9	UL-RL	6.1746E+04	-14.20	0.000	1.000	1.000
130.1	0.000	0.000	Strato2_3095_82743_L_0									
73 D	26.45	-2.3794E-04	316.1	132.2	316.1	158.0	UL-RL	6.1746E+04	-14.40	0.000	1.000	1.000
132.2	0.000	0.000	Strato2_3095_82743_L_0									
74 D	26.79	-2.4668E-04	319.8	134.0	319.8	159.9	UL-RL	6.1746E+04	-14.60	0.000	1.000	1.000
134.0	0.000	0.000	Strato2_3095_82743_L_0									
75 D	27.20	-2.5540E-04	324.1	136.0	324.1	162.1	UL-RL	6.1746E+04	-14.80	0.000	1.000	1.000
136.0	0.000	0.000	Strato2_3095_82743_L_0									
76 D	27.53	-2.6405E-04	327.7	137.6	327.7	163.9	UL-RL	6.1746E+04	-15.00	0.000	1.000	1.000
137.6	0.000	0.000	Strato2_3095_82743_L_0									
77 D	27.92	-2.7260E-04	332.1	139.6	332.1	166.0	UL-RL	6.1746E+04	-15.20	0.000	1.000	1.000
139.6	0.000	0.000	Strato2_3095_82743_L_0									
78 D	28.25	-2.8103E-04	335.8	141.3	335.8	167.9	UL-RL	6.1746E+04	-15.40	0.000	1.000	1.000
141.3	0.000	0.000	Strato2_3095_82743_L_0									
79 D	28.64	-2.8933E-04	340.1	143.2	340.1	170.1	UL-RL	6.1746E+04	-15.60	0.000	1.000	1.000
143.2	0.000	0.000	Strato2_3095_82743_L_0									
80 D	28.96	-2.9748E-04	343.8	144.8	343.8	171.9	UL-RL	6.1746E+04	-15.80	0.000	1.000	1.000
144.8	0.000	0.000	Strato2_3095_82743_L_0									
81 D	29.34	-3.0550E-04	348.2	146.7	348.2	174.1	UL-RL	6.1746E+04	-16.00	0.000	1.000	1.000
146.7	0.000	0.000	Strato2_3095_82743_L_0									
82 D	29.72	-3.1338E-04	352.5	148.6	352.5	176.2	UL-RL	6.1746E+04	-16.20	0.000	1.000	1.000
148.6	0.000	0.000	Strato2_3095_82743_L_0									
83 D	30.04	-3.2113E-04	356.2	150.2	356.2	178.1	UL-RL	6.1746E+04	-16.40	0.000	1.000	1.000
150.2	0.000	0.000	Strato2_3095_82743_L_0									
84 D	30.41	-3.2878E-04	360.4	152.0	360.4	180.2	UL-RL	6.1746E+04	-16.60	0.000	1.000	1.000
152.0	0.000	0.000	Strato2_3095_82743_L_0									
85 D	30.72	-3.3633E-04	364.2	153.6	364.2	182.1	UL-RL	6.1746E+04	-16.80	0.000	1.000	1.000
153.6	0.000	0.000	Strato2_3095_82743_L_0									
86 D	31.10	-3.4381E-04	368.5	155.5	368.5	184.2	UL-RL	6.1746E+04	-17.00	0.000	1.000	1.000
155.5	0.000	0.000	Strato2_3095_82743_L_0									
87 D	31.41	-3.5123E-04	372.2	157.1	372.2	186.1	UL-RL	6.1746E+04	-17.20	0.000	1.000	1.000
157.1	0.000	0.000	Strato2_3095_82743_L_0									
88 D	31.79	-3.5861E-04	376.5	158.9	376.5	188.3	UL-RL	6.1746E+04	-17.40	0.000	1.000	1.000
158.9	0.000	0.000	Strato2_3095_82743_L_0									
89 D	32.10	-3.6596E-04	380.2	160.5	380.2	190.1	UL-RL	6.1746E+04	-17.60	0.000	1.000	1.000
160.5	0.000	0.000	Strato2_3095_82743_L_0									
90 D	32.47	-3.7330E-04	384.5	162.4	384.5	192.3	UL-RL	6.1746E+04	-17.80	0.000	1.000	1.000
162.4	0.000	0.000	Strato2_3095_82743_L_0									
91 D	16.39	-3.8064E-04	388.2	163.9	388.2	194.1	UL-RL	6.1746E+04	-18.00	0.000	1.000	1.000
163.9	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1MIR1_3484                                                                                       |
|          Exe Time :29 July 2019  18:00:08                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 2

Q_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 3.0000

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 FACTOR	UFACTOR
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E2 CL GA 2701 002	Rev. A	Foglio 535 di 1221							
42 D	17.86	9.4245E-04	89.30	89.28	155.8	89.28	V-C	5049.	-8.200	0.000	1.000	1.000
89.28	0.000	0.000	Strato1_2_8_L_0									
43 D	18.16	8.4107E-04	93.10	90.78	159.6	90.78	V-C	5049.	-8.400	0.000	1.000	1.000
90.78	0.000	0.000	Strato1_2_8_L_0									
44 D	18.46	7.4883E-04	96.90	92.32	163.4	92.32	V-C	5049.	-8.600	0.000	1.000	1.000
92.32	0.000	0.000	Strato1_2_8_L_0									
45 D	18.78	6.6532E-04	100.7	93.90	167.2	93.90	V-C	5049.	-8.800	0.000	1.000	1.000
93.90	0.000	0.000	Strato1_2_8_L_0									
46 D	19.10	5.9014E-04	104.5	95.52	171.0	95.52	V-C	5049.	-9.000	0.000	1.000	1.000
95.52	0.000	0.000	Strato1_2_8_L_0									
47 D	19.44	5.2285E-04	108.3	97.18	174.8	97.18	V-C	5049.	-9.200	0.000	1.000	1.000
97.18	0.000	0.000	Strato1_2_8_L_0									
48 D	19.78	4.6300E-04	112.1	98.88	178.6	98.88	V-C	5049.	-9.400	0.000	1.000	1.000
98.88	0.000	0.000	Strato1_2_8_L_0									
49 D	20.12	4.1016E-04	115.9	100.6	182.4	100.6	V-C	5049.	-9.600	0.000	1.000	1.000
100.6	0.000	0.000	Strato1_2_8_L_0									
50 D	20.42	3.6387E-04	119.7	102.1	186.2	102.5	UL-RL	1.5147E+04	-9.800	0.000	1.000	1.000
102.1	0.000	0.000	Strato1_2_8_L_0									
51 D	20.70	3.2370E-04	123.5	103.5	190.0	104.5	UL-RL	1.5147E+04	-10.00	0.000	1.000	1.000
103.5	0.000	0.000	Strato1_2_8_L_0									
52 D	21.01	2.8919E-04	127.3	105.0	193.8	106.4	UL-RL	1.5147E+04	-10.20	0.000	1.000	1.000
105.0	0.000	0.000	Strato1_2_8_L_0									
53 D	21.33	2.5991E-04	131.1	106.6	197.6	108.4	UL-RL	1.5147E+04	-10.40	0.000	1.000	1.000
106.6	0.000	0.000	Strato1_2_8_L_0									
54 D	21.67	2.3544E-04	134.9	108.3	201.4	110.3	UL-RL	1.5147E+04	-10.60	0.000	1.000	1.000
108.3	0.000	0.000	Strato1_2_8_L_0									
55 D	22.02	2.1536E-04	138.7	110.1	205.2	112.3	UL-RL	1.5147E+04	-10.80	0.000	1.000	1.000
110.1	0.000	0.000	Strato1_2_8_L_0									
56 D	22.38	1.9928E-04	142.5	111.9	209.0	114.2	UL-RL	1.5147E+04	-11.00	0.000	1.000	1.000
111.9	0.000	0.000	Strato1_2_8_L_0									
57 D	22.75	1.8680E-04	146.3	113.8	212.8	116.2	UL-RL	1.5147E+04	-11.20	0.000	1.000	1.000
113.8	0.000	0.000	Strato1_2_8_L_0									
58 D	23.14	1.7756E-04	150.1	115.7	216.6	118.1	UL-RL	1.5147E+04	-11.40	0.000	1.000	1.000
115.7	0.000	0.000	Strato1_2_8_L_0									
59 D	23.53	1.7121E-04	153.9	117.7	220.4	120.0	UL-RL	1.5147E+04	-11.60	0.000	1.000	1.000
117.7	0.000	0.000	Strato1_2_8_L_0									
60 D	23.93	1.6742E-04	157.7	119.6	224.2	121.9	UL-RL	1.5147E+04	-11.80	0.000	1.000	1.000
119.6	0.000	0.000	Strato1_2_8_L_0									
61 D	24.32	1.6588E-04	161.5	121.6	228.0	123.9	UL-RL	1.5147E+04	-12.00	0.000	1.000	1.000
121.6	0.000	0.000	Strato1_2_8_L_0									
62 D	24.71	1.6630E-04	165.3	123.6	231.8	125.9	UL-RL	1.5147E+04	-12.20	0.000	1.000	1.000
123.6	0.000	0.000	Strato1_2_8_L_0									
63 D	25.11	1.6840E-04	169.1	125.5	235.6	127.8	UL-RL	1.5147E+04	-12.40	0.000	1.000	1.000
125.5	0.000	0.000	Strato1_2_8_L_0									
64 D	25.51	1.7195E-04	172.9	127.6	239.4	129.8	UL-RL	1.5147E+04	-12.60	0.000	1.000	1.000
127.6	0.000	0.000	Strato1_2_8_L_0									
65 D	25.92	1.7670E-04	176.7	129.6	243.2	131.8	UL-RL	1.5147E+04	-12.80	0.000	1.000	1.000
129.6	0.000	0.000	Strato1_2_8_L_0									
66 D	26.33	1.8246E-04	180.5	131.6	247.0	133.7	UL-RL	1.5147E+04	-13.00	0.000	1.000	1.000
131.6	0.000	0.000	Strato1_2_8_L_0									
67 D	22.20	1.8905E-04	184.4	111.0	250.9	130.8	UL-RL	3.3465E+04	-13.20	0.000	1.000	1.000
111.0	0.000	0.000	Strato2_3095_82743_L_0									
68 D	22.68	1.9629E-04	188.4	113.4	254.9	132.5	UL-RL	3.3465E+04	-13.40	0.000	1.000	1.000
113.4	0.000	0.000	Strato2_3095_82743_L_0									
69 D	23.15	2.0405E-04	192.4	115.8	258.9	134.3	UL-RL	3.3465E+04	-13.60	0.000	1.000	1.000
115.8	0.000	0.000	Strato2_3095_82743_L_0									
70 D	23.64	2.1220E-04	196.4	118.2	262.9	136.1	UL-RL	3.3465E+04	-13.80	0.000	1.000	1.000
118.2	0.000	0.000	Strato2_3095_82743_L_0									
71 D	24.12	2.2063E-04	200.4	120.6	266.9	137.9	UL-RL	3.3465E+04	-14.00	0.000	1.000	1.000
120.6	0.000	0.000	Strato2_3095_82743_L_0									
72 D	24.60	2.2924E-04	204.4	123.0	270.9	139.8	UL-RL	3.3465E+04	-14.20	0.000	1.000	1.000
123.0	0.000	0.000	Strato2_3095_82743_L_0									
73 D	25.08	2.3794E-04	208.4	125.4	274.9	141.6	UL-RL	3.3465E+04	-14.40	0.000	1.000	1.000
125.4	0.000	0.000	Strato2_3095_82743_L_0									
74 D	25.56	2.4668E-04	212.4	127.8	278.9	143.4	UL-RL	3.3465E+04	-14.60	0.000	1.000	1.000
127.8	0.000	0.000	Strato2_3095_82743_L_0									
75 D	26.04	2.5540E-04	216.4	130.2	282.9	145.3	UL-RL	3.3465E+04	-14.80	0.000	1.000	1.000
130.2	0.000	0.000	Strato2_3095_82743_L_0									
76 D	26.51	2.6405E-04	220.4	132.6	286.9	147.1	UL-RL	3.3465E+04	-15.00	0.000	1.000	1.000
132.6	0.000	0.000	Strato2_3095_82743_L_0									
77 D	26.99	2.7260E-04	224.4	134.9	290.9	149.0	UL-RL	3.3465E+04	-15.20	0.000	1.000	1.000
134.9	0.000	0.000	Strato2_3095_82743_L_0									
78 D	27.46	2.8103E-04	228.4	137.3	294.9	150.9	UL-RL	3.3465E+04	-15.40	0.000	1.000	1.000
137.3	0.000	0.000	Strato2_3095_82743_L_0									
79 D	27.93	2.8933E-04	232.4	139.6	298.9	152.8	UL-RL	3.3465E+04	-15.60	0.000	1.000	1.000
139.6	0.000	0.000	Strato2_3095_82743_L_0									
80 D	28.40	2.9748E-04	236.4	142.0	302.9	154.7	UL-RL	3.3465E+04	-15.80	0.000	1.000	1.000
142.0	0.000	0.000	Strato2_3095_82743_L_0									
81 D	28.86	3.0550E-04	240.4	144.3	306.9	156.6	UL-RL	3.3465E+04	-16.00	0.000	1.000	1.000
144.3	0.000	0.000	Strato2_3095_82743_L_0									
82 D	29.33	3.1338E-04	244.4	146.6	310.9	158.5	UL-RL	3.3465E+04	-16.20	0.000	1.000	1.000
146.6	0.000	0.000	Strato2_3095_82743_L_0									
83 D	29.79	3.2113E-04	248.4	149.0	314.9	160.5	UL-RL	3.3465E+04	-16.40	0.000	1.000	1.000
149.0	0.000	0.000	Strato2_3095_82743_L_0									
84 D	30.25	3.2878E-04	252.4	151.3	318.9	162.4	UL-RL	3.3465E+04	-16.60	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 536 di 1221
151.3	0.000	0.000	Strato2_3095_82743_L_0		
85 D	30.71	3.3633E-04	256.4 153.6	322.9	164.3
153.6	0.000	0.000	Strato2_3095_82743_L_0		
86 D	31.17	3.4381E-04	260.4 155.9	326.9	166.3
155.9	0.000	0.000	Strato2_3095_82743_L_0		
87 D	31.63	3.5123E-04	264.4 158.2	330.9	168.2
158.2	0.000	0.000	Strato2_3095_82743_L_0		
88 D	32.09	3.5861E-04	268.4 160.5	334.9	170.1
160.5	0.000	0.000	Strato2_3095_82743_L_0		
89 D	32.55	3.6596E-04	272.4 162.7	338.9	172.1
162.7	0.000	0.000	Strato2_3095_82743_L_0		
90 D	33.01	3.7330E-04	276.4 165.0	342.9	174.0
165.0	0.000	0.000	Strato2_3095_82743_L_0		
91 D	16.73	3.8064E-04	280.4 167.3	346.9	175.9
167.3	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1M1R1_3484                                                                                   |
|          Exe Time :29 July 2019          18:00:08                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.35082	-0.35082	-3.94280E-11	7.01632E-02
2	1.0585	-1.0585	-7.01632E-02	0.28187
3	3.0278	-3.0278	-0.28187	0.88744
4	5.0955	-5.0955	-0.88744	1.9065
5	7.9121	-7.9121	-1.9065	3.4890
6	10.820	-10.820	-3.4890	5.6529
7	14.283	-14.283	-5.6529	8.5095
8	17.853	-17.853	-8.5095	12.080
9	21.840	-21.840	-12.080	16.448
10	25.955	-25.955	-16.448	21.639
11	30.485	-30.485	-21.639	27.736
12	35.154	-35.154	-27.736	34.767
13	40.204	-40.204	-34.767	42.808
14	45.401	-45.401	-42.808	51.888
15	50.955	-50.955	-51.888	62.079
16	56.639	-56.639	-62.079	73.406
17	62.664	-62.664	-73.406	85.939
18	68.852	-68.852	-85.939	99.710
19	73.833	-73.833	-99.710	114.48
20	75.911	-75.911	-114.48	129.66
21	75.234	-75.234	-129.66	144.71
22	71.660	-71.660	-144.71	159.04
23	65.323	-65.323	-159.04	172.10
24	58.716	-58.716	-172.10	183.84
25	52.296	-52.296	-183.84	194.30
26	45.937	-45.937	-194.30	203.49
27	39.741	-39.741	-203.49	211.44
28	33.589	-33.589	-211.44	218.16
29	27.577	-27.577	-218.16	223.67
30	21.590	-21.590	-223.67	227.99
31	15.703	-15.703	-227.99	231.13
32	9.8238	-9.8238	-231.13	233.10
33	4.0332	-4.0332	-233.10	233.90
34	-1.7704	1.7704	-233.90	233.55
35	-7.5106	7.5106	-233.55	232.05
36	-13.284	13.284	-232.05	229.39
37	-19.019	19.019	-229.39	225.59
38	-24.668	24.668	-225.59	220.65
39	-29.497	29.497	-220.65	214.75
40	-33.677	33.677	-214.75	208.02
41	-37.132	37.132	-208.02	200.59
42	-40.040	40.040	-200.59	192.58
43	-42.328	42.328	-192.58	184.12
44	-44.163	44.163	-184.12	175.29
45	-45.474	45.474	-175.29	166.19
46	-46.433	46.433	-166.19	156.90
47	-46.954	46.954	-156.90	147.51

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 537 di 1221
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48	-47.185	47.185	-147.51	138.08
49	-47.079	47.079	-138.08	128.66
50	-46.666	46.666	-128.66	119.33
51	-45.886	45.886	-119.33	110.15
52	-44.880	44.880	-110.15	101.17
53	-43.588	43.588	-101.17	92.456
54	-42.153	42.153	-92.456	84.026
55	-40.498	40.498	-84.026	75.926
56	-38.745	38.745	-75.926	68.177
57	-36.826	36.826	-68.177	60.812
58	-34.855	34.855	-60.812	53.841
59	-32.763	32.763	-53.841	47.288
60	-30.653	30.653	-47.288	41.158
61	-28.447	28.447	-41.158	35.468
62	-26.231	26.231	-35.468	30.222
63	-23.934	23.934	-30.222	25.436
64	-21.647	21.647	-25.436	21.106
65	-19.298	19.298	-21.106	17.247
66	-16.975	16.975	-17.247	13.852
67	-15.157	15.157	-13.852	10.820
68	-13.421	13.421	-10.820	8.1359
69	-11.719	11.719	-8.1359	5.7921
70	-10.123	10.123	-5.7921	3.7675
71	-8.5710	8.5710	-3.7675	2.0534
72	-7.1414	7.1414	-2.0534	0.62515
73	-5.7724	5.7724	-0.62515	-0.52932
74	-4.5369	4.5369	0.52932	-1.4367
75	-3.3731	3.3731	1.4367	-2.1113
76	-2.3587	2.3587	2.1113	-2.5831
77	-1.4227	1.4227	2.5831	-2.8676
78	-0.63109	0.63109	2.8676	-2.9938
79	7.79777E-02	-7.79777E-02	2.9938	-2.9782
80	0.64139	-0.64139	2.9782	-2.8500
81	1.1202	-1.1202	2.8500	-2.6259
82	1.5132	-1.5132	2.6259	-2.3233
83	1.7611	-1.7611	2.3233	-1.9711
84	1.9147	-1.9147	1.9711	-1.5881
85	1.9244	-1.9244	1.5881	-1.2032
86	1.8479	-1.8479	1.2032	-0.83364
87	1.6286	-1.6286	0.83364	-0.50793
88	1.3229	-1.3229	0.50793	-0.24335
89	0.87546	-0.87546	0.24335	-6.82552E-02
90	0.34128	-0.34128	6.82552E-02	5.70266E-13

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  18:00:08  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  18:00:08  |
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 3.0000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
538 di 1221

POST-TENSION 2D-BOUNDARY ELEMENT

EL FORCE d0 EDISPL pl. eps K -ve limit +ve limit

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

ITER      0 RNORM = 0.000      RMNORM= 0.000
RINORM=0.2970E+06 RIMNOR=0.2577E+07
RENORM=0.1852E+05 REMNOR=0.1829E-18 RATIO =0.2497      TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 136.1      RMMAX = 233.9
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT      =0.2970E+06 RDR      =0.2577E+07
RATIOT=0.2497      RATIO= 0.000
MAX UN=0.2656E-01 IEQ= 97 NODE      49 DOF 1 Y-DISPL.F
MIN UN=-136.1      IEQ= 31 NODE      16 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      2 RNORM = 0.000      RMNORM= 0.000
RINORM=0.2970E+06 RIMNOR=0.2577E+07
RENORM= 22.17      REMNOR=0.1465E-18 RATIO =0.8639E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 136.1      RMMAX = 233.9
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT      =0.2970E+06 RDR      =0.2577E+07
RATIOT=0.8639E-02 RATIO= 0.000
MAX UN=0.1185E-08 IEQ= 29 NODE      15 DOF 1 Y-DISPL.F
MIN UN=-2.430      IEQ= 3 NODE      2 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      3 RNORM = 0.000      RMNORM= 0.000
RINORM=0.2970E+06 RIMNOR=0.2577E+07
RENORM=0.4902      REMNOR=0.1603E-18 RATIO =0.1285E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 136.1      RMMAX = 233.9
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT      =0.2970E+06 RDR      =0.2577E+07
RATIOT=0.1285E-02 RATIO= 0.000
MAX UN=0.4440E-01 IEQ= 97 NODE      49 DOF 1 Y-DISPL.F
MIN UN=-.5716      IEQ= 29 NODE      15 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

```

```

ITER      4 RNORM = 0.000      RMNORM= 0.000
RINORM=0.2970E+06 RIMNOR=0.2577E+07
RENORM=0.2880E-16 REMNOR=0.1680E-18 RATIO =0.9847E-11 TOLER =0.1000E-03 CONVERGED !
RFMAX = 136.1      RMMAX = 233.9
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT      =0.2970E+06 RDR      =0.2577E+07
RATIOT=0.9847E-11 RATIO= 0.000
MAX UN=0.1796E-08 IEQ= 43 NODE      22 DOF 1 Y-DISPL.F
MIN UN=-.2389E-08 IEQ= 17 NODE      9 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1r1_3484 |
|          Exe Time :29 July 2019      18:00:08      |
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New Project
SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 4 (AT TIME 4.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	1.0718516E-02	-1.6133229E-03	
2	1.0395854E-02	-1.6132836E-03	
3	1.0073213E-02	-1.6130875E-03	
4	9.7506430E-03	-1.6125346E-03	
5	9.4282396E-03	-1.6113785E-03	
6	9.1061502E-03	-1.6093442E-03	
7	8.7845807E-03	-1.6061288E-03	
8	8.4637990E-03	-1.6014082E-03	
9	8.1441408E-03	-1.5948367E-03	
10	7.8260119E-03	-1.5860516E-03	
11	7.5098930E-03	-1.5746731E-03	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 539 di 1221
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12	7.1963421E-03	-1.5603040E-03
13	6.8859985E-03	-1.5425293E-03
14	6.5795861E-03	-1.5209180E-03
15	6.2779169E-03	-1.4950227E-03
16	5.9818935E-03	-1.4643805E-03
17	5.6922976E-03	-1.4317449E-03
18	5.4091458E-03	-1.3998558E-03
19	5.1323391E-03	-1.3682096E-03
20	4.8618795E-03	-1.3363005E-03
21	4.5978673E-03	-1.3036649E-03
22	4.3404851E-03	-1.2699552E-03
23	4.0899698E-03	-1.2349765E-03
24	3.8465831E-03	-1.1986872E-03
25	3.6105803E-03	-1.1611352E-03
26	3.3822086E-03	-1.1223896E-03
27	3.1616987E-03	-1.0825311E-03
28	2.9492641E-03	-1.0416527E-03
29	2.7450996E-03	-9.9985970E-04
30	2.5493745E-03	-9.5726869E-04
31	2.3622367E-03	-9.1400885E-04
32	2.1838061E-03	-8.7022118E-04
33	2.0141732E-03	-8.2605849E-04
34	1.8533968E-03	-7.8168488E-04
35	1.7015024E-03	-7.3727571E-04
36	1.5584773E-03	-6.9301654E-04
37	1.4242727E-03	-6.4910413E-04
38	1.2987987E-03	-6.0574540E-04
39	1.1819234E-03	-5.6315406E-04
40	1.0734730E-03	-5.2153150E-04
41	9.7323511E-04	-4.8105190E-04
42	8.8096610E-04	-4.4186499E-04
43	7.9639452E-04	-4.0409698E-04
44	7.1922573E-04	-3.6785257E-04
45	6.4914659E-04	-3.3321676E-04
46	5.8582622E-04	-3.0025505E-04
47	5.2892788E-04	-2.6901958E-04
48	4.7810102E-04	-2.3954468E-04
49	4.3299148E-04	-2.1185100E-04
50	3.9324164E-04	-1.8594546E-04
51	3.5849441E-04	-1.6182325E-04
52	3.2839445E-04	-1.3946715E-04
53	3.0259160E-04	-1.1884799E-04
54	2.8074215E-04	-9.9925459E-05
55	2.6251159E-04	-8.2650275E-05
56	2.4757602E-04	-6.6965308E-05
57	2.3562373E-04	-5.2806391E-05
58	2.2635640E-04	-4.0103398E-05
59	2.1949033E-04	-2.8781127E-05
60	2.1475720E-04	-1.8760177E-05
61	2.1190503E-04	-9.9575699E-06
62	2.1069869E-04	-2.2872189E-06
63	2.1092060E-04	4.3399744E-06
64	2.1237126E-04	1.0015890E-05
65	2.1486982E-04	1.4834795E-05
66	2.1825446E-04	1.8892942E-05
67	2.2238281E-04	2.2288254E-05
68	2.2713070E-04	2.5097697E-05
69	2.3238652E-04	2.7376628E-05
70	2.3804964E-04	2.9179901E-05
71	2.4403036E-04	3.0561331E-05
72	2.5024955E-04	3.1573392E-05
73	2.5663815E-04	3.2266757E-05
74	2.6313793E-04	3.2689983E-05
75	2.6969919E-04	3.2888967E-05
76	2.7628143E-04	3.2906767E-05
77	2.8285247E-04	3.2783101E-05
78	2.8938765E-04	3.2554108E-05
79	2.9586926E-04	3.2252392E-05
80	3.0228569E-04	3.1906845E-05
81	3.0863075E-04	3.1542549E-05
82	3.1490287E-04	3.1180659E-05
83	3.2110441E-04	3.0839766E-05
84	3.2724114E-04	3.0534408E-05
85	3.3332153E-04	3.0274812E-05
86	3.3935482E-04	3.0066937E-05
87	3.4535187E-04	2.9912557E-05
88	3.5132325E-04	2.9809316E-05
89	3.5727857E-04	2.9750700E-05
90	3.6322580E-04	2.9726049E-05
91	3.6917027E-04	2.9720541E-05

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 540 di 1221
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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1MIR1_3484
|          Exe Time :29 July 2019      18:00:08
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New Project

STRESS RESULTS FOR GROUP NO. 1

O_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peg	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	1.658	-1.0719E-02	11.54	16.58	11.54	16.58	V-C	7276.	0.000	0.000	1.000	1.000
16.58	0.000	0.000	Stratol_2_8_L_0									
2 D	3.287	-1.0396E-02	11.64	16.44	11.64	16.44	V-C	7276.	-0.2000	0.000	1.000	1.000
16.44	0.000	0.000	Stratol_2_8_L_0									
3 D	5.137	-1.0073E-02	32.39	25.69	32.39	25.69	V-C	7276.	-0.4000	0.000	1.000	1.000
25.69	0.000	0.000	Stratol_2_8_L_0									
4 D	5.248	-9.7506E-03	34.01	26.24	34.01	26.24	V-C	7276.	-0.6000	0.000	1.000	1.000
26.24	0.000	0.000	Stratol_2_8_L_0									
5 D	6.331	-9.4282E-03	46.33	31.65	46.33	31.65	V-C	7276.	-0.8000	0.000	1.000	1.000
31.65	0.000	0.000	Stratol_2_8_L_0									
6 D	6.429	-9.1062E-03	47.82	32.15	47.82	32.15	V-C	7276.	-1.000	0.000	1.000	1.000
32.15	0.000	0.000	Stratol_2_8_L_0									
7 D	7.223	-8.7846E-03	56.96	36.11	56.96	36.11	V-C	7276.	-1.200	0.000	1.000	1.000
36.11	0.000	0.000	Stratol_2_8_L_0									
8 D	7.343	-8.4638E-03	58.71	36.72	58.71	36.72	V-C	7276.	-1.400	0.000	1.000	1.000
36.72	0.000	0.000	Stratol_2_8_L_0									
9 D	7.928	-8.1441E-03	65.58	39.64	65.58	39.64	V-C	7276.	-1.600	0.000	1.000	1.000
39.64	0.000	0.000	Stratol_2_8_L_0									
10 D	8.077	-7.8260E-03	67.67	40.38	67.67	40.38	V-C	7276.	-1.800	0.000	1.000	1.000
40.38	0.000	0.000	Stratol_2_8_L_0									
11 D	8.656	-7.5099E-03	74.52	43.28	74.52	43.28	V-C	7276.	-2.000	0.000	1.000	1.000
43.28	0.000	0.000	Stratol_2_8_L_0									
12 D	8.817	-7.1963E-03	76.79	44.09	76.79	44.09	V-C	7276.	-2.200	0.000	1.000	1.000
44.09	0.000	0.000	Stratol_2_8_L_0									
13 D	9.340	-6.8860E-03	83.06	46.70	83.06	46.70	V-C	7276.	-2.400	0.000	1.000	1.000
46.70	0.000	0.000	Stratol_2_8_L_0									
14 D	9.509	-6.5796E-03	85.48	47.55	85.48	47.55	V-C	7276.	-2.600	0.000	1.000	1.000
47.55	0.000	0.000	Stratol_2_8_L_0									
15 D	9.988	-6.2779E-03	91.36	49.94	91.36	49.94	V-C	7276.	-2.800	0.000	1.000	1.000
49.94	0.000	0.000	Stratol_2_8_L_0									
16 D	10.12	-5.9819E-03	93.48	50.61	93.48	50.61	V-C	7276.	-3.000	0.000	1.000	1.000
50.61	0.000	0.000	Stratol_2_8_L_0									
17 D	10.57	-5.6923E-03	99.09	52.84	99.09	52.84	V-C	7276.	-3.200	0.000	1.000	1.000
52.84	0.000	0.000	Stratol_2_8_L_0									
18 D	10.65	-5.4091E-03	101.8	53.25	101.8	53.95	UL-RL	2.1827E+04	-3.400	0.000	1.000	1.000
53.25	0.000	0.000	Stratol_2_8_L_0									
19 D	10.76	-5.1323E-03	107.2	53.81	107.2	56.80	UL-RL	2.1827E+04	-3.600	0.000	1.000	1.000
53.81	0.000	0.000	Stratol_2_8_L_0									
20 D	10.71	-4.8619E-03	109.9	53.53	109.9	58.27	UL-RL	2.1827E+04	-3.800	0.000	1.000	1.000
53.53	0.000	0.000	Stratol_2_8_L_0									
21 D	10.79	-4.5979E-03	115.2	53.97	115.2	61.03	UL-RL	2.1827E+04	-4.000	0.000	1.000	1.000
53.97	0.000	0.000	Stratol_2_8_L_0									
22 D	10.74	-4.3405E-03	118.0	53.69	118.0	62.54	UL-RL	2.1827E+04	-4.200	0.000	1.000	1.000
53.69	0.000	0.000	Stratol_2_8_L_0									
23 D	10.81	-4.0900E-03	123.1	54.07	123.1	65.23	UL-RL	2.1827E+04	-4.400	0.000	1.000	1.000
54.07	0.000	0.000	Stratol_2_8_L_0									
24 D	10.75	-3.8466E-03	125.7	53.73	125.7	66.63	UL-RL	2.1827E+04	-4.600	0.000	1.000	1.000
53.73	0.000	0.000	Stratol_2_8_L_0									
25 D	10.82	-3.6106E-03	130.7	54.11	130.7	69.26	UL-RL	2.1827E+04	-4.800	0.000	1.000	1.000
54.11	0.000	0.000	Stratol_2_8_L_0									
26 D	10.78	-3.3822E-03	133.7	53.92	133.7	70.84	UL-RL	2.1827E+04	-5.000	0.000	1.000	1.000
53.92	0.000	0.000	Stratol_2_8_L_0									
27 D	10.87	-3.1617E-03	138.5	54.33	138.5	73.42	UL-RL	2.1827E+04	-5.200	0.000	1.000	1.000
54.33	0.000	0.000	Stratol_2_8_L_0									
28 D	10.84	-2.9493E-03	141.6	54.21	141.6	75.03	UL-RL	2.1827E+04	-5.400	0.000	1.000	1.000
54.21	0.000	0.000	Stratol_2_8_L_0									
29 D	10.93	-2.7451E-03	146.3	54.66	146.3	77.56	UL-RL	2.1827E+04	-5.600	0.000	1.000	1.000
54.66	0.000	0.000	Stratol_2_8_L_0									
30 D	10.93	-2.5494E-03	149.4	54.64	149.4	79.20	UL-RL	2.1827E+04	-5.800	0.000	1.000	1.000
54.64	0.000	0.000	Stratol_2_8_L_0									
31 D	11.02	-2.3622E-03	153.9	55.09	153.9	81.58	UL-RL	2.1827E+04	-6.000	0.000	1.000	1.000
55.09	0.000	0.000	Stratol_2_8_L_0									
32 D	11.03	-2.1838E-03	157.0	55.17	157.0	83.23	UL-RL	2.1827E+04	-6.200	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.				Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 541 di 1221		
55.17	0.000	0.000	Strato1_2_8_L_0							
33 D	11.15	-2.0142E-03	161.7 55.77	161.7	85.70	UL-RL 2.1827E+04	-6.400	0.000	1.000	1.000
55.77	0.000	0.000	Strato1_2_8_L_0							
34 D	11.19	-1.8534E-03	164.9 55.95	164.9	87.37	UL-RL 2.1827E+04	-6.600	0.000	1.000	1.000
55.95	0.000	0.000	Strato1_2_8_L_0							
35 D	11.33	-1.7015E-03	169.5 56.63	169.5	89.81	UL-RL 2.1827E+04	-6.800	0.000	1.000	1.000
56.63	0.000	0.000	Strato1_2_8_L_0							
36 D	11.38	-1.5585E-03	172.6 56.92	172.6	91.50	UL-RL 2.1827E+04	-7.000	0.000	1.000	1.000
56.92	0.000	0.000	Strato1_2_8_L_0							
37 D	11.54	-1.4243E-03	177.2 57.68	177.2	93.92	UL-RL 2.1827E+04	-7.200	0.000	1.000	1.000
57.68	0.000	0.000	Strato1_2_8_L_0							
38 D	11.75	-1.2988E-03	180.4 58.77	180.4	95.62	UL-RL 2.1827E+04	-7.400	0.000	1.000	1.000
58.77	0.000	0.000	Strato1_2_8_L_0							
39 D	12.73	-1.1819E-03	184.8 63.63	184.8	97.92	UL-RL 2.1827E+04	-7.600	0.000	1.000	1.000
63.63	0.000	0.000	Strato1_2_8_L_0							
40 D	13.55	-1.0735E-03	188.0 67.73	188.0	99.64	UL-RL 2.1827E+04	-7.800	0.000	1.000	1.000
67.73	0.000	0.000	Strato1_2_8_L_0							
41 D	14.46	-9.7324E-04	192.5 72.31	192.5	102.0	UL-RL 2.1827E+04	-8.000	0.000	1.000	1.000
72.31	0.000	0.000	Strato1_2_8_L_0							
42 D	15.22	-8.8097E-04	195.8 76.09	195.8	103.7	UL-RL 2.1827E+04	-8.200	0.000	1.000	1.000
76.09	0.000	0.000	Strato1_2_8_L_0							
43 D	16.06	-7.9639E-04	200.2 80.32	200.2	106.1	UL-RL 2.1827E+04	-8.400	0.000	1.000	1.000
80.32	0.000	0.000	Strato1_2_8_L_0							
44 D	16.76	-7.1923E-04	203.5 83.79	203.5	107.8	UL-RL 2.1827E+04	-8.600	0.000	1.000	1.000
83.79	0.000	0.000	Strato1_2_8_L_0							
45 D	17.54	-6.4915E-04	207.9 87.70	207.9	110.2	UL-RL 2.1827E+04	-8.800	0.000	1.000	1.000
87.70	0.000	0.000	Strato1_2_8_L_0							
46 D	18.16	-5.8583E-04	211.1 90.82	211.1	111.9	UL-RL 2.1827E+04	-9.000	0.000	1.000	1.000
90.82	0.000	0.000	Strato1_2_8_L_0							
47 D	18.89	-5.2893E-04	215.4 94.44	215.4	114.2	UL-RL 2.1827E+04	-9.200	0.000	1.000	1.000
94.44	0.000	0.000	Strato1_2_8_L_0							
48 D	19.48	-4.7810E-04	218.8 97.39	218.8	116.0	UL-RL 2.1827E+04	-9.400	0.000	1.000	1.000
97.39	0.000	0.000	Strato1_2_8_L_0							
49 D	20.15	-4.3299E-04	223.1 100.8	223.1	118.3	UL-RL 2.1827E+04	-9.600	0.000	1.000	1.000
100.8	0.000	0.000	Strato1_2_8_L_0							
50 D	20.70	-3.9324E-04	226.5 103.5	226.5	120.0	UL-RL 2.1827E+04	-9.800	0.000	1.000	1.000
103.5	0.000	0.000	Strato1_2_8_L_0							
51 D	21.33	-3.5849E-04	230.8 106.7	230.8	122.3	UL-RL 2.1827E+04	-10.00	0.000	1.000	1.000
106.7	0.000	0.000	Strato1_2_8_L_0							
52 D	21.84	-3.2839E-04	234.2 109.2	234.2	124.1	UL-RL 2.1827E+04	-10.20	0.000	1.000	1.000
109.2	0.000	0.000	Strato1_2_8_L_0							
53 D	22.44	-3.0259E-04	238.5 112.2	238.5	126.4	UL-RL 2.1827E+04	-10.40	0.000	1.000	1.000
112.2	0.000	0.000	Strato1_2_8_L_0							
54 D	22.90	-2.8074E-04	241.8 114.5	241.8	128.1	UL-RL 2.1827E+04	-10.60	0.000	1.000	1.000
114.5	0.000	0.000	Strato1_2_8_L_0							
55 D	23.47	-2.6251E-04	246.1 117.3	246.1	130.4	UL-RL 2.1827E+04	-10.80	0.000	1.000	1.000
117.3	0.000	0.000	Strato1_2_8_L_0							
56 D	23.92	-2.4758E-04	249.5 119.6	249.5	132.2	UL-RL 2.1827E+04	-11.00	0.000	1.000	1.000
119.6	0.000	0.000	Strato1_2_8_L_0							
57 D	24.46	-2.3562E-04	253.7 122.3	253.7	134.5	UL-RL 2.1827E+04	-11.20	0.000	1.000	1.000
122.3	0.000	0.000	Strato1_2_8_L_0							
58 D	24.89	-2.2636E-04	257.1 124.5	257.1	136.3	UL-RL 2.1827E+04	-11.40	0.000	1.000	1.000
124.5	0.000	0.000	Strato1_2_8_L_0							
59 D	25.41	-2.1949E-04	261.4 127.1	261.4	138.5	UL-RL 2.1827E+04	-11.60	0.000	1.000	1.000
127.1	0.000	0.000	Strato1_2_8_L_0							
60 D	25.83	-2.1476E-04	264.8 129.2	264.8	140.4	UL-RL 2.1827E+04	-11.80	0.000	1.000	1.000
129.2	0.000	0.000	Strato1_2_8_L_0							
61 D	26.32	-2.1191E-04	269.0 131.6	269.0	142.5	UL-RL 2.1827E+04	-12.00	0.000	1.000	1.000
131.6	0.000	0.000	Strato1_2_8_L_0							
62 D	26.73	-2.1070E-04	272.4 133.7	272.4	144.4	UL-RL 2.1827E+04	-12.20	0.000	1.000	1.000
133.7	0.000	0.000	Strato1_2_8_L_0							
63 D	27.22	-2.1092E-04	276.6 136.1	276.6	146.6	UL-RL 2.1827E+04	-12.40	0.000	1.000	1.000
136.1	0.000	0.000	Strato1_2_8_L_0							
64 D	27.62	-2.1237E-04	280.1 138.1	280.1	148.4	UL-RL 2.1827E+04	-12.60	0.000	1.000	1.000
138.1	0.000	0.000	Strato1_2_8_L_0							
65 D	28.10	-2.1487E-04	284.3 140.5	284.3	150.7	UL-RL 2.1827E+04	-12.80	0.000	1.000	1.000
140.5	0.000	0.000	Strato1_2_8_L_0							
66 D	28.50	-2.1825E-04	287.7 142.5	287.7	152.5	UL-RL 2.1827E+04	-13.00	0.000	1.000	1.000
142.5	0.000	0.000	Strato1_2_8_L_0							
67 D	23.60	-2.2238E-04	292.0 118.0	292.0	146.0	UL-RL 6.1746E+04	-13.20	0.000	1.000	1.000
118.0	0.000	0.000	Strato2_3095_82743_L_0							
68 D	24.03	-2.2713E-04	295.7 120.1	295.7	147.8	UL-RL 6.1746E+04	-13.40	0.000	1.000	1.000
120.1	0.000	0.000	Strato2_3095_82743_L_0							
69 D	24.51	-2.3239E-04	300.0 122.5	300.0	150.0	UL-RL 6.1746E+04	-13.60	0.000	1.000	1.000
122.5	0.000	0.000	Strato2_3095_82743_L_0							
70 D	24.91	-2.3805E-04	303.7 124.6	303.7	151.8	UL-RL 6.1746E+04	-13.80	0.000	1.000	1.000
124.6	0.000	0.000	Strato2_3095_82743_L_0							
71 D	25.38	-2.4403E-04	308.0 126.9	308.0	154.0	UL-RL 6.1746E+04	-14.00	0.000	1.000	1.000
126.9	0.000	0.000	Strato2_3095_82743_L_0							
72 D	25.77	-2.5025E-04	311.7 128.8	311.7	155.9	UL-RL 6.1746E+04	-14.20	0.000	1.000	1.000
128.8	0.000	0.000	Strato2_3095_82743_L_0							
73 D	26.22	-2.5664E-04	316.1 131.1	316.1	158.0	UL-RL 6.1746E+04	-14.40	0.000	1.000	1.000
131.1	0.000	0.000	Strato2_3095_82743_L_0							
74 D	26.59	-2.6314E-04	319.8 133.0	319.8	159.9	UL-RL 6.1746E+04	-14.60	0.000	1.000	1.000
133.0	0.000	0.000	Strato2_3095_82743_L_0							

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 543 di 1221							
13	0.000	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000	
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	not available									
15	0.000	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000	
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	not available									
17	0.000	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000	
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	not available									
19 D	0.1155	5.1323E-03	1.900	0.5776	68.40	40.16	ACTIVE	0.000	-3.600	0.000	1.000	1.000
0.5776	0.000	0.000	Stratol_2_8_L_0									
20 D	1.816	4.8619E-03	5.700	9.081	72.20	42.18	UL-RL	1.5147E+04	-3.800	0.000	1.000	1.000
9.081	0.000	0.000	Stratol_2_8_L_0									
21 D	5.046	4.5979E-03	9.500	25.23	76.00	44.20	UL-RL	1.5147E+04	-4.000	0.000	1.000	1.000
25.23	0.000	0.000	Stratol_2_8_L_0									
22 D	8.277	4.3405E-03	13.30	41.38	79.80	53.75	UL-RL	1.5147E+04	-4.200	0.000	1.000	1.000
41.38	0.000	0.000	Stratol_2_8_L_0									
23 D	11.51	4.0900E-03	17.10	57.54	83.60	69.10	UL-RL	1.5147E+04	-4.400	0.000	1.000	1.000
57.54	0.000	0.000	Stratol_2_8_L_0									
24 D	12.10	3.8466E-03	20.90	60.49	87.40	71.25	UL-RL	1.5147E+04	-4.600	0.000	1.000	1.000
60.49	0.000	0.000	Stratol_2_8_L_0									
25 D	12.37	3.6106E-03	24.70	61.84	91.20	71.82	UL-RL	1.5147E+04	-4.800	0.000	1.000	1.000
61.84	0.000	0.000	Stratol_2_8_L_0									
26 D	12.64	3.3822E-03	28.50	63.21	95.00	72.43	UL-RL	1.5147E+04	-5.000	0.000	1.000	1.000
63.21	0.000	0.000	Stratol_2_8_L_0									
27 D	12.92	3.1617E-03	32.30	64.61	98.80	73.09	UL-RL	1.5147E+04	-5.200	0.000	1.000	1.000
64.61	0.000	0.000	Stratol_2_8_L_0									
28 D	13.21	2.9493E-03	36.10	66.04	102.6	73.80	UL-RL	1.5147E+04	-5.400	0.000	1.000	1.000
66.04	0.000	0.000	Stratol_2_8_L_0									
29 D	13.50	2.7451E-03	39.90	67.49	106.4	74.55	UL-RL	1.5147E+04	-5.600	0.000	1.000	1.000
67.49	0.000	0.000	Stratol_2_8_L_0									
30 D	13.79	2.5494E-03	43.70	68.97	110.2	75.36	UL-RL	1.5147E+04	-5.800	0.000	1.000	1.000
68.97	0.000	0.000	Stratol_2_8_L_0									
31 D	14.09	2.3622E-03	47.50	70.46	114.0	76.22	UL-RL	1.5147E+04	-6.000	0.000	1.000	1.000
70.46	0.000	0.000	Stratol_2_8_L_0									
32 D	14.40	2.1838E-03	51.30	71.98	117.8	77.14	UL-RL	1.5147E+04	-6.200	0.000	1.000	1.000
71.98	0.000	0.000	Stratol_2_8_L_0									
33 D	14.70	2.0142E-03	55.10	73.52	121.6	78.11	UL-RL	1.5147E+04	-6.400	0.000	1.000	1.000
73.52	0.000	0.000	Stratol_2_8_L_0									
34 D	15.02	1.8534E-03	58.90	75.08	125.4	79.13	UL-RL	1.5147E+04	-6.600	0.000	1.000	1.000
75.08	0.000	0.000	Stratol_2_8_L_0									
35 D	15.33	1.7015E-03	62.70	76.67	129.2	80.22	UL-RL	1.5147E+04	-6.800	0.000	1.000	1.000
76.67	0.000	0.000	Stratol_2_8_L_0									
36 D	15.65	1.5585E-03	66.50	78.27	133.0	81.35	UL-RL	1.5147E+04	-7.000	0.000	1.000	1.000
78.27	0.000	0.000	Stratol_2_8_L_0									
37 D	15.98	1.4243E-03	70.30	79.90	136.8	82.54	UL-RL	1.5147E+04	-7.200	0.000	1.000	1.000
79.90	0.000	0.000	Stratol_2_8_L_0									
38 D	16.31	1.2988E-03	74.10	81.55	140.6	83.79	UL-RL	1.5147E+04	-7.400	0.000	1.000	1.000
81.55	0.000	0.000	Stratol_2_8_L_0									
39 D	16.64	1.1819E-03	77.90	83.22	144.4	85.09	UL-RL	1.5147E+04	-7.600	0.000	1.000	1.000
83.22	0.000	0.000	Stratol_2_8_L_0									
40 D	16.98	1.0735E-03	81.70	84.91	148.2	86.44	UL-RL	1.5147E+04	-7.800	0.000	1.000	1.000
84.91	0.000	0.000	Stratol_2_8_L_0									
41 D	17.32	9.7324E-04	85.50	86.62	152.0	87.84	UL-RL	1.5147E+04	-8.000	0.000	1.000	1.000
86.62	0.000	0.000	Stratol_2_8_L_0									
42 D	17.67	8.8097E-04	89.30	88.35	155.8	89.28	UL-RL	1.5147E+04	-8.200	0.000	1.000	1.000
88.35	0.000	0.000	Stratol_2_8_L_0									
43 D	18.02	7.9639E-04	93.10	90.10	159.6	90.78	UL-RL	1.5147E+04	-8.400	0.000	1.000	1.000
90.10	0.000	0.000	Stratol_2_8_L_0									
44 D	18.37	7.1923E-04	96.90	91.87	163.4	92.32	UL-RL	1.5147E+04	-8.600	0.000	1.000	1.000
91.87	0.000	0.000	Stratol_2_8_L_0									
45 D	18.73	6.4915E-04	100.7	93.65	167.2	93.90	UL-RL	1.5147E+04	-8.800	0.000	1.000	1.000
93.65	0.000	0.000	Stratol_2_8_L_0									
46 D	19.09	5.8583E-04	104.5	95.46	171.0	95.52	UL-RL	1.5147E+04	-9.000	0.000	1.000	1.000
95.46	0.000	0.000	Stratol_2_8_L_0									
47 D	19.44	5.2893E-04	108.3	97.21	174.8	97.21	V-C	5049.	-9.200	0.000	1.000	1.000
97.21	0.000	0.000	Stratol_2_8_L_0									
48 D	19.79	4.7810E-04	112.1	98.95	178.6	98.95	V-C	5049.	-9.400	0.000	1.000	1.000
98.95	0.000	0.000	Stratol_2_8_L_0									
49 D	20.14	4.3299E-04	115.9	100.7	182.4	100.7	V-C	5049.	-9.600	0.000	1.000	1.000
100.7	0.000	0.000	Stratol_2_8_L_0									
50 D	20.50	3.9324E-04	119.7	102.5	186.2	102.5	V-C	5049.	-9.800	0.000	1.000	1.000
102.5	0.000	0.000	Stratol_2_8_L_0									
51 D	20.81	3.5849E-04	123.5	104.0	190.0	104.5	UL-RL	1.5147E+04	-10.00	0.000	1.000	1.000
104.0	0.000	0.000	Stratol_2_8_L_0									
52 D	21.13	3.2839E-04	127.3	105.6	193.8	106.4	UL-RL	1.5147E+04	-10.20	0.000	1.000	1.000
105.6	0.000	0.000	Stratol_2_8_L_0									
53 D	21.46	3.0259E-04	131.1	107.3	197.6	108.4	UL-RL	1.5147E+04	-10.40	0.000	1.000	1.000
107.3	0.000	0.000	Stratol_2_8_L_0									
54 D	21.80	2.8074E-04	134.9	109.0	201.4	110.3	UL-RL	1.5147E+04	-10.60	0.000	1.000	1.000
109.0	0.000	0.000	Stratol_2_8_L_0									
55 D	22.16	2.6251E-04	138.7	110.8	205.2	112.3	UL-RL	1.5147E+04	-10.80	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 544 di 1221
110.8	0.000	0.000	Strato1_2_8_L_0		
56 D	22.53	2.4758E-04	142.5 112.6	209.0	114.2
112.6	0.000	0.000	Strato1_2_8_L_0		
57 D	22.90	2.3562E-04	146.3 114.5	212.8	116.2
114.5	0.000	0.000	Strato1_2_8_L_0		
58 D	23.29	2.2636E-04	150.1 116.4	216.6	118.1
116.4	0.000	0.000	Strato1_2_8_L_0		
59 D	23.68	2.1949E-04	153.9 118.4	220.4	120.0
118.4	0.000	0.000	Strato1_2_8_L_0		
60 D	24.07	2.1476E-04	157.7 120.4	224.2	121.9
120.4	0.000	0.000	Strato1_2_8_L_0		
61 D	24.46	2.1191E-04	161.5 122.3	228.0	123.9
122.3	0.000	0.000	Strato1_2_8_L_0		
62 D	24.85	2.1070E-04	165.3 124.2	231.8	125.9
124.2	0.000	0.000	Strato1_2_8_L_0		
63 D	25.24	2.1092E-04	169.1 126.2	235.6	127.8
126.2	0.000	0.000	Strato1_2_8_L_0		
64 D	25.64	2.1237E-04	172.9 128.2	239.4	129.8
128.2	0.000	0.000	Strato1_2_8_L_0		
65 D	26.03	2.1487E-04	176.7 130.2	243.2	131.8
130.2	0.000	0.000	Strato1_2_8_L_0		
66 D	26.44	2.1825E-04	180.5 132.2	247.0	133.7
132.2	0.000	0.000	Strato1_2_8_L_0		
67 D	22.42	2.2238E-04	184.4 112.1	250.9	130.8
112.1	0.000	0.000	Strato2_3095_82743_L_0		
68 D	22.88	2.2713E-04	188.4 114.4	254.9	132.5
114.4	0.000	0.000	Strato2_3095_82743_L_0		
69 D	23.34	2.3239E-04	192.4 116.7	258.9	134.3
116.7	0.000	0.000	Strato2_3095_82743_L_0		
70 D	23.81	2.3805E-04	196.4 119.0	262.9	136.1
119.0	0.000	0.000	Strato2_3095_82743_L_0		
71 D	24.27	2.4403E-04	200.4 121.4	266.9	137.9
121.4	0.000	0.000	Strato2_3095_82743_L_0		
72 D	24.74	2.5025E-04	204.4 123.7	270.9	139.8
123.7	0.000	0.000	Strato2_3095_82743_L_0		
73 D	25.20	2.5664E-04	208.4 126.0	274.9	141.6
126.0	0.000	0.000	Strato2_3095_82743_L_0		
74 D	25.67	2.6314E-04	212.4 128.3	278.9	143.4
128.3	0.000	0.000	Strato2_3095_82743_L_0		
75 D	26.13	2.6970E-04	216.4 130.7	282.9	145.3
130.7	0.000	0.000	Strato2_3095_82743_L_0		
76 D	26.59	2.7628E-04	220.4 133.0	286.9	147.1
133.0	0.000	0.000	Strato2_3095_82743_L_0		
77 D	27.05	2.8285E-04	224.4 135.3	290.9	149.0
135.3	0.000	0.000	Strato2_3095_82743_L_0		
78 D	27.51	2.8939E-04	228.4 137.6	294.9	150.9
137.6	0.000	0.000	Strato2_3095_82743_L_0		
79 D	27.97	2.9587E-04	232.4 139.9	298.9	152.8
139.9	0.000	0.000	Strato2_3095_82743_L_0		
80 D	28.43	3.0229E-04	236.4 142.1	302.9	154.7
142.1	0.000	0.000	Strato2_3095_82743_L_0		
81 D	28.88	3.0863E-04	240.4 144.4	306.9	156.6
144.4	0.000	0.000	Strato2_3095_82743_L_0		
82 D	29.34	3.1490E-04	244.4 146.7	310.9	158.5
146.7	0.000	0.000	Strato2_3095_82743_L_0		
83 D	29.79	3.2110E-04	248.4 149.0	314.9	160.5
149.0	0.000	0.000	Strato2_3095_82743_L_0		
84 D	30.24	3.2724E-04	252.4 151.2	318.9	162.4
151.2	0.000	0.000	Strato2_3095_82743_L_0		
85 D	30.69	3.3332E-04	256.4 153.5	322.9	164.3
153.5	0.000	0.000	Strato2_3095_82743_L_0		
86 D	31.14	3.3935E-04	260.4 155.7	326.9	166.3
155.7	0.000	0.000	Strato2_3095_82743_L_0		
87 D	31.59	3.4535E-04	264.4 158.0	330.9	168.2
158.0	0.000	0.000	Strato2_3095_82743_L_0		
88 D	32.04	3.5132E-04	268.4 160.2	334.9	170.1
160.2	0.000	0.000	Strato2_3095_82743_L_0		
89 D	32.49	3.5728E-04	272.4 162.5	338.9	172.1
162.5	0.000	0.000	Strato2_3095_82743_L_0		
90 D	32.94	3.6323E-04	276.4 164.7	342.9	174.0
164.7	0.000	0.000	Strato2_3095_82743_L_0		
91 D	16.69	3.6917E-04	280.4 166.9	346.9	175.9
166.9	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          18:00:08          |
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.

Progetto
INORLotto
12Codifica Documento
E E2 CL GA 2701 002Rev.
AFoglio
545 di 1221

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.6576	-1.6576	3.15836E-11	0.33151
2	4.9450	-4.9450	-0.33151	1.3205
3	10.082	-10.082	-1.3205	3.3370
4	15.330	-15.330	-3.3370	6.4030
5	21.661	-21.661	-6.4030	10.735
6	28.090	-28.090	-10.735	16.353
7	35.312	-35.312	-16.353	23.415
8	42.655	-42.655	-23.415	31.947
9	50.583	-50.583	-31.947	42.063
10	58.660	-58.660	-42.063	53.795
11	67.316	-67.316	-53.795	67.258
12	76.133	-76.133	-67.258	82.485
13	85.473	-85.473	-82.485	99.579
14	94.982	-94.982	-99.579	118.58
15	104.97	-104.97	-118.58	139.57
16	-21.006	21.006	-139.57	135.37
17	-10.439	10.439	-135.37	133.28
18	0.21183	-0.21183	-133.28	133.32
19	10.858	-10.858	-133.32	135.49
20	19.747	-19.747	-135.49	139.44
21	25.496	-25.496	-139.44	144.54
22	27.956	-27.956	-144.54	150.13
23	27.263	-27.263	-150.13	155.59
24	25.912	-25.912	-155.59	160.77
25	24.368	-24.368	-160.77	165.64
26	22.509	-22.509	-165.64	170.15
27	20.451	-20.451	-170.15	174.24
28	18.085	-18.085	-174.24	177.85
29	15.519	-15.519	-177.85	180.96
30	12.654	-12.654	-180.96	183.49
31	9.5795	-9.5795	-183.49	185.40
32	6.2177	-6.2177	-185.40	186.65
33	2.6666	-2.6666	-186.65	187.18
34	-1.1596	1.1596	-187.18	186.95
35	-5.1679	5.1679	-186.95	185.91
36	-9.4386	9.4386	-185.91	184.03
37	-13.884	13.884	-184.03	181.25
38	-18.440	18.440	-181.25	177.56
39	-22.359	22.359	-177.56	173.09
40	-25.795	25.795	-173.09	167.93
41	-28.657	28.657	-167.93	162.20
42	-31.110	31.110	-162.20	155.98
43	-33.067	33.067	-155.98	149.36
44	-34.684	34.684	-149.36	142.43
45	-35.875	35.875	-142.43	135.25
46	-36.803	36.803	-135.25	127.89
47	-37.356	37.356	-127.89	120.42
48	-37.668	37.668	-120.42	112.89
49	-37.658	37.658	-112.89	105.35
50	-37.460	37.460	-105.35	97.863
51	-36.937	36.937	-97.863	90.475
52	-36.222	36.222	-90.475	83.231
53	-35.245	35.245	-83.231	76.182
54	-34.145	34.145	-76.182	69.353
55	-32.839	32.839	-69.353	62.785
56	-31.443	31.443	-62.785	56.497
57	-29.885	29.885	-56.497	50.520
58	-28.275	28.275	-50.520	44.865
59	-26.540	26.540	-44.865	39.557
60	-24.780	24.780	-39.557	34.601
61	-22.914	22.914	-34.601	30.018
62	-21.027	21.027	-30.018	25.813
63	-19.044	19.044	-25.813	22.004
64	-17.056	17.056	-22.004	18.593
65	-14.989	14.989	-18.593	15.595
66	-12.931	12.931	-15.595	13.009
67	-11.747	11.747	-13.009	10.659
68	-10.599	10.599	-10.659	8.5395
69	-9.4367	9.4367	-8.5395	6.6522
70	-8.3324	8.3324	-6.6522	4.9857
71	-7.2263	7.2263	-4.9857	3.5404
72	-6.1969	6.1969	-3.5404	2.3011
73	-5.1839	5.1839	-2.3011	1.2643
74	-4.2618	4.2618	-1.2643	0.41200

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 546 di 1221
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75	-3.3702	3.3702	-0.41200	-0.26204
76	-2.5887	2.5887	0.26204	-0.77978
77	-1.8479	1.8479	0.77978	-1.1494
78	-1.2154	1.2154	1.1494	-1.3924
79	-0.63086	0.63086	1.3924	-1.5186
80	-0.15890	0.15890	1.5186	-1.5504
81	0.26022	-0.26022	1.5504	-1.4984
82	0.62423	-0.62423	1.4984	-1.3735
83	0.87259	-0.87259	1.3735	-1.1990
84	1.0555	-1.0555	1.1990	-0.98787
85	1.1225	-1.1225	0.98787	-0.76337
86	1.1308	-1.1308	0.76337	-0.53721
87	1.0234	-1.0234	0.53721	-0.33254
88	0.85638	-0.85638	0.33254	-0.16127
89	0.57429	-0.57429	0.16127	-4.64073E-02
90	0.23204	-0.23204	4.64073E-02	-5.97244E-13

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.A1M1R1_3484
|          Exe Time :29 July 2019      18:00:08
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

CURRENT TIME IS 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
ANCHOR 1	140.90	-1.07620E-03	-1.07620E-03	0.0000	0.0000	0.0000	0.0000

BORN NOW JUST ACTIVATED

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
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|          NewProject.BaseDesignSection_28.A1M1R1_3484
|          Exe Time :29 July 2019      18:00:08
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

CURRENT TIME IS 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER 0 RNORM = 0.000 RMNORM= 0.000

RINORM=0.2364E+06 RIMNOR=0.1961E+07

RENORM= 8950. REMNOR=0.1680E-18 RATIO =0.1946 TOLER =0.1000E-03 NOT CONVERGED

RFXMAX = 136.1 RMMAX = 187.2

RTSMAL=0.1000E-02 RMSMAL=0.1000E-02

RDT =0.2364E+06 RDR =0.1961E+07

RATIOT=0.1946 RATIO= 0.000

MAX UN=19.79 IEQ= 95 NODE 48 DOF 1 Y-DISPL.F

MIN UN=-.2389E-08 IEQ= 17 NODE 9 DOF 1 Y-DISPL.F

NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000

RINORM=0.2364E+06 RIMNOR=0.1961E+07

RENORM= 1224. REMNOR=0.7453E-18 RATIO =0.7197E-01 TOLER =0.1000E-03 NOT CONVERGED

RFXMAX = 136.1 RMMAX = 187.2

RTSMAL=0.1000E-02 RMSMAL=0.1000E-02

RDT =0.2364E+06 RDR =0.1961E+07

RATIOT=0.7197E-01 RATIO= 0.000

MAX UN= 8.819 IEQ= 73 NODE 37 DOF 1 Y-DISPL.F

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 547 di 1221
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MIN UN=-.2800E-08 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2364E+06 RIMNOR=0.1961E+07
 RENORM= 472.6 REMNOR=0.1909E-17 RATIO =0.4471E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 136.1 RMMAX = 187.2
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.2364E+06 RDR =0.1961E+07
 RATIOT=0.4471E-01 RATIO= 0.000
 MAX UN= 7.545 IEQ= 103 NODE 52 DOF 1 Y-DISPL.F
 MIN UN=-.5119E-08 IEQ= 73 NODE 37 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2364E+06 RIMNOR=0.1961E+07
 RENORM= 71.65 REMNOR=0.6123E-17 RATIO =0.1741E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 136.1 RMMAX = 187.2
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.2364E+06 RDR =0.1961E+07
 RATIOT=0.1741E-01 RATIO= 0.000
 MAX UN= 5.028 IEQ= 139 NODE 70 DOF 1 Y-DISPL.F
 MIN UN=-.9322 IEQ= 179 NODE 90 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2364E+06 RIMNOR=0.1961E+07
 RENORM=0.9927 REMNOR=0.3003E-17 RATIO =0.2049E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 136.1 RMMAX = 187.2
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.2364E+06 RDR =0.1961E+07
 RATIOT=0.2049E-02 RATIO= 0.000
 MAX UN=0.6401 IEQ= 129 NODE 65 DOF 1 Y-DISPL.F
 MIN UN=-.9412E-08 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2364E+06 RIMNOR=0.1961E+07
 RENORM=0.6722E-15 REMNOR=0.3188E-17 RATIO =0.5333E-10 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 136.1 RMMAX = 187.2
 RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
 RDT =0.2364E+06 RDR =0.1961E+07
 RATIOT=0.5333E-10 RATIO= 0.000
 MAX UN=0.8448E-08 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F
 MIN UN=-.8763E-08 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.A1M1R1_3484                                                                                       |
|          Exe Time :29 July 2019  18:00:08                                                                                               |
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New Project
 SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 5 (AT TIME 5.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.3088718E-02	-1.3489618E-03	
2	3.2818926E-02	-1.3489535E-03	
3	3.2549139E-02	-1.3489117E-03	
4	3.2279368E-02	-1.3487729E-03	
5	3.2009643E-02	-1.3484412E-03	
6	3.1740012E-02	-1.3478008E-03	
7	3.1470552E-02	-1.3467156E-03	
8	3.1201366E-02	-1.3450345E-03	
9	3.0932589E-02	-1.3425905E-03	
10	3.0664392E-02	-1.3392042E-03	
11	3.0396983E-02	-1.3346832E-03	
12	3.0130608E-02	-1.3288223E-03	
13	2.9865558E-02	-1.3214031E-03	
14	2.9602166E-02	-1.3121949E-03	
15	2.9340815E-02	-1.3009545E-03	

GENERAL CONTRACTOR

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
548 di 1221

16	2.9081937E-02	-1.2874266E-03
17	2.8825665E-02	-1.2765964E-03
18	2.8570787E-02	-1.2734381E-03
19	2.8315797E-02	-1.2776618E-03
20	2.8059250E-02	-1.2889658E-03
21	2.7799760E-02	-1.3070367E-03
22	2.7536006E-02	-1.3315497E-03
23	2.7266733E-02	-1.3621682E-03
24	2.6990756E-02	-1.3985440E-03
25	2.6706957E-02	-1.4403183E-03
26	2.6414294E-02	-1.4871210E-03
27	2.6111799E-02	-1.5385704E-03
28	2.5798582E-02	-1.5942738E-03
29	2.5473834E-02	-1.6538264E-03
30	2.5136824E-02	-1.7168134E-03
31	2.4786908E-02	-1.7828075E-03
32	2.4423530E-02	-1.8513709E-03
33	2.4046219E-02	-1.9220547E-03
34	2.3654597E-02	-1.9943989E-03
35	2.3248382E-02	-2.0679317E-03
36	2.2827379E-02	-2.1421714E-03
37	2.2391499E-02	-2.2166237E-03
38	2.1940749E-02	-2.2907836E-03
39	2.1475240E-02	-2.3641351E-03
40	2.0995187E-02	-2.4361506E-03
41	2.0500907E-02	-2.5062928E-03
42	1.9992831E-02	-2.5740122E-03
43	1.9471501E-02	-2.6387483E-03
44	1.8937569E-02	-2.6999296E-03
45	1.8391808E-02	-2.7569733E-03
46	1.7835084E-02	-2.8092873E-03
47	1.7268435E-02	-2.8562639E-03
48	1.6692975E-02	-2.8972889E-03
49	1.6109961E-02	-2.9317354E-03
50	1.5520762E-02	-2.9590022E-03
51	1.4926872E-02	-2.9785861E-03
52	1.4329862E-02	-2.9901186E-03
53	1.3731374E-02	-2.9933658E-03
54	1.3133074E-02	-2.9882287E-03
55	1.2536639E-02	-2.9747433E-03
56	1.1943722E-02	-2.9530804E-03
57	1.1355931E-02	-2.9235454E-03
58	1.0774799E-02	-2.8865786E-03
59	1.0201759E-02	-2.8427245E-03
60	9.6381301E-03	-2.7925627E-03
61	9.0851163E-03	-2.7366687E-03
62	8.5438066E-03	-2.6756151E-03
63	8.0151762E-03	-2.6099711E-03
64	7.5000864E-03	-2.5403031E-03
65	6.9992857E-03	-2.4671747E-03
66	6.5134098E-03	-2.3911472E-03
67	6.0429833E-03	-2.3127724E-03
68	5.5884113E-03	-2.2327415E-03
69	5.1499414E-03	-2.1518893E-03
70	4.7276552E-03	-2.0710417E-03
71	4.3214699E-03	-1.9910163E-03
72	3.9311399E-03	-1.9126233E-03
73	3.5562776E-03	-1.8366543E-03
74	3.1962857E-03	-1.7638551E-03
75	2.8504782E-03	-1.6949171E-03
76	2.5180229E-03	-1.6304188E-03
77	2.1979840E-03	-1.5708204E-03
78	1.8893450E-03	-1.5164683E-03
79	1.5910311E-03	-1.4675995E-03
80	1.3019309E-03	-1.4243453E-03
81	1.0209167E-03	-1.3867354E-03
82	7.4686509E-04	-1.3547001E-03
83	4.7867614E-04	-1.3280728E-03
84	2.1529285E-04	-1.3065925E-03
85	-4.4293398E-05	-1.2899062E-03
86	-3.0097283E-04	-1.2775730E-03
87	-5.5557728E-04	-1.2690601E-03
88	-8.0881022E-04	-1.2637475E-03
89	-1.0612424E-03	-1.2609273E-03
90	-1.3132953E-03	-1.2598201E-03
91	-1.5652292E-03	-1.2595939E-03

 | PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |

| NewProject.BaseDesignSection_28.A1M1R1_3484 |

| Exe Time :29 July 2019 18:00:08 |



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 549 di 1221
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New Project

STRESS RESULTS FOR GROUP NO. 1

O_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.3508	-3.3089E-02	11.54	3.508	11.54	16.58	ACTIVE	0.000	0.000	0.000	1.000	1.000
3.508	0.000	0.000	Stratol_2_8_L_0									
2 D	0.7077	-3.2819E-02	11.64	3.539	11.64	16.44	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
3.539	0.000	0.000	Stratol_2_8_L_0									
3 D	1.969	-3.2549E-02	32.39	9.846	32.39	25.69	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
9.846	0.000	0.000	Stratol_2_8_L_0									
4 D	2.068	-3.2279E-02	34.01	10.34	34.01	26.24	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
10.34	0.000	0.000	Stratol_2_8_L_0									
5 D	2.817	-3.2010E-02	46.33	14.08	46.33	31.65	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
14.08	0.000	0.000	Stratol_2_8_L_0									
6 D	2.908	-3.1740E-02	47.82	14.54	47.82	32.15	ACTIVE	0.000	-1.000	0.000	1.000	1.000
14.54	0.000	0.000	Stratol_2_8_L_0									
7 D	3.463	-3.1471E-02	56.96	17.32	56.96	36.11	ACTIVE	0.000	-1.200	0.000	1.000	1.000
17.32	0.000	0.000	Stratol_2_8_L_0									
8 D	3.570	-3.1201E-02	58.71	17.85	58.71	36.72	ACTIVE	0.000	-1.400	0.000	1.000	1.000
17.85	0.000	0.000	Stratol_2_8_L_0									
9 D	3.987	-3.0933E-02	65.58	19.94	65.58	39.64	ACTIVE	0.000	-1.600	0.000	1.000	1.000
19.94	0.000	0.000	Stratol_2_8_L_0									
10 D	4.114	-3.0664E-02	67.67	20.57	67.67	40.38	ACTIVE	0.000	-1.800	0.000	1.000	1.000
20.57	0.000	0.000	Stratol_2_8_L_0									
11 D	4.531	-3.0397E-02	74.52	22.65	74.52	43.28	ACTIVE	0.000	-2.000	0.000	1.000	1.000
22.65	0.000	0.000	Stratol_2_8_L_0									
12 D	4.669	-3.0131E-02	76.79	23.34	76.79	44.09	ACTIVE	0.000	-2.200	0.000	1.000	1.000
23.34	0.000	0.000	Stratol_2_8_L_0									
13 D	5.050	-2.9866E-02	83.06	25.25	83.06	46.70	ACTIVE	0.000	-2.400	0.000	1.000	1.000
25.25	0.000	0.000	Stratol_2_8_L_0									
14 D	5.197	-2.9602E-02	85.48	25.99	85.48	47.55	ACTIVE	0.000	-2.600	0.000	1.000	1.000
25.99	0.000	0.000	Stratol_2_8_L_0									
15 D	5.554	-2.9341E-02	91.36	27.77	91.36	49.94	ACTIVE	0.000	-2.800	0.000	1.000	1.000
27.77	0.000	0.000	Stratol_2_8_L_0									
16 D	5.684	-2.9082E-02	93.48	28.42	93.48	50.61	ACTIVE	0.000	-3.000	0.000	1.000	1.000
28.42	0.000	0.000	Stratol_2_8_L_0									
17 D	6.025	-2.8826E-02	99.09	30.12	99.09	52.84	ACTIVE	0.000	-3.200	0.000	1.000	1.000
30.12	0.000	0.000	Stratol_2_8_L_0									
18 D	6.188	-2.8571E-02	101.8	30.94	101.8	53.95	ACTIVE	0.000	-3.400	0.000	1.000	1.000
30.94	0.000	0.000	Stratol_2_8_L_0									
19 D	6.516	-2.8316E-02	107.2	32.58	107.2	56.80	ACTIVE	0.000	-3.600	0.000	1.000	1.000
32.58	0.000	0.000	Stratol_2_8_L_0									
20 D	6.685	-2.8059E-02	109.9	33.42	109.9	58.27	ACTIVE	0.000	-3.800	0.000	1.000	1.000
33.42	0.000	0.000	Stratol_2_8_L_0									
21 D	7.001	-2.7800E-02	115.2	35.01	115.2	61.03	ACTIVE	0.000	-4.000	0.000	1.000	1.000
35.01	0.000	0.000	Stratol_2_8_L_0									
22 D	7.175	-2.7536E-02	118.0	35.87	118.0	62.54	ACTIVE	0.000	-4.200	0.000	1.000	1.000
35.87	0.000	0.000	Stratol_2_8_L_0									
23 D	7.483	-2.7267E-02	123.1	37.42	123.1	65.23	ACTIVE	0.000	-4.400	0.000	1.000	1.000
37.42	0.000	0.000	Stratol_2_8_L_0									
24 D	7.643	-2.6991E-02	125.7	38.22	125.7	66.63	ACTIVE	0.000	-4.600	0.000	1.000	1.000
38.22	0.000	0.000	Stratol_2_8_L_0									
25 D	7.945	-2.6707E-02	130.7	39.73	130.7	69.26	ACTIVE	0.000	-4.800	0.000	1.000	1.000
39.73	0.000	0.000	Stratol_2_8_L_0									
26 D	8.127	-2.6414E-02	133.7	40.63	133.7	70.84	ACTIVE	0.000	-5.000	0.000	1.000	1.000
40.63	0.000	0.000	Stratol_2_8_L_0									
27 D	8.422	-2.6112E-02	138.5	42.11	138.5	73.42	ACTIVE	0.000	-5.200	0.000	1.000	1.000
42.11	0.000	0.000	Stratol_2_8_L_0									
28 D	8.607	-2.5799E-02	141.6	43.04	141.6	75.03	ACTIVE	0.000	-5.400	0.000	1.000	1.000
43.04	0.000	0.000	Stratol_2_8_L_0									
29 D	8.898	-2.5474E-02	146.3	44.49	146.3	77.56	ACTIVE	0.000	-5.600	0.000	1.000	1.000
44.49	0.000	0.000	Stratol_2_8_L_0									
30 D	9.085	-2.5137E-02	149.4	45.43	149.4	79.20	ACTIVE	0.000	-5.800	0.000	1.000	1.000
45.43	0.000	0.000	Stratol_2_8_L_0									
31 D	9.358	-2.4787E-02	153.9	46.79	153.9	81.58	ACTIVE	0.000	-6.000	0.000	1.000	1.000
46.79	0.000	0.000	Stratol_2_8_L_0									
32 D	9.548	-2.4424E-02	157.0	47.74	157.0	83.23	ACTIVE	0.000	-6.200	0.000	1.000	1.000
47.74	0.000	0.000	Stratol_2_8_L_0									
33 D	9.831	-2.4046E-02	161.7	49.16	161.7	85.70	ACTIVE	0.000	-6.400	0.000	1.000	1.000
49.16	0.000	0.000	Stratol_2_8_L_0									
34 D	10.02	-2.3655E-02	164.9	50.12	164.9	87.37	ACTIVE	0.000	-6.600	0.000	1.000	1.000

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 550 di 1221
50.12	0.000	0.000	Strato1_2_8_L_0				
35 D	10.30	-2.3248E-02	169.5	51.52	169.5	89.81	ACTIVE 0.000 -6.800 0.000 1.000 1.000
51.52	0.000	0.000	Strato1_2_8_L_0				
36 D	10.50	-2.2827E-02	172.6	52.49	172.6	91.50	ACTIVE 0.000 -7.000 0.000 1.000 1.000
52.49	0.000	0.000	Strato1_2_8_L_0				
37 D	10.77	-2.2391E-02	177.2	53.87	177.2	93.92	ACTIVE 0.000 -7.200 0.000 1.000 1.000
53.87	0.000	0.000	Strato1_2_8_L_0				
38 D	10.97	-2.1941E-02	180.4	54.85	180.4	95.62	ACTIVE 0.000 -7.400 0.000 1.000 1.000
54.85	0.000	0.000	Strato1_2_8_L_0				
39 D	11.23	-2.1475E-02	184.8	56.17	184.8	97.92	ACTIVE 0.000 -7.600 0.000 1.000 1.000
56.17	0.000	0.000	Strato1_2_8_L_0				
40 D	11.43	-2.0995E-02	188.0	57.15	188.0	99.64	ACTIVE 0.000 -7.800 0.000 1.000 1.000
57.15	0.000	0.000	Strato1_2_8_L_0				
41 D	11.70	-2.0501E-02	192.5	58.51	192.5	102.0	ACTIVE 0.000 -8.000 0.000 1.000 1.000
58.51	0.000	0.000	Strato1_2_8_L_0				
42 D	11.90	-1.9993E-02	195.8	59.51	195.8	103.7	ACTIVE 0.000 -8.200 0.000 1.000 1.000
59.51	0.000	0.000	Strato1_2_8_L_0				
43 D	12.17	-1.9472E-02	200.2	60.86	200.2	106.1	ACTIVE 0.000 -8.400 0.000 1.000 1.000
60.86	0.000	0.000	Strato1_2_8_L_0				
44 D	12.37	-1.8938E-02	203.5	61.86	203.5	107.8	ACTIVE 0.000 -8.600 0.000 1.000 1.000
61.86	0.000	0.000	Strato1_2_8_L_0				
45 D	12.64	-1.8392E-02	207.9	63.20	207.9	110.2	ACTIVE 0.000 -8.800 0.000 1.000 1.000
63.20	0.000	0.000	Strato1_2_8_L_0				
46 D	12.83	-1.7835E-02	211.1	64.16	211.1	111.9	ACTIVE 0.000 -9.000 0.000 1.000 1.000
64.16	0.000	0.000	Strato1_2_8_L_0				
47 D	13.10	-1.7268E-02	215.4	65.50	215.4	114.2	ACTIVE 0.000 -9.200 0.000 1.000 1.000
65.50	0.000	0.000	Strato1_2_8_L_0				
48 D	13.30	-1.6693E-02	218.8	66.51	218.8	116.0	ACTIVE 0.000 -9.400 0.000 1.000 1.000
66.51	0.000	0.000	Strato1_2_8_L_0				
49 D	13.57	-1.6110E-02	223.1	67.84	223.1	118.3	ACTIVE 0.000 -9.600 0.000 1.000 1.000
67.84	0.000	0.000	Strato1_2_8_L_0				
50 D	13.77	-1.5521E-02	226.5	68.85	226.5	120.0	ACTIVE 0.000 -9.800 0.000 1.000 1.000
68.85	0.000	0.000	Strato1_2_8_L_0				
51 D	14.03	-1.4927E-02	230.8	70.17	230.8	122.3	ACTIVE 0.000 -10.000 0.000 1.000 1.000
70.17	0.000	0.000	Strato1_2_8_L_0				
52 D	14.24	-1.4330E-02	234.2	71.20	234.2	124.1	ACTIVE 0.000 -10.200 0.000 1.000 1.000
71.20	0.000	0.000	Strato1_2_8_L_0				
53 D	14.50	-1.3731E-02	238.5	72.51	238.5	126.4	ACTIVE 0.000 -10.400 0.000 1.000 1.000
72.51	0.000	0.000	Strato1_2_8_L_0				
54 D	14.70	-1.3133E-02	241.8	73.50	241.8	128.1	ACTIVE 0.000 -10.600 0.000 1.000 1.000
73.50	0.000	0.000	Strato1_2_8_L_0				
55 D	14.96	-1.2537E-02	246.1	74.80	246.1	130.4	ACTIVE 0.000 -10.800 0.000 1.000 1.000
74.80	0.000	0.000	Strato1_2_8_L_0				
56 D	15.17	-1.1944E-02	249.5	75.83	249.5	132.2	ACTIVE 0.000 -11.000 0.000 1.000 1.000
75.83	0.000	0.000	Strato1_2_8_L_0				
57 D	15.43	-1.1356E-02	253.7	77.13	253.7	134.5	ACTIVE 0.000 -11.200 0.000 1.000 1.000
77.13	0.000	0.000	Strato1_2_8_L_0				
58 D	15.63	-1.0775E-02	257.1	78.17	257.1	136.3	ACTIVE 0.000 -11.400 0.000 1.000 1.000
78.17	0.000	0.000	Strato1_2_8_L_0				
59 D	15.89	-1.0202E-02	261.4	79.46	261.4	138.5	ACTIVE 0.000 -11.600 0.000 1.000 1.000
79.46	0.000	0.000	Strato1_2_8_L_0				
60 D	16.10	-9.6381E-03	264.8	80.51	264.8	140.4	ACTIVE 0.000 -11.800 0.000 1.000 1.000
80.51	0.000	0.000	Strato1_2_8_L_0				
61 D	16.35	-9.0851E-03	269.0	81.76	269.0	142.5	ACTIVE 0.000 -12.000 0.000 1.000 1.000
81.76	0.000	0.000	Strato1_2_8_L_0				
62 D	16.56	-8.5438E-03	272.4	82.81	272.4	144.4	ACTIVE 0.000 -12.200 0.000 1.000 1.000
82.81	0.000	0.000	Strato1_2_8_L_0				
63 D	16.82	-8.0152E-03	276.6	84.09	276.6	146.6	ACTIVE 0.000 -12.400 0.000 1.000 1.000
84.09	0.000	0.000	Strato1_2_8_L_0				
64 D	17.03	-7.5001E-03	280.1	85.14	280.1	148.4	ACTIVE 0.000 -12.600 0.000 1.000 1.000
85.14	0.000	0.000	Strato1_2_8_L_0				
65 D	17.28	-6.9993E-03	284.3	86.42	284.3	150.7	ACTIVE 0.000 -12.800 0.000 1.000 1.000
86.42	0.000	0.000	Strato1_2_8_L_0				
66 D	17.81	-6.5134E-03	287.7	89.04	287.7	152.5	UL-RL 8488. -13.000 0.000 1.000 1.000
89.04	0.000	0.000	Strato1_2_8_L_0				
67 D	9.847	-6.0430E-03	292.0	49.24	292.0	146.0	ACTIVE 0.000 -13.200 0.000 1.000 1.000
49.24	0.000	0.000	Strato2_3095_82743_L_0				
68 D	10.02	-5.5884E-03	295.7	50.10	295.7	147.8	ACTIVE 0.000 -13.400 0.000 1.000 1.000
50.10	0.000	0.000	Strato2_3095_82743_L_0				
69 D	10.22	-5.1499E-03	300.0	51.11	300.0	150.0	ACTIVE 0.000 -13.600 0.000 1.000 1.000
51.11	0.000	0.000	Strato2_3095_82743_L_0				
70 D	10.39	-4.7277E-03	303.7	51.97	303.7	151.8	ACTIVE 0.000 -13.800 0.000 1.000 1.000
51.97	0.000	0.000	Strato2_3095_82743_L_0				
71 D	10.60	-4.3215E-03	308.0	53.00	308.0	154.0	ACTIVE 0.000 -14.000 0.000 1.000 1.000
53.00	0.000	0.000	Strato2_3095_82743_L_0				
72 D	10.77	-3.9311E-03	311.7	53.86	311.7	155.9	ACTIVE 0.000 -14.200 0.000 1.000 1.000
53.86	0.000	0.000	Strato2_3095_82743_L_0				
73 D	10.98	-3.5563E-03	316.1	54.89	316.1	158.0	ACTIVE 0.000 -14.400 0.000 1.000 1.000
54.89	0.000	0.000	Strato2_3095_82743_L_0				
74 D	12.50	-3.1963E-03	319.8	62.52	319.8	159.9	UL-RL 2.4012E+04 -14.600 0.000 1.000 1.000
62.52	0.000	0.000	Strato2_3095_82743_L_0				
75 D	14.63	-2.8505E-03	324.1	73.15	324.1	162.1	UL-RL 2.4012E+04 -14.800 0.000 1.000 1.000
73.15	0.000	0.000	Strato2_3095_82743_L_0				
76 D	16.61	-2.5180E-03	327.7	83.05	327.7	163.9	UL-RL 2.4012E+04 -15.000 0.000 1.000 1.000
83.05	0.000	0.000	Strato2_3095_82743_L_0				

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ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 552 di 1221							
15	0.000	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000		
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	not available									
17	0.000	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000		
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	not available									
19	0.000	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000		
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	not available									
21	0.000	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
22	0.000	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
23	0.000	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
24	0.000	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
25	0.000	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
26	0.000	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
27	0.000	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
28	0.000	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
29	0.000	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
30	0.000	--	--	--	REMOVED	--	-5.800	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
31	0.000	--	--	--	REMOVED	--	-6.000	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
32	0.000	--	--	--	REMOVED	--	-6.200	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
33	0.000	--	--	--	REMOVED	--	-6.400	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
34	0.000	--	--	--	REMOVED	--	-6.600	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
35	0.000	--	--	--	REMOVED	--	-6.800	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
36	0.000	--	--	--	REMOVED	--	-7.000	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
37	0.000	--	--	--	REMOVED	--	-7.200	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
38	0.000	--	--	--	REMOVED	--	-7.400	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
39	0.000	--	--	--	REMOVED	--	-7.600	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
40	0.000	--	--	--	REMOVED	--	-7.800	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
41	0.000	--	--	--	REMOVED	--	-8.000	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
42	0.000	--	--	--	REMOVED	--	-8.200	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
43	0.000	--	--	--	REMOVED	--	-8.400	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
44	0.000	--	--	--	REMOVED	--	-8.600	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
45	0.000	--	--	--	REMOVED	--	-8.800	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
46	0.000	--	--	--	REMOVED	--	-9.000	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
47	0.000	--	--	--	REMOVED	--	-9.200	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
48	0.000	--	--	--	REMOVED	--	-9.400	0.000	1.000	1.000		
0.000	0.000	0.000	not available									
49 D	1.536	1.6110E-02	1.900	7.678	182.4	100.7	PASSIVE	0.000	-9.600	0.000	1.000	1.000
7.678	0.000	0.000	Strat01_2_8_L_0									
50 D	4.607	1.5521E-02	5.700	23.03	186.2	102.5	PASSIVE	0.000	-9.800	0.000	1.000	1.000
23.03	0.000	0.000	Strat01_2_8_L_0									
51 D	7.678	1.4927E-02	9.500	38.39	190.0	104.5	PASSIVE	0.000	-10.000	0.000	1.000	1.000
38.39	0.000	0.000	Strat01_2_8_L_0									
52 D	10.75	1.4330E-02	13.30	53.75	193.8	106.4	PASSIVE	0.000	-10.200	0.000	1.000	1.000
53.75	0.000	0.000	Strat01_2_8_L_0									
53 D	13.82	1.3731E-02	17.10	69.10	197.6	108.4	PASSIVE	0.000	-10.400	0.000	1.000	1.000
69.10	0.000	0.000	Strat01_2_8_L_0									
54 D	16.89	1.3133E-02	20.90	84.46	201.4	110.3	PASSIVE	0.000	-10.600	0.000	1.000	1.000
84.46	0.000	0.000	Strat01_2_8_L_0									
55 D	19.96	1.2537E-02	24.70	99.81	205.2	112.3	PASSIVE	0.000	-10.800	0.000	1.000	1.000
99.81	0.000	0.000	Strat01_2_8_L_0									
56 D	23.03	1.1944E-02	28.50	115.2	209.0	115.2	PASSIVE	0.000	-11.000	0.000	1.000	1.000
115.2	0.000	0.000	Strat01_2_8_L_0									
57 D	26.10	1.1356E-02	32.30	130.5	212.8	130.5	PASSIVE	0.000	-11.200	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 553 di 1221
130.5	0.000	0.000	Strato1_2_8_L_0		
58 D	27.89	1.0775E-02	36.10 139.5	216.6	139.5
139.5	0.000	0.000	Strato1_2_8_L_0		
59 D	28.04	1.0202E-02	39.90 140.2	220.4	140.2
140.2	0.000	0.000	Strato1_2_8_L_0		
60 D	28.20	9.6381E-03	43.70 141.0	224.2	141.0
141.0	0.000	0.000	Strato1_2_8_L_0		
61 D	28.36	9.0851E-03	47.50 141.8	228.0	141.8
141.8	0.000	0.000	Strato1_2_8_L_0		
62 D	28.53	8.5438E-03	51.30 142.7	231.8	142.7
142.7	0.000	0.000	Strato1_2_8_L_0		
63 D	28.70	8.0152E-03	55.10 143.5	235.6	143.5
143.5	0.000	0.000	Strato1_2_8_L_0		
64 D	28.88	7.5001E-03	58.90 144.4	239.4	144.4
144.4	0.000	0.000	Strato1_2_8_L_0		
65 D	29.07	6.9993E-03	62.70 145.4	243.2	145.4
145.4	0.000	0.000	Strato1_2_8_L_0		
66 D	29.26	6.5134E-03	66.50 146.3	247.0	146.3
146.3	0.000	0.000	Strato1_2_8_L_0		
67 D	27.52	6.0430E-03	70.40 137.6	250.9	137.6
137.6	0.000	0.000	Strato2_3095_82743_L_0		
68 D	27.51	5.5884E-03	74.40 137.5	254.9	137.5
137.5	0.000	0.000	Strato2_3095_82743_L_0		
69 D	27.52	5.1499E-03	78.40 137.6	258.9	137.6
137.6	0.000	0.000	Strato2_3095_82743_L_0		
70 D	27.54	4.7277E-03	82.40 137.7	262.9	137.7
137.7	0.000	0.000	Strato2_3095_82743_L_0		
71 D	27.57	4.3215E-03	86.40 137.8	266.9	137.9
137.8	0.000	0.000	Strato2_3095_82743_L_0		
72 D	27.00	3.9311E-03	90.40 135.0	270.9	139.8
135.0	0.000	0.000	Strato2_3095_82743_L_0		
73 D	26.47	3.5563E-03	94.40 132.4	274.9	141.6
132.4	0.000	0.000	Strato2_3095_82743_L_0		
74 D	25.98	3.1963E-03	98.40 129.9	278.9	143.4
129.9	0.000	0.000	Strato2_3095_82743_L_0		
75 D	25.52	2.8505E-03	102.4 127.6	282.9	145.3
127.6	0.000	0.000	Strato2_3095_82743_L_0		
76 D	25.10	2.5180E-03	106.4 125.5	286.9	147.1
125.5	0.000	0.000	Strato2_3095_82743_L_0		
77 D	24.70	2.1980E-03	110.4 123.5	290.9	149.0
123.5	0.000	0.000	Strato2_3095_82743_L_0		
78 D	24.34	1.8893E-03	114.4 121.7	294.9	150.9
121.7	0.000	0.000	Strato2_3095_82743_L_0		
79 D	24.00	1.5910E-03	118.4 120.0	298.9	152.8
120.0	0.000	0.000	Strato2_3095_82743_L_0		
80 D	23.68	1.3019E-03	122.4 118.4	302.9	154.7
118.4	0.000	0.000	Strato2_3095_82743_L_0		
81 D	23.38	1.0209E-03	126.4 116.9	306.9	156.6
116.9	0.000	0.000	Strato2_3095_82743_L_0		
82 D	23.10	7.4687E-04	130.4 115.5	310.9	158.5
115.5	0.000	0.000	Strato2_3095_82743_L_0		
83 D	22.83	4.7868E-04	134.4 114.1	314.9	160.5
114.1	0.000	0.000	Strato2_3095_82743_L_0		
84 D	22.57	2.1529E-04	138.4 112.9	318.9	162.4
112.9	0.000	0.000	Strato2_3095_82743_L_0		
85 D	22.32	-4.4293E-05	142.4 111.6	322.9	164.3
111.6	0.000	0.000	Strato2_3095_82743_L_0		
86 D	22.08	-3.0097E-04	146.4 110.4	326.9	166.3
110.4	0.000	0.000	Strato2_3095_82743_L_0		
87 D	21.84	-5.5558E-04	150.4 109.2	330.9	168.2
109.2	0.000	0.000	Strato2_3095_82743_L_0		
88 D	21.60	-8.0881E-04	154.4 108.0	334.9	170.1
108.0	0.000	0.000	Strato2_3095_82743_L_0		
89 D	21.37	-1.0612E-03	158.4 106.8	338.9	172.1
106.8	0.000	0.000	Strato2_3095_82743_L_0		
90 D	21.13	-1.3133E-03	162.4 105.7	342.9	174.0
105.7	0.000	0.000	Strato2_3095_82743_L_0		
91 D	10.45	-1.5652E-03	166.4 104.5	346.9	175.9
104.5	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          18:00:08          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.

Progetto
INORLotto
12Codifica Documento
E E2 CL GA 2701 002Rev.
AFoglio
554 di 1221

ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.35082	-0.35082	6.07518E-10	7.01632E-02
2	1.0585	-1.0585	-7.01632E-02	0.28187
3	3.0278	-3.0278	-0.28187	0.88744
4	5.0955	-5.0955	-0.88744	1.9065
5	7.9121	-7.9121	-1.9065	3.4890
6	10.820	-10.820	-3.4890	5.6529
7	14.283	-14.283	-5.6529	8.5095
8	17.853	-17.853	-8.5095	12.080
9	21.840	-21.840	-12.080	16.448
10	25.955	-25.955	-16.448	21.639
11	30.485	-30.485	-21.639	27.736
12	35.154	-35.154	-27.736	34.767
13	40.204	-40.204	-34.767	42.808
14	45.401	-45.401	-42.808	51.888
15	50.955	-50.955	-51.888	62.079
16	-164.59	164.59	-62.079	29.160
17	-158.57	158.57	-29.160	-2.5533
18	-152.38	152.38	2.5533	-33.029
19	-145.86	145.86	33.029	-62.202
20	-139.18	139.18	62.202	-90.037
21	-132.18	132.18	90.037	-116.47
22	-125.00	125.00	116.47	-141.47
23	-117.52	117.52	141.47	-164.98
24	-109.88	109.88	164.98	-186.95
25	-101.93	101.93	186.95	-207.34
26	-93.804	93.804	207.34	-226.10
27	-85.381	85.381	226.10	-243.17
28	-76.774	76.774	243.17	-258.53
29	-67.876	67.876	258.53	-272.10
30	-58.791	58.791	272.10	-283.86
31	-49.433	49.433	283.86	-293.75
32	-39.885	39.885	293.75	-301.73
33	-30.054	30.054	301.73	-307.74
34	-20.030	20.030	307.74	-311.74
35	-9.7274	9.7274	311.74	-313.69
36	0.76970	-0.76970	313.69	-313.54
37	11.544	-11.544	313.54	-311.23
38	22.513	-22.513	311.23	-306.72
39	33.746	-33.746	306.72	-299.97
40	45.177	-45.177	299.97	-290.94
41	56.880	-56.880	290.94	-279.56
42	68.782	-68.782	279.56	-265.81
43	80.954	-80.954	265.81	-249.62
44	93.326	-93.326	249.62	-230.95
45	105.97	-105.97	230.95	-209.76
46	118.80	-118.80	209.76	-186.00
47	131.90	-131.90	186.00	-159.62
48	145.20	-145.20	159.62	-130.58
49	157.23	-157.23	130.58	-99.132
50	166.40	-166.40	99.132	-65.853
51	172.75	-172.75	65.853	-31.302
52	176.24	-176.24	31.302	3.9463
53	176.92	-176.92	-3.9463	39.331
54	174.73	-174.73	-39.331	74.277
55	169.73	-169.73	-74.277	108.22
56	161.86	-161.86	-108.22	140.60
57	151.18	-151.18	-140.60	170.83
58	138.93	-138.93	-170.83	198.62
59	126.77	-126.77	-198.62	223.97
60	114.67	-114.67	-223.97	246.91
61	102.66	-102.66	-246.91	267.44
62	90.694	-90.694	-267.44	285.58
63	78.808	-78.808	-285.58	301.34
64	66.952	-66.952	-301.34	314.73
65	55.166	-55.166	-314.73	325.76
66	43.711	-43.711	-325.76	334.51
67	26.043	-26.043	-334.51	339.71
68	8.5531	-8.5531	-339.71	341.43
69	-8.7444	8.7444	-341.43	339.68
70	-25.893	25.893	-339.68	334.50
71	-42.863	42.863	-334.50	325.93
72	-59.091	59.091	-325.93	314.11
73	-74.585	74.585	-314.11	299.19
74	-88.061	88.061	-299.19	281.58
75	-98.953	98.953	-281.58	261.79
76	-107.44	107.44	-261.79	240.30
77	-113.55	113.55	-240.30	217.59
78	-117.42	117.42	-217.59	194.11

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 555 di 1221
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79	-119.08	119.08	-194.11	170.29
80	-118.66	118.66	-170.29	146.56
81	-116.16	116.16	-146.56	123.32
82	-111.63	111.63	-123.32	101.00
83	-105.18	105.18	-101.00	79.963
84	-96.787	96.787	-79.963	60.604
85	-86.535	86.535	-60.604	43.297
86	-74.388	74.388	-43.297	28.420
87	-60.415	60.415	-28.420	16.337
88	-44.572	44.572	-16.337	7.4222
89	-27.582	27.582	-7.4222	1.9057
90	-9.5285	9.5285	-1.9057	2.39591E-11

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      18:00:08  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

CURRENT TIME IS 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	229.04	-1.07620E-03	2.12367E-02	0.0000	3950.0	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      18:00:08  |
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

CURRENT TIME IS 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****								

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ITER 0 RNORM = 0.000      RMNORM= 0.000
      RINORM=0.1795E+07 RIMNOR=0.7481E+07
      RENORM=0.5831E+05 REMNOR=0.3188E-17 RATIO =0.1802      TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 241.5      RMMAX = 341.4
      RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
      RDT =0.1795E+07 RDR =0.7481E+07
      RATIOT=0.1802      RATIOR= 0.000
      MAX UN=0.8448E-08 IEQ= 11 NODE      6 DOF 1 Y-DISPL.F
      MIN UN=-241.5      IEQ= 91 NODE      46 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 2 RNORM = 0.000      RMNORM= 0.000
      RINORM=0.1795E+07 RIMNOR=0.7481E+07
      RENORM= 3.325      REMNOR=0.2652E-17 RATIO =0.1361E-02 TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 241.5      RMMAX = 341.4
      RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
      RDT =0.1795E+07 RDR =0.7481E+07
      RATIOT=0.1361E-02 RATIOR= 0.000
      MAX UN=0.2814      IEQ= 15 NODE      8 DOF 1 Y-DISPL.F
      MIN UN=-1.798      IEQ= 97 NODE      49 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
556 di 1221

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ITER      3 RNORM = 0.000      RMNORM= 0.000
RINORM=0.1795E+07 RIMNOR=0.7481E+07
RENORM=0.4422E-15 REMNOR=0.2033E-17 RATIO =0.1570E-10 TOLER =0.1000E-03      CONVERGED !
RFMAX = 241.5      RMMAX = 341.4
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT      =0.1795E+07 RDR      =0.7481E+07
RATIOT=0.1570E-10 RATIO R= 0.000
MAX UN=0.5330E-08 IEQ=      27 NODE      14 DOF      1 Y-DISPL.F
MIN UN=-.5757E-08 IEQ=      43 NODE      22 DOF      1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.A1MIR1_3484          |
|          Exe Time :29 July 2019          18:00:08          |
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New Project
SOLUTION REACHED USING 3 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 6 (AT TIME 6.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.3983406E-02	-1.8523344E-03	
2	3.3612940E-02	-1.8523261E-03	
3	3.3242478E-02	-1.8522843E-03	
4	3.2872033E-02	-1.8521455E-03	
5	3.2501633E-02	-1.8518139E-03	
6	3.2131328E-02	-1.8511734E-03	
7	3.1761193E-02	-1.8500883E-03	
8	3.1391332E-02	-1.8484072E-03	
9	3.1021881E-02	-1.8459632E-03	
10	3.0653010E-02	-1.8425768E-03	
11	3.0284926E-02	-1.8380554E-03	
12	2.9917877E-02	-1.8321886E-03	
13	2.9552156E-02	-1.8247450E-03	
14	2.9188101E-02	-1.8154727E-03	
15	2.8826107E-02	-1.8040990E-03	
16	2.8466621E-02	-1.7903314E-03	
17	2.8109808E-02	-1.7790557E-03	
18	2.7754508E-02	-1.7751386E-03	
19	2.7399285E-02	-1.7782283E-03	
20	2.7042775E-02	-1.7879534E-03	
21	2.6683688E-02	-1.8039226E-03	
22	2.6320817E-02	-1.8257251E-03	
23	2.5953037E-02	-1.8529303E-03	
24	2.5579316E-02	-1.8850882E-03	
25	2.5198705E-02	-1.9217301E-03	
26	2.4810358E-02	-1.9623682E-03	
27	2.4413525E-02	-2.0064955E-03	
28	2.4007562E-02	-2.0535860E-03	
29	2.3591932E-02	-2.1030946E-03	
30	2.3166203E-02	-2.1544581E-03	
31	2.2730064E-02	-2.2070941E-03	
32	2.2283320E-02	-2.2604024E-03	
33	2.1825899E-02	-2.3137651E-03	
34	2.1357853E-02	-2.3665464E-03	
35	2.0879365E-02	-2.4180925E-03	
36	2.0390745E-02	-2.4677334E-03	
37	1.9892445E-02	-2.5147814E-03	
38	1.9385052E-02	-2.5585326E-03	
39	1.8869299E-02	-2.5982670E-03	
40	1.8346065E-02	-2.6332493E-03	
41	1.7816369E-02	-2.6627301E-03	
42	1.7281391E-02	-2.6859450E-03	
43	1.6742461E-02	-2.7021162E-03	
44	1.6201067E-02	-2.7104528E-03	
45	1.5658858E-02	-2.7101520E-03	
46	1.5117625E-02	-2.7003991E-03	
47	1.4578988E-02	-2.6861031E-03	
48	1.4043160E-02	-2.6721630E-03	
49	1.3510158E-02	-2.6577370E-03	
50	1.2980157E-02	-2.6419783E-03	
51	1.2453510E-02	-2.6240676E-03	
52	1.1930719E-02	-2.6032858E-03	
53	1.1412423E-02	-2.5790586E-03	
54	1.0899353E-02	-2.5509571E-03	
55	1.0392317E-02	-2.5186988E-03	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 558 di 1221							
12 D	5.030	-2.9918E-02	76.79	25.15	76.79	44.09	UL-RL	8488.	-2.200	0.000	1.000	1.000
25.15	0.000	0.000	Stratol_2_8_L_0									
13 D	5.582	-2.9552E-02	83.06	27.91	83.06	46.70	UL-RL	8488.	-2.400	0.000	1.000	1.000
27.91	0.000	0.000	Stratol_2_8_L_0									
14 D	5.900	-2.9188E-02	85.48	29.50	85.48	47.55	UL-RL	8488.	-2.600	0.000	1.000	1.000
29.50	0.000	0.000	Stratol_2_8_L_0									
15 D	6.428	-2.8826E-02	91.36	32.14	91.36	49.94	UL-RL	8488.	-2.800	0.000	1.000	1.000
32.14	0.000	0.000	Stratol_2_8_L_0									
16 D	6.728	-2.8467E-02	93.48	33.64	93.48	50.61	UL-RL	8488.	-3.000	0.000	1.000	1.000
33.64	0.000	0.000	Stratol_2_8_L_0									
17 D	7.240	-2.8110E-02	99.09	36.20	99.09	52.84	UL-RL	8488.	-3.200	0.000	1.000	1.000
36.20	0.000	0.000	Stratol_2_8_L_0									
18 D	7.574	-2.7755E-02	101.8	37.87	101.8	53.95	UL-RL	8488.	-3.400	0.000	1.000	1.000
37.87	0.000	0.000	Stratol_2_8_L_0									
19 D	8.072	-2.7399E-02	107.2	40.36	107.2	56.80	UL-RL	8488.	-3.600	0.000	1.000	1.000
40.36	0.000	0.000	Stratol_2_8_L_0									
20 D	8.410	-2.7043E-02	109.9	42.05	109.9	58.27	UL-RL	8488.	-3.800	0.000	1.000	1.000
42.05	0.000	0.000	Stratol_2_8_L_0									
21 D	8.896	-2.6684E-02	115.2	44.48	115.2	61.03	UL-RL	8488.	-4.000	0.000	1.000	1.000
44.48	0.000	0.000	Stratol_2_8_L_0									
22 D	9.238	-2.6321E-02	118.0	46.19	118.0	62.54	UL-RL	8488.	-4.200	0.000	1.000	1.000
46.19	0.000	0.000	Stratol_2_8_L_0									
23 D	9.713	-2.5953E-02	123.1	48.57	123.1	65.23	UL-RL	8488.	-4.400	0.000	1.000	1.000
48.57	0.000	0.000	Stratol_2_8_L_0									
24 D	10.04	-2.5579E-02	125.7	50.20	125.7	66.63	UL-RL	8488.	-4.600	0.000	1.000	1.000
50.20	0.000	0.000	Stratol_2_8_L_0									
25 D	10.51	-2.5199E-02	130.7	52.53	130.7	69.26	UL-RL	8488.	-4.800	0.000	1.000	1.000
52.53	0.000	0.000	Stratol_2_8_L_0									
26 D	10.85	-2.4810E-02	133.7	54.25	133.7	70.84	UL-RL	8488.	-5.000	0.000	1.000	1.000
54.25	0.000	0.000	Stratol_2_8_L_0									
27 D	11.31	-2.4414E-02	138.5	56.53	138.5	73.42	UL-RL	8488.	-5.200	0.000	1.000	1.000
56.53	0.000	0.000	Stratol_2_8_L_0									
28 D	11.65	-2.4008E-02	141.6	58.24	141.6	75.03	UL-RL	8488.	-5.400	0.000	1.000	1.000
58.24	0.000	0.000	Stratol_2_8_L_0									
29 D	12.09	-2.3592E-02	146.3	60.46	146.3	77.56	UL-RL	8488.	-5.600	0.000	1.000	1.000
60.46	0.000	0.000	Stratol_2_8_L_0									
30 D	12.43	-2.3166E-02	149.4	62.15	149.4	79.20	UL-RL	8488.	-5.800	0.000	1.000	1.000
62.15	0.000	0.000	Stratol_2_8_L_0									
31 D	12.85	-2.2730E-02	153.9	64.25	153.9	81.58	UL-RL	8488.	-6.000	0.000	1.000	1.000
64.25	0.000	0.000	Stratol_2_8_L_0									
32 D	13.18	-2.2283E-02	157.0	65.91	157.0	83.23	UL-RL	8488.	-6.200	0.000	1.000	1.000
65.91	0.000	0.000	Stratol_2_8_L_0									
33 D	13.60	-2.1826E-02	161.7	68.00	161.7	85.70	UL-RL	8488.	-6.400	0.000	1.000	1.000
68.00	0.000	0.000	Stratol_2_8_L_0									
34 D	13.92	-2.1358E-02	164.9	69.61	164.9	87.37	UL-RL	8488.	-6.600	0.000	1.000	1.000
69.61	0.000	0.000	Stratol_2_8_L_0									
35 D	14.32	-2.0879E-02	169.5	71.62	169.5	89.81	UL-RL	8488.	-6.800	0.000	1.000	1.000
71.62	0.000	0.000	Stratol_2_8_L_0									
36 D	14.63	-2.0391E-02	172.6	73.17	172.6	91.50	UL-RL	8488.	-7.000	0.000	1.000	1.000
73.17	0.000	0.000	Stratol_2_8_L_0									
37 D	15.02	-1.9892E-02	177.2	75.08	177.2	93.92	UL-RL	8488.	-7.200	0.000	1.000	1.000
75.08	0.000	0.000	Stratol_2_8_L_0									
38 D	15.31	-1.9385E-02	180.4	76.54	180.4	95.62	UL-RL	8488.	-7.400	0.000	1.000	1.000
76.54	0.000	0.000	Stratol_2_8_L_0									
39 D	15.66	-1.8869E-02	184.8	78.29	184.8	97.92	UL-RL	8488.	-7.600	0.000	1.000	1.000
78.29	0.000	0.000	Stratol_2_8_L_0									
40 D	15.93	-1.8346E-02	188.0	79.64	188.0	99.64	UL-RL	8488.	-7.800	0.000	1.000	1.000
79.64	0.000	0.000	Stratol_2_8_L_0									
41 D	16.26	-1.7816E-02	192.5	81.30	192.5	102.0	UL-RL	8488.	-8.000	0.000	1.000	1.000
81.30	0.000	0.000	Stratol_2_8_L_0									
42 D	16.50	-1.7281E-02	195.8	82.52	195.8	103.7	UL-RL	8488.	-8.200	0.000	1.000	1.000
82.52	0.000	0.000	Stratol_2_8_L_0									
43 D	16.80	-1.6742E-02	200.2	84.02	200.2	106.1	UL-RL	8488.	-8.400	0.000	1.000	1.000
84.02	0.000	0.000	Stratol_2_8_L_0									
44 D	17.02	-1.6201E-02	203.5	85.09	203.5	107.8	UL-RL	8488.	-8.600	0.000	1.000	1.000
85.09	0.000	0.000	Stratol_2_8_L_0									
45 D	17.28	-1.5659E-02	207.9	86.40	207.9	110.2	UL-RL	8488.	-8.800	0.000	1.000	1.000
86.40	0.000	0.000	Stratol_2_8_L_0									
46 D	17.45	-1.5118E-02	211.1	87.23	211.1	111.9	UL-RL	8488.	-9.000	0.000	1.000	1.000
87.23	0.000	0.000	Stratol_2_8_L_0									
47 D	17.67	-1.4579E-02	215.4	88.33	215.4	114.2	UL-RL	8488.	-9.200	0.000	1.000	1.000
88.33	0.000	0.000	Stratol_2_8_L_0									
48 D	17.80	-1.4043E-02	218.8	89.00	218.8	116.0	UL-RL	8488.	-9.400	0.000	1.000	1.000
89.00	0.000	0.000	Stratol_2_8_L_0									
49 D	17.98	-1.3510E-02	223.1	89.90	223.1	118.3	UL-RL	8488.	-9.600	0.000	1.000	1.000
89.90	0.000	0.000	Stratol_2_8_L_0									
50 D	18.08	-1.2980E-02	226.5	90.42	226.5	120.0	UL-RL	8488.	-9.800	0.000	1.000	1.000
90.42	0.000	0.000	Stratol_2_8_L_0									
51 D	18.23	-1.2454E-02	230.8	91.17	230.8	122.3	UL-RL	8488.	-10.000	0.000	1.000	1.000
91.17	0.000	0.000	Stratol_2_8_L_0									
52 D	18.31	-1.1931E-02	234.2	91.56	234.2	124.1	UL-RL	8488.	-10.200	0.000	1.000	1.000
91.56	0.000	0.000	Stratol_2_8_L_0									
53 D	18.44	-1.1412E-02	238.5	92.19	238.5	126.4	UL-RL	8488.	-10.400	0.000	1.000	1.000
92.19	0.000	0.000	Stratol_2_8_L_0									
54 D	18.49	-1.0899E-02	241.8	92.46	241.8	128.1	UL-RL	8488.	-10.600	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 559 di 1221
92.46	0.000	0.000	Strato1_2_8_L_0		
55 D	18.60	-1.0392E-02	246.1 93.00	246.1	130.4
93.00	0.000	0.000	Strato1_2_8_L_0		
56 D	18.65	-9.8922E-03	249.5 93.25	249.5	132.2
93.25	0.000	0.000	Strato1_2_8_L_0		
57 D	18.75	-9.3997E-03	253.7 93.74	253.7	134.5
93.74	0.000	0.000	Strato1_2_8_L_0		
58 D	18.79	-8.9159E-03	257.1 93.95	257.1	136.3
93.95	0.000	0.000	Strato1_2_8_L_0		
59 D	18.88	-8.4415E-03	261.4 94.41	261.4	138.5
94.41	0.000	0.000	Strato1_2_8_L_0		
60 D	18.92	-7.9771E-03	264.8 94.60	264.8	140.4
94.60	0.000	0.000	Strato1_2_8_L_0		
61 D	19.00	-7.5236E-03	269.0 95.02	269.0	142.5
95.02	0.000	0.000	Strato1_2_8_L_0		
62 D	19.04	-7.0814E-03	272.4 95.22	272.4	144.4
95.22	0.000	0.000	Strato1_2_8_L_0		
63 D	19.13	-6.6511E-03	276.6 95.67	276.6	146.6
95.67	0.000	0.000	Strato1_2_8_L_0		
64 D	19.18	-6.2333E-03	280.1 95.89	280.1	148.4
95.89	0.000	0.000	Strato1_2_8_L_0		
65 D	19.27	-5.8281E-03	284.3 96.36	284.3	150.7
96.36	0.000	0.000	Strato1_2_8_L_0		
66 D	19.64	-5.4361E-03	287.7 98.19	287.7	152.5
98.19	0.000	0.000	Strato1_2_8_L_0		
67 D	14.58	-5.0573E-03	292.0 72.90	292.0	146.0
72.90	0.000	0.000	Strato2_3095_82743_L_0		
68 D	14.32	-4.6920E-03	295.7 71.62	295.7	147.8
71.62	0.000	0.000	Strato2_3095_82743_L_0		
69 D	14.11	-4.3402E-03	300.0 70.55	300.0	150.0
70.55	0.000	0.000	Strato2_3095_82743_L_0		
70 D	13.88	-4.0018E-03	303.7 69.40	303.7	151.8
69.40	0.000	0.000	Strato2_3095_82743_L_0		
71 D	13.70	-3.6767E-03	308.0 68.48	308.0	154.0
68.48	0.000	0.000	Strato2_3095_82743_L_0		
72 D	13.49	-3.3646E-03	311.7 67.47	311.7	155.9
67.47	0.000	0.000	Strato2_3095_82743_L_0		
73 D	13.34	-3.0651E-03	316.1 66.68	316.1	158.0
66.68	0.000	0.000	Strato2_3095_82743_L_0		
74 D	14.51	-2.7778E-03	319.8 72.57	319.8	159.9
72.57	0.000	0.000	Strato2_3095_82743_L_0		
75 D	16.30	-2.5020E-03	324.1 81.52	324.1	162.1
81.52	0.000	0.000	Strato2_3095_82743_L_0		
76 D	17.96	-2.2370E-03	327.7 89.80	327.7	163.9
89.80	0.000	0.000	Strato2_3095_82743_L_0		
77 D	19.64	-1.9821E-03	332.1 98.18	332.1	166.0
98.18	0.000	0.000	Strato2_3095_82743_L_0		
78 D	21.20	-1.7364E-03	335.8 106.0	335.8	167.9
106.0	0.000	0.000	Strato2_3095_82743_L_0		
79 D	22.78	-1.4990E-03	340.1 113.9	340.1	170.1
113.9	0.000	0.000	Strato2_3095_82743_L_0		
80 D	24.26	-1.2691E-03	343.8 121.3	343.8	171.9
121.3	0.000	0.000	Strato2_3095_82743_L_0		
81 D	25.76	-1.0456E-03	348.2 128.8	348.2	174.1
128.8	0.000	0.000	Strato2_3095_82743_L_0		
82 D	27.24	-8.2770E-04	352.5 136.2	352.5	176.2
136.2	0.000	0.000	Strato2_3095_82743_L_0		
83 D	28.63	-6.1451E-04	356.2 143.1	356.2	178.1
143.1	0.000	0.000	Strato2_3095_82743_L_0		
84 D	30.05	-4.0517E-04	360.4 150.3	360.4	180.2
150.3	0.000	0.000	Strato2_3095_82743_L_0		
85 D	31.41	-1.9885E-04	364.2 157.0	364.2	182.1
157.0	0.000	0.000	Strato2_3095_82743_L_0		
86 D	32.81	5.1527E-06	368.5 164.0	368.5	184.2
164.0	0.000	0.000	Strato2_3095_82743_L_0		
87 D	34.14	2.0751E-04	372.2 170.7	372.2	186.1
170.7	0.000	0.000	Strato2_3095_82743_L_0		
88 D	35.53	4.0878E-04	376.5 177.6	376.5	188.3
177.6	0.000	0.000	Strato2_3095_82743_L_0		
89 D	36.19	6.0942E-04	380.2 180.9	380.2	191.8
180.9	0.000	0.000	Strato2_3095_82743_L_0		
90 D	36.77	8.0976E-04	384.5 183.8	384.5	195.9
183.8	0.000	0.000	Strato2_3095_82743_L_0		
91 D	18.64	1.0100E-03	388.2 186.4	388.2	199.8
186.4	0.000	0.000	Strato2_3095_82743_L_0		

PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017*

NewProject.BaseDesignSection_28.AlMIRl_3484
Exe Time :29 July 2019 18:00:08



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 560 di 1221
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 6.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.2000	0.000	1.000	1.000
2	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.6000	0.000	1.000	1.000
3	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.000	0.000	1.000	1.000
4	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.400	0.000	1.000	1.000
5	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.800	0.000	1.000	1.000
6	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.200	0.000	1.000	1.000
7	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.600	0.000	1.000	1.000
8	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.000	0.000	1.000	1.000
9	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.400	0.000	1.000	1.000
10	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.800	0.000	1.000	1.000
11	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
12	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
13	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
14	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000
15	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.800	0.000	1.000	1.000
16	0.000	--	--	--	--	--	REMOVED	--	-6.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-6.200	0.000	1.000	1.000
17	0.000	--	--	--	--	--	REMOVED	--	-6.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-6.600	0.000	1.000	1.000
18	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
19	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
20	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
21	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
22	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
23	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
24	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
25	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
26	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
27	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
28	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
29	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
30	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
31	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
32	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
33	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
34	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 561 di 1221
35	0.000	--	--	--	--
0.000	0.000	0.000	not available		
36	0.000	--	--	--	--
0.000	0.000	0.000	not available		
37	0.000	--	--	--	--
0.000	0.000	0.000	not available		
38	0.000	--	--	--	--
0.000	0.000	0.000	not available		
39	0.000	--	--	--	--
0.000	0.000	0.000	not available		
40	0.000	--	--	--	--
0.000	0.000	0.000	not available		
41	0.000	--	--	--	--
0.000	0.000	0.000	not available		
42	0.000	--	--	--	--
0.000	0.000	0.000	not available		
43	0.000	--	--	--	--
0.000	0.000	0.000	not available		
44	0.000	--	--	--	--
0.000	0.000	0.000	not available		
45	0.000	--	--	--	--
0.000	0.000	0.000	not available		
46	0.000	--	--	--	--
0.000	0.000	0.000	not available		
47	0.000	--	--	--	--
0.000	0.000	0.000	not available		
48	0.000	--	--	--	--
0.000	0.000	0.000	not available		
49 D	0.1155	1.3510E-02	1.900 0.5776	182.4	100.7
0.5776	0.000	0.000	Strato1_2_8_L_0		
50 D	1.438	1.2980E-02	5.700 7.188	186.2	102.5
7.188	0.000	0.000	Strato1_2_8_L_0		
51 D	4.593	1.2454E-02	9.500 22.96	190.0	104.5
22.96	0.000	0.000	Strato1_2_8_L_0		
52 D	7.756	1.1931E-02	13.30 38.78	193.8	106.4
38.78	0.000	0.000	Strato1_2_8_L_0		
53 D	10.93	1.1412E-02	17.10 54.64	197.6	108.4
54.64	0.000	0.000	Strato1_2_8_L_0		
54 D	14.11	1.0899E-02	20.90 70.53	201.4	110.3
70.53	0.000	0.000	Strato1_2_8_L_0		
55 D	17.29	1.0392E-02	24.70 86.44	205.2	112.3
86.44	0.000	0.000	Strato1_2_8_L_0		
56 D	20.47	9.8922E-03	28.50 102.4	209.0	115.2
102.4	0.000	0.000	Strato1_2_8_L_0		
57 D	23.66	9.3997E-03	32.30 118.3	212.8	130.5
118.3	0.000	0.000	Strato1_2_8_L_0		
58 D	25.57	8.9159E-03	36.10 127.9	216.6	139.5
127.9	0.000	0.000	Strato1_2_8_L_0		
59 D	25.85	8.4415E-03	39.90 129.2	220.4	140.2
129.2	0.000	0.000	Strato1_2_8_L_0		
60 D	26.13	7.9771E-03	43.70 130.6	224.2	141.0
130.6	0.000	0.000	Strato1_2_8_L_0		
61 D	26.42	7.5236E-03	47.50 132.1	228.0	141.8
132.1	0.000	0.000	Strato1_2_8_L_0		
62 D	26.71	7.0814E-03	51.30 133.5	231.8	142.7
133.5	0.000	0.000	Strato1_2_8_L_0		
63 D	27.00	6.6511E-03	55.10 135.0	235.6	143.5
135.0	0.000	0.000	Strato1_2_8_L_0		
64 D	27.30	6.2333E-03	58.90 136.5	239.4	144.4
136.5	0.000	0.000	Strato1_2_8_L_0		
65 D	27.61	5.8281E-03	62.70 138.0	243.2	145.4
138.0	0.000	0.000	Strato1_2_8_L_0		
66 D	27.92	5.4361E-03	66.50 139.6	247.0	146.3
139.6	0.000	0.000	Strato1_2_8_L_0		
67 D	24.80	5.0573E-03	70.40 124.0	250.9	137.6
124.0	0.000	0.000	Strato2_3095_82743_L_0		
68 D	25.04	4.6920E-03	74.40 125.2	254.9	137.5
125.2	0.000	0.000	Strato2_3095_82743_L_0		
69 D	25.29	4.3402E-03	78.40 126.4	258.9	137.6
126.4	0.000	0.000	Strato2_3095_82743_L_0		
70 D	25.54	4.0018E-03	82.40 127.7	262.9	137.7
127.7	0.000	0.000	Strato2_3095_82743_L_0		
71 D	25.79	3.6767E-03	86.40 129.0	266.9	137.9
129.0	0.000	0.000	Strato2_3095_82743_L_0		
72 D	25.44	3.3646E-03	90.40 127.2	270.9	139.8
127.2	0.000	0.000	Strato2_3095_82743_L_0		
73 D	25.12	3.0651E-03	94.40 125.6	274.9	141.6
125.6	0.000	0.000	Strato2_3095_82743_L_0		
74 D	24.83	2.7778E-03	98.40 124.1	278.9	143.4
124.1	0.000	0.000	Strato2_3095_82743_L_0		
75 D	24.56	2.5020E-03	102.4 122.8	282.9	145.3
122.8	0.000	0.000	Strato2_3095_82743_L_0		
76 D	24.32	2.2370E-03	106.4 121.6	286.9	147.1
121.6	0.000	0.000	Strato2_3095_82743_L_0		
77 D	24.11	1.9821E-03	110.4 120.5	290.9	149.0



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 562 di 1221
120.5	0.000	0.000	Strato2_3095_82743_L_0		
78 D	23.92	1.7364E-03	114.4 119.6	294.9	150.9
119.6	0.000	0.000	Strato2_3095_82743_L_0		
79 D	23.74	1.4990E-03	118.4 118.7	298.9	152.8
118.7	0.000	0.000	Strato2_3095_82743_L_0		
80 D	23.59	1.2691E-03	122.4 117.9	302.9	154.7
117.9	0.000	0.000	Strato2_3095_82743_L_0		
81 D	23.45	1.0456E-03	126.4 117.2	306.9	156.6
117.2	0.000	0.000	Strato2_3095_82743_L_0		
82 D	23.32	8.2770E-04	130.4 116.6	310.9	158.5
116.6	0.000	0.000	Strato2_3095_82743_L_0		
83 D	23.20	6.1451E-04	134.4 116.0	314.9	160.5
116.0	0.000	0.000	Strato2_3095_82743_L_0		
84 D	23.09	4.0517E-04	138.4 115.5	318.9	162.4
115.5	0.000	0.000	Strato2_3095_82743_L_0		
85 D	22.99	1.9885E-04	142.4 115.0	322.9	164.3
115.0	0.000	0.000	Strato2_3095_82743_L_0		
86 D	22.89	-5.1527E-06	146.4 114.5	326.9	166.3
114.5	0.000	0.000	Strato2_3095_82743_L_0		
87 D	22.80	-2.0751E-04	150.4 114.0	330.9	168.2
114.0	0.000	0.000	Strato2_3095_82743_L_0		
88 D	22.71	-4.0878E-04	154.4 113.5	334.9	170.1
113.5	0.000	0.000	Strato2_3095_82743_L_0		
89 D	22.61	-6.0942E-04	158.4 113.1	338.9	172.1
113.1	0.000	0.000	Strato2_3095_82743_L_0		
90 D	22.52	-8.0976E-04	162.4 112.6	342.9	174.0
112.6	0.000	0.000	Strato2_3095_82743_L_0		
91 D	11.21	-1.0100E-03	166.4 112.1	346.9	175.9
112.1	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|          NewProject.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          18:00:08          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 6.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.35082	-0.35082	9.56746E-12	7.01632E-02
2	1.0585	-1.0585	-7.01632E-02	0.28187
3	3.0278	-3.0278	-0.28187	0.88744
4	5.0955	-5.0955	-0.88744	1.9065
5	7.9121	-7.9121	-1.9065	3.4890
6	10.820	-10.820	-3.4890	5.6529
7	14.283	-14.283	-5.6529	8.5095
8	17.853	-17.853	-8.5095	12.080
9	21.840	-21.840	-12.080	16.448
10	25.974	-25.974	-16.448	21.643
11	30.695	-30.695	-21.643	27.782
12	35.724	-35.724	-27.782	34.927
13	41.306	-41.306	-34.927	43.188
14	47.206	-47.206	-43.188	52.629
15	53.635	-53.635	-52.629	63.356
16	-158.60	158.60	-63.356	31.636
17	-151.36	151.36	-31.636	1.3640
18	-143.79	143.79	-1.3640	-27.393
19	-135.71	135.71	27.393	-54.536
20	-127.30	127.30	54.536	-79.997
21	-118.41	118.41	79.997	-103.68
22	-109.17	109.17	103.68	-125.51
23	-99.457	99.457	125.51	-145.40
24	-89.417	89.417	145.40	-163.29
25	-78.911	78.911	163.29	-179.07
26	-68.062	68.062	179.07	-192.68
27	-56.756	56.756	192.68	-204.03
28	-45.109	45.109	204.03	-213.05
29	-33.016	33.016	213.05	-219.66
30	-20.586	20.586	219.66	-223.77
31	-7.7356	7.7356	223.77	-225.32
32	5.4460	-5.4460	225.32	-224.23
33	19.047	-19.047	224.23	-220.42

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 563 di 1221
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34	32.969	-32.969	220.42	-213.83
35	47.294	-47.294	213.83	-204.37
36	61.928	-61.928	204.37	-191.99
37	76.944	-76.944	191.99	-176.60
38	92.252	-92.252	176.60	-158.15
39	107.91	-107.91	158.15	-136.56
40	123.84	-123.84	136.56	-111.80
41	140.10	-140.10	111.80	-83.777
42	156.60	-156.60	83.777	-52.457
43	173.41	-173.41	52.457	-17.775
44	190.43	-190.43	17.775	20.310
45	207.71	-207.71	-20.310	61.852
46	-16.330	16.330	-61.852	58.586
47	1.3349	-1.3349	-58.586	58.853
48	19.135	-19.135	-58.853	62.680
49	37.001	-37.001	-62.680	70.080
50	53.647	-53.647	-70.080	80.809
51	67.288	-67.288	-80.809	94.267
52	77.843	-77.843	-94.267	109.84
53	85.353	-85.353	-109.84	126.91
54	89.740	-89.740	-126.91	144.85
55	91.053	-91.053	-144.85	163.06
56	89.228	-89.228	-163.06	180.91
57	84.311	-84.311	-180.91	197.77
58	77.528	-77.528	-197.77	213.28
59	70.561	-70.561	-213.28	227.39
60	63.352	-63.352	-227.39	240.06
61	55.940	-55.940	-240.06	251.25
62	48.278	-48.278	-251.25	260.90
63	40.409	-40.409	-260.90	268.99
64	32.283	-32.283	-268.99	275.44
65	23.946	-23.946	-275.44	280.23
66	15.665	-15.665	-280.23	283.36
67	5.4465	-5.4465	-283.36	284.45
68	-5.2683	5.2683	-284.45	283.40
69	-16.445	16.445	-283.40	280.11
70	-28.107	28.107	-280.11	274.49
71	-40.204	40.204	-274.49	266.45
72	-52.150	52.150	-266.45	256.02
73	-63.932	63.932	-256.02	243.23
74	-74.243	74.243	-243.23	228.38
75	-82.502	82.502	-228.38	211.88
76	-88.866	88.866	-211.88	194.11
77	-93.340	93.340	-194.11	175.44
78	-96.059	96.059	-175.44	156.23
79	-97.025	97.025	-156.23	136.83
80	-96.356	96.356	-136.83	117.55
81	-94.040	94.040	-117.55	98.747
82	-90.122	90.122	-98.747	80.722
83	-84.696	84.696	-80.722	63.783
84	-77.739	77.739	-63.783	48.235
85	-69.326	69.326	-48.235	34.369
86	-59.414	59.414	-34.369	22.487
87	-48.072	48.072	-22.487	12.872
88	-35.253	35.253	-12.872	5.8217
89	-21.678	21.678	-5.8217	1.4860
90	-7.4302	7.4302	-1.4860	2.85599E-12

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.AlMIR1_3484  |
|          Exe Time :29 July 2019  18:00:08  |
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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

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	226.69	-1.07620E-03	2.06424E-02	0.0000	3950.0	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 564 di 1221
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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1MIR1_3484
|          Exe Time :29 July 2019  18:00:08
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 CURRENT TIME IS 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit		
ANCHOR	1	250.00	-2.62486E-03	-2.62486E-03	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

```

ITER 0 RNORM = 0.000  RMNORM= 0.000
RINORM=0.1271E+07 RIMNOR=0.4514E+07
RENORM= 9378.  REMNOR=0.2033E-17 RATIO =0.8589E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 241.5  RMMAX = 284.5
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.1271E+07 RDR =0.4514E+07
RATIOT=0.8589E-01 RATIO= 0.000
MAX UN= 27.92  IEQ= 131 NODE 66 DOF 1 Y-DISPL.F
MIN UN=-.5757E-08 IEQ= 43 NODE 22 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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ITER 2 RNORM = 0.000  RMNORM= 0.000
RINORM=0.1271E+07 RIMNOR=0.4514E+07
RENORM= 805.9  REMNOR=0.2188E-17 RATIO =0.2518E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 241.5  RMMAX = 284.5
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.1271E+07 RDR =0.4514E+07
RATIOT=0.2518E-01 RATIO= 0.000
MAX UN= 13.91  IEQ= 133 NODE 67 DOF 1 Y-DISPL.F
MIN UN=-.1426E-07 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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ITER 3 RNORM = 0.000  RMNORM= 0.000
RINORM=0.1271E+07 RIMNOR=0.4514E+07
RENORM= 57.12  REMNOR=0.2243E-17 RATIO =0.6703E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 241.5  RMMAX = 284.5
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.1271E+07 RDR =0.4514E+07
RATIOT=0.6703E-02 RATIO= 0.000
MAX UN= 4.206  IEQ= 153 NODE 77 DOF 1 Y-DISPL.F
MIN UN=-.5789E-08 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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ITER 4 RNORM = 0.000  RMNORM= 0.000
RINORM=0.1271E+07 RIMNOR=0.4514E+07
RENORM= 1.004  REMNOR=0.2617E-17 RATIO =0.8885E-03 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 241.5  RMMAX = 284.5
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.1271E+07 RDR =0.4514E+07
RATIOT=0.8885E-03 RATIO= 0.000
MAX UN=0.5508  IEQ= 63 NODE 32 DOF 1 Y-DISPL.F
MIN UN=-.7405E-08 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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ITER 5 RNORM = 0.000  RMNORM= 0.000
RINORM=0.1271E+07 RIMNOR=0.4514E+07
RENORM=0.2250E-02 REMNOR=0.2594E-17 RATIO =0.4207E-04 TOLER =0.1000E-03 CONVERGED !
RFMAX = 241.5  RMMAX = 284.5
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.1271E+07 RDR =0.4514E+07
RATIOT=0.4207E-04 RATIO= 0.000
MAX UN=0.4744E-01 IEQ= 51 NODE 26 DOF 1 Y-DISPL.F
MIN UN=-.4856E-08 IEQ= 89 NODE 45 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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GENERAL CONTRACTOR

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Progetto
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12

Codifica Documento
E E2 CL GA 2701 002

Rev.
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Foglio
565 di 1221

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|           PARATIEPLUS (TM)   NLS ENGINE RELEASE  2017.1   FULL VERSION   *Build date:Jul 11, 2017*   |
|                                                                           |
|           NewProject.BaseDesignSection_28.A1M1R1_3484   |
|           Exe Time :29 July 2019   18:00:08   |
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New Project

SOLUTION REACHED USING 5 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 7 (AT TIME 7.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.2570027E-02	-1.2874157E-03	
2	3.2312546E-02	-1.2873789E-03	
3	3.2055085E-02	-1.2871993E-03	
4	3.1797687E-02	-1.2867130E-03	
5	3.1540433E-02	-1.2857331E-03	
6	3.1283440E-02	-1.2840615E-03	
7	3.1026868E-02	-1.2814895E-03	
8	3.0770919E-02	-1.2778020E-03	
9	3.0515837E-02	-1.2727775E-03	
10	3.0261912E-02	-1.2661912E-03	
11	3.0009479E-02	-1.2578141E-03	
12	2.9758921E-02	-1.2474091E-03	
13	2.9510668E-02	-1.2347273E-03	
14	2.9265199E-02	-1.2195086E-03	
15	2.9023051E-02	-1.2014820E-03	
16	2.8784813E-02	-1.1803657E-03	
17	2.8550782E-02	-1.1610943E-03	
18	2.8319924E-02	-1.1485928E-03	
19	2.8090914E-02	-1.1425501E-03	
20	2.7862494E-02	-1.1426455E-03	
21	2.7633469E-02	-1.1485486E-03	
22	2.7402710E-02	-1.1599197E-03	
23	2.7169160E-02	-1.1764103E-03	
24	2.6931830E-02	-1.1976630E-03	
25	2.6689803E-02	-1.2233126E-03	
26	2.6442237E-02	-1.2529858E-03	
27	2.6188366E-02	-1.2863015E-03	
28	2.5927499E-02	-1.3228680E-03	
29	2.5659030E-02	-1.3622808E-03	
30	2.5382426E-02	-1.4041247E-03	
31	2.5097246E-02	-1.4479725E-03	
32	2.4803133E-02	-1.4933866E-03	
33	2.4499817E-02	-1.5399179E-03	
34	2.4187122E-02	-1.5871065E-03	
35	2.3864964E-02	-1.6344808E-03	
36	2.3533351E-02	-1.6815586E-03	
37	2.3192393E-02	-1.7278459E-03	
38	2.2842299E-02	-1.7728378E-03	
39	2.2483379E-02	-1.8160181E-03	
40	2.2116050E-02	-1.8568594E-03	
41	2.1740829E-02	-1.8948242E-03	
42	2.1358348E-02	-1.9293630E-03	
43	2.0969349E-02	-1.9599154E-03	
44	2.0574686E-02	-1.9859099E-03	
45	2.0175330E-02	-2.0067638E-03	
46	1.9772355E-02	-2.0218838E-03	
47	1.9366563E-02	-2.0370487E-03	
48	1.8957148E-02	-2.0580281E-03	
49	1.8543008E-02	-2.0841949E-03	
50	1.8123168E-02	-2.1149115E-03	
51	1.7696784E-02	-2.1495289E-03	
52	1.7263139E-02	-2.1873871E-03	
53	1.6821656E-02	-2.2278145E-03	
54	1.6371887E-02	-2.2701290E-03	
55	1.5913524E-02	-2.3136373E-03	
56	1.5446399E-02	-2.3576355E-03	
57	1.4970485E-02	-2.4014081E-03	
58	1.4485900E-02	-2.4442290E-03	
59	1.3992906E-02	-2.4853607E-03	
60	1.3491918E-02	-2.5240548E-03	
61	1.2983497E-02	-2.5595517E-03	
62	1.2468362E-02	-2.5910809E-03	
63	1.1947382E-02	-2.6178612E-03	
64	1.1421587E-02	-2.6391000E-03	
65	1.0892165E-02	-2.6539939E-03	
66	1.0360466E-02	-2.6617283E-03	
67	9.8280057E-03	-2.6614776E-03	

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



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Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 567 di 1221				
18 D	6.614	-2.8320E-02	101.8	33.07	101.8	53.95	UL-RL 8488.	-3.400	0.000	1.000	1.000
33.07	0.000	0.000	Stratol_2_8_L_0								
19 D	6.898	-2.8091E-02	107.2	34.49	107.2	56.80	UL-RL 8488.	-3.600	0.000	1.000	1.000
34.49	0.000	0.000	Stratol_2_8_L_0								
20 D	7.019	-2.7862E-02	109.9	35.09	109.9	58.27	UL-RL 8488.	-3.800	0.000	1.000	1.000
35.09	0.000	0.000	Stratol_2_8_L_0								
21 D	7.284	-2.7633E-02	115.2	36.42	115.2	61.03	UL-RL 8488.	-4.000	0.000	1.000	1.000
36.42	0.000	0.000	Stratol_2_8_L_0								
22 D	7.401	-2.7403E-02	118.0	37.01	118.0	62.54	UL-RL 8488.	-4.200	0.000	1.000	1.000
37.01	0.000	0.000	Stratol_2_8_L_0								
23 D	7.649	-2.7169E-02	123.1	38.24	123.1	65.23	UL-RL 8488.	-4.400	0.000	1.000	1.000
38.24	0.000	0.000	Stratol_2_8_L_0								
24 D	7.743	-2.6932E-02	125.7	38.72	125.7	66.63	UL-RL 8488.	-4.600	0.000	1.000	1.000
38.72	0.000	0.000	Stratol_2_8_L_0								
25 D	7.974	-2.6690E-02	130.7	39.87	130.7	69.26	UL-RL 8488.	-4.800	0.000	1.000	1.000
39.87	0.000	0.000	Stratol_2_8_L_0								
26 D	8.127	-2.6442E-02	133.7	40.63	133.7	70.84	ACTIVE 0.000	-5.000	0.000	1.000	1.000
40.63	0.000	0.000	Stratol_2_8_L_0								
27 D	8.422	-2.6188E-02	138.5	42.11	138.5	73.42	ACTIVE 0.000	-5.200	0.000	1.000	1.000
42.11	0.000	0.000	Stratol_2_8_L_0								
28 D	8.607	-2.5927E-02	141.6	43.04	141.6	75.03	ACTIVE 0.000	-5.400	0.000	1.000	1.000
43.04	0.000	0.000	Stratol_2_8_L_0								
29 D	8.898	-2.5659E-02	146.3	44.49	146.3	77.56	ACTIVE 0.000	-5.600	0.000	1.000	1.000
44.49	0.000	0.000	Stratol_2_8_L_0								
30 D	9.085	-2.5382E-02	149.4	45.43	149.4	79.20	ACTIVE 0.000	-5.800	0.000	1.000	1.000
45.43	0.000	0.000	Stratol_2_8_L_0								
31 D	9.358	-2.5097E-02	153.9	46.79	153.9	81.58	ACTIVE 0.000	-6.000	0.000	1.000	1.000
46.79	0.000	0.000	Stratol_2_8_L_0								
32 D	9.548	-2.4803E-02	157.0	47.74	157.0	83.23	ACTIVE 0.000	-6.200	0.000	1.000	1.000
47.74	0.000	0.000	Stratol_2_8_L_0								
33 D	9.831	-2.4500E-02	161.7	49.16	161.7	85.70	ACTIVE 0.000	-6.400	0.000	1.000	1.000
49.16	0.000	0.000	Stratol_2_8_L_0								
34 D	10.02	-2.4187E-02	164.9	50.12	164.9	87.37	ACTIVE 0.000	-6.600	0.000	1.000	1.000
50.12	0.000	0.000	Stratol_2_8_L_0								
35 D	10.30	-2.3865E-02	169.5	51.52	169.5	89.81	ACTIVE 0.000	-6.800	0.000	1.000	1.000
51.52	0.000	0.000	Stratol_2_8_L_0								
36 D	10.50	-2.3533E-02	172.6	52.49	172.6	91.50	ACTIVE 0.000	-7.000	0.000	1.000	1.000
52.49	0.000	0.000	Stratol_2_8_L_0								
37 D	10.77	-2.3192E-02	177.2	53.87	177.2	93.92	ACTIVE 0.000	-7.200	0.000	1.000	1.000
53.87	0.000	0.000	Stratol_2_8_L_0								
38 D	10.97	-2.2842E-02	180.4	54.85	180.4	95.62	ACTIVE 0.000	-7.400	0.000	1.000	1.000
54.85	0.000	0.000	Stratol_2_8_L_0								
39 D	11.23	-2.2483E-02	184.8	56.17	184.8	97.92	ACTIVE 0.000	-7.600	0.000	1.000	1.000
56.17	0.000	0.000	Stratol_2_8_L_0								
40 D	11.43	-2.2116E-02	188.0	57.15	188.0	99.64	ACTIVE 0.000	-7.800	0.000	1.000	1.000
57.15	0.000	0.000	Stratol_2_8_L_0								
41 D	11.70	-2.1741E-02	192.5	58.51	192.5	102.0	ACTIVE 0.000	-8.000	0.000	1.000	1.000
58.51	0.000	0.000	Stratol_2_8_L_0								
42 D	11.90	-2.1358E-02	195.8	59.51	195.8	103.7	ACTIVE 0.000	-8.200	0.000	1.000	1.000
59.51	0.000	0.000	Stratol_2_8_L_0								
43 D	12.17	-2.0969E-02	200.2	60.86	200.2	106.1	ACTIVE 0.000	-8.400	0.000	1.000	1.000
60.86	0.000	0.000	Stratol_2_8_L_0								
44 D	12.37	-2.0575E-02	203.5	61.86	203.5	107.8	ACTIVE 0.000	-8.600	0.000	1.000	1.000
61.86	0.000	0.000	Stratol_2_8_L_0								
45 D	12.64	-2.0175E-02	207.9	63.20	207.9	110.2	ACTIVE 0.000	-8.800	0.000	1.000	1.000
63.20	0.000	0.000	Stratol_2_8_L_0								
46 D	12.83	-1.9772E-02	211.1	64.16	211.1	111.9	ACTIVE 0.000	-9.000	0.000	1.000	1.000
64.16	0.000	0.000	Stratol_2_8_L_0								
47 D	13.10	-1.9367E-02	215.4	65.50	215.4	114.2	ACTIVE 0.000	-9.200	0.000	1.000	1.000
65.50	0.000	0.000	Stratol_2_8_L_0								
48 D	13.30	-1.8957E-02	218.8	66.51	218.8	116.0	ACTIVE 0.000	-9.400	0.000	1.000	1.000
66.51	0.000	0.000	Stratol_2_8_L_0								
49 D	13.57	-1.8543E-02	223.1	67.84	223.1	118.3	ACTIVE 0.000	-9.600	0.000	1.000	1.000
67.84	0.000	0.000	Stratol_2_8_L_0								
50 D	13.77	-1.8123E-02	226.5	68.85	226.5	120.0	ACTIVE 0.000	-9.800	0.000	1.000	1.000
68.85	0.000	0.000	Stratol_2_8_L_0								
51 D	14.03	-1.7697E-02	230.8	70.17	230.8	122.3	ACTIVE 0.000	-10.00	0.000	1.000	1.000
70.17	0.000	0.000	Stratol_2_8_L_0								
52 D	14.24	-1.7263E-02	234.2	71.20	234.2	124.1	ACTIVE 0.000	-10.20	0.000	1.000	1.000
71.20	0.000	0.000	Stratol_2_8_L_0								
53 D	14.50	-1.6822E-02	238.5	72.51	238.5	126.4	ACTIVE 0.000	-10.40	0.000	1.000	1.000
72.51	0.000	0.000	Stratol_2_8_L_0								
54 D	14.70	-1.6372E-02	241.8	73.50	241.8	128.1	ACTIVE 0.000	-10.60	0.000	1.000	1.000
73.50	0.000	0.000	Stratol_2_8_L_0								
55 D	14.96	-1.5914E-02	246.1	74.80	246.1	130.4	ACTIVE 0.000	-10.80	0.000	1.000	1.000
74.80	0.000	0.000	Stratol_2_8_L_0								
56 D	15.17	-1.5446E-02	249.5	75.83	249.5	132.2	ACTIVE 0.000	-11.00	0.000	1.000	1.000
75.83	0.000	0.000	Stratol_2_8_L_0								
57 D	15.43	-1.4970E-02	253.7	77.13	253.7	134.5	ACTIVE 0.000	-11.20	0.000	1.000	1.000
77.13	0.000	0.000	Stratol_2_8_L_0								
58 D	15.63	-1.4486E-02	257.1	78.17	257.1	136.3	ACTIVE 0.000	-11.40	0.000	1.000	1.000
78.17	0.000	0.000	Stratol_2_8_L_0								
59 D	15.89	-1.3993E-02	261.4	79.46	261.4	138.5	ACTIVE 0.000	-11.60	0.000	1.000	1.000
79.46	0.000	0.000	Stratol_2_8_L_0								
60 D	16.10	-1.3492E-02	264.8	80.51	264.8	140.4	ACTIVE 0.000	-11.80	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 568 di 1221
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80.51	0.000	0.000	Strato1_2_8_L_0									
61 D	16.35	-1.2983E-02	269.0	81.76	269.0	142.5	ACTIVE	0.000	-12.00	0.000	1.000	1.000
81.76	0.000	0.000	Strato1_2_8_L_0									
62 D	16.56	-1.2468E-02	272.4	82.81	272.4	144.4	ACTIVE	0.000	-12.20	0.000	1.000	1.000
82.81	0.000	0.000	Strato1_2_8_L_0									
63 D	16.82	-1.1947E-02	276.6	84.09	276.6	146.6	ACTIVE	0.000	-12.40	0.000	1.000	1.000
84.09	0.000	0.000	Strato1_2_8_L_0									
64 D	17.03	-1.1422E-02	280.1	85.14	280.1	148.4	ACTIVE	0.000	-12.60	0.000	1.000	1.000
85.14	0.000	0.000	Strato1_2_8_L_0									
65 D	17.28	-1.0892E-02	284.3	86.42	284.3	150.7	ACTIVE	0.000	-12.80	0.000	1.000	1.000
86.42	0.000	0.000	Strato1_2_8_L_0									
66 D	17.49	-1.0360E-02	287.7	87.47	287.7	152.5	ACTIVE	0.000	-13.00	0.000	1.000	1.000
87.47	0.000	0.000	Strato1_2_8_L_0									
67 D	9.847	-9.8280E-03	292.0	49.24	292.0	146.0	ACTIVE	0.000	-13.20	0.000	1.000	1.000
49.24	0.000	0.000	Strato2_3095_82743_L_0									
68 D	10.02	-9.2964E-03	295.7	50.10	295.7	147.8	ACTIVE	0.000	-13.40	0.000	1.000	1.000
50.10	0.000	0.000	Strato2_3095_82743_L_0									
69 D	10.22	-8.7673E-03	300.0	51.11	300.0	150.0	ACTIVE	0.000	-13.60	0.000	1.000	1.000
51.11	0.000	0.000	Strato2_3095_82743_L_0									
70 D	10.39	-8.2419E-03	303.7	51.97	303.7	151.8	ACTIVE	0.000	-13.80	0.000	1.000	1.000
51.97	0.000	0.000	Strato2_3095_82743_L_0									
71 D	10.60	-7.7217E-03	308.0	53.00	308.0	154.0	ACTIVE	0.000	-14.00	0.000	1.000	1.000
53.00	0.000	0.000	Strato2_3095_82743_L_0									
72 D	10.77	-7.2075E-03	311.7	53.86	311.7	155.9	ACTIVE	0.000	-14.20	0.000	1.000	1.000
53.86	0.000	0.000	Strato2_3095_82743_L_0									
73 D	10.98	-6.7002E-03	316.1	54.89	316.1	158.0	ACTIVE	0.000	-14.40	0.000	1.000	1.000
54.89	0.000	0.000	Strato2_3095_82743_L_0									
74 D	11.15	-6.2005E-03	319.8	55.76	319.8	159.9	ACTIVE	0.000	-14.60	0.000	1.000	1.000
55.76	0.000	0.000	Strato2_3095_82743_L_0									
75 D	11.36	-5.7087E-03	324.1	56.78	324.1	162.1	ACTIVE	0.000	-14.80	0.000	1.000	1.000
56.78	0.000	0.000	Strato2_3095_82743_L_0									
76 D	11.53	-5.2253E-03	327.7	57.63	327.7	163.9	ACTIVE	0.000	-15.00	0.000	1.000	1.000
57.63	0.000	0.000	Strato2_3095_82743_L_0									
77 D	11.73	-4.7502E-03	332.1	58.65	332.1	166.0	ACTIVE	0.000	-15.20	0.000	1.000	1.000
58.65	0.000	0.000	Strato2_3095_82743_L_0									
78 D	11.90	-4.2835E-03	335.8	59.52	335.8	167.9	ACTIVE	0.000	-15.40	0.000	1.000	1.000
59.52	0.000	0.000	Strato2_3095_82743_L_0									
79 D	12.11	-3.8248E-03	340.1	60.54	340.1	170.1	ACTIVE	0.000	-15.60	0.000	1.000	1.000
60.54	0.000	0.000	Strato2_3095_82743_L_0									
80 D	14.15	-3.3737E-03	343.8	70.75	343.8	171.9	UL-RL	2.4012E+04	-15.80	0.000	1.000	1.000
70.75	0.000	0.000	Strato2_3095_82743_L_0									
81 D	16.72	-2.9297E-03	348.2	83.58	348.2	174.1	UL-RL	2.4012E+04	-16.00	0.000	1.000	1.000
83.58	0.000	0.000	Strato2_3095_82743_L_0									
82 D	19.25	-2.4920E-03	352.5	96.23	352.5	176.2	UL-RL	2.4012E+04	-16.20	0.000	1.000	1.000
96.23	0.000	0.000	Strato2_3095_82743_L_0									
83 D	21.69	-2.0600E-03	356.2	108.4	356.2	178.1	UL-RL	2.4012E+04	-16.40	0.000	1.000	1.000
108.4	0.000	0.000	Strato2_3095_82743_L_0									
84 D	24.16	-1.6327E-03	360.4	120.8	360.4	180.2	UL-RL	2.4012E+04	-16.60	0.000	1.000	1.000
120.8	0.000	0.000	Strato2_3095_82743_L_0									
85 D	26.55	-1.2093E-03	364.2	132.8	364.2	182.1	UL-RL	2.4012E+04	-16.80	0.000	1.000	1.000
132.8	0.000	0.000	Strato2_3095_82743_L_0									
86 D	28.99	-7.8891E-04	368.5	145.0	368.5	184.2	UL-RL	2.4012E+04	-17.00	0.000	1.000	1.000
145.0	0.000	0.000	Strato2_3095_82743_L_0									
87 D	31.36	-3.7080E-04	372.2	156.8	372.2	186.1	UL-RL	2.4012E+04	-17.20	0.000	1.000	1.000
156.8	0.000	0.000	Strato2_3095_82743_L_0									
88 D	33.78	4.5783E-05	376.5	168.9	376.5	188.3	UL-RL	2.4012E+04	-17.40	0.000	1.000	1.000
168.9	0.000	0.000	Strato2_3095_82743_L_0									
89 D	35.48	4.6145E-04	380.2	177.4	380.2	191.8	UL-RL	2.4012E+04	-17.60	0.000	1.000	1.000
177.4	0.000	0.000	Strato2_3095_82743_L_0									
90 D	37.09	8.7668E-04	384.5	185.4	384.5	195.9	UL-RL	2.4012E+04	-17.80	0.000	1.000	1.000
185.4	0.000	0.000	Strato2_3095_82743_L_0									
91 D	19.32	1.2918E-03	388.2	193.2	388.2	199.8	UL-RL	2.4012E+04	-18.00	0.000	1.000	1.000
193.2	0.000	0.000	Strato2_3095_82743_L_0									

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|
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.A1M1R1_3484
|          Exe Time :29 July 2019      18:00:08
|
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 7.0000

HARDENING 2D SOIL ELEMENT

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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 570 di 1221							
41	0.000	--	--	--	REMOVED	--	-8.000	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-8.200	0.000	1.000	1.000		
42	0.000	--	--	--	REMOVED	--	-8.400	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-8.600	0.000	1.000	1.000		
43	0.000	--	--	--	REMOVED	--	-8.800	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-9.000	0.000	1.000	1.000		
44	0.000	--	--	--	REMOVED	--	-9.200	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-9.400	0.000	1.000	1.000		
45	0.000	--	--	--	REMOVED	--	-9.600	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-9.800	0.000	1.000	1.000		
46	0.000	--	--	--	REMOVED	--	-10.00	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-10.20	0.000	1.000	1.000		
47	0.000	--	--	--	REMOVED	--	-10.40	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-10.60	0.000	1.000	1.000		
48	0.000	--	--	--	REMOVED	--	-10.80	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-11.00	0.000	1.000	1.000		
49	0.000	--	--	--	REMOVED	--	-11.20	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-11.40	0.000	1.000	1.000		
50	0.000	--	--	--	REMOVED	--	-11.60	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-11.80	0.000	1.000	1.000		
51	0.000	--	--	--	REMOVED	--	-12.00	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-12.20	0.000	1.000	1.000		
52	0.000	--	--	--	REMOVED	--	-12.40	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-12.60	0.000	1.000	1.000		
53	0.000	--	--	--	REMOVED	--	-12.80	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-13.00	0.000	1.000	1.000		
54	0.000	--	--	--	REMOVED	--	-13.20	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-13.40	0.000	1.000	1.000		
55	0.000	--	--	--	REMOVED	--	-13.60	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-13.80	0.000	1.000	1.000		
56	0.000	--	--	--	REMOVED	--	-14.00	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-14.20	0.000	1.000	1.000		
57	0.000	--	--	--	REMOVED	--	-14.40	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-14.60	0.000	1.000	1.000		
58	0.000	--	--	--	REMOVED	--	-14.80	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-15.00	0.000	1.000	1.000		
59	0.000	--	--	--	REMOVED	--	-15.20	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-15.40	0.000	1.000	1.000		
60	0.000	--	--	--	REMOVED	--	-15.60	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-15.80	0.000	1.000	1.000		
61	0.000	--	--	--	REMOVED	--	-16.00	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-16.20	0.000	1.000	1.000		
62	0.000	--	--	--	REMOVED	--	-16.40	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-16.40	0.000	1.000	1.000		
63	0.000	--	--	--	REMOVED	--	-16.40	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-16.40	0.000	1.000	1.000		
64	0.000	--	--	--	REMOVED	--	-16.40	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-16.40	0.000	1.000	1.000		
65	0.000	--	--	--	REMOVED	--	-16.40	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-16.40	0.000	1.000	1.000		
66	0.000	--	--	--	REMOVED	--	-16.40	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	REMOVED	--	-16.40	0.000	1.000	1.000		
67 D	21.75	9.8280E-03	2.000	108.7	250.9	137.6	PASSIVE	0.000	-13.20	0.000	1.000	1.000
108.7	0.000	0.000	Strato2_3095_82743_L_0									
68 D	26.45	9.2964E-03	6.000	132.3	254.9	137.5	PASSIVE	0.000	-13.40	0.000	1.000	1.000
132.3	0.000	0.000	Strato2_3095_82743_L_0									
69 D	30.78	8.7673E-03	10.00	153.9	258.9	153.9	V-C	7968.	-13.60	0.000	1.000	1.000
153.9	0.000	0.000	Strato2_3095_82743_L_0									
70 D	30.75	8.2419E-03	14.00	153.7	262.9	153.7	V-C	7968.	-13.80	0.000	1.000	1.000
153.7	0.000	0.000	Strato2_3095_82743_L_0									
71 D	30.68	7.7217E-03	18.00	153.4	266.9	153.4	V-C	7968.	-14.00	0.000	1.000	1.000
153.4	0.000	0.000	Strato2_3095_82743_L_0									
72 D	30.59	7.2075E-03	22.00	153.0	270.9	153.0	V-C	7968.	-14.20	0.000	1.000	1.000
153.0	0.000	0.000	Strato2_3095_82743_L_0									
73 D	30.49	6.7002E-03	26.00	152.5	274.9	152.5	V-C	7968.	-14.40	0.000	1.000	1.000
152.5	0.000	0.000	Strato2_3095_82743_L_0									
74 D	30.38	6.2005E-03	30.00	151.9	278.9	151.9	V-C	7968.	-14.60	0.000	1.000	1.000
151.9	0.000	0.000	Strato2_3095_82743_L_0									
75 D	30.26	5.7087E-03	34.00	151.3	282.9	151.3	V-C	7968.	-14.80	0.000	1.000	1.000
151.3	0.000	0.000	Strato2_3095_82743_L_0									
76 D	30.15	5.2253E-03	38.00	150.7	286.9	150.7	V-C	7968.	-15.00	0.000	1.000	1.000
150.7	0.000	0.000	Strato2_3095_82743_L_0									
77 D	30.03	4.7502E-03	42.00	150.1	290.9	150.1	V-C	7968.	-15.20	0.000	1.000	1.000
150.1	0.000	0.000	Strato2_3095_82743_L_0									
78 D	29.37	4.2835E-03	46.00	146.9	294.9	150.9	UL-RL	2.3904E+04	-15.40	0.000	1.000	1.000
146.9	0.000	0.000	Strato2_3095_82743_L_0									
79 D	28.28	3.8248E-03	50.00	141.4	298.9	152.8	UL-RL	2.3904E+04	-15.60	0.000	1.000	1.000
141.4	0.000	0.000	Strato2_3095_82743_L_0									
80 D	27.19	3.3737E-03	54.00	135.9	302.9	154.7	UL-RL	2.3904E+04	-15.80	0.000	1.000	1.000
135.9	0.000	0.000	Strato2_3095_82743_L_0									
81 D	26.10	2.9297E-03	58.00	130.5	306.9	156.6	UL-RL	2.3904E+04	-16.00	0.000	1.000	1.000
130.5	0.000	0.000	Strato2_3095_82743_L_0									
82 D	25.03	2.4920E-03	62.00	125.1	310.9	158.5	UL-RL	2.3904E+04	-16.20	0.000	1.000	1.000
125.1	0.000	0.000	Strato2_3095_82743_L_0									
83 D	23.96	2.0600E-03	66.00	119.8	314.9	160.5	UL-RL	2.3904E+04	-16.40	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 571 di 1221
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119.8	0.000	0.000	Strato2_3095_82743_L_0									
84 D	22.90	1.6327E-03	70.00	114.5	318.9	162.4	UL-RL	2.3904E+04	-16.60	0.000	1.000	1.000
114.5	0.000	0.000	Strato2_3095_82743_L_0									
85 D	21.84	1.2093E-03	74.00	109.2	322.9	164.3	UL-RL	2.3904E+04	-16.80	0.000	1.000	1.000
109.2	0.000	0.000	Strato2_3095_82743_L_0									
86 D	20.78	7.8891E-04	78.00	103.9	326.9	166.3	UL-RL	2.3904E+04	-17.00	0.000	1.000	1.000
103.9	0.000	0.000	Strato2_3095_82743_L_0									
87 D	19.73	3.7080E-04	82.00	98.64	330.9	168.2	UL-RL	2.3904E+04	-17.20	0.000	1.000	1.000
98.64	0.000	0.000	Strato2_3095_82743_L_0									
88 D	18.67	-4.5783E-05	86.00	93.36	334.9	170.1	UL-RL	2.3904E+04	-17.40	0.000	1.000	1.000
93.36	0.000	0.000	Strato2_3095_82743_L_0									
89 D	17.62	-4.6145E-04	90.00	88.08	338.9	172.1	UL-RL	2.3904E+04	-17.60	0.000	1.000	1.000
88.08	0.000	0.000	Strato2_3095_82743_L_0									
90 D	16.55	-8.7668E-04	94.00	82.77	342.9	174.0	UL-RL	2.3904E+04	-17.80	0.000	1.000	1.000
82.77	0.000	0.000	Strato2_3095_82743_L_0									
91 D	7.745	-1.2918E-03	98.00	77.45	346.9	175.9	UL-RL	2.3904E+04	-18.00	0.000	1.000	1.000
77.45	0.000	0.000	Strato2_3095_82743_L_0									

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|
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.AlMIR1_3484
|
|          Exe Time :29 July 2019      18:00:08
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New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 7.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.5505	-1.5505	8.22986E-11	0.31011
2	4.4659	-4.4659	-0.31011	1.2033
3	8.4510	-8.4510	-1.2033	2.8935
4	12.343	-12.343	-2.8935	5.3620
5	16.791	-16.791	-5.3620	8.7202
6	21.138	-21.138	-8.7202	12.948
7	25.848	-25.848	-12.948	18.117
8	30.471	-30.471	-18.117	24.212
9	35.317	-35.317	-24.212	31.275
10	40.115	-40.115	-31.275	39.298
11	45.303	-45.303	-39.298	48.359
12	50.603	-50.603	-48.359	58.479
13	56.255	-56.255	-58.479	69.730
14	62.025	-62.025	-69.730	82.135
15	68.119	-68.119	-82.135	95.759
16	-145.83	145.83	-95.759	66.593
17	-139.34	139.34	-66.593	38.726
18	-132.72	132.72	-38.726	12.181
19	-125.83	125.83	-12.181	-12.984
20	-118.81	118.81	12.984	-36.746
21	-111.52	111.52	36.746	-59.050
22	-104.12	104.12	59.050	-79.875
23	-96.473	96.473	79.875	-99.169
24	-88.730	88.730	99.169	-116.92
25	-80.756	80.756	116.92	-133.07
26	-72.677	72.677	133.07	-147.60
27	-64.254	64.254	147.60	-160.45
28	-55.647	55.647	160.45	-171.58
29	-46.749	46.749	171.58	-180.93
30	-37.664	37.664	180.93	-188.46
31	-28.306	28.306	188.46	-194.13
32	-18.758	18.758	194.13	-197.88
33	-8.9267	8.9267	197.88	-199.66
34	1.0967	-1.0967	199.66	-199.44
35	11.400	-11.400	199.44	-197.16
36	21.897	-21.897	197.16	-192.78
37	32.671	-32.671	192.78	-186.25
38	43.640	-43.640	186.25	-177.52
39	54.873	-54.873	177.52	-166.55
40	66.304	-66.304	166.55	-153.29
41	78.007	-78.007	153.29	-137.69
42	89.909	-89.909	137.69	-119.70
43	102.08	-102.08	119.70	-99.288
44	114.45	-114.45	99.288	-76.397
45	127.09	-127.09	76.397	-50.978

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 572 di 1221
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46	-129.01	129.01	50.978	-76.779
47	-115.91	115.91	76.779	-99.961
48	-102.61	102.61	99.961	-120.48
49	-89.040	89.040	120.48	-138.29
50	-75.269	75.269	138.29	-153.34
51	-61.234	61.234	153.34	-165.59
52	-46.995	46.995	165.59	-174.99
53	-32.494	32.494	174.99	-181.49
54	-17.795	17.795	181.49	-185.05
55	-2.8346	2.8346	185.05	-185.61
56	12.332	-12.332	185.61	-183.15
57	27.759	-27.759	183.15	-177.60
58	43.393	-43.393	177.60	-168.92
59	59.286	-59.286	168.92	-157.06
60	75.387	-75.387	157.06	-141.98
61	91.739	-91.739	141.98	-123.64
62	108.30	-108.30	123.64	-101.98
63	125.12	-125.12	101.98	-76.952
64	142.15	-142.15	76.952	-48.522
65	159.43	-159.43	48.522	-16.636
66	176.92	-176.92	16.636	18.749
67	165.02	-165.02	-18.749	51.753
68	148.59	-148.59	-51.753	81.471
69	128.03	-128.03	-81.471	107.08
70	107.68	-107.68	-107.08	128.61
71	87.596	-87.596	-128.61	146.13
72	67.774	-67.774	-146.13	159.69
73	48.260	-48.260	-159.69	169.34
74	29.032	-29.032	-169.34	175.15
75	10.124	-10.124	-175.15	177.17
76	-8.4959	8.4959	-177.17	175.47
77	-26.794	26.794	-175.47	170.11
78	-44.263	44.263	-170.11	161.26
79	-60.431	60.431	-161.26	149.17
80	-73.465	73.465	-149.17	134.48
81	-82.852	82.852	-134.48	117.91
82	-88.632	88.632	-117.91	100.18
83	-90.902	90.902	-100.18	82.003
84	-89.641	89.641	-82.003	64.074
85	-84.925	84.925	-64.074	47.089
86	-76.715	76.715	-47.089	31.746
87	-65.079	65.079	-31.746	18.730
88	-49.969	49.969	-18.730	8.7364
89	-32.108	32.108	-8.7364	2.3148
90	-11.574	11.574	-2.3148	1.23773E-11

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1M1R1_3484
|          Exe Time :29 July 2019      18:00:08
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 7.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	227.90	-1.07620E-03	2.09497E-02	0.0000	3950.0	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1M1R1_3484
|          Exe Time :29 July 2019      18:00:08
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 573 di 1221
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CURRENT TIME IS 7.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	278.42	-2.62486E-03	1.87126E-03	0.0000	6321.2	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1MIR1_3484                       |
|                               Exe Time :29 July 2019      18:00:08                             |
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FINAL INCREMENTAL ANALYSIS

SUMMARY

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	2
2	CONVERGENCE :YES	4
3	CONVERGENCE :YES	5
4	CONVERGENCE :YES	4
5	CONVERGENCE :YES	6
6	CONVERGENCE :YES	3
7	CONVERGENCE :YES	5

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME 0.10 [sec]

DATABASE CREATION CPU TIME..... 0.39 [sec]

2.7. 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:lunedì 29 luglio 2019 18:00:09

* 1: Defining general settings

UNIT m kN

TITLE New Project

DELTA 0.2

option param itemax 100

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)

WALL LeftWall_32 0 -18 0 1

* 3: Defining surfaces for wall(s)

SOIL 0_L LeftWall_32 -18 0 1 0

SOIL 0_R LeftWall_32 -18 0 2 180

* 4: Defining soil layers

*

* Soil Profile (Strato1_2_8_L_0)

*

LDATA Strato1_2_8_L_0 0 LeftWall_32

ATREST 0.53 1 1

WEIGHT 19 9 10

PERMEABILITY 1E-06

RESISTANCE 0 29

YOUNG 2E+04 6E+04

ENDL

*

* Soil Profile (Strato2_3095_82743_L_0)

*

LDATA Strato2_3095_82743_L_0 -13.1 LeftWall_32

ATREST 0.5 0.5 1

WEIGHT 20 10 10

PERMEABILITY 0.0001

RESISTANCE 20 35

YOUNG 5E+04 1.5E+05

ENDL

* 5: Defining structural materials

* Steel material: 108 Name=Fe360 E=206000200 kPa

MATERIAL Fe360_108 2.06E+08

* Concrete material: 104 Name=C25/30 E=31475800 kPa

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Cepav due



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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
574 di 1221

MATERIAL C2530_104 3.148E+07
* Rebar material: 124 Name=acciaio armonico E=200100000 kPa
MATERIAL acciaioarmonico_124 2.001E+08
* Concrete material: 103 Name=C20/25 E=29962000 kPa
MATERIAL C2025_103 2.996E+07

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
BEAM WallElement_33 LeftWall_32 -18 0 C2530_104 0.6848 00 00 0

* 6.2: Supports
WIRE Tirante1_429 LeftWall_32 -3 acciaioarmonico_124 1.974E-05 140.9 15 0 0
WIRE Tirante2_1507 LeftWall_32 -9 acciaioarmonico_124 3.159E-05 250 15 0 0

* 6.3: Strips
STRIP LeftWall_32 2 7 0.325 39.68 0 49.4 45
STRIP LeftWall_32 2 7 0 40 0 13 30

* 7: Defining Steps
STEP Stage1_31
CHANGE Strato1_2_8_L_0 U-FRICT=23.91 LeftWall_32
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato1_2_8_L_0 U-KA=0.375 LeftWall_32
CHANGE Strato1_2_8_L_0 U-KP=3.038 LeftWall_32
CHANGE Strato1_2_8_L_0 D-KA=0.375 LeftWall_32
CHANGE Strato1_2_8_L_0 D-KP=3.038 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-FRICT=29.26 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-KA=0.3 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-KP=4.102 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-KA=0.3 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-KP=4.102 LeftWall_32
CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-COHE=16 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -26 0 -18 0 0
ADD WallElement_33
ENDSTEP

STEP Stage2_755438
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -26 0 -18 0 0
ENDSTEP

STEP Stage3_158
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -3.5
WATER -26 0 -18 0 0
ENDSTEP

STEP Stage4_617
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -3.5
WATER -26 0 -18 0 0
ADD Tirante1_429
ENDSTEP

STEP Stage5_714
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -9.5
WATER -26 0 -18 0 0
ENDSTEP

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
575 di 1221

```

STEP Stage6_1682
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -9.5
WATER -26 0 -18 0 0
ADD Tirante2_1507
ENDSTEP

```

```

STEP Stage7_1779
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -13.1
WATER -26 0 -18 0 0
ENDSTEP

```

2.8. Design Assumption : A2+M2+R1 - File di Paratie - File di output (.out)

```

+-----+
|          PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION   *Build date:Jul 11, 2017* |
|          |
|          NewProject.BaseDesignSection_28.A2M2R1_3514 |
|          Exe Time :29 July 2019   18:00:09 |
+-----+

```

```

*****
*          *
* PARATIE PLUS Non-Linear Spring Engine          *
*          *
*          AN ELASTOPLASTIC FINITE ELEMENT PROGRAM *
*          FOR FLEXIBLE EARTH-RETAINING STRUCTURES *
*          *
*          Written by Ce.A.S. s.r.l. (ITALY)      *
*          with the scientific supervision of     *
*          Roberto Nova - full professor SOIL MECHANICS *
*          at Politecnico di Milano (ITALY)      *
*          *
*****
*          *
* RELEASE 2017.1   *Build date:Jul 11, 2017*   *   *
*          *
*          *
* Ce.A.S.   S.R.L   CENTRO DI ANALISI STRUTTURALE *
*          VIALE   GIUSTINIANO 10                *
*          20129   M I L A N O (ITALIA)           *
* TEL.      +39 02 2020221   (+39 035 23 67 19)  *
* FAX      +39 02 29512533   (+39 035 42285 49)  *
* email    bruno.becci@ceas.it                   *
* Web Page www.ceas.it                           *
*****

```

```

JOB : NewProject.BaseDesignSection_28.A2M2R1_3514
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL STRESS >
ACCEPTED <PARAM ITEMAX 100 >
ACCEPTED <CONTROL HINGES 0 0.0001 0.001 >

```

```

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

```

PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 576 di 1221
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```

|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      18:00:09
|-----|

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 91
NO. OF COORDINATES (NCOORD) ..... 2
NO. OF NODE DOFS (NDOF) ..... 2
NO. OF EQUATIONS (NEQ) ..... 182
NO. OF CONSTRAINTS CARDS (NVINC) ..... 0
NO. OF ELEMENT GROUPS (NEG) ..... 5
NO. OF SOLUTION STEPS (NSTE) ..... 7
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 109
NO. OF LONG NAMES (LASTNAME) ..... 26
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH ..... 1
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  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      18:00:09
|-----|

```

PREPROCESSOR DATA

NO. OF COMMANDS 109

```

1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 100
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -18 0 1
7 : SOIL 0_L LeftWall_32 -18 0 1 0
8 : SOIL 0_R LeftWall_32 -18 0 2 180
9 : LDATA Strato1_2_8_L_0 0 LeftWall_32
10 : ATREST 0.53 1 1
11 : WEIGHT 19 9 10
12 : PERMEABILITY 1E-06
13 : RESISTANCE 0 29
14 : YOUNG 2E+04 6E+04
15 : ENDL
16 : LDATA Strato2_3095_82743_L_0 -13.1 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 20 10 10
19 : PERMEABILITY 0.0001
20 : RESISTANCE 20 35
21 : YOUNG 5E+04 1.5E+05
22 : ENDL
23 : MATERIAL Fe360_108 2.06E+08
24 : MATERIAL C2530_104 3.148E+07
25 : MATERIAL acciaioarmonico_124 2.001E+08
26 : MATERIAL C2025_103 2.996E+07

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 577 di 1221
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```

27 : BEAM WallElement_33 LeftWall_32 -18 0 C2530_104 0.6848 00 00 0
28 : WIRE Tirante1_429 LeftWall_32 -3 acciaioarmonico_124 1.974E-05 140.9 15 0 0
29 : WIRE Tirante2_1507 LeftWall_32 -9 acciaioarmonico_124 3.159E-05 250 15 0 0
30 : STRIP LeftWall_32 2 7 0.325 39.68 0 49.4 45
31 : STRIP LeftWall_32 2 7 0 40 0 13 30
32 : STEP Stage1_31
33 : CHANGE Strato1_2_8_L_0 U-FRICT=23.91 LeftWall_32
34 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
35 : CHANGE Strato1_2_8_L_0 U-KA=0.375 LeftWall_32
36 : CHANGE Strato1_2_8_L_0 U-KP=3.038 LeftWall_32
37 : CHANGE Strato1_2_8_L_0 D-KA=0.375 LeftWall_32
38 : CHANGE Strato1_2_8_L_0 D-KP=3.038 LeftWall_32
39 : CHANGE Strato2_3095_82743_L_0 U-FRICT=29.26 LeftWall_32
40 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
41 : CHANGE Strato2_3095_82743_L_0 U-KA=0.3 LeftWall_32
42 : CHANGE Strato2_3095_82743_L_0 U-KP=4.102 LeftWall_32
43 : CHANGE Strato2_3095_82743_L_0 D-KA=0.3 LeftWall_32
44 : CHANGE Strato2_3095_82743_L_0 D-KP=4.102 LeftWall_32
45 : CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
46 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
47 : CHANGE Strato2_3095_82743_L_0 U-COHE=16 LeftWall_32
48 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
49 : SETWALL LeftWall_32
50 : GEOM 0 0
51 : WATER -26 0 -18 0 0
52 : ADD WallElement_33
53 : ENDSTEP
54 : STEP Stage2_755438
55 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
56 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
57 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
58 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
59 : SETWALL LeftWall_32
60 : GEOM 0 0
61 : WATER -26 0 -18 0 0
62 : ENDSTEP
63 : STEP Stage3_158
64 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
65 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
66 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
67 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
68 : SETWALL LeftWall_32
69 : GEOM 0 -3.5
70 : WATER -26 0 -18 0 0
71 : ENDSTEP
72 : STEP Stage4_617
73 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
74 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
75 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
76 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
77 : SETWALL LeftWall_32
78 : GEOM 0 -3.5
79 : WATER -26 0 -18 0 0
80 : ADD Tirante1_429
81 : ENDSTEP
82 : STEP Stage5_714
83 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
84 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
85 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
86 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
87 : SETWALL LeftWall_32
88 : GEOM 0 -9.5
89 : WATER -26 0 -18 0 0
90 : ENDSTEP
91 : STEP Stage6_1682
92 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
93 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
94 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
95 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
96 : SETWALL LeftWall_32
97 : GEOM 0 -9.5
98 : WATER -26 0 -18 0 0
99 : ADD Tirante2_1507
100 : ENDSTEP
101 : STEP Stage7_1779
102 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
103 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
104 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
105 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
106 : SETWALL LeftWall_32
107 : GEOM 0 -13.1
108 : WATER -26 0 -18 0 0
109 : ENDSTEP

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 578 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      18:00:09
|
+-----+
    
```

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 / NODE							
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	-10.000	/	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	/				

```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      18:00:09
|
+-----+
    
```

ELEMENT GROUP NO. 1

0_L :
5 91 0 1 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0

.....2D PLASTIC SOIL

element group behaviour throughout stage analysis

stage status

- 1 active
- 2 active
- 3 active
- 4 active
- 5 active
- 6 active
- 7 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

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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



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Doc. N.								Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 579 di 1221
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	1	0.2000	0.000	0.000	0.000	1.000					
22	22	1	0.2000	0.000	0.000	0.000	1.000					
23	23	1	0.2000	0.000	0.000	0.000	1.000					
24	24	1	0.2000	0.000	0.000	0.000	1.000					
25	25	1	0.2000	0.000	0.000	0.000	1.000					
26	26	1	0.2000	0.000	0.000	0.000	1.000					
27	27	1	0.2000	0.000	0.000	0.000	1.000					
28	28	1	0.2000	0.000	0.000	0.000	1.000					
29	29	1	0.2000	0.000	0.000	0.000	1.000					
30	30	1	0.2000	0.000	0.000	0.000	1.000					
31	31	1	0.2000	0.000	0.000	0.000	1.000					
32	32	1	0.2000	0.000	0.000	0.000	1.000					
33	33	1	0.2000	0.000	0.000	0.000	1.000					
34	34	1	0.2000	0.000	0.000	0.000	1.000					
35	35	1	0.2000	0.000	0.000	0.000	1.000					
36	36	1	0.2000	0.000	0.000	0.000	1.000					
37	37	1	0.2000	0.000	0.000	0.000	1.000					
38	38	1	0.2000	0.000	0.000	0.000	1.000					
39	39	1	0.2000	0.000	0.000	0.000	1.000					
40	40	1	0.2000	0.000	0.000	0.000	1.000					
41	41	1	0.2000	0.000	0.000	0.000	1.000					
42	42	1	0.2000	0.000	0.000	0.000	1.000					
43	43	1	0.2000	0.000	0.000	0.000	1.000					
44	44	1	0.2000	0.000	0.000	0.000	1.000					
45	45	1	0.2000	0.000	0.000	0.000	1.000					
46	46	1	0.2000	0.000	0.000	0.000	1.000					
47	47	1	0.2000	0.000	0.000	0.000	1.000					
48	48	1	0.2000	0.000	0.000	0.000	1.000					
49	49	1	0.2000	0.000	0.000	0.000	1.000					
50	50	1	0.2000	0.000	0.000	0.000	1.000					
51	51	1	0.2000	0.000	0.000	0.000	1.000					
52	52	1	0.2000	0.000	0.000	0.000	1.000					
53	53	1	0.2000	0.000	0.000	0.000	1.000					
54	54	1	0.2000	0.000	0.000	0.000	1.000					
55	55	1	0.2000	0.000	0.000	0.000	1.000					
56	56	1	0.2000	0.000	0.000	0.000	1.000					
57	57	1	0.2000	0.000	0.000	0.000	1.000					
58	58	1	0.2000	0.000	0.000	0.000	1.000					
59	59	1	0.2000	0.000	0.000	0.000	1.000					
60	60	1	0.2000	0.000	0.000	0.000	1.000					
61	61	1	0.2000	0.000	0.000	0.000	1.000					
62	62	1	0.2000	0.000	0.000	0.000	1.000					
63	63	1	0.2000	0.000	0.000	0.000	1.000					
64	64	1	0.2000	0.000	0.000	0.000	1.000					
65	65	1	0.2000	0.000	0.000	0.000	1.000					
66	66	1	0.2000	0.000	0.000	0.000	1.000					
67	67	2	0.2000	0.000	0.000	0.000	1.000					
68	68	2	0.2000	0.000	0.000	0.000	1.000					
69	69	2	0.2000	0.000	0.000	0.000	1.000					
70	70	2	0.2000	0.000	0.000	0.000	1.000					
71	71	2	0.2000	0.000	0.000	0.000	1.000					
72	72	2	0.2000	0.000	0.000	0.000	1.000					
73	73	2	0.2000	0.000	0.000	0.000	1.000					
74	74	2	0.2000	0.000	0.000	0.000	1.000					
75	75	2	0.2000	0.000	0.000	0.000	1.000					
76	76	2	0.2000	0.000	0.000	0.000	1.000					
77	77	2	0.2000	0.000	0.000	0.000	1.000					
78	78	2	0.2000	0.000	0.000	0.000	1.000					
79	79	2	0.2000	0.000	0.000	0.000	1.000					
80	80	2	0.2000	0.000	0.000	0.000	1.000					
81	81	2	0.2000	0.000	0.000	0.000	1.000					
82	82	2	0.2000	0.000	0.000	0.000	1.000					
83	83	2	0.2000	0.000	0.000	0.000	1.000					
84	84	2	0.2000	0.000	0.000	0.000	1.000					
85	85	2	0.2000	0.000	0.000	0.000	1.000					
86	86	2	0.2000	0.000	0.000	0.000	1.000					
87	87	2	0.2000	0.000	0.000	0.000	1.000					
88	88	2	0.2000	0.000	0.000	0.000	1.000					

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 580 di 1221
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89	89	2	0.2000	0.000	0.000	0.000	1.000
90	90	2	0.2000	0.000	0.000	0.000	1.000
91	91	2	0.1000	0.000	0.000	0.000	1.000

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019      18:00:09                             |
+-----+

```

```

ELEMENT GROUP NO.  2

0_R
 5 91  0  1  0  0  0  0  0  0  0  0  0  0  0  0  2  0  0  0  0

```

```

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

```

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	active
6	active
7	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

```

```

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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000
24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	0.2000	0.000	0.000	0.000	2.000
28	28	1	0.2000	0.000	0.000	0.000	2.000
29	29	1	0.2000	0.000	0.000	0.000	2.000
30	30	1	0.2000	0.000	0.000	0.000	2.000
31	31	1	0.2000	0.000	0.000	0.000	2.000
32	32	1	0.2000	0.000	0.000	0.000	2.000
33	33	1	0.2000	0.000	0.000	0.000	2.000
34	34	1	0.2000	0.000	0.000	0.000	2.000
35	35	1	0.2000	0.000	0.000	0.000	2.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 581 di 1221
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36	36	1	0.2000	0.000	0.000	0.000	2.000
37	37	1	0.2000	0.000	0.000	0.000	2.000
38	38	1	0.2000	0.000	0.000	0.000	2.000
39	39	1	0.2000	0.000	0.000	0.000	2.000
40	40	1	0.2000	0.000	0.000	0.000	2.000
41	41	1	0.2000	0.000	0.000	0.000	2.000
42	42	1	0.2000	0.000	0.000	0.000	2.000
43	43	1	0.2000	0.000	0.000	0.000	2.000
44	44	1	0.2000	0.000	0.000	0.000	2.000
45	45	1	0.2000	0.000	0.000	0.000	2.000
46	46	1	0.2000	0.000	0.000	0.000	2.000
47	47	1	0.2000	0.000	0.000	0.000	2.000
48	48	1	0.2000	0.000	0.000	0.000	2.000
49	49	1	0.2000	0.000	0.000	0.000	2.000
50	50	1	0.2000	0.000	0.000	0.000	2.000
51	51	1	0.2000	0.000	0.000	0.000	2.000
52	52	1	0.2000	0.000	0.000	0.000	2.000
53	53	1	0.2000	0.000	0.000	0.000	2.000
54	54	1	0.2000	0.000	0.000	0.000	2.000
55	55	1	0.2000	0.000	0.000	0.000	2.000
56	56	1	0.2000	0.000	0.000	0.000	2.000
57	57	1	0.2000	0.000	0.000	0.000	2.000
58	58	1	0.2000	0.000	0.000	0.000	2.000
59	59	1	0.2000	0.000	0.000	0.000	2.000
60	60	1	0.2000	0.000	0.000	0.000	2.000
61	61	1	0.2000	0.000	0.000	0.000	2.000
62	62	1	0.2000	0.000	0.000	0.000	2.000
63	63	1	0.2000	0.000	0.000	0.000	2.000
64	64	1	0.2000	0.000	0.000	0.000	2.000
65	65	1	0.2000	0.000	0.000	0.000	2.000
66	66	1	0.2000	0.000	0.000	0.000	2.000
67	67	2	0.2000	0.000	0.000	0.000	2.000
68	68	2	0.2000	0.000	0.000	0.000	2.000
69	69	2	0.2000	0.000	0.000	0.000	2.000
70	70	2	0.2000	0.000	0.000	0.000	2.000
71	71	2	0.2000	0.000	0.000	0.000	2.000
72	72	2	0.2000	0.000	0.000	0.000	2.000
73	73	2	0.2000	0.000	0.000	0.000	2.000
74	74	2	0.2000	0.000	0.000	0.000	2.000
75	75	2	0.2000	0.000	0.000	0.000	2.000
76	76	2	0.2000	0.000	0.000	0.000	2.000
77	77	2	0.2000	0.000	0.000	0.000	2.000
78	78	2	0.2000	0.000	0.000	0.000	2.000
79	79	2	0.2000	0.000	0.000	0.000	2.000
80	80	2	0.2000	0.000	0.000	0.000	2.000
81	81	2	0.2000	0.000	0.000	0.000	2.000
82	82	2	0.2000	0.000	0.000	0.000	2.000
83	83	2	0.2000	0.000	0.000	0.000	2.000
84	84	2	0.2000	0.000	0.000	0.000	2.000
85	85	2	0.2000	0.000	0.000	0.000	2.000
86	86	2	0.2000	0.000	0.000	0.000	2.000
87	87	2	0.2000	0.000	0.000	0.000	2.000
88	88	2	0.2000	0.000	0.000	0.000	2.000
89	89	2	0.2000	0.000	0.000	0.000	2.000
90	90	2	0.2000	0.000	0.000	0.000	2.000
91	91	2	0.1000	0.000	0.000	0.000	2.000

```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                    |
|          NewProject.BaseDesignSection_28.A2M2R1_3514 |
|          Exe Time :29 July 2019      18:00:09 |
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```

ELEMENT GROUP NO. 3

WallElement_33 :

2 90 0 1 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
4	active
5	active
6	active
7	active



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 582 di 1221
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material set no. 1

prop(1) young modulus 0.314800E+08
 prop(2) modification time 0.00000
 prop(3) new young modulus 0.00000
 prop(4) poisson ratio 0.00000
 prop(5) future0.308300E-43

no. of step variable items: 1
 step inertia multiplier

- 1 1.000
- 2 1.000
- 3 1.000
- 4 1.000
- 5 1.000
- 6 1.000
- 7 1.000

element data

el	na	nb	mat	erc1	erc2	thick	by-i	by-j
1	1	2	1	0.000	0.000	0.6848	0.000	0.000
2	2	3	1	0.000	0.000	0.6848	0.000	0.000
3	3	4	1	0.000	0.000	0.6848	0.000	0.000
4	4	5	1	0.000	0.000	0.6848	0.000	0.000
5	5	6	1	0.000	0.000	0.6848	0.000	0.000
6	6	7	1	0.000	0.000	0.6848	0.000	0.000
7	7	8	1	0.000	0.000	0.6848	0.000	0.000
8	8	9	1	0.000	0.000	0.6848	0.000	0.000
9	9	10	1	0.000	0.000	0.6848	0.000	0.000
10	10	11	1	0.000	0.000	0.6848	0.000	0.000
11	11	12	1	0.000	0.000	0.6848	0.000	0.000
12	12	13	1	0.000	0.000	0.6848	0.000	0.000
13	13	14	1	0.000	0.000	0.6848	0.000	0.000
14	14	15	1	0.000	0.000	0.6848	0.000	0.000
15	15	16	1	0.000	0.000	0.6848	0.000	0.000
16	16	17	1	0.000	0.000	0.6848	0.000	0.000
17	17	18	1	0.000	0.000	0.6848	0.000	0.000
18	18	19	1	0.000	0.000	0.6848	0.000	0.000
19	19	20	1	0.000	0.000	0.6848	0.000	0.000
20	20	21	1	0.000	0.000	0.6848	0.000	0.000
21	21	22	1	0.000	0.000	0.6848	0.000	0.000
22	22	23	1	0.000	0.000	0.6848	0.000	0.000
23	23	24	1	0.000	0.000	0.6848	0.000	0.000
24	24	25	1	0.000	0.000	0.6848	0.000	0.000
25	25	26	1	0.000	0.000	0.6848	0.000	0.000
26	26	27	1	0.000	0.000	0.6848	0.000	0.000
27	27	28	1	0.000	0.000	0.6848	0.000	0.000
28	28	29	1	0.000	0.000	0.6848	0.000	0.000
29	29	30	1	0.000	0.000	0.6848	0.000	0.000
30	30	31	1	0.000	0.000	0.6848	0.000	0.000
31	31	32	1	0.000	0.000	0.6848	0.000	0.000
32	32	33	1	0.000	0.000	0.6848	0.000	0.000
33	33	34	1	0.000	0.000	0.6848	0.000	0.000
34	34	35	1	0.000	0.000	0.6848	0.000	0.000
35	35	36	1	0.000	0.000	0.6848	0.000	0.000
36	36	37	1	0.000	0.000	0.6848	0.000	0.000
37	37	38	1	0.000	0.000	0.6848	0.000	0.000
38	38	39	1	0.000	0.000	0.6848	0.000	0.000
39	39	40	1	0.000	0.000	0.6848	0.000	0.000
40	40	41	1	0.000	0.000	0.6848	0.000	0.000
41	41	42	1	0.000	0.000	0.6848	0.000	0.000
42	42	43	1	0.000	0.000	0.6848	0.000	0.000
43	43	44	1	0.000	0.000	0.6848	0.000	0.000
44	44	45	1	0.000	0.000	0.6848	0.000	0.000
45	45	46	1	0.000	0.000	0.6848	0.000	0.000
46	46	47	1	0.000	0.000	0.6848	0.000	0.000
47	47	48	1	0.000	0.000	0.6848	0.000	0.000
48	48	49	1	0.000	0.000	0.6848	0.000	0.000
49	49	50	1	0.000	0.000	0.6848	0.000	0.000
50	50	51	1	0.000	0.000	0.6848	0.000	0.000
51	51	52	1	0.000	0.000	0.6848	0.000	0.000
52	52	53	1	0.000	0.000	0.6848	0.000	0.000
53	53	54	1	0.000	0.000	0.6848	0.000	0.000
54	54	55	1	0.000	0.000	0.6848	0.000	0.000
55	55	56	1	0.000	0.000	0.6848	0.000	0.000
56	56	57	1	0.000	0.000	0.6848	0.000	0.000
57	57	58	1	0.000	0.000	0.6848	0.000	0.000
58	58	59	1	0.000	0.000	0.6848	0.000	0.000
59	59	60	1	0.000	0.000	0.6848	0.000	0.000
60	60	61	1	0.000	0.000	0.6848	0.000	0.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 583 di 1221
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61	61	62	1	0.000	0.000	0.6848	0.000	0.000
62	62	63	1	0.000	0.000	0.6848	0.000	0.000
63	63	64	1	0.000	0.000	0.6848	0.000	0.000
64	64	65	1	0.000	0.000	0.6848	0.000	0.000
65	65	66	1	0.000	0.000	0.6848	0.000	0.000
66	66	67	1	0.000	0.000	0.6848	0.000	0.000
67	67	68	1	0.000	0.000	0.6848	0.000	0.000
68	68	69	1	0.000	0.000	0.6848	0.000	0.000
69	69	70	1	0.000	0.000	0.6848	0.000	0.000
70	70	71	1	0.000	0.000	0.6848	0.000	0.000
71	71	72	1	0.000	0.000	0.6848	0.000	0.000
72	72	73	1	0.000	0.000	0.6848	0.000	0.000
73	73	74	1	0.000	0.000	0.6848	0.000	0.000
74	74	75	1	0.000	0.000	0.6848	0.000	0.000
75	75	76	1	0.000	0.000	0.6848	0.000	0.000
76	76	77	1	0.000	0.000	0.6848	0.000	0.000
77	77	78	1	0.000	0.000	0.6848	0.000	0.000
78	78	79	1	0.000	0.000	0.6848	0.000	0.000
79	79	80	1	0.000	0.000	0.6848	0.000	0.000
80	80	81	1	0.000	0.000	0.6848	0.000	0.000
81	81	82	1	0.000	0.000	0.6848	0.000	0.000
82	82	83	1	0.000	0.000	0.6848	0.000	0.000
83	83	84	1	0.000	0.000	0.6848	0.000	0.000
84	84	85	1	0.000	0.000	0.6848	0.000	0.000
85	85	86	1	0.000	0.000	0.6848	0.000	0.000
86	86	87	1	0.000	0.000	0.6848	0.000	0.000
87	87	88	1	0.000	0.000	0.6848	0.000	0.000
88	88	89	1	0.000	0.000	0.6848	0.000	0.000
89	89	90	1	0.000	0.000	0.6848	0.000	0.000
90	90	91	1	0.000	0.000	0.6848	0.000	0.000

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019      18:00:09                             |
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```

ELEMENT GROUP NO.  4

Tirantel_429
6 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0
.....
.....2D POST-TENSION ANCHOR....
.....

```

element group behaviour throughout stage analysis

stage	status
1	inactive
2	inactive
3	inactive
4	active
5	active
6	active
7	active

```

material set no.  1

prop( 1) angle      15.0000
prop( 2) young modulus 0.200100E+09
prop( 3) modification time 0.00000
prop( 4) new young modulus 0.00000

```

```

no. of step variable items:  2

```

step	-ve lim	+ve lim
1	0.000	0.000
2	0.000	0.000
3	0.000	0.000
4	0.000	0.000
5	0.000	0.000
6	0.000	0.000
7	0.000	0.000

```

element data

```

el	n	mat	a/l	pinit	yieldc	yieldt
1	16	1	0.1974E-04	140.9	0.000	0.000

GENERAL CONTRACTOR



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Doc. N.

Progetto
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Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
584 di 1221

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019      18:00:09                             |
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```

ELEMENT GROUP NO. 5

Tirante2_1507 :

6 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0

.....2D POST-TENSION ANCHOR....

element group behaviour throughout stage analysis

stage	status
1	inactive
2	inactive
3	inactive
4	inactive
5	inactive
6	active
7	active

material set no. 1

prop(1) angle 15.0000

prop(2) young modulus 0.200100E+09

prop(3) modification time 0.00000

prop(4) new young modulus 0.00000

no. of step variable items: 2

step	-ve lim	+ve lim
1	0.000	0.000
2	0.000	0.000
3	0.000	0.000
4	0.000	0.000
5	0.000	0.000
6	0.000	0.000
7	0.000	0.000

element data

el	n	mat	a/l	pinit	yieldc	yieldt
1	46	1	0.3159E-04	250.0	0.000	0.000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019      18:00:09                             |
+-----+

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NO. OF NODAL LOADS (NLOAD) 0

NO. OF LOAD CURVES (NLCUR) 14

MAXIMUM POINTS/LCURVE (NPTM) 5

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019      18:00:09                             |
+-----+

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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

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
585 di 1221

0.80000 0.0000E+00
1.00000 0.1000E+01
1.20000 0.0000E+00
8.00000 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
8.00000	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
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
4.20000	0.0000E+00
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
5.20000	0.0000E+00
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
6.20000	0.0000E+00
8.00000	0.0000E+00

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
6.80000	0.0000E+00
7.00000	0.1000E+01
7.20000	0.0000E+00
8.00000	0.0000E+00

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
586 di 1221

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 11
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 12
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 13
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
5.80000	0.0000E+00
6.00000	0.1000E+01
8.00000	0.1000E+01

LOAD FUNCTION NUMBER = 14
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
6.80000	0.0000E+00
7.00000	0.1000E+01
8.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
587 di 1221

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      18:00:09
|
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L O A D B A L A N C E

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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

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

STEP   5  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F      0.0000000
STEP   5  TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F      0.0000000

STEP   6  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F      0.0000000
STEP   6  TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F      0.0000000

STEP   7  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F      0.0000000
STEP   7  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  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      18:00:09
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NO. OF LAYERS ..... 2
NO. OF DATA PER LAYER..... 100

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      18:00:09
|
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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<NAME   >= 18.000   (BOTH WALLS)
ITEM NO.  2<NATURE >= 1.0000  (BOTH WALLS)
ITEM NO.  3<LEVEL >= 0.0000  (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.  9<U-FRICT >= 23.910  WALL NO.    1
ITEM NO.  9<U-FRICT >= 29.000  WALL NO.    2
ITEM NO. 10<U-KA  >= 0.37500  WALL NO.    1
ITEM NO. 11<U-KP  >= 3.0380  WALL NO.    1
ITEM NO. 12<K0-NC >= 0.53000  (BOTH WALLS)
ITEM NO. 13<NEXP  >= 1.0000  (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000  (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000  (BOTH WALLS)
ITEM NO. 17<EVC  >= 20000.  (BOTH WALLS)
ITEM NO. 18<EUR   >= 60000.  (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 588 di 1221
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ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.37500 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.0380 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 16.000 WALL NO. 1
 ITEM NO. 8<U-COHE >= 20.000 WALL NO. 2
 ITEM NO. 9<U-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.30000 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.1020 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 16.000 WALL NO. 1
 ITEM NO. 58<D-COHE >= 20.000 WALL NO. 2
 ITEM NO. 59<D-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.30000 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.1020 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.37500 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.0380 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.37500 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.0380 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 16.000 WALL NO. 1
 ITEM NO. 8<U-COHE >= 20.000 WALL NO. 2
 ITEM NO. 9<U-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.30000 WALL NO. 1

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 589 di 1221
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ITEM NO. 11<U-KP >= 4.1020 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 16.000 WALL NO. 1
 ITEM NO. 58<D-COHE >= 20.000 WALL NO. 2
 ITEM NO. 59<D-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.30000 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.1020 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.37500 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.0380 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.37500 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.0380 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 16.000 WALL NO. 1
 ITEM NO. 8<U-COHE >= 20.000 WALL NO. 2
 ITEM NO. 9<U-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.30000 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.1020 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 16.000 WALL NO. 1
 ITEM NO. 58<D-COHE >= 20.000 WALL NO. 2
 ITEM NO. 59<D-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.30000 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.1020 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 590 di 1221
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ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.37500 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.0380 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.37500 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.0380 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 16.000 WALL NO. 1
 ITEM NO. 8<U-COHE >= 20.000 WALL NO. 2
 ITEM NO. 9<U-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.30000 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.1020 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 16.000 WALL NO. 1
 ITEM NO. 58<D-COHE >= 20.000 WALL NO. 2
 ITEM NO. 59<D-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.30000 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.1020 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 5

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.37500 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.0380 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 23.910 WALL NO. 1

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GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 591 di 1221
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ITEM NO. 59<D-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.37500 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.0380 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 5

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 16.000 WALL NO. 1
 ITEM NO. 8<U-COHE >= 20.000 WALL NO. 2
 ITEM NO. 9<U-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.30000 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.1020 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 16.000 WALL NO. 1
 ITEM NO. 58<D-COHE >= 20.000 WALL NO. 2
 ITEM NO. 59<D-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.30000 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.1020 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 6

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 6

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.37500 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.0380 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.37500 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.0380 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 6

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 16.000 WALL NO. 1
 ITEM NO. 8<U-COHE >= 20.000 WALL NO. 2
 ITEM NO. 9<U-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.30000 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.1020 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 592 di 1221
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ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 16.000 WALL NO. 1
 ITEM NO. 58<D-COHE >= 20.000 WALL NO. 2
 ITEM NO. 59<D-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.30000 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.1020 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 7

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 7

ITEM NO. 1<NAME >= 18.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.37500 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.0380 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.37500 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.0380 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 7

ITEM NO. 1<NAME >= 19.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -13.100 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 16.000 WALL NO. 1
 ITEM NO. 8<U-COHE >= 20.000 WALL NO. 2
 ITEM NO. 9<U-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.30000 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.1020 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 16.000 WALL NO. 1
 ITEM NO. 58<D-COHE >= 20.000 WALL NO. 2
 ITEM NO. 59<D-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.30000 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.1020 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 14 VALUES



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Progetto
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Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
593 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019    18:00:09
|
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PHASE DESCRIPTORS

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STEP NO.      1

                LEFT WALL    RIGHT WALL
Y              0.000        -0.9990E+30
Z-PC           0.000         0.000
Z-EXCAVATION   0.000         0.000
Z-WATER_TABLE -26.00        -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000         0.000
ZQ             0.000         0.000
DZW_OF_THE_WATER_TABLE  0.000         0.000
QS_ON_THE_EXCAVATION_SIDE  0.000         0.000
ZQS           -0.9990E+30  -0.9990E+30
ZCUT           0.000         0.000
BALANCE LEVEL FOR PORE PRESSURES  -18.00        -18.00
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
    
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STEP NO.      2

                LEFT WALL    RIGHT WALL
Y              0.000        -0.9990E+30
Z-PC           0.000         0.000
Z-EXCAVATION   0.000         0.000
Z-WATER_TABLE -26.00        -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000         0.000
ZQ             0.000         0.000
DZW_OF_THE_WATER_TABLE  0.000         0.000
QS_ON_THE_EXCAVATION_SIDE  0.000         0.000
ZQS           -0.9990E+30  -0.9990E+30
ZCUT           0.000         0.000
BALANCE LEVEL FOR PORE PRESSURES  -18.00        -18.00
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
    
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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 594 di 1221
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STEP NO. 3

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-3.500	0.000
Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-18.00	-18.00
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

STEP NO. 4

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-3.500	0.000
Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-18.00	-18.00
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 4

STEP NO. 5

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-9.500	0.000
Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 595 di 1221
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ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-18.00	-18.00
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 5

STEP NO.	6		
Y		LEFT WALL	RIGHT WALL
Z-PC		0.000	-0.9990E+30
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-9.500	0.000
Q_AT_THE_FREE_FIELD_LEVEL		-26.00	-0.9990E+30
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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 6

STEP NO.	7		
Y		LEFT WALL	RIGHT WALL
Z-PC		0.000	-0.9990E+30
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-13.10	0.000
Q_AT_THE_FREE_FIELD_LEVEL		-26.00	-0.9990E+30
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-18.00	-18.00
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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 596 di 1221
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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 7

LEFT-HAND WALL

```

LOWER LEVEL      -18.00000
UPPER LEVEL      0.00000

```

RIGHT-HAND WALL

```

LOWER LEVEL      -18.00000
UPPER LEVEL      0.00000

```

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019   18:00:09                             |
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INITIAL STRESS TABLES

SECTION

NUMBER OF DEFINED TABLES 2

```

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

```

```

ACTIVATION TIME 2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 7.0000

```

TYPE BOUSSINESQ

```

HORIZONTAL DISTANCE (DY) 0.3250000000000000
FOUNDATION WIDTH (B) 39.6800000000000000
ZETA-F..... 0.0000000000000000E+000
Q-F ..... 49.4000000000000000
BETA ..... 45.0000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.0000000000000000E+000

```

```

INPUT DATA FOR INITIAL STRESS SET NO. 2
PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

```

```

ACTIVATION TIME 2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 7.0000

```

TYPE BOUSSINESQ

```

HORIZONTAL DISTANCE (DY) 0.0000000000000000E+000
FOUNDATION WIDTH (B) 40.0000000000000000
ZETA-F..... 0.0000000000000000E+000
Q-F ..... 13.0000000000000000
BETA ..... 30.0000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.0000000000000000E+000

```

```

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION 4903

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
597 di 1221

NO. OF D.P.W FOR THIS AREA 10857
MAX NO. OF D.P.W. AVAILABLE 81920
** MAX NO OF ITERATIONS SET TO 100

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7368E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 34.29 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7368E+05 RDR = 0.000
RATIOT= 0.000 RATIO= 0.000
MAX UN= 0.000 IEQ= 182 NODE 91 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7368E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 34.29 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7368E+05 RDR = 0.000
RATIOT= 0.000 RATIO= 0.000
MAX UN= 0.000 IEQ= 182 NODE 91 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.7368E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 34.29 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.7368E+05 RDR = 0.000
RATIOT= 0.000 RATIO= 0.000
MAX UN= 0.000 IEQ= 182 NODE 91 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

| PARATIEPLUS(TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| |
| NewProject.BaseDesignSection_28.A2M2R1_3514 |
Exe Time :29 July 2019 18:00:09

New Project

SOLUTION REACHED USING 2 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)

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

Y-DISPL.F X-ROT. F
(02) (04) (

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

| PARATIEPLUS(TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| |
| NewProject.BaseDesignSection_28.A2M2R1_3514 |
Exe Time :29 July 2019 18:00:09

New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 1.0000

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 FACTOR UFACTOR

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 599 di 1221						
42 D	16.51	0.000	155.8 82.57	155.8	82.57	V-C	1.2810E+04	-8.200	0.000	1.000	1.000
82.57	0.000	0.000	Strato1_2_8_L_0								
43 D	16.92	0.000	159.6 84.59	159.6	84.59	V-C	1.2810E+04	-8.400	0.000	1.000	1.000
84.59	0.000	0.000	Strato1_2_8_L_0								
44 D	17.32	0.000	163.4 86.60	163.4	86.60	V-C	1.2810E+04	-8.600	0.000	1.000	1.000
86.60	0.000	0.000	Strato1_2_8_L_0								
45 D	17.72	0.000	167.2 88.62	167.2	88.62	V-C	1.2810E+04	-8.800	0.000	1.000	1.000
88.62	0.000	0.000	Strato1_2_8_L_0								
46 D	18.13	0.000	171.0 90.63	171.0	90.63	V-C	1.2810E+04	-9.000	0.000	1.000	1.000
90.63	0.000	0.000	Strato1_2_8_L_0								
47 D	18.53	0.000	174.8 92.64	174.8	92.64	V-C	1.2810E+04	-9.200	0.000	1.000	1.000
92.64	0.000	0.000	Strato1_2_8_L_0								
48 D	18.93	0.000	178.6 94.66	178.6	94.66	V-C	1.2810E+04	-9.400	0.000	1.000	1.000
94.66	0.000	0.000	Strato1_2_8_L_0								
49 D	19.33	0.000	182.4 96.67	182.4	96.67	V-C	1.2810E+04	-9.600	0.000	1.000	1.000
96.67	0.000	0.000	Strato1_2_8_L_0								
50 D	19.74	0.000	186.2 98.69	186.2	98.69	V-C	1.2810E+04	-9.800	0.000	1.000	1.000
98.69	0.000	0.000	Strato1_2_8_L_0								
51 D	20.14	0.000	190.0 100.7	190.0	100.7	V-C	1.2810E+04	-10.00	0.000	1.000	1.000
100.7	0.000	0.000	Strato1_2_8_L_0								
52 D	20.54	0.000	193.8 102.7	193.8	102.7	V-C	1.2810E+04	-10.20	0.000	1.000	1.000
102.7	0.000	0.000	Strato1_2_8_L_0								
53 D	20.95	0.000	197.6 104.7	197.6	104.7	V-C	1.2810E+04	-10.40	0.000	1.000	1.000
104.7	0.000	0.000	Strato1_2_8_L_0								
54 D	21.35	0.000	201.4 106.7	201.4	106.7	V-C	1.2810E+04	-10.60	0.000	1.000	1.000
106.7	0.000	0.000	Strato1_2_8_L_0								
55 D	21.75	0.000	205.2 108.8	205.2	108.8	V-C	1.2810E+04	-10.80	0.000	1.000	1.000
108.8	0.000	0.000	Strato1_2_8_L_0								
56 D	22.15	0.000	209.0 110.8	209.0	110.8	V-C	1.2810E+04	-11.00	0.000	1.000	1.000
110.8	0.000	0.000	Strato1_2_8_L_0								
57 D	22.56	0.000	212.8 112.8	212.8	112.8	V-C	1.2810E+04	-11.20	0.000	1.000	1.000
112.8	0.000	0.000	Strato1_2_8_L_0								
58 D	22.96	0.000	216.6 114.8	216.6	114.8	V-C	1.2810E+04	-11.40	0.000	1.000	1.000
114.8	0.000	0.000	Strato1_2_8_L_0								
59 D	23.36	0.000	220.4 116.8	220.4	116.8	V-C	1.2810E+04	-11.60	0.000	1.000	1.000
116.8	0.000	0.000	Strato1_2_8_L_0								
60 D	23.77	0.000	224.2 118.8	224.2	118.8	V-C	1.2810E+04	-11.80	0.000	1.000	1.000
118.8	0.000	0.000	Strato1_2_8_L_0								
61 D	24.17	0.000	228.0 120.8	228.0	120.8	V-C	1.2810E+04	-12.00	0.000	1.000	1.000
120.8	0.000	0.000	Strato1_2_8_L_0								
62 D	24.57	0.000	231.8 122.9	231.8	122.9	V-C	1.2810E+04	-12.20	0.000	1.000	1.000
122.9	0.000	0.000	Strato1_2_8_L_0								
63 D	24.97	0.000	235.6 124.9	235.6	124.9	V-C	1.2810E+04	-12.40	0.000	1.000	1.000
124.9	0.000	0.000	Strato1_2_8_L_0								
64 D	25.38	0.000	239.4 126.9	239.4	126.9	V-C	1.2810E+04	-12.60	0.000	1.000	1.000
126.9	0.000	0.000	Strato1_2_8_L_0								
65 D	25.78	0.000	243.2 128.9	243.2	128.9	V-C	1.2810E+04	-12.80	0.000	1.000	1.000
128.9	0.000	0.000	Strato1_2_8_L_0								
66 D	26.18	0.000	247.0 130.9	247.0	130.9	V-C	1.2810E+04	-13.00	0.000	1.000	1.000
130.9	0.000	0.000	Strato1_2_8_L_0								
67 D	25.09	0.000	250.9 125.5	250.9	125.5	V-C	3.5552E+04	-13.20	0.000	1.000	1.000
125.5	0.000	0.000	Strato2_3095_82743_L_0								
68 D	25.49	0.000	254.9 127.5	254.9	127.5	V-C	3.5552E+04	-13.40	0.000	1.000	1.000
127.5	0.000	0.000	Strato2_3095_82743_L_0								
69 D	25.89	0.000	258.9 129.4	258.9	129.4	V-C	3.5552E+04	-13.60	0.000	1.000	1.000
129.4	0.000	0.000	Strato2_3095_82743_L_0								
70 D	26.29	0.000	262.9 131.5	262.9	131.5	V-C	3.5552E+04	-13.80	0.000	1.000	1.000
131.5	0.000	0.000	Strato2_3095_82743_L_0								
71 D	26.69	0.000	266.9 133.5	266.9	133.5	V-C	3.5552E+04	-14.00	0.000	1.000	1.000
133.5	0.000	0.000	Strato2_3095_82743_L_0								
72 D	27.09	0.000	270.9 135.4	270.9	135.4	V-C	3.5552E+04	-14.20	0.000	1.000	1.000
135.4	0.000	0.000	Strato2_3095_82743_L_0								
73 D	27.49	0.000	274.9 137.4	274.9	137.4	V-C	3.5552E+04	-14.40	0.000	1.000	1.000
137.4	0.000	0.000	Strato2_3095_82743_L_0								
74 D	27.89	0.000	278.9 139.4	278.9	139.4	V-C	3.5552E+04	-14.60	0.000	1.000	1.000
139.4	0.000	0.000	Strato2_3095_82743_L_0								
75 D	28.29	0.000	282.9 141.4	282.9	141.4	V-C	3.5552E+04	-14.80	0.000	1.000	1.000
141.4	0.000	0.000	Strato2_3095_82743_L_0								
76 D	28.69	0.000	286.9 143.4	286.9	143.4	V-C	3.5552E+04	-15.00	0.000	1.000	1.000
143.4	0.000	0.000	Strato2_3095_82743_L_0								
77 D	29.09	0.000	290.9 145.4	290.9	145.4	V-C	3.5552E+04	-15.20	0.000	1.000	1.000
145.4	0.000	0.000	Strato2_3095_82743_L_0								
78 D	29.49	0.000	294.9 147.4	294.9	147.4	V-C	3.5552E+04	-15.40	0.000	1.000	1.000
147.4	0.000	0.000	Strato2_3095_82743_L_0								
79 D	29.89	0.000	298.9 149.4	298.9	149.4	V-C	3.5552E+04	-15.60	0.000	1.000	1.000
149.4	0.000	0.000	Strato2_3095_82743_L_0								
80 D	30.29	0.000	302.9 151.4	302.9	151.4	V-C	3.5552E+04	-15.80	0.000	1.000	1.000
151.4	0.000	0.000	Strato2_3095_82743_L_0								
81 D	30.69	0.000	306.9 153.4	306.9	153.4	V-C	3.5552E+04	-16.00	0.000	1.000	1.000
153.4	0.000	0.000	Strato2_3095_82743_L_0								
82 D	31.09	0.000	310.9 155.4	310.9	155.4	V-C	3.5552E+04	-16.20	0.000	1.000	1.000
155.4	0.000	0.000	Strato2_3095_82743_L_0								
83 D	31.49	0.000	314.9 157.4	314.9	157.4	V-C	3.5552E+04	-16.40	0.000	1.000	1.000
157.4	0.000	0.000	Strato2_3095_82743_L_0								
84 D	31.89	0.000	318.9 159.4	318.9	159.4	V-C	3.5552E+04	-16.60	0.000	1.000	1.000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 600 di 1221
159.4	0.000	0.000	Strato2_3095_82743_L_0		
85 D	32.29	0.000	322.9 161.5	322.9	161.5
161.5	0.000	0.000	Strato2_3095_82743_L_0		
86 D	32.69	0.000	326.9 163.4	326.9	163.4
163.4	0.000	0.000	Strato2_3095_82743_L_0		
87 D	33.09	0.000	330.9 165.4	330.9	165.4
165.4	0.000	0.000	Strato2_3095_82743_L_0		
88 D	33.49	0.000	334.9 167.4	334.9	167.4
167.4	0.000	0.000	Strato2_3095_82743_L_0		
89 D	33.89	0.000	338.9 169.5	338.9	169.5
169.5	0.000	0.000	Strato2_3095_82743_L_0		
90 D	34.29	0.000	342.9 171.5	342.9	171.5
171.5	0.000	0.000	Strato2_3095_82743_L_0		
91 D	17.34	0.000	346.9 173.4	346.9	173.4
173.4	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019  18:00:09
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	1.0842E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_2_8_L_0									
2 D	0.4028	0.000	3.800	2.014	3.800	2.014	V-C	1.0842E+04	-0.2000	0.000	1.000	1.000
2.014	0.000	0.000	Strato1_2_8_L_0									
3 D	0.8056	0.000	7.600	4.028	7.600	4.028	V-C	1.0842E+04	-0.4000	0.000	1.000	1.000
4.028	0.000	0.000	Strato1_2_8_L_0									
4 D	1.208	0.000	11.40	6.042	11.40	6.042	V-C	1.0842E+04	-0.6000	0.000	1.000	1.000
6.042	0.000	0.000	Strato1_2_8_L_0									
5 D	1.611	0.000	15.20	8.056	15.20	8.056	V-C	1.0842E+04	-0.8000	0.000	1.000	1.000
8.056	0.000	0.000	Strato1_2_8_L_0									
6 D	2.014	0.000	19.00	10.07	19.00	10.07	V-C	1.0842E+04	-1.000	0.000	1.000	1.000
10.07	0.000	0.000	Strato1_2_8_L_0									
7 D	2.417	0.000	22.80	12.08	22.80	12.08	V-C	1.0842E+04	-1.200	0.000	1.000	1.000
12.08	0.000	0.000	Strato1_2_8_L_0									
8 D	2.820	0.000	26.60	14.10	26.60	14.10	V-C	1.0842E+04	-1.400	0.000	1.000	1.000
14.10	0.000	0.000	Strato1_2_8_L_0									
9 D	3.222	0.000	30.40	16.11	30.40	16.11	V-C	1.0842E+04	-1.600	0.000	1.000	1.000
16.11	0.000	0.000	Strato1_2_8_L_0									
10 D	3.625	0.000	34.20	18.13	34.20	18.13	V-C	1.0842E+04	-1.800	0.000	1.000	1.000
18.13	0.000	0.000	Strato1_2_8_L_0									
11 D	4.028	0.000	38.00	20.14	38.00	20.14	V-C	1.0842E+04	-2.000	0.000	1.000	1.000
20.14	0.000	0.000	Strato1_2_8_L_0									
12 D	4.431	0.000	41.80	22.15	41.80	22.15	V-C	1.0842E+04	-2.200	0.000	1.000	1.000
22.15	0.000	0.000	Strato1_2_8_L_0									
13 D	4.834	0.000	45.60	24.17	45.60	24.17	V-C	1.0842E+04	-2.400	0.000	1.000	1.000
24.17	0.000	0.000	Strato1_2_8_L_0									
14 D	5.236	0.000	49.40	26.18	49.40	26.18	V-C	1.0842E+04	-2.600	0.000	1.000	1.000
26.18	0.000	0.000	Strato1_2_8_L_0									
15 D	5.639	0.000	53.20	28.20	53.20	28.20	V-C	1.0842E+04	-2.800	0.000	1.000	1.000
28.20	0.000	0.000	Strato1_2_8_L_0									
16 D	6.042	0.000	57.00	30.21	57.00	30.21	V-C	1.0842E+04	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Strato1_2_8_L_0									
17 D	6.445	0.000	60.80	32.22	60.80	32.22	V-C	1.0842E+04	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Strato1_2_8_L_0									
18 D	6.848	0.000	64.60	34.24	64.60	34.24	V-C	1.0842E+04	-3.400	0.000	1.000	1.000
34.24	0.000	0.000	Strato1_2_8_L_0									
19 D	7.250	0.000	68.40	36.25	68.40	36.25	V-C	1.0842E+04	-3.600	0.000	1.000	1.000
36.25	0.000	0.000	Strato1_2_8_L_0									
20 D	7.653	0.000	72.20	38.27	72.20	38.27	V-C	1.0842E+04	-3.800	0.000	1.000	1.000
38.27	0.000	0.000	Strato1_2_8_L_0									
21 D	8.056	0.000	76.00	40.28	76.00	40.28	V-C	1.0842E+04	-4.000	0.000	1.000	1.000
40.28	0.000	0.000	Strato1_2_8_L_0									
22 D	8.459	0.000	79.80	42.29	79.80	42.29	V-C	1.0842E+04	-4.200	0.000	1.000	1.000

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 601 di 1221
42.29	0.000	0.000	Stratol1_2_8_L_0				
23 D	8.862	0.000	83.60 44.31	83.60	44.31	V-C	1.0842E+04 -4.400 0.000 1.000 1.000
44.31	0.000	0.000	Stratol1_2_8_L_0				
24 D	9.264	0.000	87.40 46.32	87.40	46.32	V-C	1.0842E+04 -4.600 0.000 1.000 1.000
46.32	0.000	0.000	Stratol1_2_8_L_0				
25 D	9.667	0.000	91.20 48.34	91.20	48.34	V-C	1.0842E+04 -4.800 0.000 1.000 1.000
48.34	0.000	0.000	Stratol1_2_8_L_0				
26 D	10.07	0.000	95.00 50.35	95.00	50.35	V-C	1.0842E+04 -5.000 0.000 1.000 1.000
50.35	0.000	0.000	Stratol1_2_8_L_0				
27 D	10.47	0.000	98.80 52.36	98.80	52.36	V-C	1.0842E+04 -5.200 0.000 1.000 1.000
52.36	0.000	0.000	Stratol1_2_8_L_0				
28 D	10.88	0.000	102.6 54.38	102.6	54.38	V-C	1.0842E+04 -5.400 0.000 1.000 1.000
54.38	0.000	0.000	Stratol1_2_8_L_0				
29 D	11.28	0.000	106.4 56.39	106.4	56.39	V-C	1.0842E+04 -5.600 0.000 1.000 1.000
56.39	0.000	0.000	Stratol1_2_8_L_0				
30 D	11.68	0.000	110.2 58.41	110.2	58.41	V-C	1.0842E+04 -5.800 0.000 1.000 1.000
58.41	0.000	0.000	Stratol1_2_8_L_0				
31 D	12.08	0.000	114.0 60.42	114.0	60.42	V-C	1.0842E+04 -6.000 0.000 1.000 1.000
60.42	0.000	0.000	Stratol1_2_8_L_0				
32 D	12.49	0.000	117.8 62.43	117.8	62.43	V-C	1.0842E+04 -6.200 0.000 1.000 1.000
62.43	0.000	0.000	Stratol1_2_8_L_0				
33 D	12.89	0.000	121.6 64.45	121.6	64.45	V-C	1.0842E+04 -6.400 0.000 1.000 1.000
64.45	0.000	0.000	Stratol1_2_8_L_0				
34 D	13.29	0.000	125.4 66.46	125.4	66.46	V-C	1.0842E+04 -6.600 0.000 1.000 1.000
66.46	0.000	0.000	Stratol1_2_8_L_0				
35 D	13.70	0.000	129.2 68.48	129.2	68.48	V-C	1.0842E+04 -6.800 0.000 1.000 1.000
68.48	0.000	0.000	Stratol1_2_8_L_0				
36 D	14.10	0.000	133.0 70.49	133.0	70.49	V-C	1.0842E+04 -7.000 0.000 1.000 1.000
70.49	0.000	0.000	Stratol1_2_8_L_0				
37 D	14.50	0.000	136.8 72.50	136.8	72.50	V-C	1.0842E+04 -7.200 0.000 1.000 1.000
72.50	0.000	0.000	Stratol1_2_8_L_0				
38 D	14.90	0.000	140.6 74.52	140.6	74.52	V-C	1.0842E+04 -7.400 0.000 1.000 1.000
74.52	0.000	0.000	Stratol1_2_8_L_0				
39 D	15.31	0.000	144.4 76.53	144.4	76.53	V-C	1.0842E+04 -7.600 0.000 1.000 1.000
76.53	0.000	0.000	Stratol1_2_8_L_0				
40 D	15.71	0.000	148.2 78.55	148.2	78.55	V-C	1.0842E+04 -7.800 0.000 1.000 1.000
78.55	0.000	0.000	Stratol1_2_8_L_0				
41 D	16.11	0.000	152.0 80.56	152.0	80.56	V-C	1.0842E+04 -8.000 0.000 1.000 1.000
80.56	0.000	0.000	Stratol1_2_8_L_0				
42 D	16.51	0.000	155.8 82.57	155.8	82.57	V-C	1.0842E+04 -8.200 0.000 1.000 1.000
82.57	0.000	0.000	Stratol1_2_8_L_0				
43 D	16.92	0.000	159.6 84.59	159.6	84.59	V-C	1.0842E+04 -8.400 0.000 1.000 1.000
84.59	0.000	0.000	Stratol1_2_8_L_0				
44 D	17.32	0.000	163.4 86.60	163.4	86.60	V-C	1.0842E+04 -8.600 0.000 1.000 1.000
86.60	0.000	0.000	Stratol1_2_8_L_0				
45 D	17.72	0.000	167.2 88.62	167.2	88.62	V-C	1.0842E+04 -8.800 0.000 1.000 1.000
88.62	0.000	0.000	Stratol1_2_8_L_0				
46 D	18.13	0.000	171.0 90.63	171.0	90.63	V-C	1.0842E+04 -9.000 0.000 1.000 1.000
90.63	0.000	0.000	Stratol1_2_8_L_0				
47 D	18.53	0.000	174.8 92.64	174.8	92.64	V-C	1.0842E+04 -9.200 0.000 1.000 1.000
92.64	0.000	0.000	Stratol1_2_8_L_0				
48 D	18.93	0.000	178.6 94.66	178.6	94.66	V-C	1.0842E+04 -9.400 0.000 1.000 1.000
94.66	0.000	0.000	Stratol1_2_8_L_0				
49 D	19.33	0.000	182.4 96.67	182.4	96.67	V-C	1.0842E+04 -9.600 0.000 1.000 1.000
96.67	0.000	0.000	Stratol1_2_8_L_0				
50 D	19.74	0.000	186.2 98.69	186.2	98.69	V-C	1.0842E+04 -9.800 0.000 1.000 1.000
98.69	0.000	0.000	Stratol1_2_8_L_0				
51 D	20.14	0.000	190.0 100.7	190.0	100.7	V-C	1.0842E+04 -10.000 0.000 1.000 1.000
100.7	0.000	0.000	Stratol1_2_8_L_0				
52 D	20.54	0.000	193.8 102.7	193.8	102.7	V-C	1.0842E+04 -10.200 0.000 1.000 1.000
102.7	0.000	0.000	Stratol1_2_8_L_0				
53 D	20.95	0.000	197.6 104.7	197.6	104.7	V-C	1.0842E+04 -10.400 0.000 1.000 1.000
104.7	0.000	0.000	Stratol1_2_8_L_0				
54 D	21.35	0.000	201.4 106.7	201.4	106.7	V-C	1.0842E+04 -10.600 0.000 1.000 1.000
106.7	0.000	0.000	Stratol1_2_8_L_0				
55 D	21.75	0.000	205.2 108.8	205.2	108.8	V-C	1.0842E+04 -10.800 0.000 1.000 1.000
108.8	0.000	0.000	Stratol1_2_8_L_0				
56 D	22.15	0.000	209.0 110.8	209.0	110.8	V-C	1.0842E+04 -11.000 0.000 1.000 1.000
110.8	0.000	0.000	Stratol1_2_8_L_0				
57 D	22.56	0.000	212.8 112.8	212.8	112.8	V-C	1.0842E+04 -11.200 0.000 1.000 1.000
112.8	0.000	0.000	Stratol1_2_8_L_0				
58 D	22.96	0.000	216.6 114.8	216.6	114.8	V-C	1.0842E+04 -11.400 0.000 1.000 1.000
114.8	0.000	0.000	Stratol1_2_8_L_0				
59 D	23.36	0.000	220.4 116.8	220.4	116.8	V-C	1.0842E+04 -11.600 0.000 1.000 1.000
116.8	0.000	0.000	Stratol1_2_8_L_0				
60 D	23.77	0.000	224.2 118.8	224.2	118.8	V-C	1.0842E+04 -11.800 0.000 1.000 1.000
118.8	0.000	0.000	Stratol1_2_8_L_0				
61 D	24.17	0.000	228.0 120.8	228.0	120.8	V-C	1.0842E+04 -12.000 0.000 1.000 1.000
120.8	0.000	0.000	Stratol1_2_8_L_0				
62 D	24.57	0.000	231.8 122.9	231.8	122.9	V-C	1.0842E+04 -12.200 0.000 1.000 1.000
122.9	0.000	0.000	Stratol1_2_8_L_0				
63 D	24.97	0.000	235.6 124.9	235.6	124.9	V-C	1.0842E+04 -12.400 0.000 1.000 1.000
124.9	0.000	0.000	Stratol1_2_8_L_0				
64 D	25.38	0.000	239.4 126.9	239.4	126.9	V-C	1.0842E+04 -12.600 0.000 1.000 1.000
126.9	0.000	0.000	Stratol1_2_8_L_0				

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 602 di 1221							
65 D	25.78	0.000	243.2	128.9	243.2	128.9	V-C	1.0842E+04	-12.80	0.000	1.000	1.000
128.9	0.000	0.000	Strato1_2_8_L_0									
66 D	26.18	0.000	247.0	130.9	247.0	130.9	V-C	1.0842E+04	-13.00	0.000	1.000	1.000
130.9	0.000	0.000	Strato1_2_8_L_0									
67 D	25.09	0.000	250.9	125.5	250.9	125.5	V-C	2.4416E+04	-13.20	0.000	1.000	1.000
125.5	0.000	0.000	Strato2_3095_82743_L_0									
68 D	25.49	0.000	254.9	127.5	254.9	127.5	V-C	2.4416E+04	-13.40	0.000	1.000	1.000
127.5	0.000	0.000	Strato2_3095_82743_L_0									
69 D	25.89	0.000	258.9	129.4	258.9	129.4	V-C	2.4416E+04	-13.60	0.000	1.000	1.000
129.4	0.000	0.000	Strato2_3095_82743_L_0									
70 D	26.29	0.000	262.9	131.5	262.9	131.5	V-C	2.4416E+04	-13.80	0.000	1.000	1.000
131.5	0.000	0.000	Strato2_3095_82743_L_0									
71 D	26.69	0.000	266.9	133.5	266.9	133.5	V-C	2.4416E+04	-14.00	0.000	1.000	1.000
133.5	0.000	0.000	Strato2_3095_82743_L_0									
72 D	27.09	0.000	270.9	135.4	270.9	135.4	V-C	2.4416E+04	-14.20	0.000	1.000	1.000
135.4	0.000	0.000	Strato2_3095_82743_L_0									
73 D	27.49	0.000	274.9	137.4	274.9	137.4	V-C	2.4416E+04	-14.40	0.000	1.000	1.000
137.4	0.000	0.000	Strato2_3095_82743_L_0									
74 D	27.89	0.000	278.9	139.4	278.9	139.4	V-C	2.4416E+04	-14.60	0.000	1.000	1.000
139.4	0.000	0.000	Strato2_3095_82743_L_0									
75 D	28.29	0.000	282.9	141.4	282.9	141.4	V-C	2.4416E+04	-14.80	0.000	1.000	1.000
141.4	0.000	0.000	Strato2_3095_82743_L_0									
76 D	28.69	0.000	286.9	143.4	286.9	143.4	V-C	2.4416E+04	-15.00	0.000	1.000	1.000
143.4	0.000	0.000	Strato2_3095_82743_L_0									
77 D	29.09	0.000	290.9	145.4	290.9	145.4	V-C	2.4416E+04	-15.20	0.000	1.000	1.000
145.4	0.000	0.000	Strato2_3095_82743_L_0									
78 D	29.49	0.000	294.9	147.4	294.9	147.4	V-C	2.4416E+04	-15.40	0.000	1.000	1.000
147.4	0.000	0.000	Strato2_3095_82743_L_0									
79 D	29.89	0.000	298.9	149.4	298.9	149.4	V-C	2.4416E+04	-15.60	0.000	1.000	1.000
149.4	0.000	0.000	Strato2_3095_82743_L_0									
80 D	30.29	0.000	302.9	151.4	302.9	151.4	V-C	2.4416E+04	-15.80	0.000	1.000	1.000
151.4	0.000	0.000	Strato2_3095_82743_L_0									
81 D	30.69	0.000	306.9	153.4	306.9	153.4	V-C	2.4416E+04	-16.00	0.000	1.000	1.000
153.4	0.000	0.000	Strato2_3095_82743_L_0									
82 D	31.09	0.000	310.9	155.4	310.9	155.4	V-C	2.4416E+04	-16.20	0.000	1.000	1.000
155.4	0.000	0.000	Strato2_3095_82743_L_0									
83 D	31.49	0.000	314.9	157.4	314.9	157.4	V-C	2.4416E+04	-16.40	0.000	1.000	1.000
157.4	0.000	0.000	Strato2_3095_82743_L_0									
84 D	31.89	0.000	318.9	159.4	318.9	159.4	V-C	2.4416E+04	-16.60	0.000	1.000	1.000
159.4	0.000	0.000	Strato2_3095_82743_L_0									
85 D	32.29	0.000	322.9	161.5	322.9	161.5	V-C	2.4416E+04	-16.80	0.000	1.000	1.000
161.5	0.000	0.000	Strato2_3095_82743_L_0									
86 D	32.69	0.000	326.9	163.4	326.9	163.4	V-C	2.4416E+04	-17.00	0.000	1.000	1.000
163.4	0.000	0.000	Strato2_3095_82743_L_0									
87 D	33.09	0.000	330.9	165.4	330.9	165.4	V-C	2.4416E+04	-17.20	0.000	1.000	1.000
165.4	0.000	0.000	Strato2_3095_82743_L_0									
88 D	33.49	0.000	334.9	167.4	334.9	167.4	V-C	2.4416E+04	-17.40	0.000	1.000	1.000
167.4	0.000	0.000	Strato2_3095_82743_L_0									
89 D	33.89	0.000	338.9	169.5	338.9	169.5	V-C	2.4416E+04	-17.60	0.000	1.000	1.000
169.5	0.000	0.000	Strato2_3095_82743_L_0									
90 D	34.29	0.000	342.9	171.5	342.9	171.5	V-C	2.4416E+04	-17.80	0.000	1.000	1.000
171.5	0.000	0.000	Strato2_3095_82743_L_0									
91 D	17.34	0.000	346.9	173.4	346.9	173.4	V-C	2.4416E+04	-18.00	0.000	1.000	1.000
173.4	0.000	0.000	Strato2_3095_82743_L_0									

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|
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019  18:00:09
|
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 603 di 1221
9	0.0000	0.0000	0.0000	0.0000	
10	0.0000	0.0000	0.0000	0.0000	
11	0.0000	0.0000	0.0000	0.0000	
12	0.0000	0.0000	0.0000	0.0000	
13	0.0000	0.0000	0.0000	0.0000	
14	0.0000	0.0000	0.0000	0.0000	
15	0.0000	0.0000	0.0000	0.0000	
16	0.0000	0.0000	0.0000	0.0000	
17	0.0000	0.0000	0.0000	0.0000	
18	0.0000	0.0000	0.0000	0.0000	
19	0.0000	0.0000	0.0000	0.0000	
20	0.0000	0.0000	0.0000	0.0000	
21	0.0000	0.0000	0.0000	0.0000	
22	0.0000	0.0000	0.0000	0.0000	
23	0.0000	0.0000	0.0000	0.0000	
24	0.0000	0.0000	0.0000	0.0000	
25	0.0000	0.0000	0.0000	0.0000	
26	0.0000	0.0000	0.0000	0.0000	
27	0.0000	0.0000	0.0000	0.0000	
28	0.0000	0.0000	0.0000	0.0000	
29	0.0000	0.0000	0.0000	0.0000	
30	0.0000	0.0000	0.0000	0.0000	
31	0.0000	0.0000	0.0000	0.0000	
32	0.0000	0.0000	0.0000	0.0000	
33	0.0000	0.0000	0.0000	0.0000	
34	0.0000	0.0000	0.0000	0.0000	
35	0.0000	0.0000	0.0000	0.0000	
36	0.0000	0.0000	0.0000	0.0000	
37	0.0000	0.0000	0.0000	0.0000	
38	0.0000	0.0000	0.0000	0.0000	
39	0.0000	0.0000	0.0000	0.0000	
40	0.0000	0.0000	0.0000	0.0000	
41	0.0000	0.0000	0.0000	0.0000	
42	0.0000	0.0000	0.0000	0.0000	
43	0.0000	0.0000	0.0000	0.0000	
44	0.0000	0.0000	0.0000	0.0000	
45	0.0000	0.0000	0.0000	0.0000	
46	0.0000	0.0000	0.0000	0.0000	
47	0.0000	0.0000	0.0000	0.0000	
48	0.0000	0.0000	0.0000	0.0000	
49	0.0000	0.0000	0.0000	0.0000	
50	0.0000	0.0000	0.0000	0.0000	
51	0.0000	0.0000	0.0000	0.0000	
52	0.0000	0.0000	0.0000	0.0000	
53	0.0000	0.0000	0.0000	0.0000	
54	0.0000	0.0000	0.0000	0.0000	
55	0.0000	0.0000	0.0000	0.0000	
56	0.0000	0.0000	0.0000	0.0000	
57	0.0000	0.0000	0.0000	0.0000	
58	0.0000	0.0000	0.0000	0.0000	
59	0.0000	0.0000	0.0000	0.0000	
60	0.0000	0.0000	0.0000	0.0000	
61	0.0000	0.0000	0.0000	0.0000	
62	0.0000	0.0000	0.0000	0.0000	
63	0.0000	0.0000	0.0000	0.0000	
64	0.0000	0.0000	0.0000	0.0000	
65	0.0000	0.0000	0.0000	0.0000	
66	0.0000	0.0000	0.0000	0.0000	
67	0.0000	0.0000	0.0000	0.0000	
68	0.0000	0.0000	0.0000	0.0000	
69	0.0000	0.0000	0.0000	0.0000	
70	0.0000	0.0000	0.0000	0.0000	
71	0.0000	0.0000	0.0000	0.0000	
72	0.0000	0.0000	0.0000	0.0000	
73	0.0000	0.0000	0.0000	0.0000	
74	0.0000	0.0000	0.0000	0.0000	
75	0.0000	0.0000	0.0000	0.0000	
76	0.0000	0.0000	0.0000	0.0000	
77	0.0000	0.0000	0.0000	0.0000	
78	0.0000	0.0000	0.0000	0.0000	
79	0.0000	0.0000	0.0000	0.0000	
80	0.0000	0.0000	0.0000	0.0000	
81	0.0000	0.0000	0.0000	0.0000	
82	0.0000	0.0000	0.0000	0.0000	
83	0.0000	0.0000	0.0000	0.0000	
84	0.0000	0.0000	0.0000	0.0000	
85	0.0000	0.0000	0.0000	0.0000	
86	0.0000	0.0000	0.0000	0.0000	
87	0.0000	0.0000	0.0000	0.0000	
88	0.0000	0.0000	0.0000	0.0000	
89	0.0000	0.0000	0.0000	0.0000	
90	0.0000	0.0000	0.0000	0.0000	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
604 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      18:00:09        |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

CURRENT TIME IS 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      18:00:09        |
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

CURRENT TIME IS 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

ITER 0 RNORM = 0.000      RMNORM= 0.000
      RINORM=0.8883E+05 RIMNOR= 0.000
      RENORM= 1562.      REMNOR= 0.000      RATIO =0.1326      TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 38.56      RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =0.8883E+05 RDR = 0.000
      RATIOT=0.1326      RATIO= 0.000
      MAX UN= 4.461      IEQ= 129 NODE      65 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=0.8883E+05 RIMNOR= 0.000
      RENORM= 12.15      REMNOR=0.5487E-20 RATIO =0.1170E-01 TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 38.56      RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =0.8883E+05 RDR = 0.000
      RATIOT=0.1170E-01 RATIO= 0.000
      MAX UN= 1.878      IEQ= 3 NODE      2 DOF 1 Y-DISPL.F
      MIN UN=-.2695E-09 IEQ= 85 NODE      43 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

```

```

ITER 3 RNORM = 0.000      RMNORM= 0.000
      RINORM=0.8883E+05 RIMNOR= 0.000
      RENORM= 1.719      REMNOR=0.2171E-20 RATIO =0.4399E-02 TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 38.56      RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =0.8883E+05 RDR = 0.000
      RATIOT=0.4399E-02 RATIO= 0.000
      MAX UN=0.8510      IEQ= 33 NODE      17 DOF 1 Y-DISPL.F
      MIN UN=-.3694E-09 IEQ= 9 NODE      5 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 4 RNORM = 0.000      RMNORM= 0.000

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
605 di 1221

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RINORM=0.8883E+05 RIMNOR= 0.000
RENORM=0.1314E-02 REMNOR=0.1301E-20 RATIO =0.1216E-03 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 38.56 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.8883E+05 RDR = 0.000
RATIOT=0.1216E-03 RATIO= 0.000
MAX UN=0.3152E-01 IEQ= 65 NODE 33 DOF 1 Y-DISPL.F
MIN UN=-.1167E-09 IEQ= 35 NODE 18 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
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```
ITER 5 RNORM = 0.000 RMNORM= 0.000
RINORM=0.8883E+05 RIMNOR= 0.000
RENORM=0.9670E-08 REMNOR=0.1209E-20 RATIO =0.3299E-06 TOLER =0.1000E-03 CONVERGED !
RFMAX = 38.56 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.8883E+05 RDR = 0.000
RATIOT=0.3299E-06 RATIO= 0.000
MAX UN=0.9833E-04 IEQ= 161 NODE 81 DOF 1 Y-DISPL.F
MIN UN=-.1624E-09 IEQ= 45 NODE 23 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
606 di 1221

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| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| |
| NewProject.BaseDesignSection_28.A2M2R1_3514 |
| Exe Time :29 July 2019 18:00:09 |
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New Project

SOLUTION REACHED USING 5 ITERATIONS ON 100

P R I N T O U T F O R T I M E S T E P 2 (A T T I M E 2.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	6.7204056E-04	-4.3102964E-05	
2	6.6342074E-04	-4.3091390E-05	
3	6.5480411E-04	-4.3078266E-05	
4	6.4618853E-04	-4.3078703E-05	
5	6.3757218E-04	-4.3085864E-05	
6	6.2895464E-04	-4.3086176E-05	
7	6.2033950E-04	-4.3059618E-05	
8	6.1173397E-04	-4.2985408E-05	
9	6.0314998E-04	-4.2841563E-05	
10	5.9460325E-04	-4.2609143E-05	
11	5.8611333E-04	-4.2271640E-05	
12	5.7770255E-04	-4.1814827E-05	
13	5.6939617E-04	-4.1226458E-05	
14	5.6122135E-04	-4.0497311E-05	
15	5.5320706E-04	-3.9620925E-05	
16	5.4538300E-04	-3.8594331E-05	
17	5.3777927E-04	-3.7418697E-05	
18	5.3042507E-04	-3.6099810E-05	
19	5.2334827E-04	-3.4647007E-05	
20	5.1657431E-04	-3.3073602E-05	
21	5.1012572E-04	-3.1396764E-05	
22	5.0402107E-04	-2.9637866E-05	
23	4.9827435E-04	-2.7822391E-05	
24	4.9289395E-04	-2.5979811E-05	
25	4.8788219E-04	-2.4141140E-05	
26	4.8323532E-04	-2.2335059E-05	
27	4.7894430E-04	-2.0587068E-05	
28	4.7499510E-04	-1.8919923E-05	
29	4.7136962E-04	-1.7353677E-05	
30	4.6804574E-04	-1.5906024E-05	
31	4.6499827E-04	-1.4592379E-05	
32	4.6219892E-04	-1.3426782E-05	
33	4.5961685E-04	-1.2421912E-05	
34	4.5721871E-04	-1.1588711E-05	
35	4.5496931E-04	-1.0936402E-05	
36	4.5283159E-04	-1.0472689E-05	
37	4.5076726E-04	-1.0203624E-05	
38	4.4873688E-04	-1.0133535E-05	
39	4.4670041E-04	-1.0264941E-05	
40	4.4461739E-04	-1.0599217E-05	
41	4.4244720E-04	-1.1136578E-05	
42	4.4014930E-04	-1.1875689E-05	
43	4.3768367E-04	-1.2813609E-05	
44	4.3501091E-04	-1.3945860E-05	
45	4.3209279E-04	-1.5266316E-05	
46	4.2889228E-04	-1.6767280E-05	
47	4.2537438E-04	-1.8439565E-05	
48	4.2150573E-04	-2.0272691E-05	
49	4.1725544E-04	-2.2254123E-05	
50	4.1259519E-04	-2.4369260E-05	
51	4.0749995E-04	-2.6601166E-05	
52	4.0194820E-04	-2.8930500E-05	
53	3.9592270E-04	-3.1335216E-05	
54	3.8941074E-04	-3.3790487E-05	
55	3.8240497E-04	-3.6268751E-05	
56	3.7490374E-04	-3.8739545E-05	
57	3.6691192E-04	-4.1168880E-05	
58	3.5844146E-04	-4.3519061E-05	
59	3.4951235E-04	-4.5748431E-05	
60	3.4015320E-04	-4.7811190E-05	
61	3.3040232E-04	-4.9657158E-05	
62	3.2030841E-04	-5.1231931E-05	
63	3.0993155E-04	-5.2476672E-05	
64	2.9934399E-04	-5.3327685E-05	
65	2.8863131E-04	-5.3716263E-05	
66	2.7789324E-04	-5.3568644E-05	
67	2.6724485E-04	-5.2805945E-05	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 608 di 1221							
18 D	7.709	-5.3043E-04	102.8	38.54	102.8	54.48	ACTIVE	0.000	-3.400	0.000	1.000	1.000
38.54	0.000	0.000	Stratol_2_8_L_0									
19 D	8.113	-5.2335E-04	108.2	40.57	108.2	57.33	ACTIVE	0.000	-3.600	0.000	1.000	1.000
40.57	0.000	0.000	Stratol_2_8_L_0									
20 D	8.322	-5.1657E-04	111.0	41.61	111.0	58.81	ACTIVE	0.000	-3.800	0.000	1.000	1.000
41.61	0.000	0.000	Stratol_2_8_L_0									
21 D	8.713	-5.1013E-04	116.2	43.57	116.2	61.57	ACTIVE	0.000	-4.000	0.000	1.000	1.000
43.57	0.000	0.000	Stratol_2_8_L_0									
22 D	8.927	-5.0402E-04	119.0	44.64	119.0	63.09	ACTIVE	0.000	-4.200	0.000	1.000	1.000
44.64	0.000	0.000	Stratol_2_8_L_0									
23 D	9.325	-4.9827E-04	124.1	46.63	124.1	65.78	UL-RL	3.8431E+04	-4.400	0.000	1.000	1.000
46.63	0.000	0.000	Stratol_2_8_L_0									
24 D	9.643	-4.9289E-04	126.7	48.21	126.7	67.16	UL-RL	3.8431E+04	-4.600	0.000	1.000	1.000
48.21	0.000	0.000	Stratol_2_8_L_0									
25 D	10.21	-4.8788E-04	131.7	51.04	131.7	69.79	UL-RL	3.8431E+04	-4.800	0.000	1.000	1.000
51.04	0.000	0.000	Stratol_2_8_L_0									
26 D	10.56	-4.8324E-04	134.7	52.80	134.7	71.38	UL-RL	3.8431E+04	-5.000	0.000	1.000	1.000
52.80	0.000	0.000	Stratol_2_8_L_0									
27 D	11.11	-4.7894E-04	139.5	55.55	139.5	73.96	UL-RL	3.8431E+04	-5.200	0.000	1.000	1.000
55.55	0.000	0.000	Stratol_2_8_L_0									
28 D	11.46	-4.7500E-04	142.6	57.31	142.6	75.57	UL-RL	3.8431E+04	-5.400	0.000	1.000	1.000
57.31	0.000	0.000	Stratol_2_8_L_0									
29 D	12.00	-4.7137E-04	147.4	59.99	147.4	78.10	UL-RL	3.8431E+04	-5.600	0.000	1.000	1.000
59.99	0.000	0.000	Stratol_2_8_L_0									
30 D	12.35	-4.6805E-04	150.4	61.75	150.4	79.74	UL-RL	3.8431E+04	-5.800	0.000	1.000	1.000
61.75	0.000	0.000	Stratol_2_8_L_0									
31 D	12.85	-4.6500E-04	154.9	64.24	154.9	82.11	UL-RL	3.8431E+04	-6.000	0.000	1.000	1.000
64.24	0.000	0.000	Stratol_2_8_L_0									
32 D	13.20	-4.6220E-04	158.0	66.00	158.0	83.76	UL-RL	3.8431E+04	-6.200	0.000	1.000	1.000
66.00	0.000	0.000	Stratol_2_8_L_0									
33 D	13.71	-4.5962E-04	162.7	68.57	162.7	86.23	UL-RL	3.8431E+04	-6.400	0.000	1.000	1.000
68.57	0.000	0.000	Stratol_2_8_L_0									
34 D	14.07	-4.5722E-04	165.9	70.34	165.9	87.91	UL-RL	3.8431E+04	-6.600	0.000	1.000	1.000
70.34	0.000	0.000	Stratol_2_8_L_0									
35 D	14.57	-4.5497E-04	170.5	72.87	170.5	90.35	UL-RL	3.8431E+04	-6.800	0.000	1.000	1.000
72.87	0.000	0.000	Stratol_2_8_L_0									
36 D	14.93	-4.5283E-04	173.7	74.64	173.7	92.04	UL-RL	3.8431E+04	-7.000	0.000	1.000	1.000
74.64	0.000	0.000	Stratol_2_8_L_0									
37 D	15.43	-4.5077E-04	178.2	77.13	178.2	94.46	UL-RL	3.8431E+04	-7.200	0.000	1.000	1.000
77.13	0.000	0.000	Stratol_2_8_L_0									
38 D	15.78	-4.4874E-04	181.4	78.92	181.4	96.16	UL-RL	3.8431E+04	-7.400	0.000	1.000	1.000
78.92	0.000	0.000	Stratol_2_8_L_0									
39 D	16.26	-4.4670E-04	185.8	81.29	185.8	98.45	UL-RL	3.8431E+04	-7.600	0.000	1.000	1.000
81.29	0.000	0.000	Stratol_2_8_L_0									
40 D	16.62	-4.4462E-04	189.0	83.09	189.0	100.2	UL-RL	3.8431E+04	-7.800	0.000	1.000	1.000
83.09	0.000	0.000	Stratol_2_8_L_0									
41 D	17.11	-4.4245E-04	193.5	85.55	193.5	102.5	UL-RL	3.8431E+04	-8.000	0.000	1.000	1.000
85.55	0.000	0.000	Stratol_2_8_L_0									
42 D	17.47	-4.4015E-04	196.8	87.37	196.8	104.3	UL-RL	3.8431E+04	-8.200	0.000	1.000	1.000
87.37	0.000	0.000	Stratol_2_8_L_0									
43 D	17.96	-4.3768E-04	201.2	89.82	201.2	106.6	UL-RL	3.8431E+04	-8.400	0.000	1.000	1.000
89.82	0.000	0.000	Stratol_2_8_L_0									
44 D	18.33	-4.3501E-04	204.5	91.67	204.5	108.4	UL-RL	3.8431E+04	-8.600	0.000	1.000	1.000
91.67	0.000	0.000	Stratol_2_8_L_0									
45 D	18.82	-4.3209E-04	208.9	94.12	208.9	110.7	UL-RL	3.8431E+04	-8.800	0.000	1.000	1.000
94.12	0.000	0.000	Stratol_2_8_L_0									
46 D	19.18	-4.2889E-04	212.1	95.91	212.1	112.4	UL-RL	3.8431E+04	-9.000	0.000	1.000	1.000
95.91	0.000	0.000	Stratol_2_8_L_0									
47 D	19.67	-4.2537E-04	216.5	98.37	216.5	114.7	UL-RL	3.8431E+04	-9.200	0.000	1.000	1.000
98.37	0.000	0.000	Stratol_2_8_L_0									
48 D	20.06	-4.2151E-04	219.8	100.3	219.8	116.5	UL-RL	3.8431E+04	-9.400	0.000	1.000	1.000
100.3	0.000	0.000	Stratol_2_8_L_0									
49 D	20.55	-4.1726E-04	224.2	102.8	224.2	118.8	UL-RL	3.8431E+04	-9.600	0.000	1.000	1.000
102.8	0.000	0.000	Stratol_2_8_L_0									
50 D	20.94	-4.1260E-04	227.5	104.7	227.5	120.6	UL-RL	3.8431E+04	-9.800	0.000	1.000	1.000
104.7	0.000	0.000	Stratol_2_8_L_0									
51 D	21.44	-4.0750E-04	231.8	107.2	231.8	122.9	UL-RL	3.8431E+04	-10.00	0.000	1.000	1.000
107.2	0.000	0.000	Stratol_2_8_L_0									
52 D	21.84	-4.0195E-04	235.2	109.2	235.2	124.7	UL-RL	3.8431E+04	-10.20	0.000	1.000	1.000
109.2	0.000	0.000	Stratol_2_8_L_0									
53 D	22.35	-3.9592E-04	239.5	111.7	239.5	126.9	UL-RL	3.8431E+04	-10.40	0.000	1.000	1.000
111.7	0.000	0.000	Stratol_2_8_L_0									
54 D	22.74	-3.8941E-04	242.8	113.7	242.8	128.7	UL-RL	3.8431E+04	-10.60	0.000	1.000	1.000
113.7	0.000	0.000	Stratol_2_8_L_0									
55 D	23.25	-3.8240E-04	247.1	116.2	247.1	130.9	UL-RL	3.8431E+04	-10.80	0.000	1.000	1.000
116.2	0.000	0.000	Stratol_2_8_L_0									
56 D	23.67	-3.7490E-04	250.5	118.3	250.5	132.7	UL-RL	3.8431E+04	-11.00	0.000	1.000	1.000
118.3	0.000	0.000	Stratol_2_8_L_0									
57 D	24.18	-3.6691E-04	254.7	120.9	254.7	135.0	UL-RL	3.8431E+04	-11.20	0.000	1.000	1.000
120.9	0.000	0.000	Stratol_2_8_L_0									
58 D	24.61	-3.5844E-04	258.2	123.0	258.2	136.8	UL-RL	3.8431E+04	-11.40	0.000	1.000	1.000
123.0	0.000	0.000	Stratol_2_8_L_0									
59 D	25.13	-3.4951E-04	262.4	125.6	262.4	139.1	UL-RL	3.8431E+04	-11.60	0.000	1.000	1.000
125.6	0.000	0.000	Stratol_2_8_L_0									
60 D	25.56	-3.4015E-04	265.8	127.8	265.8	140.9	UL-RL	3.8431E+04	-11.80	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 609 di 1221
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127.8	0.000	0.000	Strato1_2_8_L_0									
61 D	26.08	-3.3040E-04	270.0	130.4	270.0	143.1	UL-RL	3.8431E+04	-12.00	0.000	1.000	1.000
130.4	0.000	0.000	Strato1_2_8_L_0									
62 D	26.52	-3.2031E-04	273.4	132.6	273.4	144.9	UL-RL	3.8431E+04	-12.20	0.000	1.000	1.000
132.6	0.000	0.000	Strato1_2_8_L_0									
63 D	27.05	-3.0993E-04	277.6	135.2	277.6	147.1	UL-RL	3.8431E+04	-12.40	0.000	1.000	1.000
135.2	0.000	0.000	Strato1_2_8_L_0									
64 D	27.49	-2.9934E-04	281.1	137.5	281.1	149.0	UL-RL	3.8431E+04	-12.60	0.000	1.000	1.000
137.5	0.000	0.000	Strato1_2_8_L_0									
65 D	28.02	-2.8863E-04	285.3	140.1	285.3	151.2	UL-RL	3.8431E+04	-12.80	0.000	1.000	1.000
140.1	0.000	0.000	Strato1_2_8_L_0									
66 D	28.47	-2.7789E-04	288.7	142.4	288.7	153.0	UL-RL	3.8431E+04	-13.00	0.000	1.000	1.000
142.4	0.000	0.000	Strato1_2_8_L_0									
67 D	23.60	-2.6724E-04	293.0	118.0	293.0	146.5	UL-RL	1.0666E+05	-13.20	0.000	1.000	1.000
118.0	0.000	0.000	Strato2_3095_82743_L_0									
68 D	24.19	-2.5681E-04	296.7	121.0	296.7	148.4	UL-RL	1.0666E+05	-13.40	0.000	1.000	1.000
121.0	0.000	0.000	Strato2_3095_82743_L_0									
69 D	24.84	-2.4669E-04	301.0	124.2	301.0	150.5	UL-RL	1.0666E+05	-13.60	0.000	1.000	1.000
124.2	0.000	0.000	Strato2_3095_82743_L_0									
70 D	25.41	-2.3698E-04	304.7	127.1	304.7	152.3	UL-RL	1.0666E+05	-13.80	0.000	1.000	1.000
127.1	0.000	0.000	Strato2_3095_82743_L_0									
71 D	26.05	-2.2772E-04	309.0	130.2	309.0	154.5	UL-RL	1.0666E+05	-14.00	0.000	1.000	1.000
130.2	0.000	0.000	Strato2_3095_82743_L_0									
72 D	26.60	-2.1897E-04	312.7	133.0	312.7	156.4	UL-RL	1.0666E+05	-14.20	0.000	1.000	1.000
133.0	0.000	0.000	Strato2_3095_82743_L_0									
73 D	27.21	-2.1073E-04	317.1	136.1	317.1	158.5	UL-RL	1.0666E+05	-14.40	0.000	1.000	1.000
136.1	0.000	0.000	Strato2_3095_82743_L_0									
74 D	27.75	-2.0303E-04	320.8	138.7	320.8	160.4	UL-RL	1.0666E+05	-14.60	0.000	1.000	1.000
138.7	0.000	0.000	Strato2_3095_82743_L_0									
75 D	28.34	-1.9586E-04	325.1	141.7	325.1	162.6	UL-RL	1.0666E+05	-14.80	0.000	1.000	1.000
141.7	0.000	0.000	Strato2_3095_82743_L_0									
76 D	28.84	-1.8921E-04	328.7	144.2	328.7	164.4	UL-RL	1.0666E+05	-15.00	0.000	1.000	1.000
144.2	0.000	0.000	Strato2_3095_82743_L_0									
77 D	29.41	-1.8304E-04	333.1	147.0	333.1	166.5	UL-RL	1.0666E+05	-15.20	0.000	1.000	1.000
147.0	0.000	0.000	Strato2_3095_82743_L_0									
78 D	29.90	-1.7734E-04	336.8	149.5	336.8	168.4	UL-RL	1.0666E+05	-15.40	0.000	1.000	1.000
149.5	0.000	0.000	Strato2_3095_82743_L_0									
79 D	30.44	-1.7207E-04	341.1	152.2	341.1	170.6	UL-RL	1.0666E+05	-15.60	0.000	1.000	1.000
152.2	0.000	0.000	Strato2_3095_82743_L_0									
80 D	30.92	-1.6719E-04	344.9	154.6	344.9	172.4	UL-RL	1.0666E+05	-15.80	0.000	1.000	1.000
154.6	0.000	0.000	Strato2_3095_82743_L_0									
81 D	31.45	-1.6264E-04	349.2	157.2	349.2	174.6	UL-RL	1.0666E+05	-16.00	0.000	1.000	1.000
157.2	0.000	0.000	Strato2_3095_82743_L_0									
82 D	31.97	-1.5840E-04	353.5	159.9	353.5	176.8	UL-RL	1.0666E+05	-16.20	0.000	1.000	1.000
159.9	0.000	0.000	Strato2_3095_82743_L_0									
83 D	32.43	-1.5441E-04	357.2	162.1	357.2	178.6	UL-RL	1.0666E+05	-16.40	0.000	1.000	1.000
162.1	0.000	0.000	Strato2_3095_82743_L_0									
84 D	32.93	-1.5063E-04	361.5	164.7	361.5	180.7	UL-RL	1.0666E+05	-16.60	0.000	1.000	1.000
164.7	0.000	0.000	Strato2_3095_82743_L_0									
85 D	33.38	-1.4702E-04	365.2	166.9	365.2	182.6	UL-RL	1.0666E+05	-16.80	0.000	1.000	1.000
166.9	0.000	0.000	Strato2_3095_82743_L_0									
86 D	33.89	-1.4355E-04	369.5	169.4	369.5	184.7	UL-RL	1.0666E+05	-17.00	0.000	1.000	1.000
169.4	0.000	0.000	Strato2_3095_82743_L_0									
87 D	34.33	-1.4016E-04	373.2	171.7	373.2	186.6	UL-RL	1.0666E+05	-17.20	0.000	1.000	1.000
171.7	0.000	0.000	Strato2_3095_82743_L_0									
88 D	34.83	-1.3684E-04	377.5	174.2	377.5	188.8	UL-RL	1.0666E+05	-17.40	0.000	1.000	1.000
174.2	0.000	0.000	Strato2_3095_82743_L_0									
89 D	35.28	-1.3355E-04	381.3	176.4	381.3	190.6	UL-RL	1.0666E+05	-17.60	0.000	1.000	1.000
176.4	0.000	0.000	Strato2_3095_82743_L_0									
90 D	35.78	-1.3028E-04	385.6	178.9	385.6	192.8	UL-RL	1.0666E+05	-17.80	0.000	1.000	1.000
178.9	0.000	0.000	Strato2_3095_82743_L_0									
91 D	18.11	-1.2702E-04	389.2	181.1	389.2	194.6	UL-RL	1.0666E+05	-18.00	0.000	1.000	1.000
181.1	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A2M2R1_3514                                                                                       |
|          Exe Time :29 July 2019          18:00:09                                                                                           |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 611 di 1221							
41 D	17.03	4.4245E-04	152.0	85.16	152.0	85.45	UL-RL	3.2526E+04	-8.000	0.000	1.000	1.000
85.16	0.000	0.000	Strato1_2_8_L_0									
42 D	17.43	4.4015E-04	155.8	87.14	155.8	87.45	UL-RL	3.2526E+04	-8.200	0.000	1.000	1.000
87.14	0.000	0.000	Strato1_2_8_L_0									
43 D	17.82	4.3768E-04	159.6	89.11	159.6	89.44	UL-RL	3.2526E+04	-8.400	0.000	1.000	1.000
89.11	0.000	0.000	Strato1_2_8_L_0									
44 D	18.22	4.3501E-04	163.4	91.09	163.4	91.43	UL-RL	3.2526E+04	-8.600	0.000	1.000	1.000
91.09	0.000	0.000	Strato1_2_8_L_0									
45 D	18.61	4.3209E-04	167.2	93.07	167.2	93.42	UL-RL	3.2526E+04	-8.800	0.000	1.000	1.000
93.07	0.000	0.000	Strato1_2_8_L_0									
46 D	19.01	4.2889E-04	171.0	95.05	171.0	95.40	UL-RL	3.2526E+04	-9.000	0.000	1.000	1.000
95.05	0.000	0.000	Strato1_2_8_L_0									
47 D	19.41	4.2537E-04	174.8	97.03	174.8	97.37	UL-RL	3.2526E+04	-9.200	0.000	1.000	1.000
97.03	0.000	0.000	Strato1_2_8_L_0									
48 D	19.80	4.2151E-04	178.6	99.00	178.6	99.34	UL-RL	3.2526E+04	-9.400	0.000	1.000	1.000
99.00	0.000	0.000	Strato1_2_8_L_0									
49 D	20.20	4.1726E-04	182.4	101.0	182.4	101.3	UL-RL	3.2526E+04	-9.600	0.000	1.000	1.000
101.0	0.000	0.000	Strato1_2_8_L_0									
50 D	20.59	4.1260E-04	186.2	102.9	186.2	103.3	UL-RL	3.2526E+04	-9.800	0.000	1.000	1.000
102.9	0.000	0.000	Strato1_2_8_L_0									
51 D	20.98	4.0750E-04	190.0	104.9	190.0	105.2	UL-RL	3.2526E+04	-10.00	0.000	1.000	1.000
104.9	0.000	0.000	Strato1_2_8_L_0									
52 D	21.38	4.0195E-04	193.8	106.9	193.8	107.2	UL-RL	3.2526E+04	-10.20	0.000	1.000	1.000
106.9	0.000	0.000	Strato1_2_8_L_0									
53 D	21.77	3.9592E-04	197.6	108.8	197.6	109.1	UL-RL	3.2526E+04	-10.40	0.000	1.000	1.000
108.8	0.000	0.000	Strato1_2_8_L_0									
54 D	22.16	3.8941E-04	201.4	110.8	201.4	111.0	UL-RL	3.2526E+04	-10.60	0.000	1.000	1.000
110.8	0.000	0.000	Strato1_2_8_L_0									
55 D	22.55	3.8240E-04	205.2	112.7	205.2	113.0	UL-RL	3.2526E+04	-10.80	0.000	1.000	1.000
112.7	0.000	0.000	Strato1_2_8_L_0									
56 D	22.94	3.7490E-04	209.0	114.7	209.0	114.9	UL-RL	3.2526E+04	-11.00	0.000	1.000	1.000
114.7	0.000	0.000	Strato1_2_8_L_0									
57 D	23.33	3.6691E-04	212.8	116.6	212.8	116.8	UL-RL	3.2526E+04	-11.20	0.000	1.000	1.000
116.6	0.000	0.000	Strato1_2_8_L_0									
58 D	23.71	3.5844E-04	216.6	118.6	216.6	118.7	UL-RL	3.2526E+04	-11.40	0.000	1.000	1.000
118.6	0.000	0.000	Strato1_2_8_L_0									
59 D	24.10	3.4951E-04	220.4	120.5	220.4	120.7	UL-RL	3.2526E+04	-11.60	0.000	1.000	1.000
120.5	0.000	0.000	Strato1_2_8_L_0									
60 D	24.48	3.4015E-04	224.2	122.4	224.2	122.6	UL-RL	3.2526E+04	-11.80	0.000	1.000	1.000
122.4	0.000	0.000	Strato1_2_8_L_0									
61 D	24.87	3.3040E-04	228.0	124.3	228.0	124.5	UL-RL	3.2526E+04	-12.00	0.000	1.000	1.000
124.3	0.000	0.000	Strato1_2_8_L_0									
62 D	25.25	3.2031E-04	231.8	126.2	231.8	126.4	UL-RL	3.2526E+04	-12.20	0.000	1.000	1.000
126.2	0.000	0.000	Strato1_2_8_L_0									
63 D	25.63	3.0993E-04	235.6	128.2	235.6	128.3	UL-RL	3.2526E+04	-12.40	0.000	1.000	1.000
128.2	0.000	0.000	Strato1_2_8_L_0									
64 D	26.01	2.9934E-04	239.4	130.1	239.4	130.2	UL-RL	3.2526E+04	-12.60	0.000	1.000	1.000
130.1	0.000	0.000	Strato1_2_8_L_0									
65 D	26.39	2.8863E-04	243.2	132.0	243.2	132.1	UL-RL	3.2526E+04	-12.80	0.000	1.000	1.000
132.0	0.000	0.000	Strato1_2_8_L_0									
66 D	26.78	2.7789E-04	247.0	133.9	247.0	133.9	UL-RL	3.2526E+04	-13.00	0.000	1.000	1.000
133.9	0.000	0.000	Strato1_2_8_L_0									
67 D	26.38	2.6724E-04	250.9	131.9	250.9	132.0	UL-RL	7.3249E+04	-13.20	0.000	1.000	1.000
131.9	0.000	0.000	Strato2_3095_82743_L_0									
68 D	26.73	2.5681E-04	254.9	133.6	254.9	133.8	UL-RL	7.3249E+04	-13.40	0.000	1.000	1.000
133.6	0.000	0.000	Strato2_3095_82743_L_0									
69 D	27.08	2.4669E-04	258.9	135.4	258.9	135.5	UL-RL	7.3249E+04	-13.60	0.000	1.000	1.000
135.4	0.000	0.000	Strato2_3095_82743_L_0									
70 D	27.44	2.3698E-04	262.9	137.2	262.9	137.3	UL-RL	7.3249E+04	-13.80	0.000	1.000	1.000
137.2	0.000	0.000	Strato2_3095_82743_L_0									
71 D	27.80	2.2772E-04	266.9	139.0	266.9	139.0	UL-RL	7.3249E+04	-14.00	0.000	1.000	1.000
139.0	0.000	0.000	Strato2_3095_82743_L_0									
72 D	28.15	2.1897E-04	270.9	140.8	270.9	140.8	UL-RL	7.3249E+04	-14.20	0.000	1.000	1.000
140.8	0.000	0.000	Strato2_3095_82743_L_0									
73 D	28.52	2.1073E-04	274.9	142.6	274.9	142.6	UL-RL	7.3249E+04	-14.40	0.000	1.000	1.000
142.6	0.000	0.000	Strato2_3095_82743_L_0									
74 D	28.88	2.0303E-04	278.9	144.4	278.9	144.4	UL-RL	7.3249E+04	-14.60	0.000	1.000	1.000
144.4	0.000	0.000	Strato2_3095_82743_L_0									
75 D	29.25	1.9586E-04	282.9	146.2	282.9	146.2	UL-RL	7.3249E+04	-14.80	0.000	1.000	1.000
146.2	0.000	0.000	Strato2_3095_82743_L_0									
76 D	29.61	1.8921E-04	286.9	148.1	286.9	148.1	V-C	2.4416E+04	-15.00	0.000	1.000	1.000
148.1	0.000	0.000	Strato2_3095_82743_L_0									
77 D	29.98	1.8304E-04	290.9	149.9	290.9	149.9	V-C	2.4416E+04	-15.20	0.000	1.000	1.000
149.9	0.000	0.000	Strato2_3095_82743_L_0									
78 D	30.36	1.7734E-04	294.9	151.8	294.9	151.8	V-C	2.4416E+04	-15.40	0.000	1.000	1.000
151.8	0.000	0.000	Strato2_3095_82743_L_0									
79 D	30.73	1.7207E-04	298.9	153.7	298.9	153.7	V-C	2.4416E+04	-15.60	0.000	1.000	1.000
153.7	0.000	0.000	Strato2_3095_82743_L_0									
80 D	31.11	1.6719E-04	302.9	155.5	302.9	155.5	V-C	2.4416E+04	-15.80	0.000	1.000	1.000
155.5	0.000	0.000	Strato2_3095_82743_L_0									
81 D	31.48	1.6264E-04	306.9	157.4	306.9	157.4	V-C	2.4416E+04	-16.00	0.000	1.000	1.000
157.4	0.000	0.000	Strato2_3095_82743_L_0									
82 D	31.86	1.5840E-04	310.9	159.3	310.9	159.3	UL-RL	7.3249E+04	-16.20	0.000	1.000	1.000
159.3	0.000	0.000	Strato2_3095_82743_L_0									
83 D	32.24	1.5441E-04	314.9	161.2	314.9	161.2	UL-RL	7.3249E+04	-16.40	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 612 di 1221
161.2	0.000	0.000	Strato2_3095_82743_L_0		
84 D	32.63	1.5063E-04	318.9 163.1	318.9	163.1
163.1	0.000	0.000	Strato2_3095_82743_L_0		
85 D	33.01	1.4702E-04	322.9 165.0	322.9	165.0
165.0	0.000	0.000	Strato2_3095_82743_L_0		
86 D	33.39	1.4355E-04	326.9 167.0	326.9	167.0
167.0	0.000	0.000	Strato2_3095_82743_L_0		
87 D	33.77	1.4016E-04	330.9 168.9	330.9	168.9
168.9	0.000	0.000	Strato2_3095_82743_L_0		
88 D	34.16	1.3684E-04	334.9 170.8	334.9	170.8
170.8	0.000	0.000	Strato2_3095_82743_L_0		
89 D	34.54	1.3355E-04	338.9 172.7	338.9	172.7
172.7	0.000	0.000	Strato2_3095_82743_L_0		
90 D	34.92	1.3028E-04	342.9 174.6	342.9	174.6
174.6	0.000	0.000	Strato2_3095_82743_L_0		
91 D	17.65	1.2702E-04	346.9 176.5	346.9	176.6
176.5	0.000	0.000	Strato2_3095_82743_L_0		

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|
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|
|          Exe Time :29 July 2019      18:00:09
|
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New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.48750	-0.48750	9.47553E-12	9.75000E-02
2	-0.42218	0.42218	-9.75000E-02	1.30633E-02
3	-0.14902	0.14902	-1.30633E-02	-1.67414E-02
4	-0.13421	0.13421	1.67414E-02	-4.35834E-02
5	0.42269	-0.42269	4.35834E-02	4.09542E-02
6	0.70912	-0.70912	-4.09542E-02	0.18278
7	1.2982	-1.2982	-0.18278	0.44241
8	1.6350	-1.6350	-0.44241	0.76941
9	2.0959	-2.0959	-0.76941	1.1886
10	2.3305	-2.3305	-1.1886	1.6547
11	2.6951	-2.6951	-1.6547	2.1937
12	2.8463	-2.8463	-2.1937	2.7630
13	3.0837	-3.0837	-2.7630	3.3797
14	3.1184	-3.1184	-3.3797	4.0034
15	3.2088	-3.2088	-4.0034	4.6452
16	3.0692	-3.0692	-4.6452	5.2590
17	2.9649	-2.9649	-5.2590	5.8520
18	2.6760	-2.6760	-5.8520	6.3872
19	2.4041	-2.4041	-6.3872	6.8680
20	1.9528	-1.9528	-6.8680	7.2585
21	1.5037	-1.5037	-7.2585	7.5593
22	0.87946	-0.87946	-7.5593	7.7352
23	0.26269	-0.26269	-7.7352	7.7877
24	-0.42778	0.42778	-7.7877	7.7022
25	-0.94495	0.94495	-7.7022	7.5132
26	-1.5020	1.5020	-7.5132	7.2128
27	-1.9034	1.9034	-7.2128	6.8321
28	-2.3464	2.3464	-6.8321	6.3628
29	-2.6493	2.6493	-6.3628	5.8330
30	-2.9954	2.9954	-5.8330	5.2339
31	-3.2407	3.2407	-5.2339	4.5857
32	-3.5295	3.5295	-4.5857	3.8798
33	-3.7017	3.7017	-3.8798	3.1395
34	-3.9178	3.9178	-3.1395	2.3559
35	-4.0265	4.0265	-2.3559	1.5506
36	-4.1725	4.1725	-1.5506	0.71612
37	-4.2089	4.2089	-0.71612	-0.12566
38	-4.2786	4.2786	0.12566	-0.98137
39	-4.2669	4.2669	0.98137	-1.8348
40	-4.2875	4.2875	1.8348	-2.6923
41	-4.2107	4.2107	2.6923	-3.5344
42	-4.1637	4.1637	3.5344	-4.3671
43	-4.0220	4.0220	4.3671	-5.1715
44	-3.9059	3.9059	5.1715	-5.9527
45	-3.6956	3.6956	5.9527	-6.6919

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 613 di 1221
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46	-3.5223	3.5223	6.6919	-7.3963
47	-3.2527	3.2527	7.3963	-8.0469
48	-2.9948	2.9948	8.0469	-8.6458
49	-2.6368	2.6368	8.6458	-9.1732
50	-2.2818	2.2818	9.1732	-9.6295
51	-1.8216	1.8216	9.6295	-9.9939
52	-1.3542	1.3542	9.9939	-10.265
53	-0.77526	0.77526	10.265	-10.420
54	-0.19327	0.19327	10.420	-10.458
55	0.50796	-0.50796	10.458	-10.357
56	1.2384	-1.2384	10.357	-10.109
57	2.0957	-2.0957	10.109	-9.6900
58	2.9932	-2.9932	9.6900	-9.0914
59	4.0249	-4.0249	9.0914	-8.2864
60	5.1069	-5.1069	8.2864	-7.2650
61	6.3165	-6.3165	7.2650	-6.0017
62	7.5852	-7.5852	6.0017	-4.4847
63	8.9997	-8.9997	4.4847	-2.6847
64	10.479	-10.479	2.6847	-0.58886
65	12.107	-12.107	0.58886	1.8325
66	13.802	-13.802	-1.8325	4.5929
67	11.028	-11.028	-4.5929	6.7985
68	8.4909	-8.4909	-6.7985	8.4966
69	6.2442	-6.2442	-8.4966	9.7455
70	4.2175	-4.2175	-9.7455	10.589
71	2.4690	-2.4690	-10.589	11.083
72	0.91660	-0.91660	-11.083	11.266
73	-0.38499	0.38499	-11.266	11.189
74	-1.5170	1.5170	-11.189	10.886
75	-2.4266	2.4266	-10.886	10.400
76	-3.2018	3.2018	-10.400	9.7600
77	-3.7806	3.7806	-9.7600	9.0039
78	-4.2391	4.2391	-9.0039	8.1561
79	-4.5255	4.5255	-8.1561	7.2510
80	-4.7123	4.7123	-7.2510	6.3085
81	-4.7472	4.7472	-6.3085	5.3591
82	-4.6387	4.6387	-5.3591	4.4313
83	-4.4532	4.4532	-4.4313	3.5407
84	-4.1462	4.1462	-3.5407	2.7114
85	-3.7715	3.7715	-2.7114	1.9571
86	-3.2749	3.2749	-1.9571	1.3021
87	-2.7158	2.7158	-1.3021	0.75893
88	-2.0397	2.0397	-0.75893	0.35098
89	-1.3032	1.3032	-0.35098	9.03493E-02
90	-0.45175	0.45175	-9.03493E-02	-9.33420E-14

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019  18:00:09                               |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019  18:00:09                               |
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 614 di 1221
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ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 C U R R E N T T I M E I S 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL FORCE d0 EDISPL pl. eps K -ve limit +ve limit

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER 0 RNORM = 0.000      RMNORM= 0.000
      RINORM=0.7699E+05 RIMNOR= 7388.
      RENORM= 868.9      REMNOR=0.1209E-20 RATIO =0.1062      TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 35.78      RMMAX = 11.27
      RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
      RDT =0.7699E+05 RDR = 7388.
      RATIO=0.1062      RATIO= 0.000
      MAX UN= 7.998      IEQ= 35 NODE      18 DOF 1 Y-DISPL.F
      MIN UN=-.1624E-09 IEQ= 45 NODE      23 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000      RMNORM= 0.000
      RINORM=0.7699E+05 RIMNOR= 7388.
      RENORM= 949.9      REMNOR=0.9435E-18 RATIO =0.1111      TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 35.78      RMMAX = 11.27
      RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
      RDT =0.7699E+05 RDR = 7388.
      RATIO=0.1111      RATIO= 0.000
      MAX UN= 16.76      IEQ= 45 NODE      23 DOF 1 Y-DISPL.F
      MIN UN=-.3348E-08 IEQ= 13 NODE      7 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000      RMNORM= 0.000
      RINORM=0.7699E+05 RIMNOR= 7388.
      RENORM= 177.8      REMNOR=0.1719E-17 RATIO =0.4805E-01 TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 35.78      RMMAX = 11.27
      RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
      RDT =0.7699E+05 RDR = 7388.
      RATIO=0.4805E-01 RATIO= 0.000
      MAX UN= 7.269      IEQ= 75 NODE      38 DOF 1 Y-DISPL.F
      MIN UN=-.6313E-08 IEQ= 15 NODE      8 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000      RMNORM= 0.000
      RINORM=0.7699E+05 RIMNOR= 7388.
      RENORM= 3.689      REMNOR=0.4823E-18 RATIO =0.6922E-02 TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 35.78      RMMAX = 11.27
      RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
      RDT =0.7699E+05 RDR = 7388.
      RATIO=0.6922E-02 RATIO= 0.000
      MAX UN= 1.563      IEQ= 91 NODE      46 DOF 1 Y-DISPL.F
      MIN UN=-.5651E-08 IEQ= 5 NODE      3 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000      RMNORM= 0.000
      RINORM=0.7699E+05 RIMNOR= 7388.
      RENORM=0.6546E-02 REMNOR=0.3479E-18 RATIO =0.2916E-03 TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 35.78      RMMAX = 11.27
      RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
      RDT =0.7699E+05 RDR = 7388.
      RATIO=0.2916E-03 RATIO= 0.000
      MAX UN=0.7938E-01 IEQ= 95 NODE      48 DOF 1 Y-DISPL.F
      MIN UN=-.3550E-08 IEQ= 21 NODE      11 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000      RMNORM= 0.000
      RINORM=0.7699E+05 RIMNOR= 7388.
      RENORM=0.2536E-15 REMNOR=0.6008E-18 RATIO =0.5739E-10 TOLER =0.1000E-03 CONVERGED !
      RFMAX = 35.78      RMMAX = 11.27
      RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
      RDT =0.7699E+05 RDR = 7388.
      RATIO=0.5739E-10 RATIO= 0.000
      MAX UN=0.6583E-08 IEQ= 15 NODE      8 DOF 1 Y-DISPL.F
      MIN UN=-.6431E-08 IEQ= 13 NODE      7 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



Doc. N.

Progetto
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Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
615 di 1221

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|           PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017*   |
|
|           NewProject.BaseDesignSection_28.A2M2R1_3514
|           Exe Time :29 July 2019          18:00:09
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New Project
SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)
1	2.3331199E-02	-3.0157009E-03
2	2.2728060E-02	-3.0156893E-03
3	2.2124926E-02	-3.0156325E-03
4	2.1521815E-02	-3.0154489E-03
5	2.0918763E-02	-3.0150171E-03
6	2.0315835E-02	-3.0141903E-03
7	1.9713125E-02	-3.0127973E-03
8	1.9110766E-02	-3.0106478E-03
9	1.8508930E-02	-3.0075321E-03
10	1.7907833E-02	-3.0032253E-03
11	1.7307736E-02	-2.9974866E-03
12	1.6708951E-02	-2.9900594E-03
13	1.6111843E-02	-2.9806706E-03
14	1.5516832E-02	-2.9690321E-03
15	1.4924400E-02	-2.9548401E-03
16	1.4335088E-02	-2.9377761E-03
17	1.3749503E-02	-2.9175074E-03
18	1.3168322E-02	-2.8936876E-03
19	1.2592289E-02	-2.8659555E-03
20	1.2022223E-02	-2.8339629E-03
21	1.1459007E-02	-2.7974291E-03
22	1.0903567E-02	-2.7561691E-03
23	1.0356860E-02	-2.7100929E-03
24	9.8198531E-03	-2.6592064E-03
25	9.2934942E-03	-2.6036106E-03
26	8.7787097E-03	-2.5435035E-03
27	8.2763740E-03	-2.4791782E-03
28	7.7872937E-03	-2.4110235E-03
29	7.3121929E-03	-2.3394796E-03
30	6.8517013E-03	-2.2649790E-03
31	6.4063709E-03	-2.1879351E-03
32	5.9766705E-03	-2.1087429E-03
33	5.5629918E-03	-2.0277794E-03
34	5.1656528E-03	-1.9454046E-03
35	4.7849031E-03	-1.8619623E-03
36	4.4209192E-03	-1.7777799E-03
37	4.0738195E-03	-1.6931712E-03
38	3.7436591E-03	-1.6084361E-03
39	3.4304344E-03	-1.5238618E-03
40	3.1340868E-03	-1.4397243E-03
41	2.8544994E-03	-1.3562881E-03
42	2.5915078E-03	-1.2738085E-03
43	2.3448958E-03	-1.1925315E-03
44	2.1143991E-03	-1.1126949E-03
45	1.8997075E-03	-1.0345294E-03
46	1.7004574E-03	-9.5825616E-04
47	1.5162590E-03	-8.8409763E-04
48	1.3466632E-03	-8.1226564E-04
49	1.1911844E-03	-7.4297008E-04
50	1.0492943E-03	-6.7640021E-04
51	9.2043228E-04	-6.1271121E-04
52	8.0400910E-04	-5.5202374E-04
53	6.9941606E-04	-4.9442836E-04
54	6.0602752E-04	-4.3998658E-04
55	5.2320874E-04	-3.8873510E-04
56	4.5031985E-04	-3.4068802E-04
57	3.8672034E-04	-2.9583885E-04
58	3.3177278E-04	-2.5416268E-04
59	2.8484661E-04	-2.1561627E-04
60	2.4532173E-04	-1.8013799E-04
61	2.1259206E-04	-1.4765003E-04
62	1.8606844E-04	-1.1806114E-04
63	1.6518117E-04	-9.1268813E-05
64	1.4938195E-04	-6.7161010E-05
65	1.3814578E-04	-4.5617962E-05
66	1.3097217E-04	-2.6513849E-05
67	1.2738634E-04	-9.7182579E-06
68	1.2694072E-04	4.9150971E-06
69	1.2921905E-04	1.7548512E-05

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 617 di 1221					
19 D	8.113	-1.2592E-02	108.2	40.57	108.2	57.33	ACTIVE	0.000	-3.600	0.000	1.000	1.000
40.57	0.000	0.000	Stratol_2_8_L_0									
20 D	8.322	-1.2022E-02	111.0	41.61	111.0	58.81	ACTIVE	0.000	-3.800	0.000	1.000	1.000
41.61	0.000	0.000	Stratol_2_8_L_0									
21 D	8.713	-1.1459E-02	116.2	43.57	116.2	61.57	ACTIVE	0.000	-4.000	0.000	1.000	1.000
43.57	0.000	0.000	Stratol_2_8_L_0									
22 D	8.927	-1.0904E-02	119.0	44.64	119.0	63.09	ACTIVE	0.000	-4.200	0.000	1.000	1.000
44.64	0.000	0.000	Stratol_2_8_L_0									
23 D	9.308	-1.0357E-02	124.1	46.54	124.1	65.78	ACTIVE	0.000	-4.400	0.000	1.000	1.000
46.54	0.000	0.000	Stratol_2_8_L_0									
24 D	9.503	-9.8199E-03	126.7	47.52	126.7	67.16	ACTIVE	0.000	-4.600	0.000	1.000	1.000
47.52	0.000	0.000	Stratol_2_8_L_0									
25 D	9.876	-9.2935E-03	131.7	49.38	131.7	69.79	ACTIVE	0.000	-4.800	0.000	1.000	1.000
49.38	0.000	0.000	Stratol_2_8_L_0									
26 D	10.10	-8.7787E-03	134.7	50.50	134.7	71.38	ACTIVE	0.000	-5.000	0.000	1.000	1.000
50.50	0.000	0.000	Stratol_2_8_L_0									
27 D	10.47	-8.2764E-03	139.5	52.33	139.5	73.96	ACTIVE	0.000	-5.200	0.000	1.000	1.000
52.33	0.000	0.000	Stratol_2_8_L_0									
28 D	10.69	-7.7873E-03	142.6	53.47	142.6	75.57	ACTIVE	0.000	-5.400	0.000	1.000	1.000
53.47	0.000	0.000	Stratol_2_8_L_0									
29 D	11.05	-7.3122E-03	147.4	55.26	147.4	78.10	ACTIVE	0.000	-5.600	0.000	1.000	1.000
55.26	0.000	0.000	Stratol_2_8_L_0									
30 D	11.28	-6.8517E-03	150.4	56.42	150.4	79.74	ACTIVE	0.000	-5.800	0.000	1.000	1.000
56.42	0.000	0.000	Stratol_2_8_L_0									
31 D	11.62	-6.4064E-03	154.9	58.09	154.9	82.11	ACTIVE	0.000	-6.000	0.000	1.000	1.000
58.09	0.000	0.000	Stratol_2_8_L_0									
32 D	11.85	-5.9767E-03	158.0	59.27	158.0	83.76	ACTIVE	0.000	-6.200	0.000	1.000	1.000
59.27	0.000	0.000	Stratol_2_8_L_0									
33 D	12.20	-5.5630E-03	162.7	61.01	162.7	86.23	ACTIVE	0.000	-6.400	0.000	1.000	1.000
61.01	0.000	0.000	Stratol_2_8_L_0									
34 D	12.44	-5.1657E-03	165.9	62.20	165.9	87.91	ACTIVE	0.000	-6.600	0.000	1.000	1.000
62.20	0.000	0.000	Stratol_2_8_L_0									
35 D	12.79	-4.7849E-03	170.5	63.93	170.5	90.35	ACTIVE	0.000	-6.800	0.000	1.000	1.000
63.93	0.000	0.000	Stratol_2_8_L_0									
36 D	13.02	-4.4209E-03	173.7	65.12	173.7	92.04	ACTIVE	0.000	-7.000	0.000	1.000	1.000
65.12	0.000	0.000	Stratol_2_8_L_0									
37 D	13.37	-4.0738E-03	178.2	66.83	178.2	94.46	ACTIVE	0.000	-7.200	0.000	1.000	1.000
66.83	0.000	0.000	Stratol_2_8_L_0									
38 D	13.61	-3.7437E-03	181.4	68.04	181.4	96.16	ACTIVE	0.000	-7.400	0.000	1.000	1.000
68.04	0.000	0.000	Stratol_2_8_L_0									
39 D	13.93	-3.4304E-03	185.8	69.66	185.8	98.45	ACTIVE	0.000	-7.600	0.000	1.000	1.000
69.66	0.000	0.000	Stratol_2_8_L_0									
40 D	14.18	-3.1341E-03	189.0	70.88	189.0	100.2	ACTIVE	0.000	-7.800	0.000	1.000	1.000
70.88	0.000	0.000	Stratol_2_8_L_0									
41 D	14.51	-2.8545E-03	193.5	72.56	193.5	102.5	ACTIVE	0.000	-8.000	0.000	1.000	1.000
72.56	0.000	0.000	Stratol_2_8_L_0									
42 D	14.76	-2.5915E-03	196.8	73.79	196.8	104.3	ACTIVE	0.000	-8.200	0.000	1.000	1.000
73.79	0.000	0.000	Stratol_2_8_L_0									
43 D	15.09	-2.3449E-03	201.2	75.45	201.2	106.6	ACTIVE	0.000	-8.400	0.000	1.000	1.000
75.45	0.000	0.000	Stratol_2_8_L_0									
44 D	15.34	-2.1144E-03	204.5	76.69	204.5	108.4	ACTIVE	0.000	-8.600	0.000	1.000	1.000
76.69	0.000	0.000	Stratol_2_8_L_0									
45 D	15.67	-1.8997E-03	208.9	78.34	208.9	110.7	ACTIVE	0.000	-8.800	0.000	1.000	1.000
78.34	0.000	0.000	Stratol_2_8_L_0									
46 D	15.91	-1.7005E-03	212.1	79.53	212.1	112.4	ACTIVE	0.000	-9.000	0.000	1.000	1.000
79.53	0.000	0.000	Stratol_2_8_L_0									
47 D	16.23	-1.5163E-03	216.5	81.17	216.5	114.7	ACTIVE	0.000	-9.200	0.000	1.000	1.000
81.17	0.000	0.000	Stratol_2_8_L_0									
48 D	16.48	-1.3467E-03	219.8	82.42	219.8	116.5	ACTIVE	0.000	-9.400	0.000	1.000	1.000
82.42	0.000	0.000	Stratol_2_8_L_0									
49 D	17.49	-1.1912E-03	224.2	87.47	224.2	118.8	UL-RL	1.9764E+04	-9.600	0.000	1.000	1.000
87.47	0.000	0.000	Stratol_2_8_L_0									
50 D	18.43	-1.0493E-03	227.5	92.14	227.5	120.6	UL-RL	1.9764E+04	-9.800	0.000	1.000	1.000
92.14	0.000	0.000	Stratol_2_8_L_0									
51 D	19.42	-9.2043E-04	231.8	97.08	231.8	122.9	UL-RL	1.9764E+04	-10.000	0.000	1.000	1.000
97.08	0.000	0.000	Stratol_2_8_L_0									
52 D	20.25	-8.0401E-04	235.2	101.3	235.2	124.7	UL-RL	1.9764E+04	-10.200	0.000	1.000	1.000
101.3	0.000	0.000	Stratol_2_8_L_0									
53 D	21.15	-6.9942E-04	239.5	105.7	239.5	126.9	UL-RL	1.9764E+04	-10.400	0.000	1.000	1.000
105.7	0.000	0.000	Stratol_2_8_L_0									
54 D	21.88	-6.0603E-04	242.8	109.4	242.8	128.7	UL-RL	1.9764E+04	-10.600	0.000	1.000	1.000
109.4	0.000	0.000	Stratol_2_8_L_0									
55 D	22.69	-5.2321E-04	247.1	113.5	247.1	130.9	UL-RL	1.9764E+04	-10.800	0.000	1.000	1.000
113.5	0.000	0.000	Stratol_2_8_L_0									
56 D	23.37	-4.5032E-04	250.5	116.8	250.5	132.7	UL-RL	1.9764E+04	-11.000	0.000	1.000	1.000
116.8	0.000	0.000	Stratol_2_8_L_0									
57 D	24.10	-3.8672E-04	254.7	120.5	254.7	135.0	UL-RL	1.9764E+04	-11.200	0.000	1.000	1.000
120.5	0.000	0.000	Stratol_2_8_L_0									
58 D	24.71	-3.3177E-04	258.2	123.6	258.2	136.8	UL-RL	1.9764E+04	-11.400	0.000	1.000	1.000
123.6	0.000	0.000	Stratol_2_8_L_0									
59 D	25.39	-2.8485E-04	262.4	126.9	262.4	139.1	UL-RL	1.9764E+04	-11.600	0.000	1.000	1.000
126.9	0.000	0.000	Stratol_2_8_L_0									
60 D	25.94	-2.4532E-04	265.8	129.7	265.8	140.9	UL-RL	1.9764E+04	-11.800	0.000	1.000	1.000
129.7	0.000	0.000	Stratol_2_8_L_0									
61 D	26.54	-2.1259E-04	270.0	132.7	270.0	143.1	UL-RL	1.9764E+04	-12.000	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 618 di 1221
132.7	0.000	0.000	Strato1_2_8_L_0		
62 D	27.05	-1.8607E-04	273.4 135.2	273.4	144.9
135.2	0.000	0.000	Strato1_2_8_L_0		
63 D	27.62	-1.6518E-04	277.6 138.1	277.6	147.1
138.1	0.000	0.000	Strato1_2_8_L_0		
64 D	28.09	-1.4938E-04	281.1 140.4	281.1	149.0
140.4	0.000	0.000	Strato1_2_8_L_0		
65 D	28.62	-1.3815E-04	285.3 143.1	285.3	151.2
143.1	0.000	0.000	Strato1_2_8_L_0		
66 D	29.05	-1.3097E-04	288.7 145.3	288.7	153.0
145.3	0.000	0.000	Strato1_2_8_L_0		
67 D	25.14	-1.2739E-04	293.0 125.7	293.0	146.5
125.7	0.000	0.000	Strato2_3095_82743_L_0		
68 D	25.62	-1.2694E-04	296.7 128.1	296.7	148.4
128.1	0.000	0.000	Strato2_3095_82743_L_0		
69 D	26.13	-1.2922E-04	301.0 130.6	301.0	150.5
130.6	0.000	0.000	Strato2_3095_82743_L_0		
70 D	26.54	-1.3384E-04	304.7 132.7	304.7	152.3
132.7	0.000	0.000	Strato2_3095_82743_L_0		
71 D	27.00	-1.4045E-04	309.0 135.0	309.0	154.5
135.0	0.000	0.000	Strato2_3095_82743_L_0		
72 D	27.37	-1.4873E-04	312.7 136.9	312.7	156.4
136.9	0.000	0.000	Strato2_3095_82743_L_0		
73 D	27.79	-1.5839E-04	317.1 138.9	317.1	158.5
138.9	0.000	0.000	Strato2_3095_82743_L_0		
74 D	28.12	-1.6920E-04	320.8 140.6	320.8	160.4
140.6	0.000	0.000	Strato2_3095_82743_L_0		
75 D	28.50	-1.8091E-04	325.1 142.5	325.1	162.6
142.5	0.000	0.000	Strato2_3095_82743_L_0		
76 D	28.79	-1.9333E-04	328.7 144.0	328.7	164.4
144.0	0.000	0.000	Strato2_3095_82743_L_0		
77 D	29.15	-2.0631E-04	333.1 145.7	333.1	166.5
145.7	0.000	0.000	Strato2_3095_82743_L_0		
78 D	29.43	-2.1969E-04	336.8 147.2	336.8	168.4
147.2	0.000	0.000	Strato2_3095_82743_L_0		
79 D	29.77	-2.3336E-04	341.1 148.9	341.1	170.6
148.9	0.000	0.000	Strato2_3095_82743_L_0		
80 D	30.04	-2.4722E-04	344.9 150.2	344.9	172.4
150.2	0.000	0.000	Strato2_3095_82743_L_0		
81 D	30.37	-2.6121E-04	349.2 151.8	349.2	174.6
151.8	0.000	0.000	Strato2_3095_82743_L_0		
82 D	30.69	-2.7525E-04	353.5 153.4	353.5	176.8
153.4	0.000	0.000	Strato2_3095_82743_L_0		
83 D	30.95	-2.8932E-04	357.2 154.7	357.2	178.6
154.7	0.000	0.000	Strato2_3095_82743_L_0		
84 D	31.26	-3.0337E-04	361.5 156.3	361.5	180.7
156.3	0.000	0.000	Strato2_3095_82743_L_0		
85 D	31.51	-3.1741E-04	365.2 157.6	365.2	182.6
157.6	0.000	0.000	Strato2_3095_82743_L_0		
86 D	31.83	-3.3141E-04	369.5 159.1	369.5	184.7
159.1	0.000	0.000	Strato2_3095_82743_L_0		
87 D	32.08	-3.4538E-04	373.2 160.4	373.2	186.6
160.4	0.000	0.000	Strato2_3095_82743_L_0		
88 D	32.39	-3.5932E-04	377.5 162.0	377.5	188.8
162.0	0.000	0.000	Strato2_3095_82743_L_0		
89 D	32.65	-3.7324E-04	381.3 163.2	381.3	190.6
163.2	0.000	0.000	Strato2_3095_82743_L_0		
90 D	32.96	-3.8715E-04	385.6 164.8	385.6	192.8
164.8	0.000	0.000	Strato2_3095_82743_L_0		
91 D	16.60	-4.0106E-04	389.2 166.0	389.2	194.6
166.0	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                           |
|          NewProject.BaseDesignSection_28.A2M2R1_3514                                                                                   |
|          Exe Time :29 July 2019  18:00:09                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 3.0000

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 FACTOR	UFACTOR
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 620 di 1221							
42 D	19.87	2.5915E-03	89.30	99.34	155.8	99.34	V-C	5576.	-8.200	0.000	1.000	1.000
99.34	0.000	0.000	Strato1_2_8_L_0									
43 D	19.99	2.3449E-03	93.10	99.97	159.6	99.97	V-C	5576.	-8.400	0.000	1.000	1.000
99.97	0.000	0.000	Strato1_2_8_L_0									
44 D	20.14	2.1144E-03	96.90	100.7	163.4	100.7	V-C	5576.	-8.600	0.000	1.000	1.000
100.7	0.000	0.000	Strato1_2_8_L_0									
45 D	20.30	1.8997E-03	100.7	101.5	167.2	101.5	V-C	5576.	-8.800	0.000	1.000	1.000
101.5	0.000	0.000	Strato1_2_8_L_0									
46 D	20.47	1.7005E-03	104.5	102.4	171.0	102.4	V-C	5576.	-9.000	0.000	1.000	1.000
102.4	0.000	0.000	Strato1_2_8_L_0									
47 D	20.67	1.5163E-03	108.3	103.3	174.8	103.3	V-C	5576.	-9.200	0.000	1.000	1.000
103.3	0.000	0.000	Strato1_2_8_L_0									
48 D	20.88	1.3467E-03	112.1	104.4	178.6	104.4	V-C	5576.	-9.400	0.000	1.000	1.000
104.4	0.000	0.000	Strato1_2_8_L_0									
49 D	21.10	1.1912E-03	115.9	105.5	182.4	105.5	V-C	5576.	-9.600	0.000	1.000	1.000
105.5	0.000	0.000	Strato1_2_8_L_0									
50 D	21.34	1.0493E-03	119.7	106.7	186.2	106.7	V-C	5576.	-9.800	0.000	1.000	1.000
106.7	0.000	0.000	Strato1_2_8_L_0									
51 D	21.60	9.2043E-04	123.5	108.0	190.0	108.0	V-C	5576.	-10.00	0.000	1.000	1.000
108.0	0.000	0.000	Strato1_2_8_L_0									
52 D	21.86	8.0401E-04	127.3	109.3	193.8	109.3	V-C	5576.	-10.20	0.000	1.000	1.000
109.3	0.000	0.000	Strato1_2_8_L_0									
53 D	22.14	6.9942E-04	131.1	110.7	197.6	110.7	V-C	5576.	-10.40	0.000	1.000	1.000
110.7	0.000	0.000	Strato1_2_8_L_0									
54 D	22.43	6.0603E-04	134.9	112.2	201.4	112.2	V-C	5576.	-10.60	0.000	1.000	1.000
112.2	0.000	0.000	Strato1_2_8_L_0									
55 D	22.74	5.2321E-04	138.7	113.7	205.2	113.7	V-C	5576.	-10.80	0.000	1.000	1.000
113.7	0.000	0.000	Strato1_2_8_L_0									
56 D	23.05	4.5032E-04	142.5	115.3	209.0	115.3	V-C	5576.	-11.00	0.000	1.000	1.000
115.3	0.000	0.000	Strato1_2_8_L_0									
57 D	23.37	3.8672E-04	146.3	116.9	212.8	116.9	V-C	5576.	-11.20	0.000	1.000	1.000
116.9	0.000	0.000	Strato1_2_8_L_0									
58 D	23.62	3.3177E-04	150.1	118.1	216.6	118.7	UL-RL	1.6728E+04	-11.40	0.000	1.000	1.000
118.1	0.000	0.000	Strato1_2_8_L_0									
59 D	23.88	2.8485E-04	153.9	119.4	220.4	120.7	UL-RL	1.6728E+04	-11.60	0.000	1.000	1.000
119.4	0.000	0.000	Strato1_2_8_L_0									
60 D	24.17	2.4532E-04	157.7	120.8	224.2	122.6	UL-RL	1.6728E+04	-11.80	0.000	1.000	1.000
120.8	0.000	0.000	Strato1_2_8_L_0									
61 D	24.47	2.1259E-04	161.5	122.4	228.0	124.5	UL-RL	1.6728E+04	-12.00	0.000	1.000	1.000
122.4	0.000	0.000	Strato1_2_8_L_0									
62 D	24.80	1.8607E-04	165.3	124.0	231.8	126.4	UL-RL	1.6728E+04	-12.20	0.000	1.000	1.000
124.0	0.000	0.000	Strato1_2_8_L_0									
63 D	25.15	1.6518E-04	169.1	125.7	235.6	128.3	UL-RL	1.6728E+04	-12.40	0.000	1.000	1.000
125.7	0.000	0.000	Strato1_2_8_L_0									
64 D	25.51	1.4938E-04	172.9	127.6	239.4	130.2	UL-RL	1.6728E+04	-12.60	0.000	1.000	1.000
127.6	0.000	0.000	Strato1_2_8_L_0									
65 D	25.89	1.3815E-04	176.7	129.5	243.2	132.1	UL-RL	1.6728E+04	-12.80	0.000	1.000	1.000
129.5	0.000	0.000	Strato1_2_8_L_0									
66 D	26.28	1.3097E-04	180.5	131.4	247.0	133.9	UL-RL	1.6728E+04	-13.00	0.000	1.000	1.000
131.4	0.000	0.000	Strato1_2_8_L_0									
67 D	21.74	1.2739E-04	184.4	108.7	250.9	132.0	UL-RL	3.7671E+04	-13.20	0.000	1.000	1.000
108.7	0.000	0.000	Strato2_3095_82743_L_0									
68 D	22.18	1.2694E-04	188.4	110.9	254.9	133.8	UL-RL	3.7671E+04	-13.40	0.000	1.000	1.000
110.9	0.000	0.000	Strato2_3095_82743_L_0									
69 D	22.63	1.2922E-04	192.4	113.1	258.9	135.5	UL-RL	3.7671E+04	-13.60	0.000	1.000	1.000
113.1	0.000	0.000	Strato2_3095_82743_L_0									
70 D	23.09	1.3384E-04	196.4	115.5	262.9	137.3	UL-RL	3.7671E+04	-13.80	0.000	1.000	1.000
115.5	0.000	0.000	Strato2_3095_82743_L_0									
71 D	23.58	1.4045E-04	200.4	117.9	266.9	139.0	UL-RL	3.7671E+04	-14.00	0.000	1.000	1.000
117.9	0.000	0.000	Strato2_3095_82743_L_0									
72 D	24.07	1.4873E-04	204.4	120.3	270.9	140.8	UL-RL	3.7671E+04	-14.20	0.000	1.000	1.000
120.3	0.000	0.000	Strato2_3095_82743_L_0									
73 D	24.57	1.5839E-04	208.4	122.8	274.9	142.6	UL-RL	3.7671E+04	-14.40	0.000	1.000	1.000
122.8	0.000	0.000	Strato2_3095_82743_L_0									
74 D	25.07	1.6920E-04	212.4	125.4	278.9	144.4	UL-RL	3.7671E+04	-14.60	0.000	1.000	1.000
125.4	0.000	0.000	Strato2_3095_82743_L_0									
75 D	25.59	1.8091E-04	216.4	127.9	282.9	146.2	UL-RL	3.7671E+04	-14.80	0.000	1.000	1.000
127.9	0.000	0.000	Strato2_3095_82743_L_0									
76 D	26.10	1.9333E-04	220.4	130.5	286.9	148.1	UL-RL	3.7671E+04	-15.00	0.000	1.000	1.000
130.5	0.000	0.000	Strato2_3095_82743_L_0									
77 D	26.62	2.0631E-04	224.4	133.1	290.9	149.9	UL-RL	3.7671E+04	-15.20	0.000	1.000	1.000
133.1	0.000	0.000	Strato2_3095_82743_L_0									
78 D	27.14	2.1969E-04	228.4	135.7	294.9	151.8	UL-RL	3.7671E+04	-15.40	0.000	1.000	1.000
135.7	0.000	0.000	Strato2_3095_82743_L_0									
79 D	27.66	2.3336E-04	232.4	138.3	298.9	153.7	UL-RL	3.7671E+04	-15.60	0.000	1.000	1.000
138.3	0.000	0.000	Strato2_3095_82743_L_0									
80 D	28.18	2.4722E-04	236.4	140.9	302.9	155.5	UL-RL	3.7671E+04	-15.80	0.000	1.000	1.000
140.9	0.000	0.000	Strato2_3095_82743_L_0									
81 D	28.70	2.6121E-04	240.4	143.5	306.9	157.4	UL-RL	3.7671E+04	-16.00	0.000	1.000	1.000
143.5	0.000	0.000	Strato2_3095_82743_L_0									
82 D	29.22	2.7525E-04	244.4	146.1	310.9	159.3	UL-RL	3.7671E+04	-16.20	0.000	1.000	1.000
146.1	0.000	0.000	Strato2_3095_82743_L_0									
83 D	29.74	2.8932E-04	248.4	148.7	314.9	161.2	UL-RL	3.7671E+04	-16.40	0.000	1.000	1.000
148.7	0.000	0.000	Strato2_3095_82743_L_0									
84 D	30.26	3.0337E-04	252.4	151.3	318.9	163.1	UL-RL	3.7671E+04	-16.60	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 621 di 1221
151.3	0.000	0.000	Strato2_3095_82743_L_0		
85 D	30.77	3.1741E-04	256.4 153.9	322.9	165.0
153.9	0.000	0.000	Strato2_3095_82743_L_0		
86 D	31.29	3.3141E-04	260.4 156.5	326.9	167.0
156.5	0.000	0.000	Strato2_3095_82743_L_0		
87 D	31.81	3.4538E-04	264.4 159.0	330.9	168.9
159.0	0.000	0.000	Strato2_3095_82743_L_0		
88 D	32.32	3.5932E-04	268.4 161.6	334.9	170.8
161.6	0.000	0.000	Strato2_3095_82743_L_0		
89 D	32.84	3.7324E-04	272.4 164.2	338.9	172.7
164.2	0.000	0.000	Strato2_3095_82743_L_0		
90 D	33.36	3.8715E-04	276.4 166.8	342.9	174.6
166.8	0.000	0.000	Strato2_3095_82743_L_0		
91 D	16.94	4.0106E-04	280.4 169.4	346.9	176.6
169.4	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A2M2R1_3514                                                                                   |
|          Exe Time :29 July 2019          18:00:09                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.48750	-0.48750	1.33779E-10	9.75000E-02
2	1.4192	-1.4192	-9.75000E-02	0.38134
3	3.9178	-3.9178	-0.38134	1.1649
4	6.5423	-6.5423	-1.1649	2.4734
5	10.093	-10.093	-2.4734	4.4919
6	13.757	-13.757	-4.4919	7.2434
7	18.108	-18.108	-7.2434	10.865
8	22.591	-22.591	-10.865	15.383
9	27.582	-27.582	-15.383	20.900
10	32.731	-32.731	-20.900	27.446
11	38.395	-38.395	-27.446	35.125
12	44.230	-44.230	-35.125	43.971
13	50.535	-50.535	-43.971	54.078
14	57.023	-57.023	-54.078	65.483
15	63.953	-63.953	-65.483	78.273
16	71.038	-71.038	-78.273	92.481
17	78.544	-78.544	-92.481	108.19
18	86.253	-86.253	-108.19	125.44
19	93.212	-93.212	-125.44	144.08
20	98.071	-98.071	-144.08	163.70
21	101.01	-101.01	-163.70	183.90
22	101.86	-101.86	-183.90	204.27
23	100.78	-100.78	-204.27	224.43
24	97.580	-97.580	-224.43	243.94
25	92.448	-92.448	-243.94	262.43
26	85.232	-85.232	-262.43	279.48
27	76.072	-76.072	-279.48	294.69
28	66.705	-66.705	-294.69	308.03
29	57.828	-57.828	-308.03	319.60
30	49.297	-49.297	-319.60	329.46
31	41.197	-41.197	-329.46	337.70
32	33.412	-33.412	-337.70	344.38
33	26.038	-26.038	-344.38	349.59
34	18.943	-18.943	-349.59	353.38
35	12.218	-12.218	-353.38	355.82
36	5.7378	-5.7378	-355.82	356.97
37	-0.41436	0.41436	-356.97	356.88
38	-6.3573	6.3573	-356.88	355.61
39	-12.028	12.028	-355.61	353.21
40	-17.524	17.524	-353.21	349.70
41	-22.774	22.774	-349.70	345.15
42	-27.885	27.885	-345.15	339.57
43	-32.788	32.788	-339.57	333.01
44	-37.586	37.586	-333.01	325.50
45	-42.214	42.214	-325.50	317.05
46	-46.783	46.783	-317.05	307.70
47	-51.217	51.217	-307.70	297.45

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 622 di 1221
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48	-55.610	55.610	-297.45	286.33
49	-59.218	59.218	-286.33	274.49
50	-62.132	62.132	-274.49	262.06
51	-64.312	64.312	-262.06	249.20
52	-65.921	65.921	-249.20	236.01
53	-66.917	66.917	-236.01	222.63
54	-67.467	67.467	-222.63	209.14
55	-67.511	67.511	-209.14	195.64
56	-67.192	67.192	-195.64	182.20
57	-66.463	66.463	-182.20	168.90
58	-65.371	65.371	-168.90	155.83
59	-63.867	63.867	-155.83	143.06
60	-62.093	62.093	-143.06	130.64
61	-60.023	60.023	-130.64	118.63
62	-57.775	57.775	-118.63	107.08
63	-55.304	55.304	-107.08	96.018
64	-52.730	52.730	-96.018	85.472
65	-50.004	50.004	-85.472	75.471
66	-47.237	47.237	-75.471	66.024
67	-43.842	43.842	-66.024	57.255
68	-40.400	40.400	-57.255	49.175
69	-36.902	36.902	-49.175	41.795
70	-33.453	33.453	-41.795	35.104
71	-30.024	30.024	-35.104	29.099
72	-26.718	26.718	-29.099	23.756
73	-23.496	23.496	-23.756	19.057
74	-20.451	20.451	-19.057	14.967
75	-17.536	17.536	-14.967	11.460
76	-14.844	14.844	-11.460	8.4910
77	-12.312	12.312	-8.4910	6.0285
78	-10.017	10.017	-6.0285	4.0250
79	-7.9039	7.9039	-4.0250	2.4442
80	-6.0410	6.0410	-2.4442	1.2360
81	-4.3719	4.3719	-1.2360	0.36164
82	-2.9009	2.9009	-0.36164	-0.21855
83	-1.6898	1.6898	0.21855	-0.55651
84	-0.69013	0.69013	0.55651	-0.69455
85	4.82036E-02	-4.82036E-02	0.69455	-0.68491
86	0.58232	-0.58232	0.68491	-0.56844
87	0.85526	-0.85526	0.56844	-0.39739
88	0.92324	-0.92324	0.39739	-0.21274
89	0.73079	-0.73079	0.21274	-6.65848E-02
90	0.33292	-0.33292	6.65848E-02	1.77316E-12

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:00:09  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:00:09  |
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 3.0000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
623 di 1221

POST-TENSION 2D-BOUNDARY ELEMENT

EL FORCE d0 EDISPL pl. eps K -ve limit +ve limit

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.5358E+06 RIMNOR=0.6916E+07
            RENORM=0.1852E+05 REMNOR=0.6008E-18 RATIO =0.1859      TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 136.1      RMMAX = 357.0
            RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
            RDT  =0.5358E+06 RDR  =0.6916E+07
            RATIO=0.1859      RATIO= 0.000
            MAX UN=0.6583E-08 IEQ= 15 NODE      8 DOF  1 Y-DISPL.F
            MIN UN=-136.1      IEQ= 31 NODE      16 DOF  1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.5358E+06 RIMNOR=0.6916E+07
            RENORM= 38.40      REMNOR=0.4073E-18 RATIO =0.8466E-02 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 136.1      RMMAX = 357.0
            RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
            RDT  =0.5358E+06 RDR  =0.6916E+07
            RATIO=0.8466E-02 RATIO= 0.000
            MAX UN=0.3376E-08 IEQ= 47 NODE      24 DOF  1 Y-DISPL.F
            MIN UN=-2.533      IEQ= 3 NODE      2 DOF  1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      3  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.5358E+06 RIMNOR=0.6916E+07
            RENORM= 2.048      REMNOR=0.2544E-18 RATIO =0.1955E-02 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 136.1      RMMAX = 357.0
            RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
            RDT  =0.5358E+06 RDR  =0.6916E+07
            RATIO=0.1955E-02 RATIO= 0.000
            MAX UN=0.1913      IEQ= 95 NODE      48 DOF  1 Y-DISPL.F
            MIN UN=-1.138      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=0.5358E+06 RIMNOR=0.6916E+07
            RENORM=0.1775E-15 REMNOR=0.4582E-18 RATIO =0.1820E-10 TOLER =0.1000E-03      CONVERGED !
            RFMAX = 136.1      RMMAX = 357.0
            RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
            RDT  =0.5358E+06 RDR  =0.6916E+07
            RATIO=0.1820E-10 RATIO= 0.000
            MAX UN=0.7498E-08 IEQ= 5 NODE      3 DOF  1 Y-DISPL.F
            MIN UN=-.6080E-08 IEQ= 7 NODE      4 DOF  1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      18:00:09  |
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New Project
SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 4 (AT TIME 4.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	2.1310641E-02	-2.8151046E-03	
2	2.0747624E-02	-2.8150582E-03	
3	2.0184630E-02	-2.8148290E-03	
4	1.9621719E-02	-2.8141903E-03	
5	1.9059000E-02	-2.8128670E-03	
6	1.8496639E-02	-2.8105543E-03	
7	1.7934866E-02	-2.8069189E-03	
8	1.7373983E-02	-2.8016053E-03	
9	1.6814361E-02	-2.7942362E-03	
10	1.6256452E-02	-2.7844173E-03	
11	1.5700785E-02	-2.7717369E-03	

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 624 di 1221
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12	1.5147976E-02	-2.7557656E-03
13	1.4598728E-02	-2.7360561E-03
14	1.4053834E-02	-2.7121448E-03
15	1.3514182E-02	-2.6835509E-03
16	1.2980759E-02	-2.6497784E-03
17	1.2454435E-02	-2.6135475E-03
18	1.1935323E-02	-2.5775644E-03
19	1.1423429E-02	-2.5412892E-03
20	1.0918864E-02	-2.5041712E-03
21	1.0421853E-02	-2.4656550E-03
22	9.9327296E-03	-2.4252226E-03
23	9.4519206E-03	-2.3824465E-03
24	8.9799307E-03	-2.3370098E-03
25	8.5173098E-03	-2.2887113E-03
26	8.0646425E-03	-2.2374689E-03
27	7.6225161E-03	-2.1833175E-03
28	7.1914993E-03	-2.1264089E-03
29	6.7721236E-03	-2.0669667E-03
30	6.3648679E-03	-2.0052266E-03
31	5.9701704E-03	-1.9414242E-03
32	5.5884201E-03	-1.8757945E-03
33	5.2199588E-03	-1.8085716E-03
34	4.8650821E-03	-1.7399889E-03
35	4.5240401E-03	-1.6702786E-03
36	4.1970322E-03	-1.5996708E-03
37	3.8842163E-03	-1.5283954E-03
38	3.5857033E-03	-1.4566807E-03
39	3.3015582E-03	-1.3847535E-03
40	3.0318023E-03	-1.3128402E-03
41	2.7764076E-03	-1.2411652E-03
42	2.5353054E-03	-1.1699526E-03
43	2.3083809E-03	-1.0994252E-03
44	2.0954748E-03	-1.0298047E-03
45	1.8963848E-03	-9.6131206E-04
46	1.7108568E-03	-8.9416488E-04
47	1.5386097E-03	-8.2858491E-04
48	1.3793041E-03	-7.6478505E-04
49	1.2325636E-03	-7.0297660E-04
50	1.0979684E-03	-6.4335473E-04
51	9.7506489E-04	-5.8608545E-04
52	8.6336800E-04	-5.3130184E-04
53	7.6237092E-04	-4.7910812E-04
54	6.7154701E-04	-4.2958057E-04
55	5.9035748E-04	-3.8277133E-04
56	5.1825525E-04	-3.3871048E-04
57	4.5468941E-04	-2.9740776E-04
58	3.9910884E-04	-2.5885462E-04
59	3.5096592E-04	-2.2302611E-04
60	3.0971943E-04	-1.8988215E-04
61	2.7483777E-04	-1.5936755E-04
62	2.4580174E-04	-1.3141300E-04
63	2.2210732E-04	-1.0593713E-04
64	2.0326777E-04	-8.2848115E-05
65	1.8881566E-04	-6.2045385E-05
66	1.7830437E-04	-4.3421236E-05
67	1.7130949E-04	-2.6862236E-05
68	1.6742972E-04	-1.2249594E-05
69	1.6628824E-04	5.4190287E-07
70	1.6753379E-04	1.1642951E-05
71	1.7084165E-04	2.1187393E-05
72	1.7591398E-04	2.9310363E-05
73	1.8247964E-04	3.6146153E-05
74	1.9029519E-04	4.1827896E-05
75	1.9914243E-04	4.6484149E-05
76	2.0882876E-04	5.0239119E-05
77	2.1918588E-04	5.3211095E-05
78	2.3006843E-04	5.5511621E-05
79	2.4135272E-04	5.7245056E-05
80	2.5293509E-04	5.8507987E-05
81	2.6473044E-04	5.9388789E-05
82	2.7667045E-04	5.9967256E-05
83	2.8870201E-04	6.0315764E-05
84	3.0078565E-04	6.0497635E-05
85	3.1289416E-04	6.0566761E-05
86	3.2500840E-04	6.0567519E-05
87	3.3711894E-04	6.0534915E-05
88	3.4922185E-04	6.0494549E-05
89	3.6131732E-04	6.0462577E-05
90	3.7340789E-04	6.0445717E-05
91	3.8549643E-04	6.0441232E-05

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 625 di 1221
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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      18:00:09
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New Project

STRESS RESULTS FOR GROUP NO. 1

O_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peg	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	1.953	-2.1311E-02	13.00	19.53	13.00	19.53	V-C	6588.	0.000	0.000	1.000	1.000
19.53	0.000	0.000	Stratol_2_8_L_0									
2 D	3.798	-2.0748E-02	12.42	18.99	12.42	18.99	V-C	6588.	-0.2000	0.000	1.000	1.000
18.99	0.000	0.000	Stratol_2_8_L_0									
3 D	5.744	-2.0185E-02	33.32	28.72	33.32	28.72	V-C	6588.	-0.4000	0.000	1.000	1.000
28.72	0.000	0.000	Stratol_2_8_L_0									
4 D	5.851	-1.9622E-02	34.99	29.26	34.99	29.26	V-C	6588.	-0.6000	0.000	1.000	1.000
29.26	0.000	0.000	Stratol_2_8_L_0									
5 D	6.979	-1.9059E-02	47.34	34.90	47.34	34.90	V-C	6588.	-0.8000	0.000	1.000	1.000
34.90	0.000	0.000	Stratol_2_8_L_0									
6 D	7.071	-1.8497E-02	48.86	35.35	48.86	35.35	V-C	6588.	-1.000	0.000	1.000	1.000
35.35	0.000	0.000	Stratol_2_8_L_0									
7 D	7.893	-1.7935E-02	58.01	39.46	58.01	39.46	V-C	6588.	-1.200	0.000	1.000	1.000
39.46	0.000	0.000	Stratol_2_8_L_0									
8 D	8.007	-1.7374E-02	59.77	40.03	59.77	40.03	V-C	6588.	-1.400	0.000	1.000	1.000
40.03	0.000	0.000	Stratol_2_8_L_0									
9 D	8.599	-1.6814E-02	66.55	43.00	66.55	43.00	V-C	6588.	-1.600	0.000	1.000	1.000
43.00	0.000	0.000	Stratol_2_8_L_0									
10 D	8.744	-1.6256E-02	68.65	43.72	68.65	43.72	V-C	6588.	-1.800	0.000	1.000	1.000
43.72	0.000	0.000	Stratol_2_8_L_0									
11 D	9.342	-1.5701E-02	75.51	46.71	75.51	46.71	V-C	6588.	-2.000	0.000	1.000	1.000
46.71	0.000	0.000	Stratol_2_8_L_0									
12 D	9.499	-1.5148E-02	77.80	47.50	77.80	47.50	V-C	6588.	-2.200	0.000	1.000	1.000
47.50	0.000	0.000	Stratol_2_8_L_0									
13 D	10.04	-1.4599E-02	84.08	50.18	84.08	50.18	V-C	6588.	-2.400	0.000	1.000	1.000
50.18	0.000	0.000	Stratol_2_8_L_0									
14 D	10.20	-1.4054E-02	86.51	51.02	86.51	51.02	V-C	6588.	-2.600	0.000	1.000	1.000
51.02	0.000	0.000	Stratol_2_8_L_0									
15 D	10.70	-1.3514E-02	92.39	53.48	92.39	53.48	V-C	6588.	-2.800	0.000	1.000	1.000
53.48	0.000	0.000	Stratol_2_8_L_0									
16 D	10.82	-1.2981E-02	94.47	54.11	94.47	54.11	V-C	6588.	-3.000	0.000	1.000	1.000
54.11	0.000	0.000	Stratol_2_8_L_0									
17 D	11.28	-1.2454E-02	100.1	56.41	100.1	56.41	V-C	6588.	-3.200	0.000	1.000	1.000
56.41	0.000	0.000	Stratol_2_8_L_0									
18 D	11.46	-1.1935E-02	102.8	57.29	102.8	57.29	V-C	6588.	-3.400	0.000	1.000	1.000
57.29	0.000	0.000	Stratol_2_8_L_0									
19 D	11.89	-1.1423E-02	108.2	59.45	108.2	59.45	V-C	6588.	-3.600	0.000	1.000	1.000
59.45	0.000	0.000	Stratol_2_8_L_0									
20 D	12.07	-1.0919E-02	111.0	60.35	111.0	60.35	V-C	6588.	-3.800	0.000	1.000	1.000
60.35	0.000	0.000	Stratol_2_8_L_0									
21 D	12.48	-1.0422E-02	116.2	62.40	116.2	62.40	V-C	6588.	-4.000	0.000	1.000	1.000
62.40	0.000	0.000	Stratol_2_8_L_0									
22 D	12.67	-9.9327E-03	119.0	63.33	119.0	63.33	V-C	6588.	-4.200	0.000	1.000	1.000
63.33	0.000	0.000	Stratol_2_8_L_0									
23 D	12.88	-9.4519E-03	124.1	64.42	124.1	65.78	UL-RL	1.9764E+04	-4.400	0.000	1.000	1.000
64.42	0.000	0.000	Stratol_2_8_L_0									
24 D	12.82	-8.9799E-03	126.7	64.12	126.7	67.16	UL-RL	1.9764E+04	-4.600	0.000	1.000	1.000
64.12	0.000	0.000	Stratol_2_8_L_0									
25 D	12.94	-8.5173E-03	131.7	64.72	131.7	69.79	UL-RL	1.9764E+04	-4.800	0.000	1.000	1.000
64.72	0.000	0.000	Stratol_2_8_L_0									
26 D	12.92	-8.0646E-03	134.7	64.61	134.7	71.38	UL-RL	1.9764E+04	-5.000	0.000	1.000	1.000
64.61	0.000	0.000	Stratol_2_8_L_0									
27 D	13.05	-7.6225E-03	139.5	65.25	139.5	73.96	UL-RL	1.9764E+04	-5.200	0.000	1.000	1.000
65.25	0.000	0.000	Stratol_2_8_L_0									
28 D	13.05	-7.1915E-03	142.6	65.24	142.6	75.57	UL-RL	1.9764E+04	-5.400	0.000	1.000	1.000
65.24	0.000	0.000	Stratol_2_8_L_0									
29 D	13.19	-6.7721E-03	147.4	65.94	147.4	78.10	UL-RL	1.9764E+04	-5.600	0.000	1.000	1.000
65.94	0.000	0.000	Stratol_2_8_L_0									
30 D	13.21	-6.3649E-03	150.4	66.04	150.4	79.74	UL-RL	1.9764E+04	-5.800	0.000	1.000	1.000
66.04	0.000	0.000	Stratol_2_8_L_0									
31 D	13.34	-5.9702E-03	154.9	66.71	154.9	82.11	UL-RL	1.9764E+04	-6.000	0.000	1.000	1.000
66.71	0.000	0.000	Stratol_2_8_L_0									
32 D	13.39	-5.5884E-03	158.0	66.94	158.0	83.76	UL-RL	1.9764E+04	-6.200	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.				Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 626 di 1221
66.94	0.000	0.000	Strato1_2_8_L_0					
33 D	13.56	-5.2200E-03	162.7 67.79	162.7	86.23	UL-RL 1.9764E+04 -6.400	0.000	1.000
67.79	0.000	0.000	Strato1_2_8_L_0					
34 D	13.63	-4.8651E-03	165.9 68.14	165.9	87.91	UL-RL 1.9764E+04 -6.600	0.000	1.000
68.14	0.000	0.000	Strato1_2_8_L_0					
35 D	13.82	-4.5240E-03	170.5 69.08	170.5	90.35	UL-RL 1.9764E+04 -6.800	0.000	1.000
69.08	0.000	0.000	Strato1_2_8_L_0					
36 D	13.91	-4.1970E-03	173.7 69.55	173.7	92.04	UL-RL 1.9764E+04 -7.000	0.000	1.000
69.55	0.000	0.000	Strato1_2_8_L_0					
37 D	14.12	-3.8842E-03	178.2 70.58	178.2	94.46	UL-RL 1.9764E+04 -7.200	0.000	1.000
70.58	0.000	0.000	Strato1_2_8_L_0					
38 D	14.23	-3.5857E-03	181.4 71.16	181.4	96.16	UL-RL 1.9764E+04 -7.400	0.000	1.000
71.16	0.000	0.000	Strato1_2_8_L_0					
39 D	14.44	-3.3016E-03	185.8 72.21	185.8	98.45	UL-RL 1.9764E+04 -7.600	0.000	1.000
72.21	0.000	0.000	Strato1_2_8_L_0					
40 D	14.58	-3.0318E-03	189.0 72.90	189.0	100.2	UL-RL 1.9764E+04 -7.800	0.000	1.000
72.90	0.000	0.000	Strato1_2_8_L_0					
41 D	14.82	-2.7764E-03	193.5 74.10	193.5	102.5	UL-RL 1.9764E+04 -8.000	0.000	1.000
74.10	0.000	0.000	Strato1_2_8_L_0					
42 D	14.98	-2.5353E-03	196.8 74.90	196.8	104.3	UL-RL 1.9764E+04 -8.200	0.000	1.000
74.90	0.000	0.000	Strato1_2_8_L_0					
43 D	15.24	-2.3084E-03	201.2 76.18	201.2	106.6	UL-RL 1.9764E+04 -8.400	0.000	1.000
76.18	0.000	0.000	Strato1_2_8_L_0					
44 D	15.41	-2.0955E-03	204.5 77.06	204.5	108.4	UL-RL 1.9764E+04 -8.600	0.000	1.000
77.06	0.000	0.000	Strato1_2_8_L_0					
45 D	15.68	-1.8964E-03	208.9 78.41	208.9	110.7	UL-RL 1.9764E+04 -8.800	0.000	1.000
78.41	0.000	0.000	Strato1_2_8_L_0					
46 D	15.91	-1.7109E-03	212.1 79.53	212.1	112.4	ACTIVE 0.000 -9.000	0.000	1.000
79.53	0.000	0.000	Strato1_2_8_L_0					
47 D	16.23	-1.5386E-03	216.5 81.17	216.5	114.7	ACTIVE 0.000 -9.200	0.000	1.000
81.17	0.000	0.000	Strato1_2_8_L_0					
48 D	16.48	-1.3793E-03	219.8 82.42	219.8	116.5	ACTIVE 0.000 -9.400	0.000	1.000
82.42	0.000	0.000	Strato1_2_8_L_0					
49 D	17.33	-1.2326E-03	224.2 86.65	224.2	118.8	UL-RL 1.9764E+04 -9.600	0.000	1.000
86.65	0.000	0.000	Strato1_2_8_L_0					
50 D	18.24	-1.0980E-03	227.5 91.18	227.5	120.6	UL-RL 1.9764E+04 -9.800	0.000	1.000
91.18	0.000	0.000	Strato1_2_8_L_0					
51 D	19.20	-9.7506E-04	231.8 96.00	231.8	122.9	UL-RL 1.9764E+04 -10.000	0.000	1.000
96.00	0.000	0.000	Strato1_2_8_L_0					
52 D	20.02	-8.6337E-04	235.2 100.1	235.2	124.7	UL-RL 1.9764E+04 -10.200	0.000	1.000
100.1	0.000	0.000	Strato1_2_8_L_0					
53 D	20.90	-7.6237E-04	239.5 104.5	239.5	126.9	UL-RL 1.9764E+04 -10.400	0.000	1.000
104.5	0.000	0.000	Strato1_2_8_L_0					
54 D	21.63	-6.7155E-04	242.8 108.1	242.8	128.7	UL-RL 1.9764E+04 -10.600	0.000	1.000
108.1	0.000	0.000	Strato1_2_8_L_0					
55 D	22.43	-5.9036E-04	247.1 112.1	247.1	130.9	UL-RL 1.9764E+04 -10.800	0.000	1.000
112.1	0.000	0.000	Strato1_2_8_L_0					
56 D	23.10	-5.1826E-04	250.5 115.5	250.5	132.7	UL-RL 1.9764E+04 -11.000	0.000	1.000
115.5	0.000	0.000	Strato1_2_8_L_0					
57 D	23.84	-4.5469E-04	254.7 119.2	254.7	135.0	UL-RL 1.9764E+04 -11.200	0.000	1.000
119.2	0.000	0.000	Strato1_2_8_L_0					
58 D	24.45	-3.9911E-04	258.2 122.2	258.2	136.8	UL-RL 1.9764E+04 -11.400	0.000	1.000
122.2	0.000	0.000	Strato1_2_8_L_0					
59 D	25.12	-3.5097E-04	262.4 125.6	262.4	139.1	UL-RL 1.9764E+04 -11.600	0.000	1.000
125.6	0.000	0.000	Strato1_2_8_L_0					
60 D	25.68	-3.0972E-04	265.8 128.4	265.8	140.9	UL-RL 1.9764E+04 -11.800	0.000	1.000
128.4	0.000	0.000	Strato1_2_8_L_0					
61 D	26.30	-2.7484E-04	270.0 131.5	270.0	143.1	UL-RL 1.9764E+04 -12.000	0.000	1.000
131.5	0.000	0.000	Strato1_2_8_L_0					
62 D	26.81	-2.4580E-04	273.4 134.1	273.4	144.9	UL-RL 1.9764E+04 -12.200	0.000	1.000
134.1	0.000	0.000	Strato1_2_8_L_0					
63 D	27.39	-2.2211E-04	277.6 137.0	277.6	147.1	UL-RL 1.9764E+04 -12.400	0.000	1.000
137.0	0.000	0.000	Strato1_2_8_L_0					
64 D	27.87	-2.0327E-04	281.1 139.4	281.1	149.0	UL-RL 1.9764E+04 -12.600	0.000	1.000
139.4	0.000	0.000	Strato1_2_8_L_0					
65 D	28.42	-1.8882E-04	285.3 142.1	285.3	151.2	UL-RL 1.9764E+04 -12.800	0.000	1.000
142.1	0.000	0.000	Strato1_2_8_L_0					
66 D	28.86	-1.7830E-04	288.7 144.3	288.7	153.0	UL-RL 1.9764E+04 -13.000	0.000	1.000
144.3	0.000	0.000	Strato1_2_8_L_0					
67 D	24.66	-1.7131E-04	293.0 123.3	293.0	146.5	UL-RL 5.4852E+04 -13.200	0.000	1.000
123.3	0.000	0.000	Strato2_3095_82743_L_0					
68 D	25.17	-1.6743E-04	296.7 125.9	296.7	148.4	UL-RL 5.4852E+04 -13.400	0.000	1.000
125.9	0.000	0.000	Strato2_3095_82743_L_0					
69 D	25.72	-1.6629E-04	301.0 128.6	301.0	150.5	UL-RL 5.4852E+04 -13.600	0.000	1.000
128.6	0.000	0.000	Strato2_3095_82743_L_0					
70 D	26.17	-1.6753E-04	304.7 130.9	304.7	152.3	UL-RL 5.4852E+04 -13.800	0.000	1.000
130.9	0.000	0.000	Strato2_3095_82743_L_0					
71 D	26.67	-1.7084E-04	309.0 133.4	309.0	154.5	UL-RL 5.4852E+04 -14.000	0.000	1.000
133.4	0.000	0.000	Strato2_3095_82743_L_0					
72 D	27.07	-1.7591E-04	312.7 135.4	312.7	156.4	UL-RL 5.4852E+04 -14.200	0.000	1.000
135.4	0.000	0.000	Strato2_3095_82743_L_0					
73 D	27.52	-1.8248E-04	317.1 137.6	317.1	158.5	UL-RL 5.4852E+04 -14.400	0.000	1.000
137.6	0.000	0.000	Strato2_3095_82743_L_0					
74 D	27.89	-1.9030E-04	320.8 139.4	320.8	160.4	UL-RL 5.4852E+04 -14.600	0.000	1.000
139.4	0.000	0.000	Strato2_3095_82743_L_0					

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 628 di 1221
13	0.000	--	--	--	--
0.000	0.000	0.000	not available		
14	0.000	--	--	--	--
0.000	0.000	0.000	not available		
15	0.000	--	--	--	--
0.000	0.000	0.000	not available		
16	0.000	--	--	--	--
0.000	0.000	0.000	not available		
17	0.000	--	--	--	--
0.000	0.000	0.000	not available		
18	0.000	--	--	--	--
0.000	0.000	0.000	not available		
19 D	0.1425	1.1423E-02	1.900 0.7125	68.40	41.93
0.7125	0.000	0.000	Stratol_2_8_L_0		
20 D	0.4275	1.0919E-02	5.700 2.137	72.20	43.87
2.137	0.000	0.000	Stratol_2_8_L_0		
21 D	2.302	1.0422E-02	9.500 11.51	76.00	45.81
11.51	0.000	0.000	Stratol_2_8_L_0		
22 D	4.833	9.9327E-03	13.30 24.17	79.80	47.76
24.17	0.000	0.000	Stratol_2_8_L_0		
23 D	7.362	9.4519E-03	17.10 36.81	83.60	51.95
36.81	0.000	0.000	Stratol_2_8_L_0		
24 D	9.889	8.9799E-03	20.90 49.44	87.40	63.49
49.44	0.000	0.000	Stratol_2_8_L_0		
25 D	12.41	8.5173E-03	24.70 62.05	91.20	75.04
62.05	0.000	0.000	Stratol_2_8_L_0		
26 D	14.93	8.0646E-03	28.50 74.64	95.00	86.58
74.64	0.000	0.000	Stratol_2_8_L_0		
27 D	17.44	7.6225E-03	32.30 87.19	98.80	98.13
87.19	0.000	0.000	Stratol_2_8_L_0		
28 D	18.07	7.1915E-03	36.10 90.33	102.6	100.3
90.33	0.000	0.000	Stratol_2_8_L_0		
29 D	18.12	6.7721E-03	39.90 90.61	106.4	99.65
90.61	0.000	0.000	Stratol_2_8_L_0		
30 D	18.19	6.3649E-03	43.70 90.93	110.2	99.08
90.93	0.000	0.000	Stratol_2_8_L_0		
31 D	18.26	5.9702E-03	47.50 91.29	114.0	98.59
91.29	0.000	0.000	Stratol_2_8_L_0		
32 D	18.34	5.5884E-03	51.30 91.70	117.8	98.19
91.70	0.000	0.000	Stratol_2_8_L_0		
33 D	18.43	5.2200E-03	55.10 92.15	121.6	97.89
92.15	0.000	0.000	Stratol_2_8_L_0		
34 D	18.53	4.8651E-03	58.90 92.65	125.4	97.67
92.65	0.000	0.000	Stratol_2_8_L_0		
35 D	18.64	4.5240E-03	62.70 93.19	129.2	97.55
93.19	0.000	0.000	Stratol_2_8_L_0		
36 D	18.76	4.1970E-03	66.50 93.78	133.0	97.53
93.78	0.000	0.000	Stratol_2_8_L_0		
37 D	18.88	3.8842E-03	70.30 94.42	136.8	97.59
94.42	0.000	0.000	Stratol_2_8_L_0		
38 D	19.02	3.5857E-03	74.10 95.11	140.6	97.76
95.11	0.000	0.000	Stratol_2_8_L_0		
39 D	19.17	3.3016E-03	77.90 95.86	144.4	98.01
95.86	0.000	0.000	Stratol_2_8_L_0		
40 D	19.33	3.0318E-03	81.70 96.65	148.2	98.36
96.65	0.000	0.000	Stratol_2_8_L_0		
41 D	19.50	2.7764E-03	85.50 97.50	152.0	98.81
97.50	0.000	0.000	Stratol_2_8_L_0		
42 D	19.68	2.5353E-03	89.30 98.40	155.8	99.34
98.40	0.000	0.000	Stratol_2_8_L_0		
43 D	19.87	2.3084E-03	93.10 99.36	159.6	99.97
99.36	0.000	0.000	Stratol_2_8_L_0		
44 D	20.07	2.0955E-03	96.90 100.4	163.4	100.7
100.4	0.000	0.000	Stratol_2_8_L_0		
45 D	20.29	1.8964E-03	100.7 101.4	167.2	101.5
101.4	0.000	0.000	Stratol_2_8_L_0		
46 D	20.49	1.7109E-03	104.5 102.4	171.0	102.4
102.4	0.000	0.000	Stratol_2_8_L_0		
47 D	20.69	1.5386E-03	108.3 103.5	174.8	103.5
103.5	0.000	0.000	Stratol_2_8_L_0		
48 D	20.91	1.3793E-03	112.1 104.6	178.6	104.6
104.6	0.000	0.000	Stratol_2_8_L_0		
49 D	21.15	1.2326E-03	115.9 105.7	182.4	105.7
105.7	0.000	0.000	Stratol_2_8_L_0		
50 D	21.40	1.0980E-03	119.7 107.0	186.2	107.0
107.0	0.000	0.000	Stratol_2_8_L_0		
51 D	21.66	9.7506E-04	123.5 108.3	190.0	108.3
108.3	0.000	0.000	Stratol_2_8_L_0		
52 D	21.93	8.6337E-04	127.3 109.6	193.8	109.6
109.6	0.000	0.000	Stratol_2_8_L_0		
53 D	22.21	7.6237E-04	131.1 111.1	197.6	111.1
111.1	0.000	0.000	Stratol_2_8_L_0		
54 D	22.51	6.7155E-04	134.9 112.5	201.4	112.5
112.5	0.000	0.000	Stratol_2_8_L_0		
55 D	22.81	5.9036E-04	138.7 114.1	205.2	114.1

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.

Progetto
INORLotto
12Codifica Documento
E E2 CL GA 2701 002Rev.
AFoglio
630 di 1221

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 CURRENT TIME IS 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.9530	-1.9530	-1.62151E-10	0.39060
2	5.7509	-5.7509	-0.39060	1.5408
3	11.495	-11.495	-1.5408	3.8397
4	17.346	-17.346	-3.8397	7.3089
5	24.325	-24.325	-7.3089	12.174
6	31.396	-31.396	-12.174	18.453
7	39.289	-39.289	-18.453	26.311
8	47.296	-47.296	-26.311	35.770
9	55.895	-55.895	-35.770	46.949
10	64.639	-64.639	-46.949	59.877
11	73.981	-73.981	-59.877	74.673
12	83.480	-83.480	-74.673	91.369
13	93.517	-93.517	-91.369	110.07
14	103.72	-103.72	-110.07	130.82
15	114.42	-114.42	-130.82	153.70
16	-10.860	10.860	-153.70	151.53
17	0.42150	-0.42150	-151.53	151.61
18	11.879	-11.879	-151.61	153.99
19	23.626	-23.626	-153.99	158.71
20	35.267	-35.267	-158.71	165.77
21	45.446	-45.446	-165.77	174.86
22	53.279	-53.279	-174.86	185.51
23	58.802	-58.802	-185.51	197.27
24	61.736	-61.736	-197.27	209.62
25	62.269	-62.269	-209.62	222.07
26	60.264	-60.264	-222.07	234.13
27	55.877	-55.877	-234.13	245.30
28	50.858	-50.858	-245.30	255.47
29	45.923	-45.923	-255.47	264.66
30	40.944	-40.944	-264.66	272.85
31	36.029	-36.029	-272.85	280.05
32	31.077	-31.077	-280.05	286.27
33	26.206	-26.206	-286.27	291.51
34	21.305	-21.305	-291.51	295.77
35	16.484	-16.484	-295.77	299.07
36	11.638	-11.638	-299.07	301.39
37	6.8694	-6.8694	-301.39	302.77
38	2.0794	-2.0794	-302.77	303.18
39	-2.6505	2.6505	-303.18	302.65
40	-7.4006	7.4006	-302.65	301.17
41	-12.080	12.080	-301.17	298.76
42	-16.781	16.781	-298.76	295.40
43	-21.417	21.417	-295.40	291.12
44	-26.078	26.078	-291.12	285.90
45	-30.682	30.682	-285.90	279.77
46	-35.262	35.262	-279.77	272.71
47	-39.721	39.721	-272.71	264.77
48	-44.150	44.150	-264.77	255.94
49	-47.968	47.968	-255.94	246.35
50	-51.129	51.129	-246.35	236.12
51	-53.586	53.586	-236.12	225.40
52	-55.495	55.495	-225.40	214.30
53	-56.810	56.810	-214.30	202.94
54	-57.692	57.692	-202.94	191.40
55	-58.077	58.077	-191.40	179.79
56	-58.102	58.102	-179.79	168.17
57	-57.717	57.717	-168.17	156.62
58	-57.051	57.051	-156.62	145.21
59	-56.030	56.030	-145.21	134.01
60	-54.726	54.726	-134.01	123.06
61	-53.110	53.110	-123.06	112.44
62	-51.298	51.298	-112.44	102.18
63	-49.242	49.242	-102.18	92.333
64	-47.062	47.062	-92.333	82.920
65	-44.706	44.706	-82.920	73.979
66	-42.284	42.284	-73.979	65.522
67	-39.702	39.702	-65.522	57.582
68	-37.009	37.009	-57.582	50.180
69	-34.197	34.197	-50.180	43.341
70	-31.371	31.371	-43.341	37.066
71	-28.505	28.505	-37.066	31.366
72	-25.702	25.702	-31.366	26.226
73	-22.926	22.926	-26.226	21.640
74	-20.271	20.271	-21.640	17.586

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 631 di 1221
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75	-17.694	17.694	-17.586	14.048
76	-15.288	15.288	-14.048	10.990
77	-12.995	12.995	-10.990	8.3909
78	-10.892	10.892	-8.3909	6.2125
79	-8.9267	8.9267	-6.2125	4.4271
80	-7.1695	7.1695	-4.4271	2.9932
81	-5.5656	5.5656	-2.9932	1.8801
82	-4.1209	4.1209	-1.8801	1.0559
83	-2.8984	2.8984	-1.0559	0.47625
84	-1.8507	1.8507	-0.47625	0.10608
85	-1.0289	1.0289	-0.10608	-9.96983E-02
86	-0.37636	0.37636	9.96983E-02	-0.17497
87	4.93766E-02	-4.93766E-02	0.17497	-0.16509
88	0.30419	-0.30419	0.16509	-0.10426
89	0.33239	-0.33239	0.10426	-3.77791E-02
90	0.18890	-0.18890	3.77791E-02	4.74343E-14

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|                                     PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017*
|
|                                     NewProject.BaseDesignSection_28.A2M2R1_3514
|                                     Exe Time :29 July 2019      18:00:09
|
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
ANCHOR 1	140.90	-1.30818E-03	-1.30818E-03	0.0000	0.0000	0.0000	0.0000

BORN NOW JUST ACTIVATED

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|                                     PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017*
|
|                                     NewProject.BaseDesignSection_28.A2M2R1_3514
|                                     Exe Time :29 July 2019      18:00:09
|
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.3938E+06 RIMNOR=0.5440E+07
RENORM=0.1154E+05 REMNOR=0.4582E-18 RATIO =0.1712 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 136.1 RMMAX = 303.2
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.3938E+06 RDR =0.5440E+07
RATIOT=0.1712 RATIO= 0.000
MAX UN= 20.91 IEQ= 95 NODE 48 DOF 1 Y-DISPL.F
MIN UN=-.6080E-08 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.3938E+06 RIMNOR=0.5440E+07
RENORM= 2812. REMNOR=0.1351E-17 RATIO =0.8450E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 136.1 RMMAX = 303.2
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.3938E+06 RDR =0.5440E+07
RATIOT=0.8450E-01 RATIO= 0.000
MAX UN= 11.31 IEQ= 83 NODE 42 DOF 1 Y-DISPL.F

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 632 di 1221
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MIN UN=-.3777E-08 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM=0.3938E+06 RIMNOR=0.5440E+07
RENORM= 2728. REMNOR=0.7148E-17 RATIO =0.8323E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 136.1 RMMAX = 303.2
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.3938E+06 RDR =0.5440E+07
RATIOT=0.8323E-01 RATIO= 0.000
MAX UN= 21.45 IEQ= 139 NODE 70 DOF 1 Y-DISPL.F
MIN UN=-3.489 IEQ= 179 NODE 90 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
RINORM=0.3938E+06 RIMNOR=0.5440E+07
RENORM= 452.0 REMNOR=0.3874E-16 RATIO =0.3388E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 136.1 RMMAX = 303.2
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.3938E+06 RDR =0.5440E+07
RATIOT=0.3388E-01 RATIO= 0.000
MAX UN= 16.09 IEQ= 153 NODE 77 DOF 1 Y-DISPL.F
MIN UN=-1.535 IEQ= 171 NODE 86 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
RINORM=0.3938E+06 RIMNOR=0.5440E+07
RENORM= 3.771 REMNOR=0.8945E-17 RATIO =0.3095E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 136.1 RMMAX = 303.2
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.3938E+06 RDR =0.5440E+07
RATIOT=0.3095E-02 RATIO= 0.000
MAX UN=0.7236 IEQ= 159 NODE 80 DOF 1 Y-DISPL.F
MIN UN=-1.018 IEQ= 171 NODE 86 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
RINORM=0.3938E+06 RIMNOR=0.5440E+07
RENORM=0.8926E-01 REMNOR=0.9380E-17 RATIO =0.4761E-03 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 136.1 RMMAX = 303.2
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.3938E+06 RDR =0.5440E+07
RATIOT=0.4761E-03 RATIO= 0.000
MAX UN=0.1609 IEQ= 159 NODE 80 DOF 1 Y-DISPL.F
MIN UN=-.2758E-07 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 7 RNORM = 0.000 RMNORM= 0.000
RINORM=0.3938E+06 RIMNOR=0.5440E+07
RENORM=0.1762E-02 REMNOR=0.9714E-17 RATIO =0.6689E-04 TOLER =0.1000E-03 CONVERGED !
RFMAX = 136.1 RMMAX = 303.2
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.3938E+06 RDR =0.5440E+07
RATIOT=0.6689E-04 RATIO= 0.000
MAX UN=0.3624E-01 IEQ= 141 NODE 71 DOF 1 Y-DISPL.F
MIN UN=-.1161E-07 IEQ= 71 NODE 36 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019      18:00:09                             |
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New Project
SOLUTION REACHED USING 7 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 5 (AT TIME 5.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	
1	6.6891941E-02	-2.4646008E-03	(
2	6.6399022E-02	-2.4645892E-03	
3	6.5906109E-02	-2.4645324E-03	
4	6.5413217E-02	-2.4643489E-03	
5	6.4920386E-02	-2.4639170E-03	
6	6.4427677E-02	-2.4630902E-03	

GENERAL CONTRACTOR

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 633 di 1221
7	6.3935187E-02	-2.4616972E-03			
8	6.3443048E-02	-2.4595477E-03			
9	6.2951433E-02	-2.4564320E-03			
10	6.2460555E-02	-2.4521252E-03			
11	6.1970678E-02	-2.4463865E-03			
12	6.1482113E-02	-2.4389593E-03			
13	6.0995225E-02	-2.4295705E-03			
14	6.0510435E-02	-2.4179320E-03			
15	6.0028222E-02	-2.4037400E-03			
16	5.9549130E-02	-2.3866760E-03			
17	5.9073279E-02	-2.3737127E-03			
18	5.8598908E-02	-2.3718091E-03			
19	5.8123842E-02	-2.3806038E-03			
20	5.7645978E-02	-2.3997213E-03			
21	5.7163291E-02	-2.4287714E-03			
22	5.6673834E-02	-2.4673498E-03			
23	5.6175744E-02	-2.5150375E-03			
24	5.5667243E-02	-2.5714014E-03			
25	5.5146637E-02	-2.6359955E-03			
26	5.4612327E-02	-2.7083594E-03			
27	5.4062807E-02	-2.7880190E-03			
28	5.3496666E-02	-2.8744859E-03			
29	5.2912595E-02	-2.9672574E-03			
30	5.2309380E-02	-3.0658181E-03			
31	5.1685917E-02	-3.1696374E-03			
32	5.1041211E-02	-3.2781716E-03			
33	5.0374372E-02	-3.3908633E-03			
34	4.9684626E-02	-3.5071416E-03			
35	4.8971319E-02	-3.6264207E-03			
36	4.8233901E-02	-3.7481031E-03			
37	4.7471958E-02	-3.8715753E-03			
38	4.6685193E-02	-3.9962109E-03			
39	4.5873439E-02	-4.1213694E-03			
40	4.5036659E-02	-4.2463965E-03			
41	4.4174938E-02	-4.3706260E-03			
42	4.3288507E-02	-4.4933764E-03			
43	4.2377732E-02	-4.6139526E-03			
44	4.1443118E-02	-4.7316463E-03			
45	4.0485319E-02	-4.8457343E-03			
46	3.9505094E-02	-4.9554844E-03			
47	3.8503440E-02	-5.0601411E-03			
48	3.7481427E-02	-5.1589440E-03			
49	3.6440310E-02	-5.2511160E-03			
50	3.5381479E-02	-5.3358949E-03			
51	3.4306491E-02	-5.4125858E-03			
52	3.3217018E-02	-5.4805903E-03			
53	3.2114862E-02	-5.5394051E-03			
54	3.1001896E-02	-5.5886236E-03			
55	2.9880073E-02	-5.6279354E-03			
56	2.8751397E-02	-5.6571259E-03			
57	2.7617905E-02	-5.6760768E-03			
58	2.6481650E-02	-5.6847655E-03			
59	2.5344678E-02	-5.6832654E-03			
60	2.4209012E-02	-5.6717460E-03			
61	2.3076630E-02	-5.6504725E-03			
62	2.1949449E-02	-5.6198064E-03			
63	2.0829303E-02	-5.5802056E-03			
64	1.9717926E-02	-5.5322236E-03			
65	1.8616931E-02	-5.4764886E-03			
66	1.7527804E-02	-5.4136452E-03			
67	1.6451905E-02	-5.3443189E-03			
68	1.5390449E-02	-5.2694110E-03			
69	1.4344435E-02	-5.1900857E-03			
70	1.3314634E-02	-5.1074629E-03			
71	1.2301598E-02	-5.0226194E-03			
72	1.1305665E-02	-4.9365905E-03			
73	1.0327023E-02	-4.8503744E-03			
74	9.3655143E-03	-4.7649157E-03			
75	8.4209450E-03	-4.6811310E-03			
76	7.4928921E-03	-4.5998934E-03			
77	6.5807622E-03	-4.5220376E-03			
78	5.6837985E-03	-4.4483606E-03			
79	4.8010887E-03	-4.3796224E-03			
80	3.9315720E-03	-4.3165469E-03			
81	3.0740465E-03	-4.2598223E-03			
82	2.2271789E-03	-4.2100602E-03			
83	1.3895311E-03	-4.1676674E-03			
84	5.5961277E-04	-4.1327623E-03			
85	-2.6410291E-04	-4.1051772E-03			
86	-1.0829576E-03	-4.0844662E-03			
87	-1.8983013E-03	-4.0699344E-03			
88	-2.7112844E-03	-4.0606974E-03			
89	-3.5228625E-03	-4.0556944E-03			
90	-4.3337620E-03	-4.0536895E-03			



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 634 di 1221
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91 -5.1444441E-03 -4.0532711E-03

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      18:00:09
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New Project

STRESS RESULTS FOR GROUP NO. 1

Q_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.4875	-6.6892E-02	13.00	4.875	13.00	19.53	ACTIVE	0.000	0.000	0.000	1.000	1.000
4.875	0.000	0.000	Stratol_2_8_L_0									
2 D	0.9317	-6.6399E-02	12.42	4.658	12.42	18.99	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
4.658	0.000	0.000	Stratol_2_8_L_0									
3 D	2.499	-6.5906E-02	33.32	12.49	33.32	28.72	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
12.49	0.000	0.000	Stratol_2_8_L_0									
4 D	2.624	-6.5413E-02	34.99	13.12	34.99	29.26	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
13.12	0.000	0.000	Stratol_2_8_L_0									
5 D	3.551	-6.4920E-02	47.34	17.75	47.34	34.90	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
17.75	0.000	0.000	Stratol_2_8_L_0									
6 D	3.664	-6.4428E-02	48.86	18.32	48.86	35.35	ACTIVE	0.000	-1.000	0.000	1.000	1.000
18.32	0.000	0.000	Stratol_2_8_L_0									
7 D	4.351	-6.3935E-02	58.01	21.75	58.01	39.46	ACTIVE	0.000	-1.200	0.000	1.000	1.000
21.75	0.000	0.000	Stratol_2_8_L_0									
8 D	4.483	-6.3443E-02	59.77	22.41	59.77	40.03	ACTIVE	0.000	-1.400	0.000	1.000	1.000
22.41	0.000	0.000	Stratol_2_8_L_0									
9 D	4.991	-6.2951E-02	66.55	24.96	66.55	43.00	ACTIVE	0.000	-1.600	0.000	1.000	1.000
24.96	0.000	0.000	Stratol_2_8_L_0									
10 D	5.149	-6.2461E-02	68.65	25.75	68.65	43.72	ACTIVE	0.000	-1.800	0.000	1.000	1.000
25.75	0.000	0.000	Stratol_2_8_L_0									
11 D	5.664	-6.1971E-02	75.51	28.32	75.51	46.71	ACTIVE	0.000	-2.000	0.000	1.000	1.000
28.32	0.000	0.000	Stratol_2_8_L_0									
12 D	5.835	-6.1482E-02	77.80	29.17	77.80	47.50	ACTIVE	0.000	-2.200	0.000	1.000	1.000
29.17	0.000	0.000	Stratol_2_8_L_0									
13 D	6.306	-6.0995E-02	84.08	31.53	84.08	50.18	ACTIVE	0.000	-2.400	0.000	1.000	1.000
31.53	0.000	0.000	Stratol_2_8_L_0									
14 D	6.488	-6.0510E-02	86.51	32.44	86.51	51.02	ACTIVE	0.000	-2.600	0.000	1.000	1.000
32.44	0.000	0.000	Stratol_2_8_L_0									
15 D	6.929	-6.0028E-02	92.39	34.65	92.39	53.48	ACTIVE	0.000	-2.800	0.000	1.000	1.000
34.65	0.000	0.000	Stratol_2_8_L_0									
16 D	7.085	-5.9549E-02	94.47	35.43	94.47	54.11	ACTIVE	0.000	-3.000	0.000	1.000	1.000
35.43	0.000	0.000	Stratol_2_8_L_0									
17 D	7.507	-5.9073E-02	100.1	37.53	100.1	56.41	ACTIVE	0.000	-3.200	0.000	1.000	1.000
37.53	0.000	0.000	Stratol_2_8_L_0									
18 D	7.709	-5.8599E-02	102.8	38.54	102.8	57.29	ACTIVE	0.000	-3.400	0.000	1.000	1.000
38.54	0.000	0.000	Stratol_2_8_L_0									
19 D	8.113	-5.8124E-02	108.2	40.57	108.2	59.45	ACTIVE	0.000	-3.600	0.000	1.000	1.000
40.57	0.000	0.000	Stratol_2_8_L_0									
20 D	8.322	-5.7646E-02	111.0	41.61	111.0	60.35	ACTIVE	0.000	-3.800	0.000	1.000	1.000
41.61	0.000	0.000	Stratol_2_8_L_0									
21 D	8.713	-5.7163E-02	116.2	43.57	116.2	62.40	ACTIVE	0.000	-4.000	0.000	1.000	1.000
43.57	0.000	0.000	Stratol_2_8_L_0									
22 D	8.927	-5.6674E-02	119.0	44.64	119.0	63.33	ACTIVE	0.000	-4.200	0.000	1.000	1.000
44.64	0.000	0.000	Stratol_2_8_L_0									
23 D	9.308	-5.6176E-02	124.1	46.54	124.1	65.78	ACTIVE	0.000	-4.400	0.000	1.000	1.000
46.54	0.000	0.000	Stratol_2_8_L_0									
24 D	9.503	-5.5667E-02	126.7	47.52	126.7	67.16	ACTIVE	0.000	-4.600	0.000	1.000	1.000
47.52	0.000	0.000	Stratol_2_8_L_0									
25 D	9.876	-5.5147E-02	131.7	49.38	131.7	69.79	ACTIVE	0.000	-4.800	0.000	1.000	1.000
49.38	0.000	0.000	Stratol_2_8_L_0									
26 D	10.10	-5.4612E-02	134.7	50.50	134.7	71.38	ACTIVE	0.000	-5.000	0.000	1.000	1.000
50.50	0.000	0.000	Stratol_2_8_L_0									
27 D	10.47	-5.4063E-02	139.5	52.33	139.5	73.96	ACTIVE	0.000	-5.200	0.000	1.000	1.000
52.33	0.000	0.000	Stratol_2_8_L_0									
28 D	10.69	-5.3497E-02	142.6	53.47	142.6	75.57	ACTIVE	0.000	-5.400	0.000	1.000	1.000
53.47	0.000	0.000	Stratol_2_8_L_0									
29 D	11.05	-5.2913E-02	147.4	55.26	147.4	78.10	ACTIVE	0.000	-5.600	0.000	1.000	1.000

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Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 635 di 1221
55.26	0.000	0.000	Strato1_2_8_L_0				
30 D	11.28	-5.2309E-02	150.4	56.42	150.4	79.74	ACTIVE 0.000 -5.800 0.000 1.000 1.000
56.42	0.000	0.000	Strato1_2_8_L_0				
31 D	11.62	-5.1686E-02	154.9	58.09	154.9	82.11	ACTIVE 0.000 -6.000 0.000 1.000 1.000
58.09	0.000	0.000	Strato1_2_8_L_0				
32 D	11.85	-5.1041E-02	158.0	59.27	158.0	83.76	ACTIVE 0.000 -6.200 0.000 1.000 1.000
59.27	0.000	0.000	Strato1_2_8_L_0				
33 D	12.20	-5.0374E-02	162.7	61.01	162.7	86.23	ACTIVE 0.000 -6.400 0.000 1.000 1.000
61.01	0.000	0.000	Strato1_2_8_L_0				
34 D	12.44	-4.9685E-02	165.9	62.20	165.9	87.91	ACTIVE 0.000 -6.600 0.000 1.000 1.000
62.20	0.000	0.000	Strato1_2_8_L_0				
35 D	12.79	-4.8971E-02	170.5	63.93	170.5	90.35	ACTIVE 0.000 -6.800 0.000 1.000 1.000
63.93	0.000	0.000	Strato1_2_8_L_0				
36 D	13.02	-4.8234E-02	173.7	65.12	173.7	92.04	ACTIVE 0.000 -7.000 0.000 1.000 1.000
65.12	0.000	0.000	Strato1_2_8_L_0				
37 D	13.37	-4.7472E-02	178.2	66.83	178.2	94.46	ACTIVE 0.000 -7.200 0.000 1.000 1.000
66.83	0.000	0.000	Strato1_2_8_L_0				
38 D	13.61	-4.6685E-02	181.4	68.04	181.4	96.16	ACTIVE 0.000 -7.400 0.000 1.000 1.000
68.04	0.000	0.000	Strato1_2_8_L_0				
39 D	13.93	-4.5873E-02	185.8	69.66	185.8	98.45	ACTIVE 0.000 -7.600 0.000 1.000 1.000
69.66	0.000	0.000	Strato1_2_8_L_0				
40 D	14.18	-4.5037E-02	189.0	70.88	189.0	100.2	ACTIVE 0.000 -7.800 0.000 1.000 1.000
70.88	0.000	0.000	Strato1_2_8_L_0				
41 D	14.51	-4.4175E-02	193.5	72.56	193.5	102.5	ACTIVE 0.000 -8.000 0.000 1.000 1.000
72.56	0.000	0.000	Strato1_2_8_L_0				
42 D	14.76	-4.3289E-02	196.8	73.79	196.8	104.3	ACTIVE 0.000 -8.200 0.000 1.000 1.000
73.79	0.000	0.000	Strato1_2_8_L_0				
43 D	15.09	-4.2378E-02	201.2	75.45	201.2	106.6	ACTIVE 0.000 -8.400 0.000 1.000 1.000
75.45	0.000	0.000	Strato1_2_8_L_0				
44 D	15.34	-4.1443E-02	204.5	76.69	204.5	108.4	ACTIVE 0.000 -8.600 0.000 1.000 1.000
76.69	0.000	0.000	Strato1_2_8_L_0				
45 D	15.67	-4.0485E-02	208.9	78.34	208.9	110.7	ACTIVE 0.000 -8.800 0.000 1.000 1.000
78.34	0.000	0.000	Strato1_2_8_L_0				
46 D	15.91	-3.9505E-02	212.1	79.53	212.1	112.4	ACTIVE 0.000 -9.000 0.000 1.000 1.000
79.53	0.000	0.000	Strato1_2_8_L_0				
47 D	16.23	-3.8503E-02	216.5	81.17	216.5	114.7	ACTIVE 0.000 -9.200 0.000 1.000 1.000
81.17	0.000	0.000	Strato1_2_8_L_0				
48 D	16.48	-3.7481E-02	219.8	82.42	219.8	116.5	ACTIVE 0.000 -9.400 0.000 1.000 1.000
82.42	0.000	0.000	Strato1_2_8_L_0				
49 D	16.81	-3.6440E-02	224.2	84.06	224.2	118.8	ACTIVE 0.000 -9.600 0.000 1.000 1.000
84.06	0.000	0.000	Strato1_2_8_L_0				
50 D	17.06	-3.5381E-02	227.5	85.32	227.5	120.6	ACTIVE 0.000 -9.800 0.000 1.000 1.000
85.32	0.000	0.000	Strato1_2_8_L_0				
51 D	17.39	-3.4306E-02	231.8	86.94	231.8	122.9	ACTIVE 0.000 -10.000 0.000 1.000 1.000
86.94	0.000	0.000	Strato1_2_8_L_0				
52 D	17.64	-3.3217E-02	235.2	88.20	235.2	124.7	ACTIVE 0.000 -10.200 0.000 1.000 1.000
88.20	0.000	0.000	Strato1_2_8_L_0				
53 D	17.96	-3.2115E-02	239.5	89.82	239.5	126.9	ACTIVE 0.000 -10.400 0.000 1.000 1.000
89.82	0.000	0.000	Strato1_2_8_L_0				
54 D	18.21	-3.1002E-02	242.8	91.04	242.8	128.7	ACTIVE 0.000 -10.600 0.000 1.000 1.000
91.04	0.000	0.000	Strato1_2_8_L_0				
55 D	18.53	-2.9880E-02	247.1	92.65	247.1	130.9	ACTIVE 0.000 -10.800 0.000 1.000 1.000
92.65	0.000	0.000	Strato1_2_8_L_0				
56 D	18.78	-2.8751E-02	250.5	93.92	250.5	132.7	ACTIVE 0.000 -11.000 0.000 1.000 1.000
93.92	0.000	0.000	Strato1_2_8_L_0				
57 D	19.11	-2.7618E-02	254.7	95.53	254.7	135.0	ACTIVE 0.000 -11.200 0.000 1.000 1.000
95.53	0.000	0.000	Strato1_2_8_L_0				
58 D	19.36	-2.6482E-02	258.2	96.81	258.2	136.8	ACTIVE 0.000 -11.400 0.000 1.000 1.000
96.81	0.000	0.000	Strato1_2_8_L_0				
59 D	19.68	-2.5345E-02	262.4	98.41	262.4	139.1	ACTIVE 0.000 -11.600 0.000 1.000 1.000
98.41	0.000	0.000	Strato1_2_8_L_0				
60 D	19.94	-2.4209E-02	265.8	99.69	265.8	140.9	ACTIVE 0.000 -11.800 0.000 1.000 1.000
99.69	0.000	0.000	Strato1_2_8_L_0				
61 D	20.25	-2.3077E-02	270.0	101.2	270.0	143.1	ACTIVE 0.000 -12.000 0.000 1.000 1.000
101.2	0.000	0.000	Strato1_2_8_L_0				
62 D	20.50	-2.1949E-02	273.4	102.5	273.4	144.9	ACTIVE 0.000 -12.200 0.000 1.000 1.000
102.5	0.000	0.000	Strato1_2_8_L_0				
63 D	20.82	-2.0829E-02	277.6	104.1	277.6	147.1	ACTIVE 0.000 -12.400 0.000 1.000 1.000
104.1	0.000	0.000	Strato1_2_8_L_0				
64 D	21.08	-1.9718E-02	281.1	105.4	281.1	149.0	ACTIVE 0.000 -12.600 0.000 1.000 1.000
105.4	0.000	0.000	Strato1_2_8_L_0				
65 D	21.40	-1.8617E-02	285.3	107.0	285.3	151.2	ACTIVE 0.000 -12.800 0.000 1.000 1.000
107.0	0.000	0.000	Strato1_2_8_L_0				
66 D	21.66	-1.7528E-02	288.7	108.3	288.7	153.0	ACTIVE 0.000 -13.000 0.000 1.000 1.000
108.3	0.000	0.000	Strato1_2_8_L_0				
67 D	14.08	-1.6452E-02	293.0	70.39	293.0	146.5	ACTIVE 0.000 -13.200 0.000 1.000 1.000
70.39	0.000	0.000	Strato2_3095_82743_L_0				
68 D	14.30	-1.5390E-02	296.7	71.49	296.7	148.4	ACTIVE 0.000 -13.400 0.000 1.000 1.000
71.49	0.000	0.000	Strato2_3095_82743_L_0				
69 D	14.55	-1.4344E-02	301.0	72.77	301.0	150.5	ACTIVE 0.000 -13.600 0.000 1.000 1.000
72.77	0.000	0.000	Strato2_3095_82743_L_0				
70 D	14.77	-1.3315E-02	304.7	73.87	304.7	152.3	ACTIVE 0.000 -13.800 0.000 1.000 1.000
73.87	0.000	0.000	Strato2_3095_82743_L_0				
71 D	15.04	-1.2302E-02	309.0	75.19	309.0	154.5	ACTIVE 0.000 -14.000 0.000 1.000 1.000
75.19	0.000	0.000	Strato2_3095_82743_L_0				

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 637 di 1221							
10	0.000	--	--	--	REMOVED	--	-1.800	0.000	1.000	1.000		
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	not available	--	--	--	--	--	--	--		
12	0.000	--	--	--	REMOVED	--	-2.200	0.000	1.000	1.000		
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	not available	--	--	--	--	--	--	--		
14	0.000	--	--	--	REMOVED	--	-2.600	0.000	1.000	1.000		
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	not available	--	--	--	--	--	--	--		
16	0.000	--	--	--	REMOVED	--	-3.000	0.000	1.000	1.000		
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	not available	--	--	--	--	--	--	--		
18	0.000	--	--	--	REMOVED	--	-3.400	0.000	1.000	1.000		
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	not available	--	--	--	--	--	--	--		
20	0.000	--	--	--	REMOVED	--	-3.800	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
21	0.000	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
22	0.000	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
23	0.000	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
24	0.000	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
25	0.000	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
26	0.000	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
27	0.000	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
28	0.000	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
29	0.000	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
30	0.000	--	--	--	REMOVED	--	-5.800	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
31	0.000	--	--	--	REMOVED	--	-6.000	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
32	0.000	--	--	--	REMOVED	--	-6.200	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
33	0.000	--	--	--	REMOVED	--	-6.400	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
34	0.000	--	--	--	REMOVED	--	-6.600	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
35	0.000	--	--	--	REMOVED	--	-6.800	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
36	0.000	--	--	--	REMOVED	--	-7.000	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
37	0.000	--	--	--	REMOVED	--	-7.200	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
38	0.000	--	--	--	REMOVED	--	-7.400	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
39	0.000	--	--	--	REMOVED	--	-7.600	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
40	0.000	--	--	--	REMOVED	--	-7.800	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
41	0.000	--	--	--	REMOVED	--	-8.000	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
42	0.000	--	--	--	REMOVED	--	-8.200	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
43	0.000	--	--	--	REMOVED	--	-8.400	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
44	0.000	--	--	--	REMOVED	--	-8.600	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
45	0.000	--	--	--	REMOVED	--	-8.800	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
46	0.000	--	--	--	REMOVED	--	-9.000	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
47	0.000	--	--	--	REMOVED	--	-9.200	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
48	0.000	--	--	--	REMOVED	--	-9.400	0.000	1.000	1.000		
0.000	0.000	0.000	not available	--	--	--	--	--	--	--		
49 D	1.154	3.6440E-02	1.900	5.772	182.4	105.7	PASSIVE	0.000	-9.600	0.000	1.000	1.000
5.772	0.000	0.000	Strat01_2_8_L_0	--	--	--	--	--	--	--	--	--
50 D	3.463	3.5381E-02	5.700	17.32	186.2	107.0	PASSIVE	0.000	-9.800	0.000	1.000	1.000
17.32	0.000	0.000	Strat01_2_8_L_0	--	--	--	--	--	--	--	--	--
51 D	5.772	3.4306E-02	9.500	28.86	190.0	108.3	PASSIVE	0.000	-10.00	0.000	1.000	1.000
28.86	0.000	0.000	Strat01_2_8_L_0	--	--	--	--	--	--	--	--	--
52 D	8.081	3.3217E-02	13.30	40.41	193.8	109.6	PASSIVE	0.000	-10.20	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.					Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 638 di 1221		
40.41	0.000	0.000	Strato1_2_8_L_0								
53 D	10.39	3.2115E-02	17.10 51.95	197.6	111.1	PASSIVE	0.000	-10.40	0.000	1.000	1.000
51.95	0.000	0.000	Strato1_2_8_L_0								
54 D	12.70	3.1002E-02	20.90 63.49	201.4	112.5	PASSIVE	0.000	-10.60	0.000	1.000	1.000
63.49	0.000	0.000	Strato1_2_8_L_0								
55 D	15.01	2.9880E-02	24.70 75.04	205.2	114.1	PASSIVE	0.000	-10.80	0.000	1.000	1.000
75.04	0.000	0.000	Strato1_2_8_L_0								
56 D	17.32	2.8751E-02	28.50 86.58	209.0	115.6	PASSIVE	0.000	-11.00	0.000	1.000	1.000
86.58	0.000	0.000	Strato1_2_8_L_0								
57 D	19.63	2.7618E-02	32.30 98.13	212.8	117.3	PASSIVE	0.000	-11.20	0.000	1.000	1.000
98.13	0.000	0.000	Strato1_2_8_L_0								
58 D	21.93	2.6482E-02	36.10 109.7	216.6	118.9	PASSIVE	0.000	-11.40	0.000	1.000	1.000
109.7	0.000	0.000	Strato1_2_8_L_0								
59 D	24.24	2.5345E-02	39.90 121.2	220.4	121.2	PASSIVE	0.000	-11.60	0.000	1.000	1.000
121.2	0.000	0.000	Strato1_2_8_L_0								
60 D	26.55	2.4209E-02	43.70 132.8	224.2	132.8	PASSIVE	0.000	-11.80	0.000	1.000	1.000
132.8	0.000	0.000	Strato1_2_8_L_0								
61 D	28.86	2.3077E-02	47.50 144.3	228.0	144.3	PASSIVE	0.000	-12.00	0.000	1.000	1.000
144.3	0.000	0.000	Strato1_2_8_L_0								
62 D	31.17	2.1949E-02	51.30 155.8	231.8	155.8	PASSIVE	0.000	-12.20	0.000	1.000	1.000
155.8	0.000	0.000	Strato1_2_8_L_0								
63 D	33.48	2.0829E-02	55.10 167.4	235.6	167.4	PASSIVE	0.000	-12.40	0.000	1.000	1.000
167.4	0.000	0.000	Strato1_2_8_L_0								
64 D	34.88	1.9718E-02	58.90 174.4	239.4	174.4	V-C	2296.	-12.60	0.000	1.000	1.000
174.4	0.000	0.000	Strato1_2_8_L_0								
65 D	34.76	1.8617E-02	62.70 173.8	243.2	173.8	V-C	2296.	-12.80	0.000	1.000	1.000
173.8	0.000	0.000	Strato1_2_8_L_0								
66 D	34.64	1.7528E-02	66.50 173.2	247.0	173.2	V-C	2296.	-13.00	0.000	1.000	1.000
173.2	0.000	0.000	Strato1_2_8_L_0								
67 D	39.06	1.6452E-02	70.40 195.3	250.9	195.3	V-C	5171.	-13.20	0.000	1.000	1.000
195.3	0.000	0.000	Strato2_3095_82743_L_0								
68 D	38.36	1.5390E-02	74.40 191.8	254.9	191.8	V-C	5171.	-13.40	0.000	1.000	1.000
191.8	0.000	0.000	Strato2_3095_82743_L_0								
69 D	37.67	1.4344E-02	78.40 188.4	258.9	188.4	V-C	5171.	-13.60	0.000	1.000	1.000
188.4	0.000	0.000	Strato2_3095_82743_L_0								
70 D	37.01	1.3315E-02	82.40 185.1	262.9	185.1	V-C	5171.	-13.80	0.000	1.000	1.000
185.1	0.000	0.000	Strato2_3095_82743_L_0								
71 D	36.37	1.2302E-02	86.40 181.8	266.9	181.8	V-C	5171.	-14.00	0.000	1.000	1.000
181.8	0.000	0.000	Strato2_3095_82743_L_0								
72 D	35.75	1.1306E-02	90.40 178.7	270.9	178.7	V-C	5171.	-14.20	0.000	1.000	1.000
178.7	0.000	0.000	Strato2_3095_82743_L_0								
73 D	35.15	1.0327E-02	94.40 175.7	274.9	175.7	V-C	5171.	-14.40	0.000	1.000	1.000
175.7	0.000	0.000	Strato2_3095_82743_L_0								
74 D	34.56	9.3655E-03	98.40 172.8	278.9	172.8	UL-RL	1.5512E+04	-14.60	0.000	1.000	1.000
172.8	0.000	0.000	Strato2_3095_82743_L_0								
75 D	33.99	8.4209E-03	102.4 170.0	282.9	170.0	UL-RL	1.5512E+04	-14.80	0.000	1.000	1.000
170.0	0.000	0.000	Strato2_3095_82743_L_0								
76 D	33.44	7.4929E-03	106.4 167.2	286.9	167.3	UL-RL	1.5512E+04	-15.00	0.000	1.000	1.000
167.2	0.000	0.000	Strato2_3095_82743_L_0								
77 D	32.91	6.5808E-03	110.4 164.5	290.9	164.7	UL-RL	1.5512E+04	-15.20	0.000	1.000	1.000
164.5	0.000	0.000	Strato2_3095_82743_L_0								
78 D	32.39	5.6838E-03	114.4 162.0	294.9	162.2	UL-RL	1.5512E+04	-15.40	0.000	1.000	1.000
162.0	0.000	0.000	Strato2_3095_82743_L_0								
79 D	31.89	4.8011E-03	118.4 159.5	298.9	159.7	UL-RL	1.5512E+04	-15.60	0.000	1.000	1.000
159.5	0.000	0.000	Strato2_3095_82743_L_0								
80 D	31.41	3.9316E-03	122.4 157.0	302.9	157.3	UL-RL	1.5512E+04	-15.80	0.000	1.000	1.000
157.0	0.000	0.000	Strato2_3095_82743_L_0								
81 D	29.97	3.0740E-03	126.4 149.9	306.9	157.4	UL-RL	1.5512E+04	-16.00	0.000	1.000	1.000
149.9	0.000	0.000	Strato2_3095_82743_L_0								
82 D	27.85	2.2272E-03	130.4 139.3	310.9	159.3	UL-RL	1.5512E+04	-16.20	0.000	1.000	1.000
139.3	0.000	0.000	Strato2_3095_82743_L_0								
83 D	25.75	1.3895E-03	134.4 128.8	314.9	161.2	UL-RL	1.5512E+04	-16.40	0.000	1.000	1.000
128.8	0.000	0.000	Strato2_3095_82743_L_0								
84 D	23.68	5.5961E-04	138.4 118.4	318.9	163.1	UL-RL	1.5512E+04	-16.60	0.000	1.000	1.000
118.4	0.000	0.000	Strato2_3095_82743_L_0								
85 D	21.62	-2.6410E-04	142.4 108.1	322.9	165.0	UL-RL	1.5512E+04	-16.80	0.000	1.000	1.000
108.1	0.000	0.000	Strato2_3095_82743_L_0								
86 D	19.58	-1.0830E-03	146.4 97.88	326.9	167.0	UL-RL	1.5512E+04	-17.00	0.000	1.000	1.000
97.88	0.000	0.000	Strato2_3095_82743_L_0								
87 D	17.54	-1.8983E-03	150.4 87.71	330.9	168.9	UL-RL	1.5512E+04	-17.20	0.000	1.000	1.000
87.71	0.000	0.000	Strato2_3095_82743_L_0								
88 D	15.51	-2.7113E-03	154.4 77.56	334.9	170.8	UL-RL	1.5512E+04	-17.40	0.000	1.000	1.000
77.56	0.000	0.000	Strato2_3095_82743_L_0								
89 D	13.49	-3.5229E-03	158.4 67.43	338.9	172.7	UL-RL	1.5512E+04	-17.60	0.000	1.000	1.000
67.43	0.000	0.000	Strato2_3095_82743_L_0								
90 D	11.46	-4.3338E-03	162.4 57.31	342.9	174.6	UL-RL	1.5512E+04	-17.80	0.000	1.000	1.000
57.31	0.000	0.000	Strato2_3095_82743_L_0								
91 D	4.718	-5.1444E-03	166.4 47.18	346.9	176.6	UL-RL	1.5512E+04	-18.00	0.000	1.000	1.000
47.18	0.000	0.000	Strato2_3095_82743_L_0								

GENERAL CONTRACTOR

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Doc. N.

Progetto
INORLotto
12Codifica Documento
E E2 CL GA 2701 002Rev.
AFoglio
639 di 1221

NewProject.BaseDesignSection_28.A2M2R1_3514

Exe Time :29 July 2019 18:00:09

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_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
 C U R R E N T T I M E I S 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.48750	-0.48750	1.97589E-10	9.75000E-02
2	1.4192	-1.4192	-9.75000E-02	0.38134
3	3.9178	-3.9178	-0.38134	1.1649
4	6.5423	-6.5423	-1.1649	2.4734
5	10.093	-10.093	-2.4734	4.4919
6	13.757	-13.757	-4.4919	7.2434
7	18.108	-18.108	-7.2434	10.865
8	22.591	-22.591	-10.865	15.383
9	27.582	-27.582	-15.383	20.900
10	32.731	-32.731	-20.900	27.446
11	38.395	-38.395	-27.446	35.125
12	44.230	-44.230	-35.125	43.971
13	50.535	-50.535	-43.971	54.078
14	57.023	-57.023	-54.078	65.483
15	63.953	-63.953	-65.483	78.273
16	-236.68	236.68	-78.273	30.936
17	-229.18	229.18	-30.936	-14.899
18	-221.47	221.47	14.899	-59.192
19	-213.35	213.35	59.192	-101.86
20	-205.03	205.03	101.86	-142.87
21	-196.32	196.32	142.87	-182.13
22	-187.39	187.39	182.13	-219.61
23	-178.08	178.08	219.61	-255.23
24	-168.58	168.58	255.23	-288.94
25	-158.70	158.70	288.94	-320.69
26	-148.60	148.60	320.69	-350.41
27	-138.14	138.14	350.41	-378.03
28	-127.45	127.45	378.03	-403.52
29	-116.39	116.39	403.52	-426.80
30	-105.11	105.11	426.80	-447.82
31	-93.491	93.491	447.82	-466.52
32	-81.638	81.638	466.52	-482.85
33	-69.435	69.435	482.85	-496.74
34	-56.995	56.995	496.74	-508.14
35	-44.210	44.210	508.14	-516.98
36	-31.185	31.185	516.98	-523.22
37	-17.818	17.818	523.22	-526.78
38	-4.2100	4.2100	526.78	-527.62
39	9.7219	-9.7219	527.62	-525.68
40	23.898	-23.898	525.68	-520.90
41	38.410	-38.410	520.90	-513.21
42	53.167	-53.167	513.21	-502.58
43	68.258	-68.258	502.58	-488.93
44	83.596	-83.596	488.93	-472.21
45	99.265	-99.265	472.21	-452.36
46	115.17	-115.17	452.36	-429.32
47	131.40	-131.40	429.32	-403.04
48	147.89	-147.89	403.04	-373.47
49	163.55	-163.55	373.47	-340.76
50	177.14	-177.14	340.76	-305.33
51	188.76	-188.76	305.33	-267.57
52	198.32	-198.32	267.57	-227.91
53	205.90	-205.90	227.91	-186.73
54	211.40	-211.40	186.73	-144.45
55	214.93	-214.93	144.45	-101.47
56	216.39	-216.39	101.47	-58.187
57	215.87	-215.87	58.187	-15.012
58	213.30	-213.30	15.012	27.649
59	208.74	-208.74	-27.649	69.397
60	202.13	-202.13	-69.397	109.82
61	193.51	-193.51	-109.82	148.52
62	182.85	-182.85	-148.52	185.09
63	170.19	-170.19	-185.09	219.13
64	156.39	-156.39	-219.13	250.41
65	143.03	-143.03	-250.41	279.02
66	130.05	-130.05	-279.02	305.02
67	105.07	-105.07	-305.02	326.04
68	81.008	-81.008	-326.04	342.24

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 640 di 1221
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69	57.889	-57.889	-342.24	353.82
70	35.652	-35.652	-353.82	360.95
71	14.284	-14.284	-360.95	363.80
72	-6.2247	6.2247	-363.80	362.56
73	-25.854	25.854	-362.56	357.39
74	-44.663	44.663	-357.39	348.46
75	-62.630	62.630	-348.46	335.93
76	-79.819	79.819	-335.93	319.97
77	-96.202	96.202	-319.97	300.73
78	-111.83	111.83	-300.73	278.36
79	-126.69	126.69	-278.36	253.02
80	-140.83	140.83	-253.02	224.86
81	-152.46	152.46	-224.86	194.36
82	-157.95	157.95	-194.36	162.77
83	-157.45	157.45	-162.77	131.28
84	-150.94	150.94	-131.28	101.09
85	-138.54	138.54	-101.09	73.386
86	-121.75	121.75	-73.386	49.037
87	-101.28	101.28	-49.037	28.781
88	-77.076	77.076	-28.781	13.366
89	-49.209	49.209	-13.366	3.5244
90	-17.622	17.622	-3.5244	-4.27841E-11

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:00:09  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	318.58	-1.30818E-03	4.36734E-02	0.0000	3950.0	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:00:09  |
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
--	----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

ITER 0 RNORM = 0.000  RMNORM= 0.000
RINORM=0.3214E+07 RIMNOR=0.1563E+08
RENORM=0.5831E+05 REMNOR=0.9714E-17 RATIO =0.1347  TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 307.7  RMMAX = 527.6
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.3214E+07 RDR =0.1563E+08
RATIOT=0.1347  RATOR= 0.000
MAX UN=0.3624E-01 IEQ= 141 NODE 71 DOF 1 Y-DISPL.F
MIN UN=-241.5 IEQ= 91 NODE 46 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 2 RNORM = 0.000  RMNORM= 0.000
RINORM=0.3214E+07 RIMNOR=0.1563E+08
RENORM= 7.551  REMNOR=0.1017E-16 RATIO =0.1533E-02 TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 307.7  RMMAX = 527.6

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GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
641 di 1221

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RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.3214E+07 RDR =0.1563E+08
RATIOT=0.1533E-02 RATIO= 0.000
MAX UN=0.1255 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
MIN UN=-2.684 IEQ= 97 NODE 49 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM=0.3214E+07 RIMNOR=0.1563E+08
RENORM=0.2708E-14 REMNOR=0.6784E-17 RATIO =0.2902E-10 TOLER =0.1000E-03 CONVERGED !
RFMAX = 307.7 RMMAX = 527.6
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.3214E+07 RDR =0.1563E+08
RATIOT=0.2902E-10 RATIO= 0.000
MAX UN=0.1323E-07 IEQ= 53 NODE 27 DOF 1 Y-DISPL.F
MIN UN=-.1458E-07 IEQ= 23 NODE 12 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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| PARATIEPLUS(TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| | |
| NewProject.BaseDesignSection_28.A2M2R1_3514 |
| Exe Time :29 July 2019 18:00:09 |
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New Project
SOLUTION REACHED USING 3 ITERATIONS ON 100

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P R I N T O U T F O R T I M E S T E P 6 ( AT TIME 6.000 )

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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	6.7708867E-02	-2.9819705E-03	
2	6.7112474E-02	-2.9819589E-03	
3	6.6516086E-02	-2.9819021E-03	
4	6.5919721E-02	-2.9817186E-03	
5	6.5323416E-02	-2.9812867E-03	
6	6.4727233E-02	-2.9804599E-03	
7	6.4131269E-02	-2.9790669E-03	
8	6.3535657E-02	-2.9769174E-03	
9	6.2940567E-02	-2.9738017E-03	
10	6.2346215E-02	-2.9694945E-03	
11	6.1752865E-02	-2.9637505E-03	
12	6.1160829E-02	-2.9563008E-03	
13	6.0570478E-02	-2.9468528E-03	
14	5.9982242E-02	-2.9350911E-03	
15	5.9396618E-02	-2.9206772E-03	
16	5.8814172E-02	-2.9032501E-03	
17	5.8235062E-02	-2.8896685E-03	
18	5.7657592E-02	-2.8867695E-03	
19	5.7079670E-02	-2.8941271E-03	
20	5.6499288E-02	-2.9112930E-03	
21	5.5914530E-02	-2.9377972E-03	
22	5.5323579E-02	-2.9731479E-03	
23	5.4724716E-02	-3.0168313E-03	
24	5.4116330E-02	-3.0683122E-03	
25	5.3496911E-02	-3.1270348E-03	
26	5.2865071E-02	-3.1924220E-03	
27	5.2219538E-02	-3.2638757E-03	
28	5.1559158E-02	-3.3407767E-03	
29	5.0882910E-02	-3.4224840E-03	
30	5.0189891E-02	-3.5083377E-03	
31	4.9479344E-02	-3.5976555E-03	
32	4.8750645E-02	-3.6897359E-03	
33	4.8003314E-02	-3.7838576E-03	
34	4.7237015E-02	-3.8792794E-03	
35	4.6451570E-02	-3.9752397E-03	
36	4.5646939E-02	-4.0709596E-03	
37	4.4823255E-02	-4.1656394E-03	
38	4.3980807E-02	-4.2584615E-03	
39	4.3120050E-02	-4.3485902E-03	
40	4.2241612E-02	-4.4351720E-03	
41	4.1346280E-02	-4.5173380E-03	
42	4.0435030E-02	-4.5942015E-03	
43	3.9509013E-02	-4.6648604E-03	
44	3.8569561E-02	-4.7283971E-03	
45	3.7618196E-02	-4.7838794E-03	
46	3.6656590E-02	-4.8303635E-03	
47	3.5686309E-02	-4.8726212E-03	
48	3.4707506E-02	-4.9154170E-03	

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 642 di 1221
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- 49 3.3720176E-02 -4.9577698E-03
- 50 3.2724498E-02 -4.9986925E-03
- 51 3.1720860E-02 -5.0371981E-03
- 52 3.0709838E-02 -5.0723401E-03
- 53 2.9692201E-02 -5.1032629E-03
- 54 2.8668864E-02 -5.1292190E-03
- 55 2.7640887E-02 -5.1495685E-03
- 56 2.6609446E-02 -5.1637808E-03
- 57 2.5575812E-02 -5.1714341E-03
- 58 2.4541330E-02 -5.1722164E-03
- 59 2.3507397E-02 -5.1659257E-03
- 60 2.2475437E-02 -5.1524697E-03
- 61 2.1446885E-02 -5.1318669E-03
- 62 2.0423159E-02 -5.1042459E-03
- 63 1.9405639E-02 -5.0698461E-03
- 64 1.8395649E-02 -5.0290170E-03
- 65 1.7394431E-02 -4.9821968E-03
- 66 1.6403138E-02 -4.9298540E-03
- 67 1.5422827E-02 -4.8724516E-03
- 68 1.4454452E-02 -4.8106331E-03
- 69 1.3498814E-02 -4.7452189E-03
- 70 1.2556550E-02 -4.6770174E-03
- 71 1.1628139E-02 -4.6068247E-03
- 72 1.0713901E-02 -4.5354248E-03
- 73 9.8140432E-03 -4.4635927E-03
- 74 8.9284875E-03 -4.3920804E-03
- 75 8.0571397E-03 -4.3216375E-03
- 76 7.1997124E-03 -4.2529971E-03
- 77 6.3557727E-03 -4.1868789E-03
- 78 5.5247456E-03 -4.1239893E-03
- 79 4.7059156E-03 -4.0650211E-03
- 80 3.8984304E-03 -4.0106537E-03
- 81 3.1013030E-03 -3.9615529E-03
- 82 2.3134174E-03 -3.9183293E-03
- 83 1.5335511E-03 -3.8814094E-03
- 84 7.6042285E-04 -3.8509519E-03
- 85 -7.2917534E-06 -3.8268499E-03
- 86 -7.7075478E-04 -3.8087367E-03
- 87 -1.5311460E-03 -3.7960176E-03
- 88 -2.2894704E-03 -3.7879267E-03
- 89 -3.0465637E-03 -3.7835414E-03
- 90 -3.8030620E-03 -3.7817828E-03
- 91 -4.5593696E-03 -3.7814156E-03

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
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|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:00:09  |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 6.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1 D	0.4875	-6.7709E-02	13.00	4.875	13.00	19.53	ACTIVE	0.000	0.000	0.000	1.000	1.000
4.875	0.000	0.000	Strato1_2_8_L_0									
2 D	0.9317	-6.7112E-02	12.42	4.658	12.42	18.99	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
4.658	0.000	0.000	Strato1_2_8_L_0									
3 D	2.499	-6.6516E-02	33.32	12.49	33.32	28.72	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
12.49	0.000	0.000	Strato1_2_8_L_0									
4 D	2.624	-6.5920E-02	34.99	13.12	34.99	29.26	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
13.12	0.000	0.000	Strato1_2_8_L_0									
5 D	3.551	-6.5323E-02	47.34	17.75	47.34	34.90	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
17.75	0.000	0.000	Strato1_2_8_L_0									
6 D	3.664	-6.4727E-02	48.86	18.32	48.86	35.35	ACTIVE	0.000	-1.000	0.000	1.000	1.000
18.32	0.000	0.000	Strato1_2_8_L_0									
7 D	4.351	-6.4131E-02	58.01	21.75	58.01	39.46	ACTIVE	0.000	-1.200	0.000	1.000	1.000
21.75	0.000	0.000	Strato1_2_8_L_0									
8 D	4.483	-6.3536E-02	59.77	22.41	59.77	40.03	ACTIVE	0.000	-1.400	0.000	1.000	1.000

GENERAL CONTRACTOR



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Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 643 di 1221
22.41	0.000	0.000	Stratol_2_8_L_0				
9 D	5.008	-6.2941E-02	66.55	25.04	66.55	43.00	UL-RL 7686.
25.04	0.000	0.000	Stratol_2_8_L_0				
10 D	5.325	-6.2346E-02	68.65	26.62	68.65	43.72	UL-RL 7686.
26.62	0.000	0.000	Stratol_2_8_L_0				
11 D	5.998	-6.1753E-02	75.51	29.99	75.51	46.71	UL-RL 7686.
29.99	0.000	0.000	Stratol_2_8_L_0				
12 D	6.329	-6.1161E-02	77.80	31.64	77.80	47.50	UL-RL 7686.
31.64	0.000	0.000	Stratol_2_8_L_0				
13 D	6.959	-6.0570E-02	84.08	34.79	84.08	50.18	UL-RL 7686.
34.79	0.000	0.000	Stratol_2_8_L_0				
14 D	7.300	-5.9982E-02	86.51	36.50	86.51	51.02	UL-RL 7686.
36.50	0.000	0.000	Stratol_2_8_L_0				
15 D	7.900	-5.9397E-02	92.39	39.50	92.39	53.48	UL-RL 7686.
39.50	0.000	0.000	Stratol_2_8_L_0				
16 D	8.215	-5.8814E-02	94.47	41.07	94.47	54.11	UL-RL 7686.
41.07	0.000	0.000	Stratol_2_8_L_0				
17 D	8.795	-5.8235E-02	100.1	43.98	100.1	56.41	UL-RL 7686.
43.98	0.000	0.000	Stratol_2_8_L_0				
18 D	9.156	-5.7658E-02	102.8	45.78	102.8	57.29	UL-RL 7686.
45.78	0.000	0.000	Stratol_2_8_L_0				
19 D	9.718	-5.7080E-02	108.2	48.59	108.2	59.45	UL-RL 7686.
48.59	0.000	0.000	Stratol_2_8_L_0				
20 D	10.08	-5.6499E-02	111.0	50.42	111.0	60.35	UL-RL 7686.
50.42	0.000	0.000	Stratol_2_8_L_0				
21 D	10.63	-5.5915E-02	116.2	53.16	116.2	62.40	UL-RL 7686.
53.16	0.000	0.000	Stratol_2_8_L_0				
22 D	11.00	-5.5324E-02	119.0	55.02	119.0	63.33	UL-RL 7686.
55.02	0.000	0.000	Stratol_2_8_L_0				
23 D	11.54	-5.4725E-02	124.1	57.69	124.1	65.78	UL-RL 7686.
57.69	0.000	0.000	Stratol_2_8_L_0				
24 D	11.89	-5.4116E-02	126.7	59.44	126.7	67.16	UL-RL 7686.
59.44	0.000	0.000	Stratol_2_8_L_0				
25 D	12.41	-5.3497E-02	131.7	62.06	131.7	69.79	UL-RL 7686.
62.06	0.000	0.000	Stratol_2_8_L_0				
26 D	12.79	-5.2865E-02	134.7	63.93	134.7	71.38	UL-RL 7686.
63.93	0.000	0.000	Stratol_2_8_L_0				
27 D	13.30	-5.2220E-02	139.5	66.49	139.5	73.96	UL-RL 7686.
66.49	0.000	0.000	Stratol_2_8_L_0				
28 D	13.67	-5.1559E-02	142.6	68.36	142.6	75.57	UL-RL 7686.
68.36	0.000	0.000	Stratol_2_8_L_0				
29 D	14.17	-5.0883E-02	147.4	70.86	147.4	78.10	UL-RL 7686.
70.86	0.000	0.000	Stratol_2_8_L_0				
30 D	14.54	-5.0190E-02	150.4	72.71	150.4	79.74	UL-RL 7686.
72.71	0.000	0.000	Stratol_2_8_L_0				
31 D	15.01	-4.9479E-02	154.9	75.05	154.9	82.11	UL-RL 7686.
75.05	0.000	0.000	Stratol_2_8_L_0				
32 D	15.37	-4.8751E-02	158.0	76.87	158.0	83.76	UL-RL 7686.
76.87	0.000	0.000	Stratol_2_8_L_0				
33 D	15.85	-4.8003E-02	162.7	79.24	162.7	86.23	UL-RL 7686.
79.24	0.000	0.000	Stratol_2_8_L_0				
34 D	16.20	-4.7237E-02	165.9	81.01	165.9	87.91	UL-RL 7686.
81.01	0.000	0.000	Stratol_2_8_L_0				
35 D	16.66	-4.6452E-02	170.5	83.29	170.5	90.35	UL-RL 7686.
83.29	0.000	0.000	Stratol_2_8_L_0				
36 D	17.00	-4.5647E-02	173.7	85.01	173.7	92.04	UL-RL 7686.
85.01	0.000	0.000	Stratol_2_8_L_0				
37 D	17.44	-4.4823E-02	178.2	87.19	178.2	94.46	UL-RL 7686.
87.19	0.000	0.000	Stratol_2_8_L_0				
38 D	17.77	-4.3981E-02	181.4	88.83	181.4	96.16	UL-RL 7686.
88.83	0.000	0.000	Stratol_2_8_L_0				
39 D	18.16	-4.3120E-02	185.8	90.82	185.8	98.45	UL-RL 7686.
90.82	0.000	0.000	Stratol_2_8_L_0				
40 D	18.47	-4.2242E-02	189.0	92.36	189.0	100.2	UL-RL 7686.
92.36	0.000	0.000	Stratol_2_8_L_0				
41 D	18.86	-4.1346E-02	193.5	94.30	193.5	102.5	UL-RL 7686.
94.30	0.000	0.000	Stratol_2_8_L_0				
42 D	19.14	-4.0435E-02	196.8	95.72	196.8	104.3	UL-RL 7686.
95.72	0.000	0.000	Stratol_2_8_L_0				
43 D	19.50	-3.9509E-02	201.2	97.50	201.2	106.6	UL-RL 7686.
97.50	0.000	0.000	Stratol_2_8_L_0				
44 D	19.76	-3.8570E-02	204.5	98.78	204.5	108.4	UL-RL 7686.
98.78	0.000	0.000	Stratol_2_8_L_0				
45 D	20.08	-3.7618E-02	208.9	100.4	208.9	110.7	UL-RL 7686.
100.4	0.000	0.000	Stratol_2_8_L_0				
46 D	20.28	-3.6657E-02	212.1	101.4	212.1	112.4	UL-RL 7686.
101.4	0.000	0.000	Stratol_2_8_L_0				
47 D	20.56	-3.5686E-02	216.5	102.8	216.5	114.7	UL-RL 7686.
102.8	0.000	0.000	Stratol_2_8_L_0				
48 D	20.75	-3.4708E-02	219.8	103.7	219.8	116.5	UL-RL 7686.
103.7	0.000	0.000	Stratol_2_8_L_0				
49 D	20.99	-3.3720E-02	224.2	105.0	224.2	118.8	UL-RL 7686.
105.0	0.000	0.000	Stratol_2_8_L_0				
50 D	21.15	-3.2724E-02	227.5	105.7	227.5	120.6	UL-RL 7686.
105.7	0.000	0.000	Stratol_2_8_L_0				

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 645 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      18:00:09
|
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
 CURRENT TIME IS 6.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
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	not available									
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
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	not available									
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
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	not available									
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available									
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
0.000	0.000	0.000	not available									
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available									
24	0.000	--	--	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
0.000	0.000	0.000	not available									
25	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available									
26	0.000	--	--	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
0.000	0.000	0.000	not available									
27	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available									
28	0.000	--	--	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000
0.000	0.000	0.000	not available									
29	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000
0.000	0.000	0.000	not available									
30	0.000	--	--	--	--	--	REMOVED	--	-5.800	0.000	1.000	1.000
0.000	0.000	0.000	not available									
31	0.000	--	--	--	--	--	REMOVED	--	-6.000	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 646 di 1221
0.000	0.000	0.000	not available		
32	0.000	--	--	--	--
0.000	0.000	0.000	not available		
33	0.000	--	--	--	--
0.000	0.000	0.000	not available		
34	0.000	--	--	--	--
0.000	0.000	0.000	not available		
35	0.000	--	--	--	--
0.000	0.000	0.000	not available		
36	0.000	--	--	--	--
0.000	0.000	0.000	not available		
37	0.000	--	--	--	--
0.000	0.000	0.000	not available		
38	0.000	--	--	--	--
0.000	0.000	0.000	not available		
39	0.000	--	--	--	--
0.000	0.000	0.000	not available		
40	0.000	--	--	--	--
0.000	0.000	0.000	not available		
41	0.000	--	--	--	--
0.000	0.000	0.000	not available		
42	0.000	--	--	--	--
0.000	0.000	0.000	not available		
43	0.000	--	--	--	--
0.000	0.000	0.000	not available		
44	0.000	--	--	--	--
0.000	0.000	0.000	not available		
45	0.000	--	--	--	--
0.000	0.000	0.000	not available		
46	0.000	--	--	--	--
0.000	0.000	0.000	not available		
47	0.000	--	--	--	--
0.000	0.000	0.000	not available		
48	0.000	--	--	--	--
0.000	0.000	0.000	not available		
49 D	0.1425	3.3720E-02	1.900 0.7125	182.4	105.7
0.7125	0.000	0.000	Strato1_2_8_L_0		
50 D	0.4275	3.2724E-02	5.700 2.137	186.2	107.0
2.137	0.000	0.000	Strato1_2_8_L_0		
51 D	2.210	3.1721E-02	9.500 11.05	190.0	108.3
11.05	0.000	0.000	Strato1_2_8_L_0		
52 D	4.627	3.0710E-02	13.30 23.14	193.8	109.6
23.14	0.000	0.000	Strato1_2_8_L_0		
53 D	7.053	2.9692E-02	17.10 35.26	197.6	111.1
35.26	0.000	0.000	Strato1_2_8_L_0		
54 D	9.485	2.8669E-02	20.90 47.42	201.4	112.5
47.42	0.000	0.000	Strato1_2_8_L_0		
55 D	11.92	2.7641E-02	24.70 59.62	205.2	114.1
59.62	0.000	0.000	Strato1_2_8_L_0		
56 D	14.37	2.6609E-02	28.50 71.83	209.0	115.6
71.83	0.000	0.000	Strato1_2_8_L_0		
57 D	16.81	2.5576E-02	32.30 84.06	212.8	117.3
84.06	0.000	0.000	Strato1_2_8_L_0		
58 D	19.26	2.4541E-02	36.10 96.31	216.6	118.9
96.31	0.000	0.000	Strato1_2_8_L_0		
59 D	21.71	2.3507E-02	39.90 108.6	220.4	121.2
108.6	0.000	0.000	Strato1_2_8_L_0		
60 D	24.16	2.2475E-02	43.70 120.8	224.2	132.8
120.8	0.000	0.000	Strato1_2_8_L_0		
61 D	26.62	2.1447E-02	47.50 133.1	228.0	144.3
133.1	0.000	0.000	Strato1_2_8_L_0		
62 D	29.07	2.0423E-02	51.30 145.3	231.8	155.8
145.3	0.000	0.000	Strato1_2_8_L_0		
63 D	31.52	1.9406E-02	55.10 157.6	235.6	167.4
157.6	0.000	0.000	Strato1_2_8_L_0		
64 D	33.06	1.8396E-02	58.90 165.3	239.4	174.4
165.3	0.000	0.000	Strato1_2_8_L_0		
65 D	33.07	1.7394E-02	62.70 165.4	243.2	173.8
165.4	0.000	0.000	Strato1_2_8_L_0		
66 D	33.09	1.6403E-02	66.50 165.5	247.0	173.2
165.5	0.000	0.000	Strato1_2_8_L_0		
67 D	35.86	1.5423E-02	70.40 179.3	250.9	195.3
179.3	0.000	0.000	Strato2_3095_82743_L_0		
68 D	35.45	1.4454E-02	74.40 177.3	254.9	191.8
177.3	0.000	0.000	Strato2_3095_82743_L_0		
69 D	35.05	1.3499E-02	78.40 175.3	258.9	188.4
175.3	0.000	0.000	Strato2_3095_82743_L_0		
70 D	34.66	1.2557E-02	82.40 173.3	262.9	185.1
173.3	0.000	0.000	Strato2_3095_82743_L_0		
71 D	34.28	1.1628E-02	86.40 171.4	266.9	181.8
171.4	0.000	0.000	Strato2_3095_82743_L_0		
72 D	33.91	1.0714E-02	90.40 169.6	270.9	178.7
169.6	0.000	0.000	Strato2_3095_82743_L_0		
73 D	33.55	9.8140E-03	94.40 167.8	274.9	175.7
167.8	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 647 di 1221	
74 D 33.20 8.9285E-03 98.40 166.0 278.9 172.8	UL-RL	1.5512E+04	-14.60	0.000	1.000	1.000
166.0 0.000 0.000 Strato2_3095_82743_L_0						
75 D 32.86 8.0571E-03 102.4 164.3 282.9 170.0	UL-RL	1.5512E+04	-14.80	0.000	1.000	1.000
164.3 0.000 0.000 Strato2_3095_82743_L_0						
76 D 32.53 7.1997E-03 106.4 162.7 286.9 167.3	UL-RL	1.5512E+04	-15.00	0.000	1.000	1.000
162.7 0.000 0.000 Strato2_3095_82743_L_0						
77 D 32.21 6.3558E-03 110.4 161.1 290.9 164.7	UL-RL	1.5512E+04	-15.20	0.000	1.000	1.000
161.1 0.000 0.000 Strato2_3095_82743_L_0						
78 D 31.90 5.5247E-03 114.4 159.5 294.9 162.2	UL-RL	1.5512E+04	-15.40	0.000	1.000	1.000
159.5 0.000 0.000 Strato2_3095_82743_L_0						
79 D 31.60 4.7059E-03 118.4 158.0 298.9 159.7	UL-RL	1.5512E+04	-15.60	0.000	1.000	1.000
158.0 0.000 0.000 Strato2_3095_82743_L_0						
80 D 31.30 3.8984E-03 122.4 156.5 302.9 157.3	UL-RL	1.5512E+04	-15.80	0.000	1.000	1.000
156.5 0.000 0.000 Strato2_3095_82743_L_0						
81 D 30.06 3.1013E-03 126.4 150.3 306.9 157.4	UL-RL	1.5512E+04	-16.00	0.000	1.000	1.000
150.3 0.000 0.000 Strato2_3095_82743_L_0						
82 D 28.12 2.3134E-03 130.4 140.6 310.9 159.3	UL-RL	1.5512E+04	-16.20	0.000	1.000	1.000
140.6 0.000 0.000 Strato2_3095_82743_L_0						
83 D 26.20 1.5336E-03 134.4 131.0 314.9 161.2	UL-RL	1.5512E+04	-16.40	0.000	1.000	1.000
131.0 0.000 0.000 Strato2_3095_82743_L_0						
84 D 24.30 7.6042E-04 138.4 121.5 318.9 163.1	UL-RL	1.5512E+04	-16.60	0.000	1.000	1.000
121.5 0.000 0.000 Strato2_3095_82743_L_0						
85 D 22.42 -7.2918E-06 142.4 112.1 322.9 165.0	UL-RL	1.5512E+04	-16.80	0.000	1.000	1.000
112.1 0.000 0.000 Strato2_3095_82743_L_0						
86 D 20.54 -7.7075E-04 146.4 102.7 326.9 167.0	UL-RL	1.5512E+04	-17.00	0.000	1.000	1.000
102.7 0.000 0.000 Strato2_3095_82743_L_0						
87 D 18.68 -1.5311E-03 150.4 93.40 330.9 168.9	UL-RL	1.5512E+04	-17.20	0.000	1.000	1.000
93.40 0.000 0.000 Strato2_3095_82743_L_0						
88 D 16.82 -2.2895E-03 154.4 84.10 334.9 170.8	UL-RL	1.5512E+04	-17.40	0.000	1.000	1.000
84.10 0.000 0.000 Strato2_3095_82743_L_0						
89 D 14.96 -3.0466E-03 158.4 74.82 338.9 172.7	UL-RL	1.5512E+04	-17.60	0.000	1.000	1.000
74.82 0.000 0.000 Strato2_3095_82743_L_0						
90 D 13.11 -3.8031E-03 162.4 65.54 342.9 174.6	UL-RL	1.5512E+04	-17.80	0.000	1.000	1.000
65.54 0.000 0.000 Strato2_3095_82743_L_0						
91 D 5.626 -4.5594E-03 166.4 56.26 346.9 176.6	UL-RL	1.5512E+04	-18.00	0.000	1.000	1.000
56.26 0.000 0.000 Strato2_3095_82743_L_0						

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019      18:00:09                             |
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New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 6.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.48750	-0.48750	8.36892E-11	9.75000E-02
2	1.4192	-1.4192	-9.75000E-02	0.38134
3	3.9178	-3.9178	-0.38134	1.1649
4	6.5423	-6.5423	-1.1649	2.4734
5	10.093	-10.093	-2.4734	4.4919
6	13.757	-13.757	-4.4919	7.2434
7	18.108	-18.108	-7.2434	10.865
8	22.591	-22.591	-10.865	15.383
9	27.599	-27.599	-15.383	20.903
10	32.924	-32.924	-20.903	27.488
11	38.922	-38.922	-27.488	35.272
12	45.251	-45.251	-35.272	44.322
13	52.209	-52.209	-44.322	54.764
14	59.509	-59.509	-54.764	66.666
15	67.409	-67.409	-66.666	80.148
16	-229.39	229.39	-80.148	34.270
17	-220.59	220.59	-34.270	-9.8481
18	-211.44	211.44	9.8481	-52.135
19	-201.72	201.72	52.135	-92.479
20	-191.63	191.63	92.479	-130.81
21	-181.00	181.00	130.81	-167.01
22	-170.00	170.00	167.01	-201.01
23	-158.46	158.46	201.01	-232.70
24	-146.57	146.57	232.70	-262.01
25	-134.16	134.16	262.01	-288.84
26	-121.37	121.37	288.84	-313.12

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 648 di 1221
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27	-108.08	108.08	313.12	-334.73
28	-94.403	94.403	334.73	-353.61
29	-80.231	80.231	353.61	-369.66
30	-65.689	65.689	369.66	-382.80
31	-50.679	50.679	382.80	-392.93
32	-35.304	35.304	392.93	-400.00
33	-19.457	19.457	400.00	-403.89
34	-3.2539	3.2539	403.89	-404.54
35	13.405	-13.405	404.54	-401.86
36	30.406	-30.406	401.86	-395.77
37	47.845	-47.845	395.77	-386.21
38	65.610	-65.610	386.21	-373.08
39	83.775	-83.775	373.08	-356.33
40	102.25	-102.25	356.33	-335.88
41	121.11	-121.11	335.88	-311.66
42	140.25	-140.25	311.66	-283.61
43	159.75	-159.75	283.61	-251.66
44	179.51	-179.51	251.66	-215.76
45	199.58	-199.58	215.76	-175.84
46	-21.615	21.615	175.84	-180.16
47	-1.0498	1.0498	180.16	-180.37
48	19.699	-19.699	180.37	-176.43
49	40.549	-40.549	176.43	-168.32
50	61.269	-61.269	168.32	-156.07
51	80.422	-80.422	156.07	-139.98
52	97.289	-97.289	139.98	-120.53
53	111.93	-111.93	120.53	-98.141
54	124.23	-124.23	98.141	-73.294
55	134.28	-134.28	73.294	-46.437
56	142.00	-142.00	46.437	-18.038
57	147.43	-147.43	18.038	11.447
58	150.51	-150.51	-11.447	41.549
59	151.30	-151.30	-41.549	71.810
60	149.74	-149.74	-71.810	101.76
61	145.88	-145.88	-101.76	130.93
62	139.66	-139.66	-130.93	158.87
63	131.15	-131.15	-158.87	185.10
64	121.21	-121.21	-185.10	209.34
65	111.41	-111.41	-209.34	231.62
66	101.71	-101.71	-231.62	251.96
67	84.311	-84.311	-251.96	268.83
68	67.149	-67.149	-268.83	282.26
69	50.261	-50.261	-282.26	292.31
70	33.611	-33.611	-292.31	299.03
71	17.241	-17.241	-299.03	302.48
72	1.1135	-1.1135	-302.48	302.70
73	-14.731	14.731	-302.70	299.76
74	-30.320	30.320	-299.76	293.69
75	-45.606	45.606	-293.69	284.57
76	-60.635	60.635	-284.57	272.44
77	-75.360	75.360	-272.44	257.37
78	-89.820	89.820	-257.37	239.41
79	-103.98	103.98	-239.41	218.61
80	-117.87	117.87	-218.61	195.04
81	-129.70	129.70	-195.04	169.10
82	-135.83	135.83	-169.10	141.93
83	-136.39	136.39	-141.93	114.66
84	-131.36	131.36	-114.66	88.382
85	-120.85	120.85	-88.382	64.212
86	-106.36	106.36	-64.212	42.940
87	-88.592	88.592	-42.940	25.222
88	-67.500	67.500	-25.222	11.722
89	-43.143	43.143	-11.722	3.0933
90	-15.466	15.466	-3.0933	3.22492E-11

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019  18:00:09                               |
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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

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 649 di 1221
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EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit		
ANCHOR	1	315.77	-1.30818E-03	4.29635E-02	0.0000	3950.0	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:00:09  |
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New Project

STRESS RESULTS FOR GROUP NO. 5

Tirante2_1507 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 CURRENT TIME IS 6.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit		
ANCHOR	1	250.00	-2.75144E-03	-2.75144E-03	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

```

ITER 0 RNORM = 0.000  RMNORM= 0.000
RINORM=0.2236E+07 RIMNOR=0.8659E+07
RENORM= 9998.  REMNOR=0.6784E-17 RATIO =0.6687E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 305.0  RMMAX = 404.5
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.2236E+07 RDR =0.8659E+07
RATIOT=0.6687E-01 RATIO= 0.000
MAX UN= 33.09  IEQ= 131 NODE 66 DOF 1 Y-DISPL.F
MIN UN=-.1458E-07 IEQ= 23 NODE 12 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
  
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ITER 2 RNORM = 0.000  RMNORM= 0.000
RINORM=0.2236E+07 RIMNOR=0.8659E+07
RENORM= 2128.  REMNOR=0.1444E-16 RATIO =0.3085E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 305.0  RMMAX = 404.5
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.2236E+07 RDR =0.8659E+07
RATIOT=0.3085E-01 RATIO= 0.000
MAX UN= 22.46  IEQ= 141 NODE 71 DOF 1 Y-DISPL.F
MIN UN=-.1898E-07 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
  
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ITER 3 RNORM = 0.000  RMNORM= 0.000
RINORM=0.2236E+07 RIMNOR=0.8659E+07
RENORM= 222.3  REMNOR=0.1033E-16 RATIO =0.9972E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 305.0  RMMAX = 404.5
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.2236E+07 RDR =0.8659E+07
RATIOT=0.9972E-02 RATIO= 0.000
MAX UN= 7.303  IEQ= 161 NODE 81 DOF 1 Y-DISPL.F
MIN UN=-.3145E-01 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
  
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ITER 4 RNORM = 0.000  RMNORM= 0.000
RINORM=0.2236E+07 RIMNOR=0.8659E+07
RENORM= 16.29  REMNOR=0.1416E-16 RATIO =0.2699E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 305.0  RMMAX = 404.5
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.2236E+07 RDR =0.8659E+07
RATIOT=0.2699E-02 RATIO= 0.000
MAX UN= 2.112  IEQ= 167 NODE 84 DOF 1 Y-DISPL.F
MIN UN=-.1525  IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
  
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ITER 5 RNORM = 0.000  RMNORM= 0.000
RINORM=0.2236E+07 RIMNOR=0.8659E+07
RENORM=0.1804  REMNOR=0.1309E-16 RATIO =0.2841E-03 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 305.0  RMMAX = 404.5
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT =0.2236E+07 RDR =0.8659E+07
RATIOT=0.2841E-03 RATIO= 0.000
MAX UN=0.3422  IEQ= 29 NODE 15 DOF 1 Y-DISPL.F
MIN UN=-.1657  IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
  
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
650 di 1221

NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      6  RNORM = 0.000      RMNORM= 0.000
RINORM=0.2236E+07 RIMNOR=0.8659E+07
RENORM=0.2609E-14 REMNOR=0.1187E-16 RATIO =0.3416E-10 TOLER =0.1000E-03      CONVERGED !
RFMAX = 305.0      RMMAX = 404.5
RTSMAL=0.1000E-02 RMSMAL=0.1000E-02
RDT      =0.2236E+07 RDR      =0.8659E+07
RATIOT=0.3416E-10 RATIO= 0.000
MAX UN=0.1682E-07 IEQ=      23 NODE      12 DOF      1 Y-DISPL.F
MIN UN=-.1554E-07 IEQ=      67 NODE      34 DOF      1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      18:00:09
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New Project
SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 7 (AT TIME 7.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	6.5655118E-02	-1.9511226E-03	
2	6.5264897E-02	-1.9510772E-03	
3	6.4874699E-02	-1.9508552E-03	
4	6.4484580E-02	-1.9502513E-03	
5	6.4094640E-02	-1.9490317E-03	
6	6.3705025E-02	-1.9469526E-03	
7	6.3315933E-02	-1.9437605E-03	
8	6.2927612E-02	-1.9391981E-03	
9	6.2540362E-02	-1.9330037E-03	
10	6.2154537E-02	-1.9249153E-03	
11	6.1770540E-02	-1.9146658E-03	
12	6.1388833E-02	-1.9019802E-03	
13	6.1009930E-02	-1.8865748E-03	
14	6.0634404E-02	-1.8681579E-03	
15	6.0262887E-02	-1.8464259E-03	
16	5.9896075E-02	-1.8210601E-03	
17	5.9534239E-02	-1.7990637E-03	
18	5.9175759E-02	-1.7874259E-03	
19	5.8818602E-02	-1.7857855E-03	
20	5.8460804E-02	-1.7937669E-03	
21	5.8100480E-02	-1.8109799E-03	
22	5.7735823E-02	-1.8370201E-03	
23	5.7365111E-02	-1.8714687E-03	
24	5.6986706E-02	-1.9138926E-03	
25	5.6599054E-02	-1.9638456E-03	
26	5.6200697E-02	-2.0208674E-03	
27	5.5790267E-02	-2.0844838E-03	
28	5.5366496E-02	-2.1542067E-03	
29	5.4928213E-02	-2.2295331E-03	
30	5.4474346E-02	-2.3099478E-03	
31	5.4003930E-02	-2.3949200E-03	
32	5.3516110E-02	-2.4839061E-03	
33	5.3010137E-02	-2.5763487E-03	
34	5.2485378E-02	-2.6716769E-03	
35	5.1941316E-02	-2.7693051E-03	
36	5.1377545E-02	-2.8686354E-03	
37	5.0793789E-02	-2.9690545E-03	
38	5.0189893E-02	-3.0699360E-03	
39	4.9565827E-02	-3.1706395E-03	
40	4.8921696E-02	-3.2705106E-03	
41	4.8257726E-02	-3.3688831E-03	
42	4.7574288E-02	-3.4650754E-03	
43	4.6871887E-02	-3.5583926E-03	
44	4.6151170E-02	-3.6481262E-03	
45	4.5412927E-02	-3.7335533E-03	
46	4.4658069E-02	-3.8139407E-03	
47	4.3887262E-02	-3.8953874E-03	
48	4.3099437E-02	-3.9839857E-03	
49	4.2293247E-02	-4.0789583E-03	
50	4.1467486E-02	-4.1795157E-03	
51	4.0621122E-02	-4.2848534E-03	
52	3.9753276E-02	-4.3941539E-03	
53	3.8863247E-02	-4.5065845E-03	
54	3.7950490E-02	-4.6213006E-03	
55	3.7014632E-02	-4.7374434E-03	

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 652 di 1221							
12 D	5.978	-6.1389E-02	77.80	29.89	77.80	47.50	UL-RL	7686.	-2.200	0.000	1.000	1.000
29.89	0.000	0.000	Stratol_2_8_L_0									
13 D	6.306	-6.1010E-02	84.08	31.53	84.08	50.18	ACTIVE	0.000	-2.400	0.000	1.000	1.000
31.53	0.000	0.000	Stratol_2_8_L_0									
14 D	6.488	-6.0634E-02	86.51	32.44	86.51	51.02	ACTIVE	0.000	-2.600	0.000	1.000	1.000
32.44	0.000	0.000	Stratol_2_8_L_0									
15 D	6.929	-6.0263E-02	92.39	34.65	92.39	53.48	ACTIVE	0.000	-2.800	0.000	1.000	1.000
34.65	0.000	0.000	Stratol_2_8_L_0									
16 D	7.085	-5.9896E-02	94.47	35.43	94.47	54.11	ACTIVE	0.000	-3.000	0.000	1.000	1.000
35.43	0.000	0.000	Stratol_2_8_L_0									
17 D	7.507	-5.9534E-02	100.1	37.53	100.1	56.41	ACTIVE	0.000	-3.200	0.000	1.000	1.000
37.53	0.000	0.000	Stratol_2_8_L_0									
18 D	7.709	-5.9176E-02	102.8	38.54	102.8	57.29	ACTIVE	0.000	-3.400	0.000	1.000	1.000
38.54	0.000	0.000	Stratol_2_8_L_0									
19 D	8.113	-5.8819E-02	108.2	40.57	108.2	59.45	ACTIVE	0.000	-3.600	0.000	1.000	1.000
40.57	0.000	0.000	Stratol_2_8_L_0									
20 D	8.322	-5.8461E-02	111.0	41.61	111.0	60.35	ACTIVE	0.000	-3.800	0.000	1.000	1.000
41.61	0.000	0.000	Stratol_2_8_L_0									
21 D	8.713	-5.8100E-02	116.2	43.57	116.2	62.40	ACTIVE	0.000	-4.000	0.000	1.000	1.000
43.57	0.000	0.000	Stratol_2_8_L_0									
22 D	8.927	-5.7736E-02	119.0	44.64	119.0	63.33	ACTIVE	0.000	-4.200	0.000	1.000	1.000
44.64	0.000	0.000	Stratol_2_8_L_0									
23 D	9.308	-5.7365E-02	124.1	46.54	124.1	65.78	ACTIVE	0.000	-4.400	0.000	1.000	1.000
46.54	0.000	0.000	Stratol_2_8_L_0									
24 D	9.503	-5.6987E-02	126.7	47.52	126.7	67.16	ACTIVE	0.000	-4.600	0.000	1.000	1.000
47.52	0.000	0.000	Stratol_2_8_L_0									
25 D	9.876	-5.6599E-02	131.7	49.38	131.7	69.79	ACTIVE	0.000	-4.800	0.000	1.000	1.000
49.38	0.000	0.000	Stratol_2_8_L_0									
26 D	10.10	-5.6201E-02	134.7	50.50	134.7	71.38	ACTIVE	0.000	-5.000	0.000	1.000	1.000
50.50	0.000	0.000	Stratol_2_8_L_0									
27 D	10.47	-5.5790E-02	139.5	52.33	139.5	73.96	ACTIVE	0.000	-5.200	0.000	1.000	1.000
52.33	0.000	0.000	Stratol_2_8_L_0									
28 D	10.69	-5.5366E-02	142.6	53.47	142.6	75.57	ACTIVE	0.000	-5.400	0.000	1.000	1.000
53.47	0.000	0.000	Stratol_2_8_L_0									
29 D	11.05	-5.4928E-02	147.4	55.26	147.4	78.10	ACTIVE	0.000	-5.600	0.000	1.000	1.000
55.26	0.000	0.000	Stratol_2_8_L_0									
30 D	11.28	-5.4474E-02	150.4	56.42	150.4	79.74	ACTIVE	0.000	-5.800	0.000	1.000	1.000
56.42	0.000	0.000	Stratol_2_8_L_0									
31 D	11.62	-5.4004E-02	154.9	58.09	154.9	82.11	ACTIVE	0.000	-6.000	0.000	1.000	1.000
58.09	0.000	0.000	Stratol_2_8_L_0									
32 D	11.85	-5.3516E-02	158.0	59.27	158.0	83.76	ACTIVE	0.000	-6.200	0.000	1.000	1.000
59.27	0.000	0.000	Stratol_2_8_L_0									
33 D	12.20	-5.3010E-02	162.7	61.01	162.7	86.23	ACTIVE	0.000	-6.400	0.000	1.000	1.000
61.01	0.000	0.000	Stratol_2_8_L_0									
34 D	12.44	-5.2485E-02	165.9	62.20	165.9	87.91	ACTIVE	0.000	-6.600	0.000	1.000	1.000
62.20	0.000	0.000	Stratol_2_8_L_0									
35 D	12.79	-5.1941E-02	170.5	63.93	170.5	90.35	ACTIVE	0.000	-6.800	0.000	1.000	1.000
63.93	0.000	0.000	Stratol_2_8_L_0									
36 D	13.02	-5.1378E-02	173.7	65.12	173.7	92.04	ACTIVE	0.000	-7.000	0.000	1.000	1.000
65.12	0.000	0.000	Stratol_2_8_L_0									
37 D	13.37	-5.0794E-02	178.2	66.83	178.2	94.46	ACTIVE	0.000	-7.200	0.000	1.000	1.000
66.83	0.000	0.000	Stratol_2_8_L_0									
38 D	13.61	-5.0190E-02	181.4	68.04	181.4	96.16	ACTIVE	0.000	-7.400	0.000	1.000	1.000
68.04	0.000	0.000	Stratol_2_8_L_0									
39 D	13.93	-4.9566E-02	185.8	69.66	185.8	98.45	ACTIVE	0.000	-7.600	0.000	1.000	1.000
69.66	0.000	0.000	Stratol_2_8_L_0									
40 D	14.18	-4.8922E-02	189.0	70.88	189.0	100.2	ACTIVE	0.000	-7.800	0.000	1.000	1.000
70.88	0.000	0.000	Stratol_2_8_L_0									
41 D	14.51	-4.8258E-02	193.5	72.56	193.5	102.5	ACTIVE	0.000	-8.000	0.000	1.000	1.000
72.56	0.000	0.000	Stratol_2_8_L_0									
42 D	14.76	-4.7574E-02	196.8	73.79	196.8	104.3	ACTIVE	0.000	-8.200	0.000	1.000	1.000
73.79	0.000	0.000	Stratol_2_8_L_0									
43 D	15.09	-4.6872E-02	201.2	75.45	201.2	106.6	ACTIVE	0.000	-8.400	0.000	1.000	1.000
75.45	0.000	0.000	Stratol_2_8_L_0									
44 D	15.34	-4.6151E-02	204.5	76.69	204.5	108.4	ACTIVE	0.000	-8.600	0.000	1.000	1.000
76.69	0.000	0.000	Stratol_2_8_L_0									
45 D	15.67	-4.5413E-02	208.9	78.34	208.9	110.7	ACTIVE	0.000	-8.800	0.000	1.000	1.000
78.34	0.000	0.000	Stratol_2_8_L_0									
46 D	15.91	-4.4658E-02	212.1	79.53	212.1	112.4	ACTIVE	0.000	-9.000	0.000	1.000	1.000
79.53	0.000	0.000	Stratol_2_8_L_0									
47 D	16.23	-4.3887E-02	216.5	81.17	216.5	114.7	ACTIVE	0.000	-9.200	0.000	1.000	1.000
81.17	0.000	0.000	Stratol_2_8_L_0									
48 D	16.48	-4.3099E-02	219.8	82.42	219.8	116.5	ACTIVE	0.000	-9.400	0.000	1.000	1.000
82.42	0.000	0.000	Stratol_2_8_L_0									
49 D	16.81	-4.2293E-02	224.2	84.06	224.2	118.8	ACTIVE	0.000	-9.600	0.000	1.000	1.000
84.06	0.000	0.000	Stratol_2_8_L_0									
50 D	17.06	-4.1467E-02	227.5	85.32	227.5	120.6	ACTIVE	0.000	-9.800	0.000	1.000	1.000
85.32	0.000	0.000	Stratol_2_8_L_0									
51 D	17.39	-4.0621E-02	231.8	86.94	231.8	122.9	ACTIVE	0.000	-10.00	0.000	1.000	1.000
86.94	0.000	0.000	Stratol_2_8_L_0									
52 D	17.64	-3.9753E-02	235.2	88.20	235.2	124.7	ACTIVE	0.000	-10.20	0.000	1.000	1.000
88.20	0.000	0.000	Stratol_2_8_L_0									
53 D	17.96	-3.8863E-02	239.5	89.82	239.5	126.9	ACTIVE	0.000	-10.40	0.000	1.000	1.000
89.82	0.000	0.000	Stratol_2_8_L_0									
54 D	18.21	-3.7950E-02	242.8	91.04	242.8	128.7	ACTIVE	0.000	-10.60	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 653 di 1221
91.04	0.000	0.000	Strato1_2_8_L_0				
55 D	18.53	-3.7015E-02	247.1	92.65	247.1	130.9	ACTIVE 0.000 -10.80 0.000 1.000 1.000
92.65	0.000	0.000	Strato1_2_8_L_0				
56 D	18.78	-3.6055E-02	250.5	93.92	250.5	132.7	ACTIVE 0.000 -11.00 0.000 1.000 1.000
93.92	0.000	0.000	Strato1_2_8_L_0				
57 D	19.11	-3.5073E-02	254.7	95.53	254.7	135.0	ACTIVE 0.000 -11.20 0.000 1.000 1.000
95.53	0.000	0.000	Strato1_2_8_L_0				
58 D	19.36	-3.4067E-02	258.2	96.81	258.2	136.8	ACTIVE 0.000 -11.40 0.000 1.000 1.000
96.81	0.000	0.000	Strato1_2_8_L_0				
59 D	19.68	-3.3039E-02	262.4	98.41	262.4	139.1	ACTIVE 0.000 -11.60 0.000 1.000 1.000
98.41	0.000	0.000	Strato1_2_8_L_0				
60 D	19.94	-3.1988E-02	265.8	99.69	265.8	140.9	ACTIVE 0.000 -11.80 0.000 1.000 1.000
99.69	0.000	0.000	Strato1_2_8_L_0				
61 D	20.25	-3.0916E-02	270.0	101.2	270.0	143.1	ACTIVE 0.000 -12.00 0.000 1.000 1.000
101.2	0.000	0.000	Strato1_2_8_L_0				
62 D	20.50	-2.9823E-02	273.4	102.5	273.4	144.9	ACTIVE 0.000 -12.20 0.000 1.000 1.000
102.5	0.000	0.000	Strato1_2_8_L_0				
63 D	20.82	-2.8710E-02	277.6	104.1	277.6	147.1	ACTIVE 0.000 -12.40 0.000 1.000 1.000
104.1	0.000	0.000	Strato1_2_8_L_0				
64 D	21.08	-2.7579E-02	281.1	105.4	281.1	149.0	ACTIVE 0.000 -12.60 0.000 1.000 1.000
105.4	0.000	0.000	Strato1_2_8_L_0				
65 D	21.40	-2.6431E-02	285.3	107.0	285.3	151.2	ACTIVE 0.000 -12.80 0.000 1.000 1.000
107.0	0.000	0.000	Strato1_2_8_L_0				
66 D	21.66	-2.5268E-02	288.7	108.3	288.7	153.0	ACTIVE 0.000 -13.00 0.000 1.000 1.000
108.3	0.000	0.000	Strato1_2_8_L_0				
67 D	14.08	-2.4092E-02	293.0	70.39	293.0	146.5	ACTIVE 0.000 -13.20 0.000 1.000 1.000
70.39	0.000	0.000	Strato2_3095_82743_L_0				
68 D	14.30	-2.2904E-02	296.7	71.49	296.7	148.4	ACTIVE 0.000 -13.40 0.000 1.000 1.000
71.49	0.000	0.000	Strato2_3095_82743_L_0				
69 D	14.55	-2.1708E-02	301.0	72.77	301.0	150.5	ACTIVE 0.000 -13.60 0.000 1.000 1.000
72.77	0.000	0.000	Strato2_3095_82743_L_0				
70 D	14.77	-2.0504E-02	304.7	73.87	304.7	152.3	ACTIVE 0.000 -13.80 0.000 1.000 1.000
73.87	0.000	0.000	Strato2_3095_82743_L_0				
71 D	15.04	-1.9295E-02	309.0	75.19	309.0	154.5	ACTIVE 0.000 -14.00 0.000 1.000 1.000
75.19	0.000	0.000	Strato2_3095_82743_L_0				
72 D	15.26	-1.8083E-02	312.7	76.29	312.7	156.4	ACTIVE 0.000 -14.20 0.000 1.000 1.000
76.29	0.000	0.000	Strato2_3095_82743_L_0				
73 D	15.52	-1.6869E-02	317.1	77.60	317.1	158.5	ACTIVE 0.000 -14.40 0.000 1.000 1.000
77.60	0.000	0.000	Strato2_3095_82743_L_0				
74 D	15.74	-1.5656E-02	320.8	78.71	320.8	160.4	ACTIVE 0.000 -14.60 0.000 1.000 1.000
78.71	0.000	0.000	Strato2_3095_82743_L_0				
75 D	16.00	-1.4444E-02	325.1	80.02	325.1	162.6	ACTIVE 0.000 -14.80 0.000 1.000 1.000
80.02	0.000	0.000	Strato2_3095_82743_L_0				
76 D	16.22	-1.3235E-02	328.7	81.10	328.7	164.4	ACTIVE 0.000 -15.00 0.000 1.000 1.000
81.10	0.000	0.000	Strato2_3095_82743_L_0				
77 D	16.48	-1.2030E-02	333.1	82.40	333.1	166.5	ACTIVE 0.000 -15.20 0.000 1.000 1.000
82.40	0.000	0.000	Strato2_3095_82743_L_0				
78 D	16.70	-1.0830E-02	336.8	83.51	336.8	168.4	ACTIVE 0.000 -15.40 0.000 1.000 1.000
83.51	0.000	0.000	Strato2_3095_82743_L_0				
79 D	16.96	-9.6348E-03	341.1	84.82	341.1	170.6	ACTIVE 0.000 -15.60 0.000 1.000 1.000
84.82	0.000	0.000	Strato2_3095_82743_L_0				
80 D	17.19	-8.4450E-03	344.9	85.93	344.9	172.4	ACTIVE 0.000 -15.80 0.000 1.000 1.000
85.93	0.000	0.000	Strato2_3095_82743_L_0				
81 D	17.45	-7.2609E-03	349.2	87.23	349.2	174.6	ACTIVE 0.000 -16.00 0.000 1.000 1.000
87.23	0.000	0.000	Strato2_3095_82743_L_0				
82 D	17.71	-6.0823E-03	353.5	88.53	353.5	176.8	ACTIVE 0.000 -16.20 0.000 1.000 1.000
88.53	0.000	0.000	Strato2_3095_82743_L_0				
83 D	17.93	-4.9089E-03	357.2	89.64	357.2	178.6	ACTIVE 0.000 -16.40 0.000 1.000 1.000
89.64	0.000	0.000	Strato2_3095_82743_L_0				
84 D	18.18	-3.7404E-03	361.5	90.91	361.5	180.7	ACTIVE 0.000 -16.60 0.000 1.000 1.000
90.91	0.000	0.000	Strato2_3095_82743_L_0				
85 D	21.91	-2.5761E-03	365.2	109.5	365.2	182.6	UL-RL 2.1331E+04 -16.80 0.000 1.000 1.000
109.5	0.000	0.000	Strato2_3095_82743_L_0				
86 D	25.71	-1.4154E-03	369.5	128.5	369.5	188.6	UL-RL 2.1331E+04 -17.00 0.000 1.000 1.000
128.5	0.000	0.000	Strato2_3095_82743_L_0				
87 D	28.82	-2.5752E-04	373.2	144.1	373.2	195.8	UL-RL 2.1331E+04 -17.20 0.000 1.000 1.000
144.1	0.000	0.000	Strato2_3095_82743_L_0				
88 D	31.98	8.9843E-04	377.5	159.9	377.5	203.4	UL-RL 2.1331E+04 -17.40 0.000 1.000 1.000
159.9	0.000	0.000	Strato2_3095_82743_L_0				
89 D	35.08	2.0531E-03	381.3	175.4	381.3	210.6	UL-RL 2.1331E+04 -17.60 0.000 1.000 1.000
175.4	0.000	0.000	Strato2_3095_82743_L_0				
90 D	38.24	3.2072E-03	385.6	191.2	385.6	218.1	UL-RL 2.1331E+04 -17.80 0.000 1.000 1.000
191.2	0.000	0.000	Strato2_3095_82743_L_0				
91 D	20.67	4.3611E-03	389.2	206.7	389.2	225.3	UL-RL 2.1331E+04 -18.00 0.000 1.000 1.000
206.7	0.000	0.000	Strato2_3095_82743_L_0				



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 654 di 1221
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 91
CURRENT TIME IS 7.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.2000	0.000	1.000	1.000
2	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.6000	0.000	1.000	1.000
3	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.000	0.000	1.000	1.000
4	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.400	0.000	1.000	1.000
5	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.800	0.000	1.000	1.000
6	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.200	0.000	1.000	1.000
7	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.600	0.000	1.000	1.000
8	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.000	0.000	1.000	1.000
9	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.400	0.000	1.000	1.000
10	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.800	0.000	1.000	1.000
11	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
12	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
13	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
14	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000
15	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.800	0.000	1.000	1.000
16	0.000	--	--	--	--	--	REMOVED	--	-6.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-6.200	0.000	1.000	1.000
17	0.000	--	--	--	--	--	REMOVED	--	-6.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-6.600	0.000	1.000	1.000
18	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
19	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
20	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
21	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
22	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
23	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
24	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
25	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
26	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
27	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
28	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
29	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
30	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
31	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
32	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
33	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
34	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 655 di 1221
35	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
36	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
37	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
38	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
39	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
40	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
41	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
42	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
43	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
44	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
45	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
46	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
47	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
48	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
49	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
50	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
51	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
52	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
53	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
54	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
55	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
56	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
57	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
58	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
59	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
60	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
61	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
62	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
63	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
64	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
65	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
66	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
67 D	14.60	2.4092E-02	2.000 73.01 250.9	195.3	PASSIVE 0.000
73.01	0.000	0.000	Strato2_3095_82743_L_0		-13.20 0.000
68 D	17.88	2.2904E-02	6.000 89.42 254.9	191.8	PASSIVE 0.000
89.42	0.000	0.000	Strato2_3095_82743_L_0		-13.40 0.000
69 D	21.17	2.1708E-02	10.00 105.8 258.9	188.4	PASSIVE 0.000
105.8	0.000	0.000	Strato2_3095_82743_L_0		-13.60 0.000
70 D	24.45	2.0504E-02	14.00 122.2 262.9	185.1	PASSIVE 0.000
122.2	0.000	0.000	Strato2_3095_82743_L_0		-13.80 0.000
71 D	27.73	1.9295E-02	18.00 138.6 266.9	181.8	PASSIVE 0.000
138.6	0.000	0.000	Strato2_3095_82743_L_0		-14.00 0.000
72 D	31.01	1.8083E-02	22.00 155.1 270.9	178.7	PASSIVE 0.000
155.1	0.000	0.000	Strato2_3095_82743_L_0		-14.20 0.000
73 D	34.29	1.6869E-02	26.00 171.5 274.9	175.7	PASSIVE 0.000
171.5	0.000	0.000	Strato2_3095_82743_L_0		-14.40 0.000
74 D	37.57	1.5656E-02	30.00 187.9 278.9	187.9	PASSIVE 0.000
187.9	0.000	0.000	Strato2_3095_82743_L_0		-14.60 0.000
75 D	40.86	1.4444E-02	34.00 204.3 282.9	204.3	PASSIVE 0.000
204.3	0.000	0.000	Strato2_3095_82743_L_0		-14.80 0.000
76 D	41.64	1.3235E-02	38.00 208.2 286.9	208.2	V-C 8969.
208.2	0.000	0.000	Strato2_3095_82743_L_0		-15.00 0.000
77 D	40.59	1.2030E-02	42.00 202.9 290.9	202.9	V-C 8969.
					-15.20 0.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 656 di 1221
202.9	0.000	0.000	Strato2_3095_82743_L_0		
78 D	39.53	1.0830E-02	46.00 197.7	294.9	197.7
197.7	0.000	0.000	Strato2_3095_82743_L_0		
79 D	38.47	9.6348E-03	50.00 192.4	298.9	192.4
192.4	0.000	0.000	Strato2_3095_82743_L_0		
80 D	37.41	8.4450E-03	54.00 187.1	302.9	187.1
187.1	0.000	0.000	Strato2_3095_82743_L_0		
81 D	36.35	7.2609E-03	58.00 181.8	306.9	181.8
181.8	0.000	0.000	Strato2_3095_82743_L_0		
82 D	35.29	6.0823E-03	62.00 176.5	310.9	176.5
176.5	0.000	0.000	Strato2_3095_82743_L_0		
83 D	34.23	4.9089E-03	66.00 171.2	314.9	171.2
171.2	0.000	0.000	Strato2_3095_82743_L_0		
84 D	33.17	3.7404E-03	70.00 165.9	318.9	165.9
165.9	0.000	0.000	Strato2_3095_82743_L_0		
85 D	30.33	2.5761E-03	74.00 151.7	322.9	165.0
151.7	0.000	0.000	Strato2_3095_82743_L_0		
86 D	26.40	1.4154E-03	78.00 132.0	326.9	167.0
132.0	0.000	0.000	Strato2_3095_82743_L_0		
87 D	22.47	2.5752E-04	82.00 112.3	330.9	168.9
112.3	0.000	0.000	Strato2_3095_82743_L_0		
88 D	18.54	-8.9843E-04	86.00 92.69	334.9	170.8
92.69	0.000	0.000	Strato2_3095_82743_L_0		
89 D	14.61	-2.0531E-03	90.00 73.03	338.9	172.7
73.03	0.000	0.000	Strato2_3095_82743_L_0		
90 D	10.67	-3.2072E-03	94.00 53.35	342.9	174.6
53.35	0.000	0.000	Strato2_3095_82743_L_0		
91 D	3.365	-4.3611E-03	98.00 33.65	346.9	176.6
33.65	0.000	0.000	Strato2_3095_82743_L_0		

```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A2M2R1_3514                                                                                       |
|          Exe Time :29 July 2019          18:00:09                                                                                           |
+-----+

```

New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 90
CURRENT TIME IS 7.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.9114	-1.9114	-3.29832E-10	0.38228
2	5.5307	-5.5307	-0.38228	1.4884
3	10.553	-10.553	-1.4884	3.5989
4	15.383	-15.383	-3.5989	6.6756
5	20.823	-20.823	-6.6756	10.840
6	26.058	-26.058	-10.840	16.052
7	31.663	-31.663	-16.052	22.384
8	37.080	-37.080	-22.384	29.800
9	42.703	-42.703	-29.800	38.341
10	48.323	-48.323	-38.341	48.006
11	54.294	-54.294	-48.006	58.864
12	60.272	-60.272	-58.864	70.919
13	66.578	-66.578	-70.919	84.234
14	73.066	-73.066	-84.234	98.848
15	79.995	-79.995	-98.848	114.85
16	-221.92	221.92	-114.85	70.463
17	-214.41	214.41	-70.463	27.580
18	-206.70	206.70	-27.580	-13.761
19	-198.59	198.59	13.761	-53.479
20	-190.27	190.27	53.479	-91.532
21	-181.56	181.56	91.532	-127.84
22	-172.63	172.63	127.84	-162.37
23	-163.32	163.32	162.37	-195.03
24	-153.82	153.82	195.03	-225.80
25	-143.94	143.94	225.80	-254.58
26	-133.84	133.84	254.58	-281.35
27	-123.38	123.38	281.35	-306.03
28	-112.68	112.68	306.03	-328.56
29	-101.63	101.63	328.56	-348.89
30	-90.346	90.346	348.89	-366.96
31	-78.727	78.727	366.96	-382.70
32	-66.874	66.874	382.70	-396.08
33	-54.671	54.671	396.08	-407.01

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
657 di 1221

34	-42.231	42.231	407.01	-415.46
35	-29.446	29.446	415.46	-421.35
36	-16.421	16.421	421.35	-424.63
37	-3.0543	3.0543	424.63	-425.24
38	10.554	-10.554	425.24	-423.13
39	24.486	-24.486	423.13	-418.24
40	38.662	-38.662	418.24	-410.50
41	53.174	-53.174	410.50	-399.87
42	67.931	-67.931	399.87	-386.28
43	83.022	-83.022	386.28	-369.68
44	98.360	-98.360	369.68	-350.01
45	114.03	-114.03	350.01	-327.20
46	-158.74	158.74	327.20	-358.95
47	-142.50	142.50	358.95	-387.45
48	-126.02	126.02	387.45	-412.65
49	-109.21	109.21	412.65	-434.49
50	-92.145	92.145	434.49	-452.92
51	-74.757	74.757	452.92	-467.88
52	-57.116	57.116	467.88	-479.30
53	-39.152	39.152	479.30	-487.13
54	-20.944	20.944	487.13	-491.32
55	-2.4141	2.4141	491.32	-491.80
56	16.371	-16.371	491.80	-488.53
57	35.476	-35.476	488.53	-481.43
58	54.838	-54.838	481.43	-470.46
59	74.519	-74.519	470.46	-455.56
60	94.457	-94.457	455.56	-436.67
61	114.70	-114.70	436.67	-413.73
62	135.21	-135.21	413.73	-386.69
63	156.03	-156.03	386.69	-355.48
64	177.11	-177.11	355.48	-320.06
65	198.51	-198.51	320.06	-280.36
66	220.16	-220.16	280.36	-236.32
67	219.64	-219.64	236.32	-192.40
68	216.05	-216.05	192.40	-149.19
69	209.44	-209.44	149.19	-107.30
70	199.76	-199.76	107.30	-67.347
71	187.07	-187.07	67.347	-29.932
72	171.32	-171.32	29.932	4.3300
73	152.55	-152.55	-4.3300	34.839
74	130.72	-130.72	-34.839	60.983
75	105.86	-105.86	-60.983	82.155
76	80.446	-80.446	-82.155	98.244
77	56.338	-56.338	-98.244	109.51
78	33.508	-33.508	-109.51	116.21
79	11.997	-11.997	-116.21	118.61
80	-8.2308	8.2308	-118.61	116.97
81	-27.138	27.138	-116.97	111.54
82	-44.725	44.725	-111.54	102.59
83	-61.029	61.029	-102.59	90.389
84	-76.021	76.021	-90.389	75.184
85	-84.449	84.449	-75.184	58.294
86	-85.141	85.141	-58.294	41.266
87	-78.794	78.794	-41.266	25.507
88	-65.354	65.354	-25.507	12.436
89	-44.876	44.876	-12.436	3.4608
90	-17.304	17.304	-3.4608	1.38035E-11

```

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|                PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                |
|                NewProject.BaseDesignSection_28.A2M2R1_3514  |
|                Exe Time :29 July 2019  18:00:09  |
|                |
-----

```

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

```

Tirantel_429      :
ELEMENT TYPE     6 NO.OF ELEMENTS. IN THIS GROUP   1
C U R R E N T   T I M E   I S   7.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	319.90	-1.30818E-03	4.40085E-02	0.0000	3950.0	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
658 di 1221

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019    18:00:09
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```

New Project

STRESS RESULTS FOR GROUP NO. 5

```

Tirante2_1507      :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP    1
CURRENT TIME IS   7.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	298.86	-2.75144E-03	4.97739E-03	0.0000	6321.2	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019    18:00:09
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FINAL INCREMENTAL ANALYSIS

SUMMARY

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	2
2	CONVERGENCE :YES	5
3	CONVERGENCE :YES	6
4	CONVERGENCE :YES	4
5	CONVERGENCE :YES	7
6	CONVERGENCE :YES	3
7	CONVERGENCE :YES	6

END OF PROCESS FOR PROBLEM

New Project

```

NONLINEAR SOLUTION CPU TIME .... 0.10 [sec]
DATABASE CREATION CPU TIME..... 0.39 [sec]

```

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
659 di 1221

3. SEZIONE 3 – PARATIA DI PALI

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

* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: Nominal

* Time:lunedì 29 luglio 2019 18:01:09

* 1: Defining general settings

UNIT m kN

TITLE New Project

DELTA 0.2

option param itemax 100

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)

WALL LeftWall_32 0 -16 0 1

* 3: Defining surfaces for wall(s)

SOIL 0_L LeftWall_32 -16 0 1 0

SOIL 0_R LeftWall_32 -16 0 2 180

* 4: Defining soil layers

*

* Soil Profile (Strato1_2_8_L_0)

*

LDATA Strato1_2_8_L_0 0 LeftWall_32

ATREST 0.53 1 1

WEIGHT 19 9 10

PERMEABILITY 1E-06

RESISTANCE 0 29

YOUNG 2E+04 6E+04

ENDL

*

* Soil Profile (Strato2_3095_82743_L_0)

*

LDATA Strato2_3095_82743_L_0 -8.7 LeftWall_32

ATREST 0.5 0.5 1

WEIGHT 20 10 10

PERMEABILITY 0.0001

RESISTANCE 20 35

YOUNG 5E+04 1.5E+05

ENDL

* 5: Defining structural materials

* Steel material: 108 Name=Fe360 E=206000200 kPa

MATERIAL Fe360_108 2.06E+08

* Concrete material: 104 Name=C25/30 E=31475800 kPa

MATERIAL C2530_104 3.148E+07

* Rebar material: 124 Name=acciaio armonico E=200100000 kPa

MATERIAL acciaioarmonico_124 2.001E+08

* Concrete material: 103 Name=C20/25 E=29962000 kPa

MATERIAL C2025_103 2.996E+07

* 6: Defining structural elements

* 6.1: Beams and combined Wall Elements

BEAM WallElement_33 LeftWall_32 -16 0 C2530_104 0.6848 00 00 0

* 6.2: Supports

WIRE Tirante1_429 LeftWall_32 -3.2 acciaioarmonico_124 1.316E-05 93.94 15 0 0

* 6.3: Strips

STRIP LeftWall_32 2 5 0 40 0 10 30

* 7: Defining Steps

STEP Stage1_31

CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32

CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32

CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32

CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32

CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32

CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32

CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32

CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32

CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32

CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32

CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 661 di 1221
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* Web Page www.ceas.it *

JOB : NewProject.BaseDesignSection_28.Nominal_63
 STARTING
 ACCEPTED <FILE,GENW >
 ACCEPTED <FILE,PLOTTER,BINARY >
 ACCEPTED <SOLVE TOTAL_STRESS >
 ACCEPTED <PARAM ITEM MAX 100 >
 ACCEPTED <CONTROL HINGES 0 0.0001 0.001 >

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

PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019  18:01:09                               |
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INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 81
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 162
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 4
NO. OF SOLUTION STEPS (NSTE)..... 5
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 88
NO. OF LONG NAMES (LASTNAME) ..... 21
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH..... 1
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.

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019  18:01:09                               |
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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 8 8

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 662 di 1221
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```
1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 100
5 : option control hinges 0 0.0001 0.0001
6 : WALL LeftWall_32 0 -16 0 1
7 : SOIL 0_L LeftWall_32 -16 0 1 0
8 : SOIL 0_R LeftWall_32 -16 0 2 180
9 : LDATA Strato1_2_8_L_0 0 LeftWall_32
10 : ATREST 0.53 1 1
11 : WEIGHT 19 9 10
12 : PERMEABILITY 1E-06
13 : RESISTANCE 0 29
14 : YOUNG 2E+04 6E+04
15 : ENDL
16 : LDATA Strato2_3095_82743_L_0 -8.7 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 20 10 10
19 : PERMEABILITY 0.0001
20 : RESISTANCE 20 35
21 : YOUNG 5E+04 1.5E+05
22 : ENDL
23 : MATERIAL Fe360_108 2.06E+08
24 : MATERIAL C2530_104 3.148E+07
25 : MATERIAL acciaioarmonico_124 2.001E+08
26 : MATERIAL C2025_103 2.996E+07
27 : BEAM WallElement_33 LeftWall_32 -16 0 C2530_104 0.6848 00 00 0
28 : WIRE Tirante1_429 LeftWall_32 -3.2 acciaioarmonico_124 1.316E-05 93.94 15 0 0
29 : STRIP LeftWall_32 2 5 0 40 0 10 30
30 : STEP Stage1_31
31 : CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32
32 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
33 : CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32
34 : CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32
35 : CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32
36 : CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32
37 : CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32
38 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
39 : CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32
40 : CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32
41 : CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32
42 : CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32
43 : CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
44 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
45 : CHANGE Strato2_3095_82743_L_0 U-COHE=20 LeftWall_32
46 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
47 : SETWALL LeftWall_32
48 : GEOM 0 0
49 : WATER -26 0 -16 0 0
50 : ADD WallElement_33
51 : ENDSTEP
52 : STEP Stage2_755438
53 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
54 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
55 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
56 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
57 : SETWALL LeftWall_32
58 : GEOM 0 0
59 : WATER -26 0 -16 0 0
60 : ENDSTEP
61 : STEP Stage3_158
62 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
63 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
64 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
65 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
66 : SETWALL LeftWall_32
67 : GEOM 0 -3.7
68 : WATER -26 0 -16 0 0
69 : ENDSTEP
70 : STEP Stage4_617
71 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
72 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
73 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
74 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
75 : SETWALL LeftWall_32
76 : GEOM 0 -3.7
77 : WATER -26 0 -16 0 0
78 : ADD Tirante1_429
79 : ENDSTEP
80 : STEP Stage5_714
81 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
82 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
83 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
84 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 663 di 1221
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85 : SETWALL LeftWall_32
 86 : GEOM 0 -8.7
 87 : WATER -26 0 -16 0 0
 88 : ENDSTEP

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      18:01:09
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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 / NODE
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 -10.2000 /	
53	0.0000 -10.4000 /	54	0.0000 -10.6000 /	55	0.0000 -10.8000 /	56	0.0000 -11.0000 /	
57	0.0000 -11.2000 /	58	0.0000 -11.4000 /	59	0.0000 -11.6000 /	60	0.0000 -11.8000 /	
61	0.0000 -12.0000 /	62	0.0000 -12.2000 /	63	0.0000 -12.4000 /	64	0.0000 -12.6000 /	
65	0.0000 -12.8000 /	66	0.0000 -13.0000 /	67	0.0000 -13.2000 /	68	0.0000 -13.4000 /	
69	0.0000 -13.6000 /	70	0.0000 -13.8000 /	71	0.0000 -14.0000 /	72	0.0000 -14.2000 /	
73	0.0000 -14.4000 /	74	0.0000 -14.6000 /	75	0.0000 -14.8000 /	76	0.0000 -15.0000 /	
77	0.0000 -15.2000 /	78	0.0000 -15.4000 /	79	0.0000 -15.6000 /	80	0.0000 -15.8000 /	
81	0.0000 -16.0000 /							

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      18:01:09
|
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```

ELEMENT GROUP NO. 1

O_L :
 5 81 0 1 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0

.....
2D PLASTIC SOIL

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	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

element data

el	n	mat	area	.....	.....	.....	flag
1	1	1	0.1000	0.000	0.000	0.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 664 di 1221
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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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	0.2000	0.000	0.000	0.000	1.000
28	28	1	0.2000	0.000	0.000	0.000	1.000
29	29	1	0.2000	0.000	0.000	0.000	1.000
30	30	1	0.2000	0.000	0.000	0.000	1.000
31	31	1	0.2000	0.000	0.000	0.000	1.000
32	32	1	0.2000	0.000	0.000	0.000	1.000
33	33	1	0.2000	0.000	0.000	0.000	1.000
34	34	1	0.2000	0.000	0.000	0.000	1.000
35	35	1	0.2000	0.000	0.000	0.000	1.000
36	36	1	0.2000	0.000	0.000	0.000	1.000
37	37	1	0.2000	0.000	0.000	0.000	1.000
38	38	1	0.2000	0.000	0.000	0.000	1.000
39	39	1	0.2000	0.000	0.000	0.000	1.000
40	40	1	0.2000	0.000	0.000	0.000	1.000
41	41	1	0.2000	0.000	0.000	0.000	1.000
42	42	1	0.2000	0.000	0.000	0.000	1.000
43	43	1	0.2000	0.000	0.000	0.000	1.000
44	44	1	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	2	0.2000	0.000	0.000	0.000	1.000
63	63	2	0.2000	0.000	0.000	0.000	1.000
64	64	2	0.2000	0.000	0.000	0.000	1.000
65	65	2	0.2000	0.000	0.000	0.000	1.000
66	66	2	0.2000	0.000	0.000	0.000	1.000
67	67	2	0.2000	0.000	0.000	0.000	1.000
68	68	2	0.2000	0.000	0.000	0.000	1.000
69	69	2	0.2000	0.000	0.000	0.000	1.000
70	70	2	0.2000	0.000	0.000	0.000	1.000
71	71	2	0.2000	0.000	0.000	0.000	1.000
72	72	2	0.2000	0.000	0.000	0.000	1.000
73	73	2	0.2000	0.000	0.000	0.000	1.000
74	74	2	0.2000	0.000	0.000	0.000	1.000
75	75	2	0.2000	0.000	0.000	0.000	1.000
76	76	2	0.2000	0.000	0.000	0.000	1.000
77	77	2	0.2000	0.000	0.000	0.000	1.000
78	78	2	0.2000	0.000	0.000	0.000	1.000
79	79	2	0.2000	0.000	0.000	0.000	1.000
80	80	2	0.2000	0.000	0.000	0.000	1.000
81	81	2	0.1000	0.000	0.000	0.000	1.000

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 665 di 1221
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|
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      18:01:09
|-----|
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ELEMENT GROUP NO. 2

0_R :
5 81 0 1 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0

.....2D PLASTIC SOIL

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	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

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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000
24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	0.2000	0.000	0.000	0.000	2.000
28	28	1	0.2000	0.000	0.000	0.000	2.000
29	29	1	0.2000	0.000	0.000	0.000	2.000
30	30	1	0.2000	0.000	0.000	0.000	2.000
31	31	1	0.2000	0.000	0.000	0.000	2.000
32	32	1	0.2000	0.000	0.000	0.000	2.000
33	33	1	0.2000	0.000	0.000	0.000	2.000
34	34	1	0.2000	0.000	0.000	0.000	2.000
35	35	1	0.2000	0.000	0.000	0.000	2.000
36	36	1	0.2000	0.000	0.000	0.000	2.000
37	37	1	0.2000	0.000	0.000	0.000	2.000
38	38	1	0.2000	0.000	0.000	0.000	2.000
39	39	1	0.2000	0.000	0.000	0.000	2.000
40	40	1	0.2000	0.000	0.000	0.000	2.000
41	41	1	0.2000	0.000	0.000	0.000	2.000
42	42	1	0.2000	0.000	0.000	0.000	2.000
43	43	1	0.2000	0.000	0.000	0.000	2.000
44	44	1	0.2000	0.000	0.000	0.000	2.000
45	45	2	0.2000	0.000	0.000	0.000	2.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 666 di 1221
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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	2	0.2000	0.000	0.000	0.000	2.000
63	63	2	0.2000	0.000	0.000	0.000	2.000
64	64	2	0.2000	0.000	0.000	0.000	2.000
65	65	2	0.2000	0.000	0.000	0.000	2.000
66	66	2	0.2000	0.000	0.000	0.000	2.000
67	67	2	0.2000	0.000	0.000	0.000	2.000
68	68	2	0.2000	0.000	0.000	0.000	2.000
69	69	2	0.2000	0.000	0.000	0.000	2.000
70	70	2	0.2000	0.000	0.000	0.000	2.000
71	71	2	0.2000	0.000	0.000	0.000	2.000
72	72	2	0.2000	0.000	0.000	0.000	2.000
73	73	2	0.2000	0.000	0.000	0.000	2.000
74	74	2	0.2000	0.000	0.000	0.000	2.000
75	75	2	0.2000	0.000	0.000	0.000	2.000
76	76	2	0.2000	0.000	0.000	0.000	2.000
77	77	2	0.2000	0.000	0.000	0.000	2.000
78	78	2	0.2000	0.000	0.000	0.000	2.000
79	79	2	0.2000	0.000	0.000	0.000	2.000
80	80	2	0.2000	0.000	0.000	0.000	2.000
81	81	2	0.1000	0.000	0.000	0.000	2.000

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|          PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017* |
|                                                                    |
|          NewProject.BaseDesignSection_28.Nominal_63          |
|          Exe Time :29 July 2019   18:01:09                    |
|                                                                    |
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ELEMENT GROUP NO. 3

WallElement_33
  2 80 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
4	active
5	active

```

material set no. 1

prop( 1) young modulus      0.314800E+08
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future .....0.252200E-43

```

```

no. of step variable items: 1
step inertia multiplier
-----
1 1.000
2 1.000
3 1.000
4 1.000
5 1.000

```

```

element data

el  na  nb  mat    erc1    erc2    thick    by-i    by-j
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 667 di 1221
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1	1	2	1	0.000	0.000	0.6848	0.000	0.000
2	2	3	1	0.000	0.000	0.6848	0.000	0.000
3	3	4	1	0.000	0.000	0.6848	0.000	0.000
4	4	5	1	0.000	0.000	0.6848	0.000	0.000
5	5	6	1	0.000	0.000	0.6848	0.000	0.000
6	6	7	1	0.000	0.000	0.6848	0.000	0.000
7	7	8	1	0.000	0.000	0.6848	0.000	0.000
8	8	9	1	0.000	0.000	0.6848	0.000	0.000
9	9	10	1	0.000	0.000	0.6848	0.000	0.000
10	10	11	1	0.000	0.000	0.6848	0.000	0.000
11	11	12	1	0.000	0.000	0.6848	0.000	0.000
12	12	13	1	0.000	0.000	0.6848	0.000	0.000
13	13	14	1	0.000	0.000	0.6848	0.000	0.000
14	14	15	1	0.000	0.000	0.6848	0.000	0.000
15	15	16	1	0.000	0.000	0.6848	0.000	0.000
16	16	17	1	0.000	0.000	0.6848	0.000	0.000
17	17	18	1	0.000	0.000	0.6848	0.000	0.000
18	18	19	1	0.000	0.000	0.6848	0.000	0.000
19	19	20	1	0.000	0.000	0.6848	0.000	0.000
20	20	21	1	0.000	0.000	0.6848	0.000	0.000
21	21	22	1	0.000	0.000	0.6848	0.000	0.000
22	22	23	1	0.000	0.000	0.6848	0.000	0.000
23	23	24	1	0.000	0.000	0.6848	0.000	0.000
24	24	25	1	0.000	0.000	0.6848	0.000	0.000
25	25	26	1	0.000	0.000	0.6848	0.000	0.000
26	26	27	1	0.000	0.000	0.6848	0.000	0.000
27	27	28	1	0.000	0.000	0.6848	0.000	0.000
28	28	29	1	0.000	0.000	0.6848	0.000	0.000
29	29	30	1	0.000	0.000	0.6848	0.000	0.000
30	30	31	1	0.000	0.000	0.6848	0.000	0.000
31	31	32	1	0.000	0.000	0.6848	0.000	0.000
32	32	33	1	0.000	0.000	0.6848	0.000	0.000
33	33	34	1	0.000	0.000	0.6848	0.000	0.000
34	34	35	1	0.000	0.000	0.6848	0.000	0.000
35	35	36	1	0.000	0.000	0.6848	0.000	0.000
36	36	37	1	0.000	0.000	0.6848	0.000	0.000
37	37	38	1	0.000	0.000	0.6848	0.000	0.000
38	38	39	1	0.000	0.000	0.6848	0.000	0.000
39	39	40	1	0.000	0.000	0.6848	0.000	0.000
40	40	41	1	0.000	0.000	0.6848	0.000	0.000
41	41	42	1	0.000	0.000	0.6848	0.000	0.000
42	42	43	1	0.000	0.000	0.6848	0.000	0.000
43	43	44	1	0.000	0.000	0.6848	0.000	0.000
44	44	45	1	0.000	0.000	0.6848	0.000	0.000
45	45	46	1	0.000	0.000	0.6848	0.000	0.000
46	46	47	1	0.000	0.000	0.6848	0.000	0.000
47	47	48	1	0.000	0.000	0.6848	0.000	0.000
48	48	49	1	0.000	0.000	0.6848	0.000	0.000
49	49	50	1	0.000	0.000	0.6848	0.000	0.000
50	50	51	1	0.000	0.000	0.6848	0.000	0.000
51	51	52	1	0.000	0.000	0.6848	0.000	0.000
52	52	53	1	0.000	0.000	0.6848	0.000	0.000
53	53	54	1	0.000	0.000	0.6848	0.000	0.000
54	54	55	1	0.000	0.000	0.6848	0.000	0.000
55	55	56	1	0.000	0.000	0.6848	0.000	0.000
56	56	57	1	0.000	0.000	0.6848	0.000	0.000
57	57	58	1	0.000	0.000	0.6848	0.000	0.000
58	58	59	1	0.000	0.000	0.6848	0.000	0.000
59	59	60	1	0.000	0.000	0.6848	0.000	0.000
60	60	61	1	0.000	0.000	0.6848	0.000	0.000
61	61	62	1	0.000	0.000	0.6848	0.000	0.000
62	62	63	1	0.000	0.000	0.6848	0.000	0.000
63	63	64	1	0.000	0.000	0.6848	0.000	0.000
64	64	65	1	0.000	0.000	0.6848	0.000	0.000
65	65	66	1	0.000	0.000	0.6848	0.000	0.000
66	66	67	1	0.000	0.000	0.6848	0.000	0.000
67	67	68	1	0.000	0.000	0.6848	0.000	0.000
68	68	69	1	0.000	0.000	0.6848	0.000	0.000
69	69	70	1	0.000	0.000	0.6848	0.000	0.000
70	70	71	1	0.000	0.000	0.6848	0.000	0.000
71	71	72	1	0.000	0.000	0.6848	0.000	0.000
72	72	73	1	0.000	0.000	0.6848	0.000	0.000
73	73	74	1	0.000	0.000	0.6848	0.000	0.000
74	74	75	1	0.000	0.000	0.6848	0.000	0.000
75	75	76	1	0.000	0.000	0.6848	0.000	0.000
76	76	77	1	0.000	0.000	0.6848	0.000	0.000
77	77	78	1	0.000	0.000	0.6848	0.000	0.000
78	78	79	1	0.000	0.000	0.6848	0.000	0.000
79	79	80	1	0.000	0.000	0.6848	0.000	0.000
80	80	81	1	0.000	0.000	0.6848	0.000	0.000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 668 di 1221
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|                               NewProject.BaseDesignSection_28.Nominal_63                               |
|                               Exe Time :29 July 2019                               18:01:09                               |
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ELEMENT GROUP NO. 4

Tirante1_429      :
 6 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0
.....2D POST-TENSION ANCHOR.....
.....

```

element group behaviour throughout stage analysis

stage	status
1	inactive
2	inactive
3	inactive
4	active
5	active

material set no. 1

```

prop( 1) angle          15.0000
prop( 2) young modulus  0.200100E+09
prop( 3) modification   time  0.000000
prop( 4) new young modulus  0.000000

```

```

no. of step variable items: 2
step  -ve lim  +ve lim
-----
1  0.000      0.000
2  0.000      0.000
3  0.000      0.000
4  0.000      0.000
5  0.000      0.000

```

```

element data

el  n  mat      a/l    pinit  yieldc  yieldt
-----
1  17  1    0.1316E-04  93.94   0.000   0.000

```

```

+-----+
|                               PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                               |
|                               Exe Time :29 July 2019                               18:01:09                               |
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NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 10
MAXIMUM POINTS/LCURVE (NPTM) ..... 5

```

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+-----+
|                               PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                               |
|                               Exe Time :29 July 2019                               18:01:09                               |
+-----+

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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
6.00000  0.0000E+00

```

LOAD FUNCTION NUMBER = 2

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
669 di 1221

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
6.00000 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
6.00000 0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

TIME VALUE FUNCTION

0.00000 0.0000E+00
3.80000 0.0000E+00
4.00000 0.1000E+01
4.20000 0.0000E+00
6.00000 0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 5

TIME VALUE FUNCTION

0.00000 0.0000E+00
4.80000 0.0000E+00
5.00000 0.1000E+01
5.20000 0.0000E+00
6.00000 0.0000E+00

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000 0.0000E+00
0.80000 0.0000E+00
1.00000 0.1000E+01
6.00000 0.1000E+01

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000 0.0000E+00
1.80000 0.0000E+00
2.00000 0.1000E+01
6.00000 0.1000E+01

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000 0.0000E+00
2.80000 0.0000E+00
3.00000 0.1000E+01
6.00000 0.1000E+01

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 670 di 1221
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LOAD FUNCTION NUMBER = 9
 NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10
 NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
6.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019   18:01:09                               |
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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
STEP	4	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	4	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019   18:01:09                               |
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NO. OF LAYERS 2
 NO. OF DATA PER LAYER..... 100

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019   18:01:09                               |
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LAYER DESCRIPTORS FOR STEP NO. 1

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 671 di 1221
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NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 1

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -8.7000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

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

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 672 di 1221
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ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -8.7000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -8.7000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 673 di 1221
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NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 4

ITEM NO.	1<NAME	>= 14.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(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.	9<U-FRICT	>= 29.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.30400	WALL NO.	1
ITEM NO.	11<U-KP	>= 4.0410	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.53000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 1.0000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 20000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 60000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-05	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 29.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.30400	WALL NO.	1
ITEM NO.	61<D-KP	>= 4.0410	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-05	(BOTH WALLS)	

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

ITEM NO.	1<NAME	>= 15.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -8.7000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 20.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 20.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.23500	WALL NO.	1
ITEM NO.	11<U-KP	>= 5.8790	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	>= 50000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 20.000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.23500	WALL NO.	1
ITEM NO.	61<D-KP	>= 5.8790	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 5

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 5

ITEM NO.	1<NAME	>= 14.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(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.	9<U-FRICT	>= 29.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.30400	WALL NO.	1
ITEM NO.	11<U-KP	>= 4.0410	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.53000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 1.0000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 20000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 60000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-05	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 29.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.30400	WALL NO.	1
ITEM NO.	61<D-KP	>= 4.0410	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-05	(BOTH WALLS)	

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 674 di 1221
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NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 5

ITEM NO.	1<NAME	>= 15.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -8.7000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 20.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 20.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.23500	WALL NO.	1
ITEM NO.	11<U-KP	>= 5.8790	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	>= 50000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(BOTH WALLS)	
ITEM NO.	52<D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 20.000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.23500	WALL NO.	1
ITEM NO.	61<D-KP	>= 5.8790	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

DEFAULT WATER UNIT WEIGHT = 10.000
AVERAGED ON 10 VALUES

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019  18:01:09  |
+-----+
    
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PHASE DESCRIPTORS

STEP NO.	1		
Y		LEFT WALL	RIGHT WALL
Z-PC		0.000	-0.9990E+30
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-16.00	-16.00
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		
		LEFT WALL	RIGHT WALL

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 675 di 1221
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Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	0.000	0.000
Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-16.00	-16.00
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

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-3.700	0.000
Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-16.00	-16.00
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

STEP NO. 4

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-3.700	0.000
Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 676 di 1221
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ZCUT          0.000      0.000
BALANCE LEVEL FOR PORE PRESSURES      -16.00    -16.00
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 4

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STEP NO.      5
                LEFT WALL   RIGHT WALL
Y              0.000      -0.9990E+30
Z-PC           0.000      0.000
Z-EXCAVATION   -8.700      0.000
Z-WATER_TABLE -26.000     -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL              0.000     0.000
ZQ             0.000      0.000
DZW_OF_THE_WATER_TABLE                 0.000     0.000
QS_ON_THE_EXCAVATION_SIDE              0.000     0.000
ZQS           -0.9990E+30  -0.9990E+30
ZCUT           0.000      0.000
BALANCE LEVEL FOR PORE PRESSURES      -16.00    -16.00
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 5

LEFT-HAND WALL

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LOWER LEVEL    -16.00000
UPPER LEVEL     0.00000
    
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RIGHT-HAND WALL

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LOWER LEVEL    -16.00000
UPPER LEVEL     0.00000
    
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GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.

Progetto
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12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
677 di 1221

| Exe Time :29 July 2019 18:01:09 |

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 2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 5.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 0.000000000000000E+000
FOUNDATION WIDTH (B) 40.0000000000000
ZETA-F..... 0.000000000000000E+000
Q-F 10.0000000000000
BETA 30.0000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION 3781

NO. OF D.P.W FOR THIS AREA 9608
MAX NO. OF D.P.W. AVAILABLE 81920
** MAX NO OF ITERATIONS SET TO 100

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.5117E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 30.73 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.5117E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 162 NODE 81 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000
RINORM=0.5117E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 30.73 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.5117E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 162 NODE 81 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.5117E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 30.73 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.5117E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 162 NODE 81 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 678 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019      18:01:09      |
+-----+
    
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New Project
 SOLUTION REACHED USING 2 ITERATIONS ON 100
 PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)
 PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

Y-DISPL.F X-ROT. F
 (02) (04) (

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019      18:01:09      |
+-----+
    
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New Project
 STRESS RESULTS FOR GROUP NO. 1
 0_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
 CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	1.5916E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_2_8_L_0									
2 D	0.4028	0.000	3.800	2.014	3.800	2.014	V-C	1.5916E+04	-0.2000	0.000	1.000	1.000
2.014	0.000	0.000	Strato1_2_8_L_0									
3 D	0.8056	0.000	7.600	4.028	7.600	4.028	V-C	1.5916E+04	-0.4000	0.000	1.000	1.000
4.028	0.000	0.000	Strato1_2_8_L_0									
4 D	1.208	0.000	11.40	6.042	11.40	6.042	V-C	1.5916E+04	-0.6000	0.000	1.000	1.000
6.042	0.000	0.000	Strato1_2_8_L_0									
5 D	1.611	0.000	15.20	8.056	15.20	8.056	V-C	1.5916E+04	-0.8000	0.000	1.000	1.000
8.056	0.000	0.000	Strato1_2_8_L_0									
6 D	2.014	0.000	19.00	10.07	19.00	10.07	V-C	1.5916E+04	-1.000	0.000	1.000	1.000
10.07	0.000	0.000	Strato1_2_8_L_0									
7 D	2.417	0.000	22.80	12.08	22.80	12.08	V-C	1.5916E+04	-1.200	0.000	1.000	1.000
12.08	0.000	0.000	Strato1_2_8_L_0									
8 D	2.820	0.000	26.60	14.10	26.60	14.10	V-C	1.5916E+04	-1.400	0.000	1.000	1.000
14.10	0.000	0.000	Strato1_2_8_L_0									
9 D	3.222	0.000	30.40	16.11	30.40	16.11	V-C	1.5916E+04	-1.600	0.000	1.000	1.000
16.11	0.000	0.000	Strato1_2_8_L_0									
10 D	3.625	0.000	34.20	18.13	34.20	18.13	V-C	1.5916E+04	-1.800	0.000	1.000	1.000
18.13	0.000	0.000	Strato1_2_8_L_0									
11 D	4.028	0.000	38.00	20.14	38.00	20.14	V-C	1.5916E+04	-2.000	0.000	1.000	1.000
20.14	0.000	0.000	Strato1_2_8_L_0									
12 D	4.431	0.000	41.80	22.15	41.80	22.15	V-C	1.5916E+04	-2.200	0.000	1.000	1.000
22.15	0.000	0.000	Strato1_2_8_L_0									
13 D	4.834	0.000	45.60	24.17	45.60	24.17	V-C	1.5916E+04	-2.400	0.000	1.000	1.000
24.17	0.000	0.000	Strato1_2_8_L_0									
14 D	5.236	0.000	49.40	26.18	49.40	26.18	V-C	1.5916E+04	-2.600	0.000	1.000	1.000
26.18	0.000	0.000	Strato1_2_8_L_0									
15 D	5.639	0.000	53.20	28.20	53.20	28.20	V-C	1.5916E+04	-2.800	0.000	1.000	1.000
28.20	0.000	0.000	Strato1_2_8_L_0									
16 D	6.042	0.000	57.00	30.21	57.00	30.21	V-C	1.5916E+04	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Strato1_2_8_L_0									
17 D	6.445	0.000	60.80	32.22	60.80	32.22	V-C	1.5916E+04	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Strato1_2_8_L_0									
18 D	6.848	0.000	64.60	34.24	64.60	34.24	V-C	1.5916E+04	-3.400	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 679 di 1221
34.24	0.000	0.000	Strato1_2_8_L_0		
19 D	7.250	0.000	68.40 36.25	68.40	36.25
36.25	0.000	0.000	Strato1_2_8_L_0		
20 D	7.653	0.000	72.20 38.27	72.20	38.27
38.27	0.000	0.000	Strato1_2_8_L_0		
21 D	8.056	0.000	76.00 40.28	76.00	40.28
40.28	0.000	0.000	Strato1_2_8_L_0		
22 D	8.459	0.000	79.80 42.29	79.80	42.29
42.29	0.000	0.000	Strato1_2_8_L_0		
23 D	8.862	0.000	83.60 44.31	83.60	44.31
44.31	0.000	0.000	Strato1_2_8_L_0		
24 D	9.264	0.000	87.40 46.32	87.40	46.32
46.32	0.000	0.000	Strato1_2_8_L_0		
25 D	9.667	0.000	91.20 48.34	91.20	48.34
48.34	0.000	0.000	Strato1_2_8_L_0		
26 D	10.07	0.000	95.00 50.35	95.00	50.35
50.35	0.000	0.000	Strato1_2_8_L_0		
27 D	10.47	0.000	98.80 52.36	98.80	52.36
52.36	0.000	0.000	Strato1_2_8_L_0		
28 D	10.88	0.000	102.6 54.38	102.6	54.38
54.38	0.000	0.000	Strato1_2_8_L_0		
29 D	11.28	0.000	106.4 56.39	106.4	56.39
56.39	0.000	0.000	Strato1_2_8_L_0		
30 D	11.68	0.000	110.2 58.41	110.2	58.41
58.41	0.000	0.000	Strato1_2_8_L_0		
31 D	12.08	0.000	114.0 60.42	114.0	60.42
60.42	0.000	0.000	Strato1_2_8_L_0		
32 D	12.49	0.000	117.8 62.43	117.8	62.43
62.43	0.000	0.000	Strato1_2_8_L_0		
33 D	12.89	0.000	121.6 64.45	121.6	64.45
64.45	0.000	0.000	Strato1_2_8_L_0		
34 D	13.29	0.000	125.4 66.46	125.4	66.46
66.46	0.000	0.000	Strato1_2_8_L_0		
35 D	13.70	0.000	129.2 68.48	129.2	68.48
68.48	0.000	0.000	Strato1_2_8_L_0		
36 D	14.10	0.000	133.0 70.49	133.0	70.49
70.49	0.000	0.000	Strato1_2_8_L_0		
37 D	14.50	0.000	136.8 72.50	136.8	72.50
72.50	0.000	0.000	Strato1_2_8_L_0		
38 D	14.90	0.000	140.6 74.52	140.6	74.52
74.52	0.000	0.000	Strato1_2_8_L_0		
39 D	15.31	0.000	144.4 76.53	144.4	76.53
76.53	0.000	0.000	Strato1_2_8_L_0		
40 D	15.71	0.000	148.2 78.55	148.2	78.55
78.55	0.000	0.000	Strato1_2_8_L_0		
41 D	16.11	0.000	152.0 80.56	152.0	80.56
80.56	0.000	0.000	Strato1_2_8_L_0		
42 D	16.51	0.000	155.8 82.57	155.8	82.57
82.57	0.000	0.000	Strato1_2_8_L_0		
43 D	16.92	0.000	159.6 84.59	159.6	84.59
84.59	0.000	0.000	Strato1_2_8_L_0		
44 D	17.32	0.000	163.4 86.60	163.4	86.60
86.60	0.000	0.000	Strato1_2_8_L_0		
45 D	16.73	0.000	167.3 83.65	167.3	83.65
83.65	0.000	0.000	Strato2_3095_82743_L_0		
46 D	17.13	0.000	171.3 85.65	171.3	85.65
85.65	0.000	0.000	Strato2_3095_82743_L_0		
47 D	17.53	0.000	175.3 87.65	175.3	87.65
87.65	0.000	0.000	Strato2_3095_82743_L_0		
48 D	17.93	0.000	179.3 89.65	179.3	89.65
89.65	0.000	0.000	Strato2_3095_82743_L_0		
49 D	18.33	0.000	183.3 91.65	183.3	91.65
91.65	0.000	0.000	Strato2_3095_82743_L_0		
50 D	18.73	0.000	187.3 93.65	187.3	93.65
93.65	0.000	0.000	Strato2_3095_82743_L_0		
51 D	19.13	0.000	191.3 95.65	191.3	95.65
95.65	0.000	0.000	Strato2_3095_82743_L_0		
52 D	19.53	0.000	195.3 97.65	195.3	97.65
97.65	0.000	0.000	Strato2_3095_82743_L_0		
53 D	19.93	0.000	199.3 99.65	199.3	99.65
99.65	0.000	0.000	Strato2_3095_82743_L_0		
54 D	20.33	0.000	203.3 101.6	203.3	101.6
101.6	0.000	0.000	Strato2_3095_82743_L_0		
55 D	20.73	0.000	207.3 103.6	207.3	103.6
103.6	0.000	0.000	Strato2_3095_82743_L_0		
56 D	21.13	0.000	211.3 105.6	211.3	105.6
105.6	0.000	0.000	Strato2_3095_82743_L_0		
57 D	21.53	0.000	215.3 107.6	215.3	107.6
107.6	0.000	0.000	Strato2_3095_82743_L_0		
58 D	21.93	0.000	219.3 109.6	219.3	109.6
109.6	0.000	0.000	Strato2_3095_82743_L_0		
59 D	22.33	0.000	223.3 111.6	223.3	111.6
111.6	0.000	0.000	Strato2_3095_82743_L_0		
60 D	22.73	0.000	227.3 113.6	227.3	113.6
113.6	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 681 di 1221						
9 D	3.222	0.000	30.40 16.11	30.40	16.11	V-C	1.1045E+04	-1.600	0.000	1.000	1.000
16.11	0.000	0.000	Strato1_2_8_L_0								
10 D	3.625	0.000	34.20 18.13	34.20	18.13	V-C	1.1045E+04	-1.800	0.000	1.000	1.000
18.13	0.000	0.000	Strato1_2_8_L_0								
11 D	4.028	0.000	38.00 20.14	38.00	20.14	V-C	1.1045E+04	-2.000	0.000	1.000	1.000
20.14	0.000	0.000	Strato1_2_8_L_0								
12 D	4.431	0.000	41.80 22.15	41.80	22.15	V-C	1.1045E+04	-2.200	0.000	1.000	1.000
22.15	0.000	0.000	Strato1_2_8_L_0								
13 D	4.834	0.000	45.60 24.17	45.60	24.17	V-C	1.1045E+04	-2.400	0.000	1.000	1.000
24.17	0.000	0.000	Strato1_2_8_L_0								
14 D	5.236	0.000	49.40 26.18	49.40	26.18	V-C	1.1045E+04	-2.600	0.000	1.000	1.000
26.18	0.000	0.000	Strato1_2_8_L_0								
15 D	5.639	0.000	53.20 28.20	53.20	28.20	V-C	1.1045E+04	-2.800	0.000	1.000	1.000
28.20	0.000	0.000	Strato1_2_8_L_0								
16 D	6.042	0.000	57.00 30.21	57.00	30.21	V-C	1.1045E+04	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Strato1_2_8_L_0								
17 D	6.445	0.000	60.80 32.22	60.80	32.22	V-C	1.1045E+04	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Strato1_2_8_L_0								
18 D	6.848	0.000	64.60 34.24	64.60	34.24	V-C	1.1045E+04	-3.400	0.000	1.000	1.000
34.24	0.000	0.000	Strato1_2_8_L_0								
19 D	7.250	0.000	68.40 36.25	68.40	36.25	V-C	1.1045E+04	-3.600	0.000	1.000	1.000
36.25	0.000	0.000	Strato1_2_8_L_0								
20 D	7.653	0.000	72.20 38.27	72.20	38.27	V-C	1.1045E+04	-3.800	0.000	1.000	1.000
38.27	0.000	0.000	Strato1_2_8_L_0								
21 D	8.056	0.000	76.00 40.28	76.00	40.28	V-C	1.1045E+04	-4.000	0.000	1.000	1.000
40.28	0.000	0.000	Strato1_2_8_L_0								
22 D	8.459	0.000	79.80 42.29	79.80	42.29	V-C	1.1045E+04	-4.200	0.000	1.000	1.000
42.29	0.000	0.000	Strato1_2_8_L_0								
23 D	8.862	0.000	83.60 44.31	83.60	44.31	V-C	1.1045E+04	-4.400	0.000	1.000	1.000
44.31	0.000	0.000	Strato1_2_8_L_0								
24 D	9.264	0.000	87.40 46.32	87.40	46.32	V-C	1.1045E+04	-4.600	0.000	1.000	1.000
46.32	0.000	0.000	Strato1_2_8_L_0								
25 D	9.667	0.000	91.20 48.34	91.20	48.34	V-C	1.1045E+04	-4.800	0.000	1.000	1.000
48.34	0.000	0.000	Strato1_2_8_L_0								
26 D	10.07	0.000	95.00 50.35	95.00	50.35	V-C	1.1045E+04	-5.000	0.000	1.000	1.000
50.35	0.000	0.000	Strato1_2_8_L_0								
27 D	10.47	0.000	98.80 52.36	98.80	52.36	V-C	1.1045E+04	-5.200	0.000	1.000	1.000
52.36	0.000	0.000	Strato1_2_8_L_0								
28 D	10.88	0.000	102.6 54.38	102.6	54.38	V-C	1.1045E+04	-5.400	0.000	1.000	1.000
54.38	0.000	0.000	Strato1_2_8_L_0								
29 D	11.28	0.000	106.4 56.39	106.4	56.39	V-C	1.1045E+04	-5.600	0.000	1.000	1.000
56.39	0.000	0.000	Strato1_2_8_L_0								
30 D	11.68	0.000	110.2 58.41	110.2	58.41	V-C	1.1045E+04	-5.800	0.000	1.000	1.000
58.41	0.000	0.000	Strato1_2_8_L_0								
31 D	12.08	0.000	114.0 60.42	114.0	60.42	V-C	1.1045E+04	-6.000	0.000	1.000	1.000
60.42	0.000	0.000	Strato1_2_8_L_0								
32 D	12.49	0.000	117.8 62.43	117.8	62.43	V-C	1.1045E+04	-6.200	0.000	1.000	1.000
62.43	0.000	0.000	Strato1_2_8_L_0								
33 D	12.89	0.000	121.6 64.45	121.6	64.45	V-C	1.1045E+04	-6.400	0.000	1.000	1.000
64.45	0.000	0.000	Strato1_2_8_L_0								
34 D	13.29	0.000	125.4 66.46	125.4	66.46	V-C	1.1045E+04	-6.600	0.000	1.000	1.000
66.46	0.000	0.000	Strato1_2_8_L_0								
35 D	13.70	0.000	129.2 68.48	129.2	68.48	V-C	1.1045E+04	-6.800	0.000	1.000	1.000
68.48	0.000	0.000	Strato1_2_8_L_0								
36 D	14.10	0.000	133.0 70.49	133.0	70.49	V-C	1.1045E+04	-7.000	0.000	1.000	1.000
70.49	0.000	0.000	Strato1_2_8_L_0								
37 D	14.50	0.000	136.8 72.50	136.8	72.50	V-C	1.1045E+04	-7.200	0.000	1.000	1.000
72.50	0.000	0.000	Strato1_2_8_L_0								
38 D	14.90	0.000	140.6 74.52	140.6	74.52	V-C	1.1045E+04	-7.400	0.000	1.000	1.000
74.52	0.000	0.000	Strato1_2_8_L_0								
39 D	15.31	0.000	144.4 76.53	144.4	76.53	V-C	1.1045E+04	-7.600	0.000	1.000	1.000
76.53	0.000	0.000	Strato1_2_8_L_0								
40 D	15.71	0.000	148.2 78.55	148.2	78.55	V-C	1.1045E+04	-7.800	0.000	1.000	1.000
78.55	0.000	0.000	Strato1_2_8_L_0								
41 D	16.11	0.000	152.0 80.56	152.0	80.56	V-C	1.1045E+04	-8.000	0.000	1.000	1.000
80.56	0.000	0.000	Strato1_2_8_L_0								
42 D	16.51	0.000	155.8 82.57	155.8	82.57	V-C	1.1045E+04	-8.200	0.000	1.000	1.000
82.57	0.000	0.000	Strato1_2_8_L_0								
43 D	16.92	0.000	159.6 84.59	159.6	84.59	V-C	1.1045E+04	-8.400	0.000	1.000	1.000
84.59	0.000	0.000	Strato1_2_8_L_0								
44 D	17.32	0.000	163.4 86.60	163.4	86.60	V-C	1.1045E+04	-8.600	0.000	1.000	1.000
86.60	0.000	0.000	Strato1_2_8_L_0								
45 D	16.73	0.000	167.3 83.65	167.3	83.65	V-C	2.4402E+04	-8.800	0.000	1.000	1.000
83.65	0.000	0.000	Strato2_3095_82743_L_0								
46 D	17.13	0.000	171.3 85.65	171.3	85.65	V-C	2.4402E+04	-9.000	0.000	1.000	1.000
85.65	0.000	0.000	Strato2_3095_82743_L_0								
47 D	17.53	0.000	175.3 87.65	175.3	87.65	V-C	2.4402E+04	-9.200	0.000	1.000	1.000
87.65	0.000	0.000	Strato2_3095_82743_L_0								
48 D	17.93	0.000	179.3 89.65	179.3	89.65	V-C	2.4402E+04	-9.400	0.000	1.000	1.000
89.65	0.000	0.000	Strato2_3095_82743_L_0								
49 D	18.33	0.000	183.3 91.65	183.3	91.65	V-C	2.4402E+04	-9.600	0.000	1.000	1.000
91.65	0.000	0.000	Strato2_3095_82743_L_0								
50 D	18.73	0.000	187.3 93.65	187.3	93.65	V-C	2.4402E+04	-9.800	0.000	1.000	1.000
93.65	0.000	0.000	Strato2_3095_82743_L_0								
51 D	19.13	0.000	191.3 95.65	191.3	95.65	V-C	2.4402E+04	-10.00	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 682 di 1221
95.65	0.000	0.000	Strato2_3095_82743_L_0		
52 D	19.53	0.000	195.3 97.65	195.3	97.65
97.65	0.000	0.000	Strato2_3095_82743_L_0		
53 D	19.93	0.000	199.3 99.65	199.3	99.65
99.65	0.000	0.000	Strato2_3095_82743_L_0		
54 D	20.33	0.000	203.3 101.6	203.3	101.6
101.6	0.000	0.000	Strato2_3095_82743_L_0		
55 D	20.73	0.000	207.3 103.6	207.3	103.6
103.6	0.000	0.000	Strato2_3095_82743_L_0		
56 D	21.13	0.000	211.3 105.6	211.3	105.6
105.6	0.000	0.000	Strato2_3095_82743_L_0		
57 D	21.53	0.000	215.3 107.6	215.3	107.6
107.6	0.000	0.000	Strato2_3095_82743_L_0		
58 D	21.93	0.000	219.3 109.6	219.3	109.6
109.6	0.000	0.000	Strato2_3095_82743_L_0		
59 D	22.33	0.000	223.3 111.6	223.3	111.6
111.6	0.000	0.000	Strato2_3095_82743_L_0		
60 D	22.73	0.000	227.3 113.6	227.3	113.6
113.6	0.000	0.000	Strato2_3095_82743_L_0		
61 D	23.13	0.000	231.3 115.6	231.3	115.6
115.6	0.000	0.000	Strato2_3095_82743_L_0		
62 D	23.53	0.000	235.3 117.6	235.3	117.6
117.6	0.000	0.000	Strato2_3095_82743_L_0		
63 D	23.93	0.000	239.3 119.6	239.3	119.6
119.6	0.000	0.000	Strato2_3095_82743_L_0		
64 D	24.33	0.000	243.3 121.6	243.3	121.6
121.6	0.000	0.000	Strato2_3095_82743_L_0		
65 D	24.73	0.000	247.3 123.6	247.3	123.6
123.6	0.000	0.000	Strato2_3095_82743_L_0		
66 D	25.13	0.000	251.3 125.6	251.3	125.6
125.6	0.000	0.000	Strato2_3095_82743_L_0		
67 D	25.53	0.000	255.3 127.6	255.3	127.6
127.6	0.000	0.000	Strato2_3095_82743_L_0		
68 D	25.93	0.000	259.3 129.6	259.3	129.6
129.6	0.000	0.000	Strato2_3095_82743_L_0		
69 D	26.33	0.000	263.3 131.6	263.3	131.6
131.6	0.000	0.000	Strato2_3095_82743_L_0		
70 D	26.73	0.000	267.3 133.6	267.3	133.6
133.6	0.000	0.000	Strato2_3095_82743_L_0		
71 D	27.13	0.000	271.3 135.6	271.3	135.6
135.6	0.000	0.000	Strato2_3095_82743_L_0		
72 D	27.53	0.000	275.3 137.6	275.3	137.6
137.6	0.000	0.000	Strato2_3095_82743_L_0		
73 D	27.93	0.000	279.3 139.6	279.3	139.6
139.6	0.000	0.000	Strato2_3095_82743_L_0		
74 D	28.33	0.000	283.3 141.6	283.3	141.6
141.6	0.000	0.000	Strato2_3095_82743_L_0		
75 D	28.73	0.000	287.3 143.6	287.3	143.6
143.6	0.000	0.000	Strato2_3095_82743_L_0		
76 D	29.13	0.000	291.3 145.6	291.3	145.6
145.6	0.000	0.000	Strato2_3095_82743_L_0		
77 D	29.53	0.000	295.3 147.6	295.3	147.6
147.6	0.000	0.000	Strato2_3095_82743_L_0		
78 D	29.93	0.000	299.3 149.6	299.3	149.6
149.6	0.000	0.000	Strato2_3095_82743_L_0		
79 D	30.33	0.000	303.3 151.6	303.3	151.6
151.6	0.000	0.000	Strato2_3095_82743_L_0		
80 D	30.73	0.000	307.3 153.6	307.3	153.6
153.6	0.000	0.000	Strato2_3095_82743_L_0		
81 D	15.56	0.000	311.3 155.6	311.3	155.6
155.6	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :29 July 2019  18:01:09                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 683 di 1221
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2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000
31	0.0000	0.0000	0.0000	0.0000
32	0.0000	0.0000	0.0000	0.0000
33	0.0000	0.0000	0.0000	0.0000
34	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000
36	0.0000	0.0000	0.0000	0.0000
37	0.0000	0.0000	0.0000	0.0000
38	0.0000	0.0000	0.0000	0.0000
39	0.0000	0.0000	0.0000	0.0000
40	0.0000	0.0000	0.0000	0.0000
41	0.0000	0.0000	0.0000	0.0000
42	0.0000	0.0000	0.0000	0.0000
43	0.0000	0.0000	0.0000	0.0000
44	0.0000	0.0000	0.0000	0.0000
45	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000
47	0.0000	0.0000	0.0000	0.0000
48	0.0000	0.0000	0.0000	0.0000
49	0.0000	0.0000	0.0000	0.0000
50	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	0.0000	0.0000
52	0.0000	0.0000	0.0000	0.0000
53	0.0000	0.0000	0.0000	0.0000
54	0.0000	0.0000	0.0000	0.0000
55	0.0000	0.0000	0.0000	0.0000
56	0.0000	0.0000	0.0000	0.0000
57	0.0000	0.0000	0.0000	0.0000
58	0.0000	0.0000	0.0000	0.0000
59	0.0000	0.0000	0.0000	0.0000
60	0.0000	0.0000	0.0000	0.0000
61	0.0000	0.0000	0.0000	0.0000
62	0.0000	0.0000	0.0000	0.0000
63	0.0000	0.0000	0.0000	0.0000
64	0.0000	0.0000	0.0000	0.0000
65	0.0000	0.0000	0.0000	0.0000
66	0.0000	0.0000	0.0000	0.0000
67	0.0000	0.0000	0.0000	0.0000
68	0.0000	0.0000	0.0000	0.0000
69	0.0000	0.0000	0.0000	0.0000
70	0.0000	0.0000	0.0000	0.0000
71	0.0000	0.0000	0.0000	0.0000
72	0.0000	0.0000	0.0000	0.0000
73	0.0000	0.0000	0.0000	0.0000
74	0.0000	0.0000	0.0000	0.0000
75	0.0000	0.0000	0.0000	0.0000
76	0.0000	0.0000	0.0000	0.0000
77	0.0000	0.0000	0.0000	0.0000
78	0.0000	0.0000	0.0000	0.0000
79	0.0000	0.0000	0.0000	0.0000
80	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
684 di 1221

|
| NewProject.BaseDesignSection_28.Nominal_63 |
Exe Time :29 July 2019 18:01:09

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

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL FORCE d0 EDISPL pl. eps K -ve limit +ve limit

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.5297E+05 RIMNOR= 0.000
RENORM= 40.59 REMNOR= 0.000 RATIO =0.2768E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 31.42 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.5297E+05 RDR = 0.000
RATIOT=0.2768E-01 RATIOR= 0.000
MAX UN=0.7687 IEQ= 15 NODE 8 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=0.5297E+05 RIMNOR= 0.000
RENORM=0.5074E-01 REMNOR=0.1132E-21 RATIO =0.9787E-03 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 31.42 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.5297E+05 RDR = 0.000
RATIOT=0.9787E-03 RATIOR= 0.000
MAX UN=0.2084 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
MIN UN=-.3350E-10 IEQ= 89 NODE 45 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM=0.5297E+05 RIMNOR= 0.000
RENORM=0.6870E-03 REMNOR=0.1550E-22 RATIO =0.1139E-03 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 31.42 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.5297E+05 RDR = 0.000
RATIOT=0.1139E-03 RATIOR= 0.000
MAX UN=0.2580E-01 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F
MIN UN=-.2249E-10 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
RINORM=0.5297E+05 RIMNOR= 0.000
RENORM=0.5174E-08 REMNOR=0.1522E-22 RATIO =0.3126E-06 TOLER =0.1000E-03 CONVERGED !
RFMAX = 31.42 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.5297E+05 RDR = 0.000
RATIOT=0.3126E-06 RATIOR= 0.000
MAX UN=0.4145E-04 IEQ= 119 NODE 60 DOF 1 Y-DISPL.F
MIN UN=-.2401E-10 IEQ= 33 NODE 17 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| | |
| NewProject.BaseDesignSection_28.Nominal_63 |
Exe Time :29 July 2019 18:01:09

New Project

SOLUTION REACHED USING 4 ITERATIONS ON 100

P R I N T O U T F O R T I M E S T E P 2 (AT TIME 2.000)

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

Y-DISPL.F X-ROT. F

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.

Progetto
INORLotto
12Codifica Documento
E E2 CL GA 2701 002Rev.
AFoglio
685 di 1221

	(02)	(04)
1	6.9765915E-05	-1.9399230E-06
2	6.9378411E-05	-1.9327060E-06
3	6.8993796E-05	-1.9110355E-06
4	6.8614787E-05	-1.8775148E-06
5	6.8243259E-05	-1.8369576E-06
6	6.7880224E-05	-1.7930981E-06
7	6.7526064E-05	-1.7485798E-06
8	6.7180712E-05	-1.7052722E-06
9	6.6843789E-05	-1.6644470E-06
10	6.6514603E-05	-1.6285736E-06
11	6.6191793E-05	-1.6012040E-06
12	6.5873364E-05	-1.5851888E-06
13	6.5556810E-05	-1.5827789E-06
14	6.5239230E-05	-1.5956998E-06
15	6.4917425E-05	-1.6252080E-06
16	6.4587986E-05	-1.6721321E-06
17	6.4247320E-05	-1.7378362E-06
18	6.3891476E-05	-1.8241825E-06
19	6.3516178E-05	-1.9325604E-06
20	6.3116920E-05	-2.0639097E-06
21	6.2689049E-05	-2.2187349E-06
22	6.2227856E-05	-2.3971135E-06
23	6.1728657E-05	-2.5986978E-06
24	6.1186884E-05	-2.8227107E-06
25	6.0598120E-05	-3.0685573E-06
26	5.9958037E-05	-3.3357740E-06
27	5.9262451E-05	-3.6233712E-06
28	5.8507431E-05	-3.9298183E-06
29	5.7689411E-05	-4.2530236E-06
30	5.6805287E-05	-4.5903190E-06
31	5.5852563E-05	-4.9384255E-06
32	5.4829425E-05	-5.2939067E-06
33	5.3734751E-05	-5.6531207E-06
34	5.2568219E-05	-6.0116993E-06
35	5.1330462E-05	-6.3645146E-06
36	5.0023198E-05	-6.7056550E-06
37	4.8649427E-05	-7.0283826E-06
38	4.7213578E-05	-7.3251094E-06
39	4.5721682E-05	-7.5873658E-06
40	4.4181538E-05	-7.8061483E-06
41	4.2602766E-05	-7.9718899E-06
42	4.0997021E-05	-8.0740480E-06
43	3.9378154E-05	-8.1010962E-06
44	3.7762424E-05	-8.0405168E-06
45	3.6168698E-05	-7.8788035E-06
46	3.4617400E-05	-7.6197401E-06
47	3.3125914E-05	-7.2839899E-06
48	3.1707678E-05	-6.8901377E-06
49	3.0372645E-05	-6.4544872E-06
50	2.9127733E-05	-5.9911846E-06
51	2.7977214E-05	-5.5123437E-06
52	2.6923169E-05	-5.0282120E-06
53	2.5965738E-05	-4.5472702E-06
54	2.5103587E-05	-4.0764406E-06
55	2.4334105E-05	-3.6214519E-06
56	2.3653637E-05	-3.1869882E-06
57	2.3057707E-05	-2.7765683E-06
58	2.2541241E-05	-2.3926791E-06
59	2.2098761E-05	-2.0369019E-06
60	2.1724554E-05	-1.7100313E-06
61	2.1412814E-05	-1.4121839E-06
62	2.1157761E-05	-1.1431245E-06
63	2.0953678E-05	-9.0235386E-07
64	2.0794994E-05	-6.8896252E-07
65	2.0676351E-05	-5.0170633E-07
66	2.0592670E-05	-3.3907292E-07
67	2.0539195E-05	-1.9934031E-07
68	2.0511532E-05	-8.0628096E-08
69	2.0505676E-05	1.9058490E-08
70	2.0518012E-05	1.0159121E-07
71	2.0545283E-05	1.6869011E-07
72	2.0584576E-05	2.2209957E-07
73	2.0633327E-05	2.6356640E-07
74	2.0689321E-05	2.9482199E-07
75	2.0750688E-05	3.1756821E-07
76	2.0815892E-05	3.3346649E-07
77	2.0883714E-05	3.4394821E-07
78	2.0953190E-05	3.5021106E-07
79	2.1023593E-05	3.5339836E-07
80	2.1094417E-05	3.5459578E-07
81	2.1165371E-05	3.5482906E-07



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 686 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|          |
|          NewProject.BaseDesignSection_28.Nominal_63          |
|          Exe Time :29 July 2019          18:01:09          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0 L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.3040	-6.9766E-05	10.00	3.040	10.00	5.300	ACTIVE	0.000	0.000	0.000	1.000	1.000
3.040	0.000	0.000	Stratol_2_8_L_0									
2 D	0.5569	-6.9378E-05	9.159	2.784	9.159	4.854	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
2.784	0.000	0.000	Stratol_2_8_L_0									
3 D	0.8475	-6.8994E-05	13.94	4.238	13.94	7.388	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
4.238	0.000	0.000	Stratol_2_8_L_0									
4 D	1.268	-6.8615E-05	18.14	6.338	18.14	9.614	UL-RL	4.7747E+04	-0.6000	0.000	1.000	1.000
6.338	0.000	0.000	Stratol_2_8_L_0									
5 D	1.697	-6.8243E-05	22.16	8.485	22.16	11.74	UL-RL	4.7747E+04	-0.8000	0.000	1.000	1.000
8.485	0.000	0.000	Stratol_2_8_L_0									
6 D	2.118	-6.7880E-05	26.09	10.59	26.09	13.83	UL-RL	4.7747E+04	-1.000	0.000	1.000	1.000
10.59	0.000	0.000	Stratol_2_8_L_0									
7 D	2.534	-6.7526E-05	29.98	12.67	29.98	15.89	UL-RL	4.7747E+04	-1.200	0.000	1.000	1.000
12.67	0.000	0.000	Stratol_2_8_L_0									
8 D	2.947	-6.7181E-05	33.85	14.73	33.85	17.94	UL-RL	4.7747E+04	-1.400	0.000	1.000	1.000
14.73	0.000	0.000	Stratol_2_8_L_0									
9 D	3.287	-6.6844E-05	37.03	16.44	37.03	19.63	UL-RL	4.7747E+04	-1.600	0.000	1.000	1.000
16.44	0.000	0.000	Stratol_2_8_L_0									
10 D	3.705	-6.6515E-05	40.95	18.53	40.95	21.70	UL-RL	4.7747E+04	-1.800	0.000	1.000	1.000
18.53	0.000	0.000	Stratol_2_8_L_0									
11 D	4.121	-6.6192E-05	44.84	20.60	44.84	23.77	UL-RL	4.7747E+04	-2.000	0.000	1.000	1.000
20.60	0.000	0.000	Stratol_2_8_L_0									
12 D	4.535	-6.5873E-05	48.72	22.67	48.72	25.82	UL-RL	4.7747E+04	-2.200	0.000	1.000	1.000
22.67	0.000	0.000	Stratol_2_8_L_0									
13 D	4.947	-6.5557E-05	52.58	24.74	52.58	27.87	UL-RL	4.7747E+04	-2.400	0.000	1.000	1.000
24.74	0.000	0.000	Stratol_2_8_L_0									
14 D	5.359	-6.5239E-05	56.43	26.79	56.43	29.91	UL-RL	4.7747E+04	-2.600	0.000	1.000	1.000
26.79	0.000	0.000	Stratol_2_8_L_0									
15 D	5.769	-6.4917E-05	60.28	28.85	60.28	31.95	UL-RL	4.7747E+04	-2.800	0.000	1.000	1.000
28.85	0.000	0.000	Stratol_2_8_L_0									
16 D	6.140	-6.4588E-05	63.75	30.70	63.75	33.79	UL-RL	4.7747E+04	-3.000	0.000	1.000	1.000
30.70	0.000	0.000	Stratol_2_8_L_0									
17 D	6.553	-6.4247E-05	67.61	32.76	67.61	35.83	UL-RL	4.7747E+04	-3.200	0.000	1.000	1.000
32.76	0.000	0.000	Stratol_2_8_L_0									
18 D	6.964	-6.3891E-05	71.46	34.82	71.46	37.87	UL-RL	4.7747E+04	-3.400	0.000	1.000	1.000
34.82	0.000	0.000	Stratol_2_8_L_0									
19 D	7.376	-6.3516E-05	75.30	36.88	75.30	39.91	UL-RL	4.7747E+04	-3.600	0.000	1.000	1.000
36.88	0.000	0.000	Stratol_2_8_L_0									
20 D	7.787	-6.3117E-05	79.14	38.93	79.14	41.95	UL-RL	4.7747E+04	-3.800	0.000	1.000	1.000
38.93	0.000	0.000	Stratol_2_8_L_0									
21 D	8.197	-6.2689E-05	82.98	40.99	82.98	43.98	UL-RL	4.7747E+04	-4.000	0.000	1.000	1.000
40.99	0.000	0.000	Stratol_2_8_L_0									
22 D	8.608	-6.2228E-05	86.81	43.04	86.81	46.01	UL-RL	4.7747E+04	-4.200	0.000	1.000	1.000
43.04	0.000	0.000	Stratol_2_8_L_0									
23 D	9.019	-6.1729E-05	90.64	45.09	90.64	48.04	UL-RL	4.7747E+04	-4.400	0.000	1.000	1.000
45.09	0.000	0.000	Stratol_2_8_L_0									
24 D	9.404	-6.1187E-05	94.23	47.02	94.23	49.94	UL-RL	4.7747E+04	-4.600	0.000	1.000	1.000
47.02	0.000	0.000	Stratol_2_8_L_0									
25 D	9.816	-6.0598E-05	98.06	49.08	98.06	51.97	UL-RL	4.7747E+04	-4.800	0.000	1.000	1.000
49.08	0.000	0.000	Stratol_2_8_L_0									
26 D	10.23	-5.9958E-05	101.9	51.14	101.9	54.01	UL-RL	4.7747E+04	-5.000	0.000	1.000	1.000
51.14	0.000	0.000	Stratol_2_8_L_0									
27 D	10.64	-5.9262E-05	105.7	53.21	105.7	56.04	UL-RL	4.7747E+04	-5.200	0.000	1.000	1.000
53.21	0.000	0.000	Stratol_2_8_L_0									
28 D	11.05	-5.8507E-05	109.6	55.27	109.6	58.06	UL-RL	4.7747E+04	-5.400	0.000	1.000	1.000
55.27	0.000	0.000	Stratol_2_8_L_0									
29 D	11.47	-5.7689E-05	113.4	57.34	113.4	60.09	UL-RL	4.7747E+04	-5.600	0.000	1.000	1.000
57.34	0.000	0.000	Stratol_2_8_L_0									
30 D	11.88	-5.6805E-05	117.2	59.41	117.2	62.12	UL-RL	4.7747E+04	-5.800	0.000	1.000	1.000
59.41	0.000	0.000	Stratol_2_8_L_0									
31 D	12.28	-5.5853E-05	120.8	61.38	120.8	64.05	UL-RL	4.7747E+04	-6.000	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 687 di 1221
61.38	0.000	0.000	Strato1_2_8_L_0				
32 D	12.69	-5.4829E-05	124.7	63.46	124.7	66.07	UL-RL 4.7747E+04 -6.200 0.000 1.000 1.000
63.46	0.000	0.000	Strato1_2_8_L_0				
33 D	13.11	-5.3735E-05	128.5	65.54	128.5	68.10	UL-RL 4.7747E+04 -6.400 0.000 1.000 1.000
65.54	0.000	0.000	Strato1_2_8_L_0				
34 D	13.52	-5.2568E-05	132.3	67.62	132.3	70.13	UL-RL 4.7747E+04 -6.600 0.000 1.000 1.000
67.62	0.000	0.000	Strato1_2_8_L_0				
35 D	13.94	-5.1330E-05	136.1	69.70	136.1	72.15	UL-RL 4.7747E+04 -6.800 0.000 1.000 1.000
69.70	0.000	0.000	Strato1_2_8_L_0				
36 D	14.36	-5.0023E-05	140.0	71.79	140.0	74.18	UL-RL 4.7747E+04 -7.000 0.000 1.000 1.000
71.79	0.000	0.000	Strato1_2_8_L_0				
37 D	14.78	-4.8649E-05	143.8	73.88	143.8	76.20	UL-RL 4.7747E+04 -7.200 0.000 1.000 1.000
73.88	0.000	0.000	Strato1_2_8_L_0				
38 D	15.19	-4.7214E-05	147.6	75.97	147.6	78.23	UL-RL 4.7747E+04 -7.400 0.000 1.000 1.000
75.97	0.000	0.000	Strato1_2_8_L_0				
39 D	15.60	-4.5722E-05	151.3	77.99	151.3	80.17	UL-RL 4.7747E+04 -7.600 0.000 1.000 1.000
77.99	0.000	0.000	Strato1_2_8_L_0				
40 D	16.02	-4.4182E-05	155.1	80.09	155.1	82.20	UL-RL 4.7747E+04 -7.800 0.000 1.000 1.000
80.09	0.000	0.000	Strato1_2_8_L_0				
41 D	16.44	-4.2603E-05	158.9	82.19	158.9	84.22	UL-RL 4.7747E+04 -8.000 0.000 1.000 1.000
82.19	0.000	0.000	Strato1_2_8_L_0				
42 D	16.86	-4.0997E-05	162.7	84.29	162.7	86.25	UL-RL 4.7747E+04 -8.200 0.000 1.000 1.000
84.29	0.000	0.000	Strato1_2_8_L_0				
43 D	17.28	-3.9378E-05	166.5	86.39	166.5	88.27	UL-RL 4.7747E+04 -8.400 0.000 1.000 1.000
86.39	0.000	0.000	Strato1_2_8_L_0				
44 D	17.70	-3.7762E-05	170.4	88.49	170.4	90.29	UL-RL 4.7747E+04 -8.600 0.000 1.000 1.000
88.49	0.000	0.000	Strato1_2_8_L_0				
45 D	16.45	-3.6169E-05	174.3	82.26	174.3	87.14	UL-RL 1.3507E+05 -8.800 0.000 1.000 1.000
82.26	0.000	0.000	Strato2_3095_82743_L_0				
46 D	16.88	-3.4617E-05	178.2	84.41	178.2	89.09	UL-RL 1.3507E+05 -9.000 0.000 1.000 1.000
84.41	0.000	0.000	Strato2_3095_82743_L_0				
47 D	17.32	-3.3126E-05	182.2	86.62	182.2	91.09	UL-RL 1.3507E+05 -9.200 0.000 1.000 1.000
86.62	0.000	0.000	Strato2_3095_82743_L_0				
48 D	17.76	-3.1708E-05	186.2	88.82	186.2	93.10	UL-RL 1.3507E+05 -9.400 0.000 1.000 1.000
88.82	0.000	0.000	Strato2_3095_82743_L_0				
49 D	18.20	-3.0373E-05	190.2	91.01	190.2	95.11	UL-RL 1.3507E+05 -9.600 0.000 1.000 1.000
91.01	0.000	0.000	Strato2_3095_82743_L_0				
50 D	18.64	-2.9128E-05	194.2	93.19	194.2	97.12	UL-RL 1.3507E+05 -9.800 0.000 1.000 1.000
93.19	0.000	0.000	Strato2_3095_82743_L_0				
51 D	19.07	-2.7977E-05	198.3	95.35	198.3	99.13	UL-RL 1.3507E+05 -10.000 0.000 1.000 1.000
95.35	0.000	0.000	Strato2_3095_82743_L_0				
52 D	19.50	-2.6923E-05	202.3	97.50	202.3	101.1	UL-RL 1.3507E+05 -10.200 0.000 1.000 1.000
97.50	0.000	0.000	Strato2_3095_82743_L_0				
53 D	19.93	-2.5966E-05	206.3	99.63	206.3	103.1	UL-RL 1.3507E+05 -10.400 0.000 1.000 1.000
99.63	0.000	0.000	Strato2_3095_82743_L_0				
54 D	20.34	-2.5104E-05	210.2	101.7	210.2	105.1	UL-RL 1.3507E+05 -10.600 0.000 1.000 1.000
101.7	0.000	0.000	Strato2_3095_82743_L_0				
55 D	20.76	-2.4334E-05	214.2	103.8	214.2	107.1	UL-RL 1.3507E+05 -10.800 0.000 1.000 1.000
103.8	0.000	0.000	Strato2_3095_82743_L_0				
56 D	21.18	-2.3654E-05	218.2	105.9	218.2	109.1	UL-RL 1.3507E+05 -11.000 0.000 1.000 1.000
105.9	0.000	0.000	Strato2_3095_82743_L_0				
57 D	21.60	-2.3058E-05	222.2	108.0	222.2	111.1	UL-RL 1.3507E+05 -11.200 0.000 1.000 1.000
108.0	0.000	0.000	Strato2_3095_82743_L_0				
58 D	22.02	-2.2541E-05	226.2	110.1	226.2	113.1	UL-RL 1.3507E+05 -11.400 0.000 1.000 1.000
110.1	0.000	0.000	Strato2_3095_82743_L_0				
59 D	22.43	-2.2099E-05	230.3	112.1	230.3	115.1	UL-RL 1.3507E+05 -11.600 0.000 1.000 1.000
112.1	0.000	0.000	Strato2_3095_82743_L_0				
60 D	22.84	-2.1725E-05	234.3	114.2	234.3	117.1	UL-RL 1.3507E+05 -11.800 0.000 1.000 1.000
114.2	0.000	0.000	Strato2_3095_82743_L_0				
61 D	23.24	-2.1413E-05	238.2	116.2	238.2	119.1	UL-RL 1.3507E+05 -12.000 0.000 1.000 1.000
116.2	0.000	0.000	Strato2_3095_82743_L_0				
62 D	23.65	-2.1158E-05	242.2	118.2	242.2	121.1	UL-RL 1.3507E+05 -12.200 0.000 1.000 1.000
118.2	0.000	0.000	Strato2_3095_82743_L_0				
63 D	24.06	-2.0954E-05	246.2	120.3	246.2	123.1	UL-RL 1.3507E+05 -12.400 0.000 1.000 1.000
120.3	0.000	0.000	Strato2_3095_82743_L_0				
64 D	24.46	-2.0795E-05	250.2	122.3	250.2	125.1	UL-RL 1.3507E+05 -12.600 0.000 1.000 1.000
122.3	0.000	0.000	Strato2_3095_82743_L_0				
65 D	24.87	-2.0676E-05	254.2	124.3	254.2	127.1	UL-RL 1.3507E+05 -12.800 0.000 1.000 1.000
124.3	0.000	0.000	Strato2_3095_82743_L_0				
66 D	25.27	-2.0593E-05	258.2	126.3	258.2	129.1	UL-RL 1.3507E+05 -13.000 0.000 1.000 1.000
126.3	0.000	0.000	Strato2_3095_82743_L_0				
67 D	25.67	-2.0539E-05	262.3	128.4	262.3	131.1	UL-RL 1.3507E+05 -13.200 0.000 1.000 1.000
128.4	0.000	0.000	Strato2_3095_82743_L_0				
68 D	26.07	-2.0512E-05	266.3	130.4	266.3	133.1	UL-RL 1.3507E+05 -13.400 0.000 1.000 1.000
130.4	0.000	0.000	Strato2_3095_82743_L_0				
69 D	26.47	-2.0506E-05	270.2	132.3	270.2	135.1	UL-RL 1.3507E+05 -13.600 0.000 1.000 1.000
132.3	0.000	0.000	Strato2_3095_82743_L_0				
70 D	26.87	-2.0518E-05	274.2	134.3	274.2	137.1	UL-RL 1.3507E+05 -13.800 0.000 1.000 1.000
134.3	0.000	0.000	Strato2_3095_82743_L_0				
71 D	27.27	-2.0545E-05	278.2	136.3	278.2	139.1	UL-RL 1.3507E+05 -14.000 0.000 1.000 1.000
136.3	0.000	0.000	Strato2_3095_82743_L_0				
72 D	27.67	-2.0585E-05	282.2	138.3	282.2	141.1	UL-RL 1.3507E+05 -14.200 0.000 1.000 1.000
138.3	0.000	0.000	Strato2_3095_82743_L_0				
73 D	28.07	-2.0633E-05	286.2	140.3	286.2	143.1	UL-RL 1.3507E+05 -14.400 0.000 1.000 1.000
140.3	0.000	0.000	Strato2_3095_82743_L_0				

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 689 di 1221							
22 D	8.596	6.2228E-05	79.80	42.98	79.80	42.98	V-C	1.1045E+04	-4.200	0.000	1.000	1.000
42.98	0.000	0.000	Strato1_2_8_L_0									
23 D	8.998	6.1729E-05	83.60	44.99	83.60	44.99	V-C	1.1045E+04	-4.400	0.000	1.000	1.000
44.99	0.000	0.000	Strato1_2_8_L_0									
24 D	9.400	6.1187E-05	87.40	47.00	87.40	47.00	V-C	1.1045E+04	-4.600	0.000	1.000	1.000
47.00	0.000	0.000	Strato1_2_8_L_0									
25 D	9.801	6.0598E-05	91.20	49.00	91.20	49.01	UL-RL	3.3134E+04	-4.800	0.000	1.000	1.000
49.00	0.000	0.000	Strato1_2_8_L_0									
26 D	10.20	5.9958E-05	95.00	51.01	95.00	51.01	UL-RL	3.3134E+04	-5.000	0.000	1.000	1.000
51.01	0.000	0.000	Strato1_2_8_L_0									
27 D	10.60	5.9262E-05	98.80	53.02	98.80	53.02	UL-RL	3.3134E+04	-5.200	0.000	1.000	1.000
53.02	0.000	0.000	Strato1_2_8_L_0									
28 D	11.00	5.8507E-05	102.6	55.02	102.6	55.03	UL-RL	3.3134E+04	-5.400	0.000	1.000	1.000
55.02	0.000	0.000	Strato1_2_8_L_0									
29 D	11.41	5.7689E-05	106.4	57.03	106.4	57.03	UL-RL	3.3134E+04	-5.600	0.000	1.000	1.000
57.03	0.000	0.000	Strato1_2_8_L_0									
30 D	11.81	5.6805E-05	110.2	59.03	110.2	59.04	UL-RL	3.3134E+04	-5.800	0.000	1.000	1.000
59.03	0.000	0.000	Strato1_2_8_L_0									
31 D	12.21	5.5853E-05	114.0	61.03	114.0	61.04	UL-RL	3.3134E+04	-6.000	0.000	1.000	1.000
61.03	0.000	0.000	Strato1_2_8_L_0									
32 D	12.61	5.4829E-05	117.8	63.03	117.8	63.04	UL-RL	3.3134E+04	-6.200	0.000	1.000	1.000
63.03	0.000	0.000	Strato1_2_8_L_0									
33 D	13.01	5.3735E-05	121.6	65.04	121.6	65.04	UL-RL	3.3134E+04	-6.400	0.000	1.000	1.000
65.04	0.000	0.000	Strato1_2_8_L_0									
34 D	13.41	5.2568E-05	125.4	67.04	125.4	67.04	UL-RL	3.3134E+04	-6.600	0.000	1.000	1.000
67.04	0.000	0.000	Strato1_2_8_L_0									
35 D	13.81	5.1330E-05	129.2	69.04	129.2	69.05	UL-RL	3.3134E+04	-6.800	0.000	1.000	1.000
69.04	0.000	0.000	Strato1_2_8_L_0									
36 D	14.21	5.0023E-05	133.0	71.04	133.0	71.04	UL-RL	3.3134E+04	-7.000	0.000	1.000	1.000
71.04	0.000	0.000	Strato1_2_8_L_0									
37 D	14.61	4.8649E-05	136.8	73.04	136.8	73.04	UL-RL	3.3134E+04	-7.200	0.000	1.000	1.000
73.04	0.000	0.000	Strato1_2_8_L_0									
38 D	15.01	4.7214E-05	140.6	75.04	140.6	75.04	UL-RL	3.3134E+04	-7.400	0.000	1.000	1.000
75.04	0.000	0.000	Strato1_2_8_L_0									
39 D	15.41	4.5722E-05	144.4	77.03	144.4	77.04	UL-RL	3.3134E+04	-7.600	0.000	1.000	1.000
77.03	0.000	0.000	Strato1_2_8_L_0									
40 D	15.81	4.4182E-05	148.2	79.03	148.2	79.04	UL-RL	3.3134E+04	-7.800	0.000	1.000	1.000
79.03	0.000	0.000	Strato1_2_8_L_0									
41 D	16.21	4.2603E-05	152.0	81.03	152.0	81.03	UL-RL	3.3134E+04	-8.000	0.000	1.000	1.000
81.03	0.000	0.000	Strato1_2_8_L_0									
42 D	16.60	4.0997E-05	155.8	83.02	155.8	83.03	UL-RL	3.3134E+04	-8.200	0.000	1.000	1.000
83.02	0.000	0.000	Strato1_2_8_L_0									
43 D	17.00	3.9378E-05	159.6	85.02	159.6	85.02	UL-RL	3.3134E+04	-8.400	0.000	1.000	1.000
85.02	0.000	0.000	Strato1_2_8_L_0									
44 D	17.40	3.7762E-05	163.4	87.02	163.4	87.02	UL-RL	3.3134E+04	-8.600	0.000	1.000	1.000
87.02	0.000	0.000	Strato1_2_8_L_0									
45 D	16.91	3.6169E-05	167.3	84.53	167.3	84.54	UL-RL	7.3205E+04	-8.800	0.000	1.000	1.000
84.53	0.000	0.000	Strato2_3095_82743_L_0									
46 D	17.30	3.4617E-05	171.3	86.49	171.3	86.50	UL-RL	7.3205E+04	-9.000	0.000	1.000	1.000
86.49	0.000	0.000	Strato2_3095_82743_L_0									
47 D	17.69	3.3126E-05	175.3	88.45	175.3	88.46	UL-RL	7.3205E+04	-9.200	0.000	1.000	1.000
88.45	0.000	0.000	Strato2_3095_82743_L_0									
48 D	18.08	3.1708E-05	179.3	90.42	179.3	90.43	UL-RL	7.3205E+04	-9.400	0.000	1.000	1.000
90.42	0.000	0.000	Strato2_3095_82743_L_0									
49 D	18.48	3.0373E-05	183.3	92.39	183.3	92.39	UL-RL	7.3205E+04	-9.600	0.000	1.000	1.000
92.39	0.000	0.000	Strato2_3095_82743_L_0									
50 D	18.87	2.9128E-05	187.3	94.36	187.3	94.36	UL-RL	7.3205E+04	-9.800	0.000	1.000	1.000
94.36	0.000	0.000	Strato2_3095_82743_L_0									
51 D	19.27	2.7977E-05	191.3	96.33	191.3	96.33	UL-RL	7.3205E+04	-10.000	0.000	1.000	1.000
96.33	0.000	0.000	Strato2_3095_82743_L_0									
52 D	19.66	2.6923E-05	195.3	98.31	195.3	98.31	UL-RL	7.3205E+04	-10.200	0.000	1.000	1.000
98.31	0.000	0.000	Strato2_3095_82743_L_0									
53 D	20.06	2.5966E-05	199.3	100.3	199.3	100.3	UL-RL	7.3205E+04	-10.400	0.000	1.000	1.000
100.3	0.000	0.000	Strato2_3095_82743_L_0									
54 D	20.45	2.5104E-05	203.3	102.3	203.3	102.3	UL-RL	7.3205E+04	-10.600	0.000	1.000	1.000
102.3	0.000	0.000	Strato2_3095_82743_L_0									
55 D	20.85	2.4334E-05	207.3	104.2	207.3	104.2	UL-RL	7.3205E+04	-10.800	0.000	1.000	1.000
104.2	0.000	0.000	Strato2_3095_82743_L_0									
56 D	21.25	2.3654E-05	211.3	106.2	211.3	106.2	UL-RL	7.3205E+04	-11.000	0.000	1.000	1.000
106.2	0.000	0.000	Strato2_3095_82743_L_0									
57 D	21.64	2.3058E-05	215.3	108.2	215.3	108.2	UL-RL	7.3205E+04	-11.200	0.000	1.000	1.000
108.2	0.000	0.000	Strato2_3095_82743_L_0									
58 D	22.04	2.2541E-05	219.3	110.2	219.3	110.2	UL-RL	7.3205E+04	-11.400	0.000	1.000	1.000
110.2	0.000	0.000	Strato2_3095_82743_L_0									
59 D	22.44	2.2099E-05	223.3	112.2	223.3	112.2	V-C	2.4402E+04	-11.600	0.000	1.000	1.000
112.2	0.000	0.000	Strato2_3095_82743_L_0									
60 D	22.84	2.1725E-05	227.3	114.2	227.3	114.2	V-C	2.4402E+04	-11.800	0.000	1.000	1.000
114.2	0.000	0.000	Strato2_3095_82743_L_0									
61 D	23.23	2.1413E-05	231.3	116.2	231.3	116.2	V-C	2.4402E+04	-12.000	0.000	1.000	1.000
116.2	0.000	0.000	Strato2_3095_82743_L_0									
62 D	23.63	2.1158E-05	235.3	118.2	235.3	118.2	V-C	2.4402E+04	-12.200	0.000	1.000	1.000
118.2	0.000	0.000	Strato2_3095_82743_L_0									
63 D	24.03	2.0954E-05	239.3	120.2	239.3	120.2	V-C	2.4402E+04	-12.400	0.000	1.000	1.000
120.2	0.000	0.000	Strato2_3095_82743_L_0									
64 D	24.43	2.0795E-05	243.3	122.2	243.3	122.2	V-C	2.4402E+04	-12.600	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 690 di 1221
122.2	0.000	0.000	Strato2_3095_82743_L_0		
65 D	24.83	2.0676E-05	247.3 124.2	247.3	124.2
124.2	0.000	0.000	Strato2_3095_82743_L_0		
66 D	25.23	2.0593E-05	251.3 126.2	251.3	126.2
126.2	0.000	0.000	Strato2_3095_82743_L_0		
67 D	25.63	2.0539E-05	255.3 128.2	255.3	128.2
128.2	0.000	0.000	Strato2_3095_82743_L_0		
68 D	26.03	2.0512E-05	259.3 130.2	259.3	130.2
130.2	0.000	0.000	Strato2_3095_82743_L_0		
69 D	26.43	2.0506E-05	263.3 132.2	263.3	132.2
132.2	0.000	0.000	Strato2_3095_82743_L_0		
70 D	26.83	2.0518E-05	267.3 134.2	267.3	134.2
134.2	0.000	0.000	Strato2_3095_82743_L_0		
71 D	27.23	2.0545E-05	271.3 136.2	271.3	136.2
136.2	0.000	0.000	Strato2_3095_82743_L_0		
72 D	27.63	2.0585E-05	275.3 138.2	275.3	138.2
138.2	0.000	0.000	Strato2_3095_82743_L_0		
73 D	28.03	2.0633E-05	279.3 140.2	279.3	140.2
140.2	0.000	0.000	Strato2_3095_82743_L_0		
74 D	28.43	2.0689E-05	283.3 142.2	283.3	142.2
142.2	0.000	0.000	Strato2_3095_82743_L_0		
75 D	28.83	2.0751E-05	287.3 144.2	287.3	144.2
144.2	0.000	0.000	Strato2_3095_82743_L_0		
76 D	29.23	2.0816E-05	291.3 146.2	291.3	146.2
146.2	0.000	0.000	Strato2_3095_82743_L_0		
77 D	29.63	2.0884E-05	295.3 148.2	295.3	148.2
148.2	0.000	0.000	Strato2_3095_82743_L_0		
78 D	30.03	2.0953E-05	299.3 150.2	299.3	150.2
150.2	0.000	0.000	Strato2_3095_82743_L_0		
79 D	30.43	2.1024E-05	303.3 152.2	303.3	152.2
152.2	0.000	0.000	Strato2_3095_82743_L_0		
80 D	30.83	2.1094E-05	307.3 154.2	307.3	154.2
154.2	0.000	0.000	Strato2_3095_82743_L_0		
81 D	15.62	2.1165E-05	311.3 156.2	311.3	156.2
156.2	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.Nominal_63          |
|          Exe Time :29 July 2019          18:01:09          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
 CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.30400	-0.30400	-4.06009E-13	6.08000E-02
2	0.30481	-0.30481	-6.08000E-02	0.12176
3	0.19435	-0.19435	-0.12176	0.16063
4	0.10204	-0.10204	-0.16063	0.18104
5	3.70581E-02	-3.70581E-02	-0.18104	0.18845
6	-9.30527E-03	9.30527E-03	-0.18845	0.18659
7	-4.16896E-02	4.16896E-02	-0.18659	0.17825
8	-6.28804E-02	6.28804E-02	-0.17825	0.16568
9	-0.14570	0.14570	-0.16568	0.13654
10	-0.21250	0.21250	-0.13654	9.40374E-02
11	-0.26577	0.26577	-9.40374E-02	4.08827E-02
12	-0.30731	0.30731	-4.08827E-02	-2.05800E-02
13	-0.33846	0.33846	2.05800E-02	-8.82728E-02
14	-0.36023	0.36023	8.82728E-02	-0.16032
15	-0.37337	0.37337	0.16032	-0.23499
16	-0.41770	0.41770	0.23499	-0.31853
17	-0.45180	0.45180	0.31853	-0.40889
18	-0.47623	0.47623	0.40889	-0.50414
19	-0.49138	0.49138	0.50414	-0.60241
20	-0.49748	0.49748	0.60241	-0.70191
21	-0.49464	0.49464	0.70191	-0.80084
22	-0.48284	0.48284	0.80084	-0.89741
23	-0.46196	0.46196	0.89741	-0.98980
24	-0.45769	0.45769	0.98980	-1.0813
25	-0.44247	0.44247	1.0813	-1.1698
26	-0.41601	0.41601	1.1698	-1.2530
27	-0.37799	0.37799	1.2530	-1.3286
28	-0.32798	0.32798	1.3286	-1.3942
29	-0.26547	0.26547	1.3942	-1.4473
30	-0.18992	0.18992	1.4473	-1.4853

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto INOR

Lotto 12

Codifica Documento E E2 CL GA 2701 002

Rev. A

Foglio 691 di 1221

31-0.12072 0.12072 1.4853 -1.5094
 32-3.65247E-02 3.65247E-02 1.5094 -1.5168
 33 6.32929E-02-6.32929E-02 1.5168 -1.5041
 34 0.17940 -0.17940 1.5041 -1.4682
 35 0.31246 -0.31246 1.4682 -1.4057
 36 0.46314 -0.46314 1.4057 -1.3131
 37 0.63208 -0.63208 1.3131 -1.1867
 38 0.81990 -0.81990 1.1867 -1.0227
 39 1.0113 -1.0113 1.0227 -0.82044
 40 1.2230 -1.2230 0.82044 -0.57585
 41 1.4553 -1.4553 0.57585 -0.28478
 42 1.7085 -1.7085 0.28478 5.69165E-02
 43 1.9826 -1.9826 -5.69165E-02 0.45344
 44 2.2775 -2.2775 -0.45344 0.90893
 45 1.8231 -1.8231 -0.90893 1.2736
 46 1.4071 -1.4071 -1.2736 1.5550
 47 1.0403 -1.0403 -1.5550 1.7630
 48 0.72035 -0.72035 -1.7630 1.9071
 49 0.44453 -0.44453 -1.9071 1.9960
 50 0.20989 -0.20989 -1.9960 2.0380
 51 1.33759E-02-1.33759E-02 -2.0380 2.0407
 52-0.14815 0.14815 -2.0407 2.0110
 53-0.27781 0.27781 -2.0110 1.9555
 54-0.38945 0.38945 -1.9555 1.8776
 55-0.47511 0.47511 -1.8776 1.7826
 56-0.53767 0.53767 -1.7826 1.6750
 57-0.57987 0.57987 -1.6750 1.5591
 58-0.60429 0.60429 -1.5591 1.4382
 59-0.61333 0.61333 -1.4382 1.3155
 60-0.60921 0.60921 -1.3155 1.1937
 61-0.60342 0.60342 -1.1937 1.0730
 62-0.58817 0.58817 -1.0730 0.95537
 63-0.56512 0.56512 -0.95537 0.84235
 64-0.53576 0.53576 -0.84235 0.73519
 65-0.50141 0.50141 -0.73519 0.63491
 66-0.46323 0.46323 -0.63491 0.54227
 67-0.42221 0.42221 -0.54227 0.45783
 68-0.37920 0.37920 -0.45783 0.38199
 69-0.34336 0.34336 -0.38199 0.31331
 70-0.30675 0.30675 -0.31331 0.25196
 71-0.26988 0.26988 -0.25196 0.19799
 72-0.23317 0.23317 -0.19799 0.15135
 73-0.19695 0.19695 -0.15135 0.11196
 74-0.16148 0.16148 -0.11196 7.96645E-02
 75-0.12697 0.12697 -7.96645E-02 5.42708E-02
 76-0.10119 0.10119 -5.42708E-02 3.40326E-02
 77-7.65184E-02 7.65184E-02-3.40326E-02 1.87289E-02
 78-5.30315E-02 5.30315E-02-1.87289E-02 8.12258E-03
 79-3.07872E-02 3.07872E-02-8.12258E-03 1.96513E-03
 80-9.82514E-03 9.82514E-03-1.96513E-03-1.61458E-13

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019  18:01:09
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirantel_429 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 CURRENT TIME IS 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.4524E+05 RIMNOR= 172.5
 RENORM= 949.2 REMNOR=0.1522E-22 RATIO =0.1448 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 30.85 RMMAX = 2.041
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
 RDT =0.4524E+05 RDR = 172.5
 RATIO=0.1448 RATIO= 0.000
 MAX UN= 7.391 IEQ= 37 NODE 19 DOF 1 Y-DISPL.F
 MIN UN=-.8973E-11 IEQ= 49 NODE 25 DOF 1 Y-DISPL.F

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INORLotto
12Codifica Documento
E E2 CL GA 2701 002Rev.
AFoglio
692 di 1221

NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.4524E+05 RIMNOR= 172.5
 RENORM= 84.29 REMNOR=0.8051E-20 RATIO =0.4316E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 30.85 RMMAX = 2.041
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
 RDT =0.4524E+05 RDR = 172.5
 RATIOT=0.4316E-01 RATIOR= 0.000
 MAX UN= 3.962 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
 MIN UN=-.5559E-03 IEQ= 53 NODE 27 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.4524E+05 RIMNOR= 172.5
 RENORM= 64.09 REMNOR=0.4465E-19 RATIO =0.3764E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 30.85 RMMAX = 2.041
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
 RDT =0.4524E+05 RDR = 172.5
 RATIOT=0.3764E-01 RATIOR= 0.000
 MAX UN= 4.635 IEQ= 35 NODE 18 DOF 1 Y-DISPL.F
 MIN UN=-.1937E-08 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.4524E+05 RIMNOR= 172.5
 RENORM= 6.552 REMNOR=0.5913E-19 RATIO =0.1203E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 30.85 RMMAX = 2.041
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
 RDT =0.4524E+05 RDR = 172.5
 RATIOT=0.1203E-01 RATIOR= 0.000
 MAX UN= 2.045 IEQ= 51 NODE 26 DOF 1 Y-DISPL.F
 MIN UN=-.1291E-08 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.4524E+05 RIMNOR= 172.5
 RENORM=0.6977E-17 REMNOR=0.2564E-19 RATIO =0.1242E-10 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 30.85 RMMAX = 2.041
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
 RDT =0.4524E+05 RDR = 172.5
 RATIOT=0.1242E-10 RATIOR= 0.000
 MAX UN=0.9474E-09 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
 MIN UN=-.8994E-09 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
693 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      18:01:09                             |
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New Project

SOLUTION REACHED USING 5 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	5.7990062E-03	-8.7842718E-04	
2	5.6233212E-03	-8.7841996E-04	
3	5.4476401E-03	-8.7838509E-04	
4	5.2719713E-03	-8.7828922E-04	
5	5.0963315E-03	-8.7808606E-04	
6	4.9207479E-03	-8.7771742E-04	
7	4.7452602E-03	-8.7711368E-04	
8	4.5699235E-03	-8.7619389E-04	
9	4.3948099E-03	-8.7486591E-04	
10	4.2200111E-03	-8.7302741E-04	
11	4.0456405E-03	-8.7056584E-04	
12	3.8718346E-03	-8.6735738E-04	
13	3.6987563E-03	-8.6326698E-04	
14	3.5265964E-03	-8.5814843E-04	
15	3.3555760E-03	-8.5184440E-04	
16	3.1859489E-03	-8.4418643E-04	
17	3.0180036E-03	-8.3499548E-04	
18	2.8520655E-03	-8.2408199E-04	
19	2.6884990E-03	-8.1124521E-04	
20	2.5277098E-03	-7.9627332E-04	
21	2.3701444E-03	-7.7897985E-04	
22	2.2162785E-03	-7.5927659E-04	
23	2.0665914E-03	-7.3721011E-04	
24	1.9215406E-03	-7.1296186E-04	
25	1.7815359E-03	-6.8678525E-04	
26	1.6469377E-03	-6.5893990E-04	
27	1.5180538E-03	-6.2968709E-04	
28	1.3951392E-03	-5.9929012E-04	
29	1.2783969E-03	-5.6801482E-04	
30	1.1679745E-03	-5.3612910E-04	
31	1.0639681E-03	-5.0390027E-04	
32	9.6642048E-04	-4.7158077E-04	
33	8.7532662E-04	-4.3939873E-04	
34	7.9063816E-04	-4.0755904E-04	
35	7.1226835E-04	-3.7624504E-04	
36	6.4009465E-04	-3.4561942E-04	
37	5.7396506E-04	-3.1582665E-04	
38	5.1370000E-04	-2.8699385E-04	
39	4.5909610E-04	-2.5923229E-04	
40	4.0992941E-04	-2.3263935E-04	
41	3.6595708E-04	-2.0729929E-04	
42	3.2692132E-04	-1.8328491E-04	
43	2.9255060E-04	-1.6065827E-04	
44	2.6256199E-04	-1.3947194E-04	
45	2.3666298E-04	-1.1977025E-04	
46	2.1455360E-04	-1.0157492E-04	
47	1.9593297E-04	-8.4880234E-05	
48	1.8050302E-04	-6.9662871E-05	
49	1.6797188E-04	-5.5884522E-05	
50	1.5805669E-04	-4.3494594E-05	
51	1.5048559E-04	-3.2432350E-05	
52	1.4499989E-04	-2.2629617E-05	
53	1.4135487E-04	-1.4011706E-05	
54	1.3932143E-04	-6.5003710E-06	
55	1.3868634E-04	-1.4774714E-08	
56	1.3925260E-04	5.5269783E-06	
57	1.4083967E-04	1.0206949E-05	
58	1.4328334E-04	1.4106375E-05	
59	1.4643549E-04	1.7304826E-05	
60	1.5016369E-04	1.9879501E-05	
61	1.5435066E-04	2.1904645E-05	
62	1.5889362E-04	2.3450851E-05	
63	1.6370351E-04	2.4584687E-05	
64	1.6870417E-04	2.5368634E-05	
65	1.7383151E-04	2.5860872E-05	
66	1.7903265E-04	2.6115120E-05	
67	1.8426497E-04	2.6180537E-05	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 695 di 1221					
23 D	5.511	-2.0666E-03	90.64	27.56	90.64	48.04	ACTIVE	0.000	-4.400	0.000	1.000	1.000
27.56	0.000	0.000	Strato1_2_8_L_0									
24 D	5.729	-1.9215E-03	94.23	28.65	94.23	49.94	ACTIVE	0.000	-4.600	0.000	1.000	1.000
28.65	0.000	0.000	Strato1_2_8_L_0									
25 D	5.962	-1.7815E-03	98.06	29.81	98.06	51.97	ACTIVE	0.000	-4.800	0.000	1.000	1.000
29.81	0.000	0.000	Strato1_2_8_L_0									
26 D	6.195	-1.6469E-03	101.9	30.98	101.9	54.01	ACTIVE	0.000	-5.000	0.000	1.000	1.000
30.98	0.000	0.000	Strato1_2_8_L_0									
27 D	6.428	-1.5181E-03	105.7	32.14	105.7	56.04	ACTIVE	0.000	-5.200	0.000	1.000	1.000
32.14	0.000	0.000	Strato1_2_8_L_0									
28 D	6.661	-1.3951E-03	109.6	33.30	109.6	58.06	ACTIVE	0.000	-5.400	0.000	1.000	1.000
33.30	0.000	0.000	Strato1_2_8_L_0									
29 D	6.894	-1.2784E-03	113.4	34.47	113.4	60.09	ACTIVE	0.000	-5.600	0.000	1.000	1.000
34.47	0.000	0.000	Strato1_2_8_L_0									
30 D	7.293	-1.1680E-03	117.2	36.46	117.2	62.12	UL-RL	2.0647E+04	-5.800	0.000	1.000	1.000
36.46	0.000	0.000	Strato1_2_8_L_0									
31 D	8.113	-1.0640E-03	120.8	40.56	120.8	64.05	UL-RL	2.0647E+04	-6.000	0.000	1.000	1.000
40.56	0.000	0.000	Strato1_2_8_L_0									
32 D	8.927	-9.6642E-04	124.7	44.63	124.7	66.07	UL-RL	2.0647E+04	-6.200	0.000	1.000	1.000
44.63	0.000	0.000	Strato1_2_8_L_0									
33 D	9.714	-8.7533E-04	128.5	48.57	128.5	68.10	UL-RL	2.0647E+04	-6.400	0.000	1.000	1.000
48.57	0.000	0.000	Strato1_2_8_L_0									
34 D	10.48	-7.9064E-04	132.3	52.38	132.3	70.13	UL-RL	2.0647E+04	-6.600	0.000	1.000	1.000
52.38	0.000	0.000	Strato1_2_8_L_0									
35 D	11.21	-7.1227E-04	136.1	56.06	136.1	72.15	UL-RL	2.0647E+04	-6.800	0.000	1.000	1.000
56.06	0.000	0.000	Strato1_2_8_L_0									
36 D	11.92	-6.4009E-04	140.0	59.61	140.0	74.18	UL-RL	2.0647E+04	-7.000	0.000	1.000	1.000
59.61	0.000	0.000	Strato1_2_8_L_0									
37 D	12.61	-5.7397E-04	143.8	63.04	143.8	76.20	UL-RL	2.0647E+04	-7.200	0.000	1.000	1.000
63.04	0.000	0.000	Strato1_2_8_L_0									
38 D	13.27	-5.1370E-04	147.6	66.34	147.6	78.23	UL-RL	2.0647E+04	-7.400	0.000	1.000	1.000
66.34	0.000	0.000	Strato1_2_8_L_0									
39 D	13.89	-4.5910E-04	151.3	69.45	151.3	80.17	UL-RL	2.0647E+04	-7.600	0.000	1.000	1.000
69.45	0.000	0.000	Strato1_2_8_L_0									
40 D	14.51	-4.0993E-04	155.1	72.54	155.1	82.20	UL-RL	2.0647E+04	-7.800	0.000	1.000	1.000
72.54	0.000	0.000	Strato1_2_8_L_0									
41 D	15.10	-3.6596E-04	158.9	75.51	158.9	84.22	UL-RL	2.0647E+04	-8.000	0.000	1.000	1.000
75.51	0.000	0.000	Strato1_2_8_L_0									
42 D	15.68	-3.2692E-04	162.7	78.39	162.7	86.25	UL-RL	2.0647E+04	-8.200	0.000	1.000	1.000
78.39	0.000	0.000	Strato1_2_8_L_0									
43 D	16.23	-2.9255E-04	166.5	81.16	166.5	88.27	UL-RL	2.0647E+04	-8.400	0.000	1.000	1.000
81.16	0.000	0.000	Strato1_2_8_L_0									
44 D	16.77	-2.6256E-04	170.4	83.85	170.4	90.29	UL-RL	2.0647E+04	-8.600	0.000	1.000	1.000
83.85	0.000	0.000	Strato1_2_8_L_0									
45 D	14.11	-2.3666E-04	174.3	70.55	174.3	87.14	UL-RL	5.8408E+04	-8.800	0.000	1.000	1.000
70.55	0.000	0.000	Strato2_3095_82743_L_0									
46 D	14.78	-2.1455E-04	178.2	73.90	178.2	89.09	UL-RL	5.8408E+04	-9.000	0.000	1.000	1.000
73.90	0.000	0.000	Strato2_3095_82743_L_0									
47 D	15.42	-1.9593E-04	182.2	77.11	182.2	91.09	UL-RL	5.8408E+04	-9.200	0.000	1.000	1.000
77.11	0.000	0.000	Strato2_3095_82743_L_0									
48 D	16.03	-1.8050E-04	186.2	80.13	186.2	93.10	UL-RL	5.8408E+04	-9.400	0.000	1.000	1.000
80.13	0.000	0.000	Strato2_3095_82743_L_0									
49 D	16.59	-1.6797E-04	190.2	82.97	190.2	95.11	UL-RL	5.8408E+04	-9.600	0.000	1.000	1.000
82.97	0.000	0.000	Strato2_3095_82743_L_0									
50 D	17.13	-1.5806E-04	194.2	85.65	194.2	97.12	UL-RL	5.8408E+04	-9.800	0.000	1.000	1.000
85.65	0.000	0.000	Strato2_3095_82743_L_0									
51 D	17.64	-1.5049E-04	198.3	88.19	198.3	99.13	UL-RL	5.8408E+04	-10.00	0.000	1.000	1.000
88.19	0.000	0.000	Strato2_3095_82743_L_0									
52 D	18.12	-1.4500E-04	202.3	90.60	202.3	101.1	UL-RL	5.8408E+04	-10.20	0.000	1.000	1.000
90.60	0.000	0.000	Strato2_3095_82743_L_0									
53 D	18.58	-1.4135E-04	206.3	92.89	206.3	103.1	UL-RL	5.8408E+04	-10.40	0.000	1.000	1.000
92.89	0.000	0.000	Strato2_3095_82743_L_0									
54 D	19.01	-1.3932E-04	210.2	95.03	210.2	105.1	UL-RL	5.8408E+04	-10.60	0.000	1.000	1.000
95.03	0.000	0.000	Strato2_3095_82743_L_0									
55 D	19.43	-1.3869E-04	214.2	97.14	214.2	107.1	UL-RL	5.8408E+04	-10.80	0.000	1.000	1.000
97.14	0.000	0.000	Strato2_3095_82743_L_0									
56 D	19.83	-1.3925E-04	218.2	99.16	218.2	109.1	UL-RL	5.8408E+04	-11.00	0.000	1.000	1.000
99.16	0.000	0.000	Strato2_3095_82743_L_0									
57 D	20.22	-1.4084E-04	222.2	101.1	222.2	111.1	UL-RL	5.8408E+04	-11.20	0.000	1.000	1.000
101.1	0.000	0.000	Strato2_3095_82743_L_0									
58 D	20.61	-1.4328E-04	226.2	103.0	226.2	113.1	UL-RL	5.8408E+04	-11.40	0.000	1.000	1.000
103.0	0.000	0.000	Strato2_3095_82743_L_0									
59 D	20.98	-1.4644E-04	230.3	104.9	230.3	115.1	UL-RL	5.8408E+04	-11.60	0.000	1.000	1.000
104.9	0.000	0.000	Strato2_3095_82743_L_0									
60 D	21.34	-1.5016E-04	234.3	106.7	234.3	117.1	UL-RL	5.8408E+04	-11.80	0.000	1.000	1.000
106.7	0.000	0.000	Strato2_3095_82743_L_0									
61 D	21.69	-1.5435E-04	238.2	108.4	238.2	119.1	UL-RL	5.8408E+04	-12.00	0.000	1.000	1.000
108.4	0.000	0.000	Strato2_3095_82743_L_0									
62 D	22.04	-1.5889E-04	242.2	110.2	242.2	121.1	UL-RL	5.8408E+04	-12.20	0.000	1.000	1.000
110.2	0.000	0.000	Strato2_3095_82743_L_0									
63 D	22.39	-1.6370E-04	246.2	111.9	246.2	123.1	UL-RL	5.8408E+04	-12.40	0.000	1.000	1.000
111.9	0.000	0.000	Strato2_3095_82743_L_0									
64 D	22.73	-1.6870E-04	250.2	113.7	250.2	125.1	UL-RL	5.8408E+04	-12.60	0.000	1.000	1.000
113.7	0.000	0.000	Strato2_3095_82743_L_0									
65 D	23.08	-1.7383E-04	254.2	115.4	254.2	127.1	UL-RL	5.8408E+04	-12.80	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 696 di 1221
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115.4	0.000	0.000	Strato2_3095_82743_L_0									
66 D	23.42	-1.7903E-04	258.2	117.1	258.2	129.1	UL-RL	5.8408E+04	-13.00	0.000	1.000	1.000
117.1	0.000	0.000	Strato2_3095_82743_L_0									
67 D	23.76	-1.8426E-04	262.3	118.8	262.3	131.1	UL-RL	5.8408E+04	-13.20	0.000	1.000	1.000
118.8	0.000	0.000	Strato2_3095_82743_L_0									
68 D	24.10	-1.8950E-04	266.3	120.5	266.3	133.1	UL-RL	5.8408E+04	-13.40	0.000	1.000	1.000
120.5	0.000	0.000	Strato2_3095_82743_L_0									
69 D	24.43	-1.9470E-04	270.2	122.2	270.2	135.1	UL-RL	5.8408E+04	-13.60	0.000	1.000	1.000
122.2	0.000	0.000	Strato2_3095_82743_L_0									
70 D	24.77	-1.9986E-04	274.2	123.9	274.2	137.1	UL-RL	5.8408E+04	-13.80	0.000	1.000	1.000
123.9	0.000	0.000	Strato2_3095_82743_L_0									
71 D	25.11	-2.0496E-04	278.2	125.6	278.2	139.1	UL-RL	5.8408E+04	-14.00	0.000	1.000	1.000
125.6	0.000	0.000	Strato2_3095_82743_L_0									
72 D	25.45	-2.1001E-04	282.2	127.3	282.2	141.1	UL-RL	5.8408E+04	-14.20	0.000	1.000	1.000
127.3	0.000	0.000	Strato2_3095_82743_L_0									
73 D	25.80	-2.1499E-04	286.2	129.0	286.2	143.1	UL-RL	5.8408E+04	-14.40	0.000	1.000	1.000
129.0	0.000	0.000	Strato2_3095_82743_L_0									
74 D	26.14	-2.1992E-04	290.3	130.7	290.3	145.1	UL-RL	5.8408E+04	-14.60	0.000	1.000	1.000
130.7	0.000	0.000	Strato2_3095_82743_L_0									
75 D	26.48	-2.2479E-04	294.3	132.4	294.3	147.1	UL-RL	5.8408E+04	-14.80	0.000	1.000	1.000
132.4	0.000	0.000	Strato2_3095_82743_L_0									
76 D	26.82	-2.2963E-04	298.2	134.1	298.2	149.1	UL-RL	5.8408E+04	-15.00	0.000	1.000	1.000
134.1	0.000	0.000	Strato2_3095_82743_L_0									
77 D	27.16	-2.3442E-04	302.2	135.8	302.2	151.1	UL-RL	5.8408E+04	-15.20	0.000	1.000	1.000
135.8	0.000	0.000	Strato2_3095_82743_L_0									
78 D	27.51	-2.3920E-04	306.2	137.5	306.2	153.1	UL-RL	5.8408E+04	-15.40	0.000	1.000	1.000
137.5	0.000	0.000	Strato2_3095_82743_L_0									
79 D	27.85	-2.4396E-04	310.2	139.3	310.2	155.1	UL-RL	5.8408E+04	-15.60	0.000	1.000	1.000
139.3	0.000	0.000	Strato2_3095_82743_L_0									
80 D	28.19	-2.4871E-04	314.2	141.0	314.2	157.1	UL-RL	5.8408E+04	-15.80	0.000	1.000	1.000
141.0	0.000	0.000	Strato2_3095_82743_L_0									
81 D	14.27	-2.5346E-04	318.2	142.7	318.2	159.1	UL-RL	5.8408E+04	-16.00	0.000	1.000	1.000
142.7	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :29 July 2019  18:01:09                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
CURRENT TIME IS 3.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 697 di 1221
0.000	0.000	0.000	not available		
14	0.000	--	--	--	--
0.000	0.000	0.000	not available		
15	0.000	--	--	--	--
0.000	0.000	0.000	not available		
16	0.000	--	--	--	--
0.000	0.000	0.000	not available		
17	0.000	--	--	--	--
0.000	0.000	0.000	not available		
18	0.000	--	--	--	--
0.000	0.000	0.000	not available		
19	0.000	--	--	--	--
0.000	0.000	0.000	not available		
20 D	1.536	2.5277E-03	1.900 7.678	72.20	38.96
7.678	0.000	0.000	Strato1_2_8_L_0		
21 D	4.607	2.3701E-03	5.700 23.03	76.00	40.97
23.03	0.000	0.000	Strato1_2_8_L_0		
22 D	7.678	2.2163E-03	9.500 38.39	79.80	42.98
38.39	0.000	0.000	Strato1_2_8_L_0		
23 D	10.75	2.0666E-03	13.30 53.75	83.60	53.75
53.75	0.000	0.000	Strato1_2_8_L_0		
24 D	11.18	1.9215E-03	17.10 55.88	87.40	55.88
55.88	0.000	0.000	Strato1_2_8_L_0		
25 D	11.44	1.7815E-03	20.90 57.22	91.20	57.22
57.22	0.000	0.000	Strato1_2_8_L_0		
26 D	11.72	1.6469E-03	24.70 58.59	95.00	58.59
58.59	0.000	0.000	Strato1_2_8_L_0		
27 D	12.00	1.5181E-03	28.50 59.99	98.80	59.99
59.99	0.000	0.000	Strato1_2_8_L_0		
28 D	12.28	1.3951E-03	32.30 61.41	102.6	61.41
61.41	0.000	0.000	Strato1_2_8_L_0		
29 D	12.57	1.2784E-03	36.10 62.86	106.4	62.86
62.86	0.000	0.000	Strato1_2_8_L_0		
30 D	12.87	1.1680E-03	39.90 64.34	110.2	64.34
64.34	0.000	0.000	Strato1_2_8_L_0		
31 D	13.17	1.0640E-03	43.70 65.85	114.0	65.85
65.85	0.000	0.000	Strato1_2_8_L_0		
32 D	13.48	9.6642E-04	47.50 67.39	117.8	67.39
67.39	0.000	0.000	Strato1_2_8_L_0		
33 D	13.79	8.7533E-04	51.30 68.97	121.6	68.97
68.97	0.000	0.000	Strato1_2_8_L_0		
34 D	14.11	7.9064E-04	55.10 70.57	125.4	70.57
70.57	0.000	0.000	Strato1_2_8_L_0		
35 D	14.44	7.1227E-04	58.90 72.20	129.2	72.20
72.20	0.000	0.000	Strato1_2_8_L_0		
36 D	14.77	6.4009E-04	62.70 73.86	133.0	73.86
73.86	0.000	0.000	Strato1_2_8_L_0		
37 D	15.11	5.7397E-04	66.50 75.55	136.8	75.55
75.55	0.000	0.000	Strato1_2_8_L_0		
38 D	15.45	5.1370E-04	70.30 77.27	140.6	77.27
77.27	0.000	0.000	Strato1_2_8_L_0		
39 D	15.80	4.5910E-04	74.10 79.01	144.4	79.01
79.01	0.000	0.000	Strato1_2_8_L_0		
40 D	16.16	4.0993E-04	77.90 80.78	148.2	80.78
80.78	0.000	0.000	Strato1_2_8_L_0		
41 D	16.51	3.6596E-04	81.70 82.57	152.0	82.57
82.57	0.000	0.000	Strato1_2_8_L_0		
42 D	16.88	3.2692E-04	85.50 84.39	155.8	84.39
84.39	0.000	0.000	Strato1_2_8_L_0		
43 D	17.25	2.9255E-04	89.30 86.23	159.6	86.23
86.23	0.000	0.000	Strato1_2_8_L_0		
44 D	17.62	2.6256E-04	93.10 88.09	163.4	88.09
88.09	0.000	0.000	Strato1_2_8_L_0		
45 D	14.18	2.3666E-04	97.00 70.92	167.3	84.54
70.92	0.000	0.000	Strato2_3095_82743_L_0		
46 D	14.46	2.1455E-04	101.0 72.30	171.3	86.50
72.30	0.000	0.000	Strato2_3095_82743_L_0		
47 D	14.76	1.9593E-04	105.0 73.79	175.3	88.46
73.79	0.000	0.000	Strato2_3095_82743_L_0		
48 D	15.08	1.8050E-04	109.0 75.38	179.3	90.43
75.38	0.000	0.000	Strato2_3095_82743_L_0		
49 D	15.41	1.6797E-04	113.0 77.05	183.3	92.39
77.05	0.000	0.000	Strato2_3095_82743_L_0		
50 D	15.76	1.5806E-04	117.0 78.81	187.3	94.36
78.81	0.000	0.000	Strato2_3095_82743_L_0		
51 D	16.13	1.5049E-04	121.0 80.63	191.3	96.33
80.63	0.000	0.000	Strato2_3095_82743_L_0		
52 D	16.50	1.4500E-04	125.0 82.52	195.3	98.31
82.52	0.000	0.000	Strato2_3095_82743_L_0		
53 D	16.89	1.4135E-04	129.0 84.46	199.3	100.3
84.46	0.000	0.000	Strato2_3095_82743_L_0		
54 D	17.29	1.3932E-04	133.0 86.44	203.3	102.3
86.44	0.000	0.000	Strato2_3095_82743_L_0		
55 D	17.69	1.3869E-04	137.0 88.47	207.3	104.2
88.47	0.000	0.000	Strato2_3095_82743_L_0		



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 698 di 1221
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56 D	18.11	1.3925E-04	141.0	90.54	211.3	106.2	UL-RL	3.1656E+04	-11.00	0.000	1.000	1.000
90.54	0.000	0.000	Strato2_3095_82743_L_0									
57 D	18.53	1.4084E-04	145.0	92.63	215.3	108.2	UL-RL	3.1656E+04	-11.20	0.000	1.000	1.000
92.63	0.000	0.000	Strato2_3095_82743_L_0									
58 D	18.95	1.4328E-04	149.0	94.75	219.3	110.2	UL-RL	3.1656E+04	-11.40	0.000	1.000	1.000
94.75	0.000	0.000	Strato2_3095_82743_L_0									
59 D	19.38	1.4644E-04	153.0	96.89	223.3	112.2	UL-RL	3.1656E+04	-11.60	0.000	1.000	1.000
96.89	0.000	0.000	Strato2_3095_82743_L_0									
60 D	19.81	1.5016E-04	157.0	99.05	227.3	114.2	UL-RL	3.1656E+04	-11.80	0.000	1.000	1.000
99.05	0.000	0.000	Strato2_3095_82743_L_0									
61 D	20.24	1.5435E-04	161.0	101.2	231.3	116.2	UL-RL	3.1656E+04	-12.00	0.000	1.000	1.000
101.2	0.000	0.000	Strato2_3095_82743_L_0									
62 D	20.68	1.5889E-04	165.0	103.4	235.3	118.2	UL-RL	3.1656E+04	-12.20	0.000	1.000	1.000
103.4	0.000	0.000	Strato2_3095_82743_L_0									
63 D	21.12	1.6370E-04	169.0	105.6	239.3	120.2	UL-RL	3.1656E+04	-12.40	0.000	1.000	1.000
105.6	0.000	0.000	Strato2_3095_82743_L_0									
64 D	21.55	1.6870E-04	173.0	107.8	243.3	122.2	UL-RL	3.1656E+04	-12.60	0.000	1.000	1.000
107.8	0.000	0.000	Strato2_3095_82743_L_0									
65 D	21.99	1.7383E-04	177.0	110.0	247.3	124.2	UL-RL	3.1656E+04	-12.80	0.000	1.000	1.000
110.0	0.000	0.000	Strato2_3095_82743_L_0									
66 D	22.43	1.7903E-04	181.0	112.2	251.3	126.2	UL-RL	3.1656E+04	-13.00	0.000	1.000	1.000
112.2	0.000	0.000	Strato2_3095_82743_L_0									
67 D	22.87	1.8426E-04	185.0	114.3	255.3	128.2	UL-RL	3.1656E+04	-13.20	0.000	1.000	1.000
114.3	0.000	0.000	Strato2_3095_82743_L_0									
68 D	23.31	1.8950E-04	189.0	116.5	259.3	130.2	UL-RL	3.1656E+04	-13.40	0.000	1.000	1.000
116.5	0.000	0.000	Strato2_3095_82743_L_0									
69 D	23.75	1.9470E-04	193.0	118.7	263.3	132.2	UL-RL	3.1656E+04	-13.60	0.000	1.000	1.000
118.7	0.000	0.000	Strato2_3095_82743_L_0									
70 D	24.18	1.9986E-04	197.0	120.9	267.3	134.2	UL-RL	3.1656E+04	-13.80	0.000	1.000	1.000
120.9	0.000	0.000	Strato2_3095_82743_L_0									
71 D	24.62	2.0496E-04	201.0	123.1	271.3	136.2	UL-RL	3.1656E+04	-14.00	0.000	1.000	1.000
123.1	0.000	0.000	Strato2_3095_82743_L_0									
72 D	25.06	2.1001E-04	205.0	125.3	275.3	138.2	UL-RL	3.1656E+04	-14.20	0.000	1.000	1.000
125.3	0.000	0.000	Strato2_3095_82743_L_0									
73 D	25.49	2.1499E-04	209.0	127.5	279.3	140.2	UL-RL	3.1656E+04	-14.40	0.000	1.000	1.000
127.5	0.000	0.000	Strato2_3095_82743_L_0									
74 D	25.93	2.1992E-04	213.0	129.6	283.3	142.2	UL-RL	3.1656E+04	-14.60	0.000	1.000	1.000
129.6	0.000	0.000	Strato2_3095_82743_L_0									
75 D	26.36	2.2479E-04	217.0	131.8	287.3	144.2	UL-RL	3.1656E+04	-14.80	0.000	1.000	1.000
131.8	0.000	0.000	Strato2_3095_82743_L_0									
76 D	26.80	2.2963E-04	221.0	134.0	291.3	146.2	UL-RL	3.1656E+04	-15.00	0.000	1.000	1.000
134.0	0.000	0.000	Strato2_3095_82743_L_0									
77 D	27.23	2.3442E-04	225.0	136.2	295.3	148.2	UL-RL	3.1656E+04	-15.20	0.000	1.000	1.000
136.2	0.000	0.000	Strato2_3095_82743_L_0									
78 D	27.66	2.3920E-04	229.0	138.3	299.3	150.2	UL-RL	3.1656E+04	-15.40	0.000	1.000	1.000
138.3	0.000	0.000	Strato2_3095_82743_L_0									
79 D	28.10	2.4396E-04	233.0	140.5	303.3	152.2	UL-RL	3.1656E+04	-15.60	0.000	1.000	1.000
140.5	0.000	0.000	Strato2_3095_82743_L_0									
80 D	28.53	2.4871E-04	237.0	142.7	307.3	154.2	UL-RL	3.1656E+04	-15.80	0.000	1.000	1.000
142.7	0.000	0.000	Strato2_3095_82743_L_0									
81 D	14.48	2.5346E-04	241.0	144.8	311.3	156.2	UL-RL	3.1656E+04	-16.00	0.000	1.000	1.000
144.8	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*      |
|                                                                                                     |
|                               NewProject.BaseDesignSection_28.Nominal_63                             |
|                               Exe Time :29 July 2019  18:01:09                                     |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
 CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.30400	-0.30400	3.09147E-11	6.08000E-02
2	0.86087	-0.86087	-6.08000E-02	0.23297
3	1.7084	-1.7084	-0.23297	0.57465
4	2.8113	-2.8113	-0.57465	1.1369
5	4.1585	-4.1585	-1.1369	1.9686
6	5.7449	-5.7449	-1.9686	3.1176
7	7.5680	-7.5680	-3.1176	4.6312
8	9.6262	-9.6262	-4.6312	6.5564
9	11.878	-11.878	-6.5564	8.9320
10	14.367	-14.367	-8.9320	11.805

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 699 di 1221
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11	17.094	-17.094	-11.805	15.224
12	20.056	-20.056	-15.224	19.235
13	23.252	-23.252	-19.235	23.886
14	26.683	-26.683	-23.886	29.223
15	30.348	-30.348	-29.223	35.292
16	34.224	-34.224	-35.292	42.137
17	38.334	-38.334	-42.137	49.804
18	42.679	-42.679	-49.804	58.340
19	47.257	-47.257	-58.340	67.791
20	50.534	-50.534	-67.791	77.898
21	50.972	-50.972	-77.898	88.092
22	48.573	-48.573	-88.092	97.807
23	43.335	-43.335	-97.807	106.47
24	37.887	-37.887	-106.47	114.05
25	32.405	-32.405	-114.05	120.53
26	26.882	-26.882	-120.53	125.91
27	21.313	-21.313	-125.91	130.17
28	15.692	-15.692	-130.17	133.31
29	10.014	-10.014	-133.31	135.31
30	4.4386	-4.4386	-135.31	136.20
31	-0.61908	0.61908	-136.20	136.08
32	-5.1710	5.1710	-136.08	135.04
33	-9.2496	9.2496	-135.04	133.19
34	-12.887	12.887	-133.19	130.61
35	-16.116	16.116	-130.61	127.39
36	-18.966	18.966	-127.39	123.60
37	-21.469	21.469	-123.60	119.30
38	-23.654	23.654	-119.30	114.57
39	-25.566	25.566	-114.57	109.46
40	-27.214	27.214	-109.46	104.02
41	-28.627	28.627	-104.02	98.292
42	-29.828	29.828	-98.292	92.326
43	-30.842	30.842	-92.326	86.158
44	-31.691	31.691	-86.158	79.820
45	-31.765	31.765	-79.820	73.467
46	-31.446	31.446	-73.467	67.178
47	-30.782	30.782	-67.178	61.021
48	-29.833	29.833	-61.021	55.055
49	-28.649	28.649	-55.055	49.325
50	-27.279	27.279	-49.325	43.869
51	-25.767	25.767	-43.869	38.716
52	-24.150	24.150	-38.716	33.886
53	-22.462	22.462	-33.886	29.393
54	-20.745	20.745	-29.393	25.245
55	-19.012	19.012	-25.245	21.442
56	-17.288	17.288	-21.442	17.984
57	-15.591	15.591	-17.984	14.866
58	-13.936	13.936	-14.866	12.079
59	-12.339	12.339	-12.079	9.6113
60	-10.809	10.809	-9.6113	7.4495
61	-9.3652	9.3652	-7.4495	5.5765
62	-8.0049	8.0049	-5.5765	3.9755
63	-6.7333	6.7333	-3.9755	2.6289
64	-5.5543	5.5543	-2.6289	1.5180
65	-4.4705	4.4705	-1.5180	0.62391
66	-3.4835	3.4835	-0.62391	-7.27968E-02
67	-2.5943	2.5943	7.27968E-02	-0.59165
68	-1.8028	1.8028	0.59165	-0.95221
69	-1.1173	1.1173	0.95221	-1.1757
70	-0.52846	0.52846	1.1757	-1.2814
71	-3.54059E-02	3.54059E-02	1.2814	-1.2884
72	0.36291	-0.36291	1.2884	-1.2159
73	0.66756	-0.66756	1.2159	-1.0824
74	0.87958	-0.87958	1.0824	-0.90643
75	0.99993	-0.99993	0.90643	-0.70645
76	1.0218	-1.0218	0.70645	-0.50209
77	0.95355	-0.95355	0.50209	-0.31138
78	0.79572	-0.79572	0.31138	-0.15224
79	0.54865	-0.54865	0.15224	-4.25069E-02
80	0.21252	-0.21252	4.25069E-02	-1.09937E-12

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :29 July 2019  18:01:09                                                                                               |
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New Project

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
700 di 1221

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL FORCE d0 EDISPL pl. eps K -ve limit +ve limit

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1300E+06 RIMNOR=0.7545E+06
RENORM= 8234. REMNOR=0.2564E-19 RATIO =0.2516 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 90.74 RMMAX = 136.2
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.1300E+06 RDR =0.7545E+06
RATIOT=0.2516 RATOR= 0.000
MAX UN=0.9474E-09 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
MIN UN=-90.74 IEQ= 33 NODE 17 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1300E+06 RIMNOR=0.7545E+06
RENORM= 9.390 REMNOR=0.1956E-19 RATIO =0.8498E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 90.74 RMMAX = 136.2
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.1300E+06 RDR =0.7545E+06
RATIOT=0.8498E-02 RATOR= 0.000
MAX UN=0.6921E-09 IEQ= 29 NODE 15 DOF 1 Y-DISPL.F
MIN UN=-1.406 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1300E+06 RIMNOR=0.7545E+06
RENORM=0.1496 REMNOR=0.1776E-19 RATIO =0.1073E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 90.74 RMMAX = 136.2
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.1300E+06 RDR =0.7545E+06
RATIOT=0.1073E-02 RATOR= 0.000
MAX UN=0.6619E-09 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
MIN UN=-.3443 IEQ= 29 NODE 15 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1300E+06 RIMNOR=0.7545E+06
RENORM=0.4677E-04 REMNOR=0.2424E-19 RATIO =0.1897E-04 TOLER =0.1000E-03 CONVERGED !
RFMAX = 90.74 RMMAX = 136.2
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.1300E+06 RDR =0.7545E+06
RATIOT=0.1897E-04 RATOR= 0.000
MAX UN=0.8744E-09 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
MIN UN=-.6839E-02 IEQ= 33 NODE 17 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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| PARATIEPLUS(TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| |
| NewProject.BaseDesignSection_28.Nominal_63 |
| Exe Time :29 July 2019 18:01:09 |
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New Project
SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 4 (AT TIME 4.000)

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

Y-DISPL.F X-ROT. F
(02) (04) (
1 4.7831847E-03 -8.0851834E-04
2 4.6214829E-03 -8.0849095E-04
3 4.4597955E-03 -8.0835626E-04
4 4.2981552E-03 -8.0799940E-04
5 4.1366194E-03 -8.0728700E-04
6 3.9752741E-03 -8.0606889E-04
7 3.8142367E-03 -8.0417866E-04
8 3.6536596E-03 -8.0143391E-04

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 701 di 1221
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9	3.4937333E-03	-7.9763648E-04
10	3.3346893E-03	-7.9257395E-04
11	3.1768032E-03	-7.8601961E-04
12	3.0203971E-03	-7.7773092E-04
13	2.8658436E-03	-7.6744971E-04
14	2.7135683E-03	-7.5490228E-04
15	2.5640531E-03	-7.3979950E-04
16	2.4178392E-03	-7.2183699E-04
17	2.2755302E-03	-7.0069605E-04
18	2.1376512E-03	-6.7819776E-04
19	2.0042208E-03	-6.5615275E-04
20	1.8751832E-03	-6.3421205E-04
21	1.7505525E-03	-6.1202443E-04
22	1.6304091E-03	-5.8930113E-04
23	1.5148780E-03	-5.6588852E-04
24	1.4041007E-03	-5.4177911E-04
25	1.2982083E-03	-5.1704880E-04
26	1.1973164E-03	-4.9179100E-04
27	1.1015200E-03	-4.6611205E-04
28	1.0108916E-03	-4.4013145E-04
29	9.2547907E-04	-4.1398198E-04
30	8.4530083E-04	-3.8780921E-04
31	7.7034660E-04	-3.6176823E-04
32	7.0057475E-04	-3.3600912E-04
33	6.3591515E-04	-3.1066711E-04
34	5.7627204E-04	-2.8586319E-04
35	5.2152707E-04	-2.6170530E-04
36	4.7154076E-04	-2.3828894E-04
37	4.2615641E-04	-2.1569888E-04
38	3.8520115E-04	-1.9400967E-04
39	3.4848812E-04	-1.7328674E-04
40	3.1581835E-04	-1.5358770E-04
41	2.8698159E-04	-1.3496288E-04
42	2.6175865E-04	-1.1745632E-04
43	2.3992197E-04	-1.0110613E-04
44	2.2123691E-04	-8.5945329E-05
45	2.0546271E-04	-7.2002607E-05
46	1.9235464E-04	-5.9279537E-05
47	1.8167149E-04	-4.7747551E-05
48	1.7317881E-04	-3.7367724E-05
49	1.6665076E-04	-2.8092520E-05
50	1.6187180E-04	-1.9867631E-05
51	1.5863769E-04	-1.2633425E-05
52	1.5675663E-04	-6.3267595E-06
53	1.5604959E-04	-8.8159892E-07
54	1.5635102E-04	3.7690646E-06
55	1.5750874E-04	7.6925016E-06
56	1.5938398E-04	1.0955276E-05
57	1.6185117E-04	1.3622793E-05
58	1.6479765E-04	1.5758693E-05
59	1.6812329E-04	1.7424363E-05
60	1.7173996E-04	1.8678525E-05
61	1.7557099E-04	1.9576926E-05
62	1.7955050E-04	2.0171856E-05
63	1.8362274E-04	2.0511976E-05
64	1.8774131E-04	2.0642415E-05
65	1.9186850E-04	2.0604693E-05
66	1.9597451E-04	2.0436677E-05
67	2.0003676E-04	2.0172567E-05
68	2.0403916E-04	1.9842917E-05
69	2.0797135E-04	1.9474663E-05
70	2.1182800E-04	1.9090973E-05
71	2.1560801E-04	1.8711307E-05
72	2.1931386E-04	1.8351677E-05
73	2.2295086E-04	1.8024713E-05
74	2.2652654E-04	1.7739718E-05
75	2.3004995E-04	1.7502729E-05
76	2.3353102E-04	1.7316562E-05
77	2.3697993E-04	1.7180674E-05
78	2.4040638E-04	1.7091202E-05
79	2.4381904E-04	1.7041168E-05
80	2.4722481E-04	1.7020506E-05
81	2.5062849E-04	1.7016066E-05

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| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                       |
|                                         NewProject.BaseDesignSection_28.Nominal_63 |
|                                         Exe Time :29 July 2019    18:01:09 |
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GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



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GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 703 di 1221							
36 D	12.62	-4.7154E-04	140.0	63.09	140.0	74.18	UL-RL	2.0647E+04	-7.000	0.000	1.000	1.000
63.09	0.000	0.000	Strato1_2_8_L_0									
37 D	13.22	-4.2616E-04	143.8	66.09	143.8	76.20	UL-RL	2.0647E+04	-7.200	0.000	1.000	1.000
66.09	0.000	0.000	Strato1_2_8_L_0									
38 D	13.80	-3.8520E-04	147.6	69.00	147.6	78.23	UL-RL	2.0647E+04	-7.400	0.000	1.000	1.000
69.00	0.000	0.000	Strato1_2_8_L_0									
39 D	14.35	-3.4849E-04	151.3	71.74	151.3	80.17	UL-RL	2.0647E+04	-7.600	0.000	1.000	1.000
71.74	0.000	0.000	Strato1_2_8_L_0									
40 D	14.90	-3.1582E-04	155.1	74.48	155.1	82.20	UL-RL	2.0647E+04	-7.800	0.000	1.000	1.000
74.48	0.000	0.000	Strato1_2_8_L_0									
41 D	15.43	-2.8698E-04	158.9	77.14	158.9	84.22	UL-RL	2.0647E+04	-8.000	0.000	1.000	1.000
77.14	0.000	0.000	Strato1_2_8_L_0									
42 D	15.95	-2.6176E-04	162.7	79.73	162.7	86.25	UL-RL	2.0647E+04	-8.200	0.000	1.000	1.000
79.73	0.000	0.000	Strato1_2_8_L_0									
43 D	16.45	-2.3992E-04	166.5	82.25	166.5	88.27	UL-RL	2.0647E+04	-8.400	0.000	1.000	1.000
82.25	0.000	0.000	Strato1_2_8_L_0									
44 D	16.94	-2.2124E-04	170.4	84.70	170.4	90.29	UL-RL	2.0647E+04	-8.600	0.000	1.000	1.000
84.70	0.000	0.000	Strato1_2_8_L_0									
45 D	14.47	-2.0546E-04	174.3	72.37	174.3	87.14	UL-RL	5.8408E+04	-8.800	0.000	1.000	1.000
72.37	0.000	0.000	Strato2_3095_82743_L_0									
46 D	15.04	-1.9235E-04	178.2	75.20	178.2	89.09	UL-RL	5.8408E+04	-9.000	0.000	1.000	1.000
75.20	0.000	0.000	Strato2_3095_82743_L_0									
47 D	15.59	-1.8167E-04	182.2	77.94	182.2	91.09	UL-RL	5.8408E+04	-9.200	0.000	1.000	1.000
77.94	0.000	0.000	Strato2_3095_82743_L_0									
48 D	16.11	-1.7318E-04	186.2	80.56	186.2	93.10	UL-RL	5.8408E+04	-9.400	0.000	1.000	1.000
80.56	0.000	0.000	Strato2_3095_82743_L_0									
49 D	16.61	-1.6665E-04	190.2	83.05	190.2	95.11	UL-RL	5.8408E+04	-9.600	0.000	1.000	1.000
83.05	0.000	0.000	Strato2_3095_82743_L_0									
50 D	17.09	-1.6187E-04	194.2	85.43	194.2	97.12	UL-RL	5.8408E+04	-9.800	0.000	1.000	1.000
85.43	0.000	0.000	Strato2_3095_82743_L_0									
51 D	17.54	-1.5864E-04	198.3	87.72	198.3	99.13	UL-RL	5.8408E+04	-10.000	0.000	1.000	1.000
87.72	0.000	0.000	Strato2_3095_82743_L_0									
52 D	17.98	-1.5676E-04	202.3	89.91	202.3	101.1	UL-RL	5.8408E+04	-10.200	0.000	1.000	1.000
89.91	0.000	0.000	Strato2_3095_82743_L_0									
53 D	18.41	-1.5605E-04	206.3	92.04	206.3	103.1	UL-RL	5.8408E+04	-10.400	0.000	1.000	1.000
92.04	0.000	0.000	Strato2_3095_82743_L_0									
54 D	18.81	-1.5635E-04	210.2	94.04	210.2	105.1	UL-RL	5.8408E+04	-10.600	0.000	1.000	1.000
94.04	0.000	0.000	Strato2_3095_82743_L_0									
55 D	19.21	-1.5751E-04	214.2	96.04	214.2	107.1	UL-RL	5.8408E+04	-10.800	0.000	1.000	1.000
96.04	0.000	0.000	Strato2_3095_82743_L_0									
56 D	19.60	-1.5938E-04	218.2	97.99	218.2	109.1	UL-RL	5.8408E+04	-11.000	0.000	1.000	1.000
97.99	0.000	0.000	Strato2_3095_82743_L_0									
57 D	19.98	-1.6185E-04	222.2	99.89	222.2	111.1	UL-RL	5.8408E+04	-11.200	0.000	1.000	1.000
99.89	0.000	0.000	Strato2_3095_82743_L_0									
58 D	20.35	-1.6480E-04	226.2	101.8	226.2	113.1	UL-RL	5.8408E+04	-11.400	0.000	1.000	1.000
101.8	0.000	0.000	Strato2_3095_82743_L_0									
59 D	20.72	-1.6812E-04	230.3	103.6	230.3	115.1	UL-RL	5.8408E+04	-11.600	0.000	1.000	1.000
103.6	0.000	0.000	Strato2_3095_82743_L_0									
60 D	21.09	-1.7174E-04	234.3	105.4	234.3	117.1	UL-RL	5.8408E+04	-11.800	0.000	1.000	1.000
105.4	0.000	0.000	Strato2_3095_82743_L_0									
61 D	21.44	-1.7557E-04	238.2	107.2	238.2	119.1	UL-RL	5.8408E+04	-12.000	0.000	1.000	1.000
107.2	0.000	0.000	Strato2_3095_82743_L_0									
62 D	21.80	-1.7955E-04	242.2	109.0	242.2	121.1	UL-RL	5.8408E+04	-12.200	0.000	1.000	1.000
109.0	0.000	0.000	Strato2_3095_82743_L_0									
63 D	22.16	-1.8362E-04	246.2	110.8	246.2	123.1	UL-RL	5.8408E+04	-12.400	0.000	1.000	1.000
110.8	0.000	0.000	Strato2_3095_82743_L_0									
64 D	22.51	-1.8774E-04	250.2	112.6	250.2	125.1	UL-RL	5.8408E+04	-12.600	0.000	1.000	1.000
112.6	0.000	0.000	Strato2_3095_82743_L_0									
65 D	22.87	-1.9187E-04	254.2	114.3	254.2	127.1	UL-RL	5.8408E+04	-12.800	0.000	1.000	1.000
114.3	0.000	0.000	Strato2_3095_82743_L_0									
66 D	23.22	-1.9597E-04	258.2	116.1	258.2	129.1	UL-RL	5.8408E+04	-13.000	0.000	1.000	1.000
116.1	0.000	0.000	Strato2_3095_82743_L_0									
67 D	23.57	-2.0004E-04	262.3	117.9	262.3	131.1	UL-RL	5.8408E+04	-13.200	0.000	1.000	1.000
117.9	0.000	0.000	Strato2_3095_82743_L_0									
68 D	23.93	-2.0404E-04	266.3	119.6	266.3	133.1	UL-RL	5.8408E+04	-13.400	0.000	1.000	1.000
119.6	0.000	0.000	Strato2_3095_82743_L_0									
69 D	24.28	-2.0797E-04	270.2	121.4	270.2	135.1	UL-RL	5.8408E+04	-13.600	0.000	1.000	1.000
121.4	0.000	0.000	Strato2_3095_82743_L_0									
70 D	24.63	-2.1183E-04	274.2	123.2	274.2	137.1	UL-RL	5.8408E+04	-13.800	0.000	1.000	1.000
123.2	0.000	0.000	Strato2_3095_82743_L_0									
71 D	24.99	-2.1561E-04	278.2	124.9	278.2	139.1	UL-RL	5.8408E+04	-14.000	0.000	1.000	1.000
124.9	0.000	0.000	Strato2_3095_82743_L_0									
72 D	25.35	-2.1931E-04	282.2	126.7	282.2	141.1	UL-RL	5.8408E+04	-14.200	0.000	1.000	1.000
126.7	0.000	0.000	Strato2_3095_82743_L_0									
73 D	25.70	-2.2295E-04	286.2	128.5	286.2	143.1	UL-RL	5.8408E+04	-14.400	0.000	1.000	1.000
128.5	0.000	0.000	Strato2_3095_82743_L_0									
74 D	26.06	-2.2653E-04	290.3	130.3	290.3	145.1	UL-RL	5.8408E+04	-14.600	0.000	1.000	1.000
130.3	0.000	0.000	Strato2_3095_82743_L_0									
75 D	26.42	-2.3005E-04	294.3	132.1	294.3	147.1	UL-RL	5.8408E+04	-14.800	0.000	1.000	1.000
132.1	0.000	0.000	Strato2_3095_82743_L_0									
76 D	26.77	-2.3353E-04	298.2	133.9	298.2	149.1	UL-RL	5.8408E+04	-15.000	0.000	1.000	1.000
133.9	0.000	0.000	Strato2_3095_82743_L_0									
77 D	27.13	-2.3698E-04	302.2	135.7	302.2	151.1	UL-RL	5.8408E+04	-15.200	0.000	1.000	1.000
135.7	0.000	0.000	Strato2_3095_82743_L_0									
78 D	27.49	-2.4041E-04	306.2	137.5	306.2	153.1	UL-RL	5.8408E+04	-15.400	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 704 di 1221
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137.5	0.000	0.000	Strato2_3095_82743_L_0									
79 D	27.85	-2.4382E-04	310.2	139.3	310.2	155.1	UL-RL	5.8408E+04	-15.60	0.000	1.000	1.000
139.3	0.000	0.000	Strato2_3095_82743_L_0									
80 D	28.21	-2.4722E-04	314.2	141.1	314.2	157.1	UL-RL	5.8408E+04	-15.80	0.000	1.000	1.000
141.1	0.000	0.000	Strato2_3095_82743_L_0									
81 D	14.29	-2.5063E-04	318.2	142.9	318.2	159.1	UL-RL	5.8408E+04	-16.00	0.000	1.000	1.000
142.9	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      18:01:09
+-----+
    
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
CURRENT TIME IS 4.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
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	not available									
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
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	not available									
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
0.000	0.000	0.000	not available									
20 D	0.1155	1.8752E-03	1.900	0.5776	72.20	38.96	ACTIVE	0.000	-3.800	0.000	1.000	1.000
0.5776	0.000	0.000	Strato1_2_8_L_0									
21 D	2.831	1.7506E-03	5.700	14.16	76.00	40.97	UL-RL	1.4328E+04	-4.000	0.000	1.000	1.000
14.16	0.000	0.000	Strato1_2_8_L_0									
22 D	5.999	1.6304E-03	9.500	30.00	79.80	42.98	UL-RL	1.4328E+04	-4.200	0.000	1.000	1.000
30.00	0.000	0.000	Strato1_2_8_L_0									
23 D	9.168	1.5149E-03	13.30	45.84	83.60	53.75	UL-RL	1.4328E+04	-4.400	0.000	1.000	1.000
45.84	0.000	0.000	Strato1_2_8_L_0									
24 D	9.694	1.4041E-03	17.10	48.47	87.40	55.88	UL-RL	1.4328E+04	-4.600	0.000	1.000	1.000
48.47	0.000	0.000	Strato1_2_8_L_0									
25 D	10.06	1.2982E-03	20.90	50.30	91.20	57.22	UL-RL	1.4328E+04	-4.800	0.000	1.000	1.000
50.30	0.000	0.000	Strato1_2_8_L_0									
26 D	10.43	1.1973E-03	24.70	52.15	95.00	58.59	UL-RL	1.4328E+04	-5.000	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 705 di 1221
52.15	0.000	0.000	Strato1_2_8_L_0				
27 D	10.80	1.1015E-03	28.50 54.02	98.80	59.99	UL-RL 1.4328E+04	-5.200 0.000 1.000 1.000
54.02	0.000	0.000	Strato1_2_8_L_0				
28 D	11.18	1.0109E-03	32.30 55.90	102.6	61.41	UL-RL 1.4328E+04	-5.400 0.000 1.000 1.000
55.90	0.000	0.000	Strato1_2_8_L_0				
29 D	11.56	9.2548E-04	36.10 57.80	106.4	62.86	UL-RL 1.4328E+04	-5.600 0.000 1.000 1.000
57.80	0.000	0.000	Strato1_2_8_L_0				
30 D	11.94	8.4530E-04	39.90 59.72	110.2	64.34	UL-RL 1.4328E+04	-5.800 0.000 1.000 1.000
59.72	0.000	0.000	Strato1_2_8_L_0				
31 D	12.33	7.7035E-04	43.70 61.64	114.0	65.85	UL-RL 1.4328E+04	-6.000 0.000 1.000 1.000
61.64	0.000	0.000	Strato1_2_8_L_0				
32 D	12.72	7.0057E-04	47.50 63.58	117.8	67.39	UL-RL 1.4328E+04	-6.200 0.000 1.000 1.000
63.58	0.000	0.000	Strato1_2_8_L_0				
33 D	13.11	6.3592E-04	51.30 65.54	121.6	68.97	UL-RL 1.4328E+04	-6.400 0.000 1.000 1.000
65.54	0.000	0.000	Strato1_2_8_L_0				
34 D	13.50	5.7627E-04	55.10 67.50	125.4	70.57	UL-RL 1.4328E+04	-6.600 0.000 1.000 1.000
67.50	0.000	0.000	Strato1_2_8_L_0				
35 D	13.89	5.2153E-04	58.90 69.47	129.2	72.20	UL-RL 1.4328E+04	-6.800 0.000 1.000 1.000
69.47	0.000	0.000	Strato1_2_8_L_0				
36 D	14.29	4.7154E-04	62.70 71.45	133.0	73.86	UL-RL 1.4328E+04	-7.000 0.000 1.000 1.000
71.45	0.000	0.000	Strato1_2_8_L_0				
37 D	14.69	4.2616E-04	66.50 73.43	136.8	75.55	UL-RL 1.4328E+04	-7.200 0.000 1.000 1.000
73.43	0.000	0.000	Strato1_2_8_L_0				
38 D	15.09	3.8520E-04	70.30 75.43	140.6	77.27	UL-RL 1.4328E+04	-7.400 0.000 1.000 1.000
75.43	0.000	0.000	Strato1_2_8_L_0				
39 D	15.49	3.4849E-04	74.10 77.43	144.4	79.01	UL-RL 1.4328E+04	-7.600 0.000 1.000 1.000
77.43	0.000	0.000	Strato1_2_8_L_0				
40 D	15.89	3.1582E-04	77.90 79.43	148.2	80.78	UL-RL 1.4328E+04	-7.800 0.000 1.000 1.000
79.43	0.000	0.000	Strato1_2_8_L_0				
41 D	16.29	2.8698E-04	81.70 81.44	152.0	82.57	UL-RL 1.4328E+04	-8.000 0.000 1.000 1.000
81.44	0.000	0.000	Strato1_2_8_L_0				
42 D	16.69	2.6176E-04	85.50 83.46	155.8	84.39	UL-RL 1.4328E+04	-8.200 0.000 1.000 1.000
83.46	0.000	0.000	Strato1_2_8_L_0				
43 D	17.10	2.3992E-04	89.30 85.48	159.6	86.23	UL-RL 1.4328E+04	-8.400 0.000 1.000 1.000
85.48	0.000	0.000	Strato1_2_8_L_0				
44 D	17.50	2.2124E-04	93.10 87.50	163.4	88.09	UL-RL 1.4328E+04	-8.600 0.000 1.000 1.000
87.50	0.000	0.000	Strato1_2_8_L_0				
45 D	13.99	2.0546E-04	97.00 69.93	167.3	84.54	UL-RL 3.1656E+04	-8.800 0.000 1.000 1.000
69.93	0.000	0.000	Strato2_3095_82743_L_0				
46 D	14.32	1.9235E-04	101.0 71.60	171.3	86.50	UL-RL 3.1656E+04	-9.000 0.000 1.000 1.000
71.60	0.000	0.000	Strato2_3095_82743_L_0				
47 D	14.67	1.8167E-04	105.0 73.34	175.3	88.46	UL-RL 3.1656E+04	-9.200 0.000 1.000 1.000
73.34	0.000	0.000	Strato2_3095_82743_L_0				
48 D	15.03	1.7318E-04	109.0 75.15	179.3	90.43	UL-RL 3.1656E+04	-9.400 0.000 1.000 1.000
75.15	0.000	0.000	Strato2_3095_82743_L_0				
49 D	15.40	1.6665E-04	113.0 77.01	183.3	92.39	UL-RL 3.1656E+04	-9.600 0.000 1.000 1.000
77.01	0.000	0.000	Strato2_3095_82743_L_0				
50 D	15.79	1.6187E-04	117.0 78.93	187.3	94.36	UL-RL 3.1656E+04	-9.800 0.000 1.000 1.000
78.93	0.000	0.000	Strato2_3095_82743_L_0				
51 D	16.18	1.5864E-04	121.0 80.89	191.3	96.33	UL-RL 3.1656E+04	-10.00 0.000 1.000 1.000
80.89	0.000	0.000	Strato2_3095_82743_L_0				
52 D	16.58	1.5676E-04	125.0 82.89	195.3	98.31	UL-RL 3.1656E+04	-10.20 0.000 1.000 1.000
82.89	0.000	0.000	Strato2_3095_82743_L_0				
53 D	16.98	1.5605E-04	129.0 84.92	199.3	100.3	UL-RL 3.1656E+04	-10.40 0.000 1.000 1.000
84.92	0.000	0.000	Strato2_3095_82743_L_0				
54 D	17.40	1.5635E-04	133.0 86.98	203.3	102.3	UL-RL 3.1656E+04	-10.60 0.000 1.000 1.000
86.98	0.000	0.000	Strato2_3095_82743_L_0				
55 D	17.81	1.5751E-04	137.0 89.07	207.3	104.2	UL-RL 3.1656E+04	-10.80 0.000 1.000 1.000
89.07	0.000	0.000	Strato2_3095_82743_L_0				
56 D	18.24	1.5938E-04	141.0 91.18	211.3	106.2	UL-RL 3.1656E+04	-11.00 0.000 1.000 1.000
91.18	0.000	0.000	Strato2_3095_82743_L_0				
57 D	18.66	1.6185E-04	145.0 93.30	215.3	108.2	UL-RL 3.1656E+04	-11.20 0.000 1.000 1.000
93.30	0.000	0.000	Strato2_3095_82743_L_0				
58 D	19.09	1.6480E-04	149.0 95.44	219.3	110.2	UL-RL 3.1656E+04	-11.40 0.000 1.000 1.000
95.44	0.000	0.000	Strato2_3095_82743_L_0				
59 D	19.52	1.6812E-04	153.0 97.58	223.3	112.2	UL-RL 3.1656E+04	-11.60 0.000 1.000 1.000
97.58	0.000	0.000	Strato2_3095_82743_L_0				
60 D	19.95	1.7174E-04	157.0 99.73	227.3	114.2	UL-RL 3.1656E+04	-11.80 0.000 1.000 1.000
99.73	0.000	0.000	Strato2_3095_82743_L_0				
61 D	20.38	1.7557E-04	161.0 101.9	231.3	116.2	UL-RL 3.1656E+04	-12.00 0.000 1.000 1.000
101.9	0.000	0.000	Strato2_3095_82743_L_0				
62 D	20.81	1.7955E-04	165.0 104.0	235.3	118.2	UL-RL 3.1656E+04	-12.20 0.000 1.000 1.000
104.0	0.000	0.000	Strato2_3095_82743_L_0				
63 D	21.24	1.8362E-04	169.0 106.2	239.3	120.2	UL-RL 3.1656E+04	-12.40 0.000 1.000 1.000
106.2	0.000	0.000	Strato2_3095_82743_L_0				
64 D	21.67	1.8774E-04	173.0 108.4	243.3	122.2	UL-RL 3.1656E+04	-12.60 0.000 1.000 1.000
108.4	0.000	0.000	Strato2_3095_82743_L_0				
65 D	22.11	1.9187E-04	177.0 110.5	247.3	124.2	UL-RL 3.1656E+04	-12.80 0.000 1.000 1.000
110.5	0.000	0.000	Strato2_3095_82743_L_0				
66 D	22.54	1.9597E-04	181.0 112.7	251.3	126.2	UL-RL 3.1656E+04	-13.00 0.000 1.000 1.000
112.7	0.000	0.000	Strato2_3095_82743_L_0				
67 D	22.97	2.0004E-04	185.0 114.8	255.3	128.2	UL-RL 3.1656E+04	-13.20 0.000 1.000 1.000
114.8	0.000	0.000	Strato2_3095_82743_L_0				
68 D	23.40	2.0404E-04	189.0 117.0	259.3	130.2	UL-RL 3.1656E+04	-13.40 0.000 1.000 1.000
117.0	0.000	0.000	Strato2_3095_82743_L_0				

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 706 di 1221
69 D	23.83	2.0797E-04	193.0	119.1	263.3
119.1	0.000	0.000	Strato2_3095_82743_L_0		
70 D	24.26	2.1183E-04	197.0	121.3	267.3
121.3	0.000	0.000	Strato2_3095_82743_L_0		
71 D	24.69	2.1561E-04	201.0	123.4	271.3
123.4	0.000	0.000	Strato2_3095_82743_L_0		
72 D	25.11	2.1931E-04	205.0	125.6	275.3
125.6	0.000	0.000	Strato2_3095_82743_L_0		
73 D	25.54	2.2295E-04	209.0	127.7	279.3
127.7	0.000	0.000	Strato2_3095_82743_L_0		
74 D	25.97	2.2653E-04	213.0	129.8	283.3
129.8	0.000	0.000	Strato2_3095_82743_L_0		
75 D	26.40	2.3005E-04	217.0	132.0	287.3
132.0	0.000	0.000	Strato2_3095_82743_L_0		
76 D	26.82	2.3353E-04	221.0	134.1	291.3
134.1	0.000	0.000	Strato2_3095_82743_L_0		
77 D	27.25	2.3698E-04	225.0	136.2	295.3
136.2	0.000	0.000	Strato2_3095_82743_L_0		
78 D	27.67	2.4041E-04	229.0	138.4	299.3
138.4	0.000	0.000	Strato2_3095_82743_L_0		
79 D	28.10	2.4382E-04	233.0	140.5	303.3
140.5	0.000	0.000	Strato2_3095_82743_L_0		
80 D	28.52	2.4722E-04	237.0	142.6	307.3
142.6	0.000	0.000	Strato2_3095_82743_L_0		
81 D	14.47	2.5063E-04	241.0	144.7	311.3
144.7	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :29 July 2019          18:01:09                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
CURRENT TIME IS 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.1538	-1.1538	-5.34072E-11	0.23076
2	3.3657	-3.3657	-0.23076	0.90389
3	5.9930	-5.9930	-0.90389	2.1025
4	8.9830	-8.9830	-2.1025	3.8991
5	12.319	-12.319	-3.8991	6.3629
6	15.993	-15.993	-6.3629	9.5615
7	20.001	-20.001	-9.5615	13.562
8	24.341	-24.341	-13.562	18.430
9	28.949	-28.949	-18.430	24.220
10	33.891	-33.891	-24.220	30.998
11	39.164	-39.164	-30.998	38.830
12	44.766	-44.766	-38.830	47.784
13	50.694	-50.694	-47.784	57.922
14	56.944	-56.944	-57.922	69.311
15	63.515	-63.515	-69.311	82.014
16	70.369	-70.369	-82.014	96.088
17	-13.194	13.194	-96.088	93.449
18	-5.8991	5.8991	-93.449	92.269
19	1.5050	-1.5050	-92.269	92.570
20	8.8960	-8.8960	-92.570	94.350
21	13.669	-13.669	-94.350	97.083
22	15.367	-15.367	-97.083	100.16
23	13.989	-13.989	-100.16	102.95
24	12.161	-12.161	-102.95	105.39
25	10.059	-10.059	-105.39	107.40
26	7.6809	-7.6809	-107.40	108.93
27	5.0257	-5.0257	-108.93	109.94
28	2.0929	-2.0929	-109.94	110.36
29	-1.1167	1.1167	-110.36	110.13
30	-4.4348	4.4348	-110.13	109.25
31	-7.4385	7.4385	-109.25	107.76
32	-10.131	10.131	-107.76	105.73
33	-12.535	12.535	-105.73	103.23
34	-14.673	14.673	-103.23	100.29
35	-16.567	16.567	-100.29	96.979
36	-18.239	18.239	-96.979	93.331

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 707 di 1221
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37	-19.708	19.708	-93.331	89.390
38	-20.994	20.994	-89.390	85.191
39	-22.131	22.131	-85.191	80.765
40	-23.122	23.122	-80.765	76.140
41	-23.982	23.982	-76.140	71.344
42	-24.727	24.727	-71.344	66.398
43	-25.373	25.373	-66.398	61.324
44	-25.933	25.933	-61.324	56.137
45	-25.445	25.445	-56.137	51.048
46	-24.726	24.726	-51.048	46.103
47	-23.806	23.806	-46.103	41.342
48	-22.724	22.724	-41.342	36.797
49	-21.516	21.516	-36.797	32.494
50	-20.216	20.216	-32.494	28.451
51	-18.850	18.850	-28.451	24.681
52	-17.445	17.445	-24.681	21.192
53	-16.022	16.022	-21.192	17.988
54	-14.611	14.611	-17.988	15.065
55	-13.218	13.218	-15.065	12.422
56	-11.856	11.856	-12.422	10.051
57	-10.537	10.537	-10.051	7.9433
58	-9.2703	9.2703	-7.9433	6.0892
59	-8.0634	8.0634	-6.0892	4.4765
60	-6.9222	6.9222	-4.4765	3.0921
61	-5.8607	5.8607	-3.0921	1.9199
62	-4.8725	4.8725	-1.9199	0.94542
63	-3.9597	3.9597	-0.94542	0.15347
64	-3.1236	3.1236	-0.15347	-0.47126
65	-2.3647	2.3647	0.47126	-0.94420
66	-1.6830	1.6830	0.94420	-1.2808
67	-1.0778	1.0778	1.2808	-1.4963
68	-0.54832	0.54832	1.4963	-1.6060
69	-0.10187	0.10187	1.6060	-1.6264
70	0.27135	-0.27135	1.6264	-1.5721
71	0.57264	-0.57264	1.5721	-1.4576
72	0.80331	-0.80331	1.4576	-1.2969
73	0.96457	-0.96457	1.2969	-1.1040
74	1.0575	-1.0575	1.1040	-0.89250
75	1.0832	-1.0832	0.89250	-0.67586
76	1.0347	-1.0347	0.67586	-0.46893
77	0.92043	-0.92043	0.46893	-0.28484
78	0.74087	-0.74087	0.28484	-0.13667
79	0.49632	-0.49632	0.13667	-3.74015E-02
80	0.18700	-0.18700	3.74015E-02	-3.52610E-12

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      18:01:09
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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

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	93.940	-7.17174E-04	-7.17174E-04	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

```

ITER   0  RNORM = 0.000    RMNORM= 0.000
          RINORM=0.1054E+06 RIMNOR=0.5900E+06
          RENORM= 6033.    REMNR=0.2424E-19 RATIO =0.2393    TOLER =0.1000E-03 NOT CONVERGED
          RFMAX = 90.74    RMMAX = 110.4
          RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
          RDT =0.1054E+06 RDR =0.5900E+06
          RATIOT=0.2393    RATIOR= 0.000
          MAX UN= 17.50    IEQ=   87 NODE    44 DOF   1   Y-DISPL.F
          MIN UN=-.6839E-02 IEQ=   33 NODE    17 DOF   1   Y-DISPL.F
          NO. OF CONTACT CONSTRAINT VIOLATIONS    0

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ITER   2  RNORM = 0.000    RMNORM= 0.000
          RINORM=0.1054E+06 RIMNOR=0.5900E+06
          RENORM= 198.2    REMNR=0.2011E-18 RATIO =0.4337E-01 TOLER =0.1000E-03 NOT CONVERGED
          RFMAX = 90.74    RMMAX = 110.4

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
708 di 1221

RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1054E+06 RDR =0.5900E+06
 RATIO=0.4337E-01 RATIO= 0.000
 MAX UN= 4.255 IEQ= 59 NODE 30 DOF 1 Y-DISPL.F
 MIN UN=-.7201E-09 IEQ= 109 NODE 55 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1054E+06 RIMNOR=0.5900E+06
 RENORM= 77.00 REMNOR=0.1984E-18 RATIO =0.2703E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 110.4
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1054E+06 RDR =0.5900E+06
 RATIO=0.2703E-01 RATIO= 0.000
 MAX UN= 3.314 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F
 MIN UN=-.1790E-08 IEQ= 33 NODE 17 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1054E+06 RIMNOR=0.5900E+06
 RENORM= 12.72 REMNOR=0.6697E-18 RATIO =0.1099E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 110.4
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1054E+06 RDR =0.5900E+06
 RATIO=0.1099E-01 RATIO= 0.000
 MAX UN= 2.562 IEQ= 103 NODE 52 DOF 1 Y-DISPL.F
 MIN UN=-.4276E-08 IEQ= 27 NODE 14 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1054E+06 RIMNOR=0.5900E+06
 RENORM=0.2934E-01 REMNOR=0.2932E-18 RATIO =0.5277E-03 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 110.4
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1054E+06 RDR =0.5900E+06
 RATIO=0.5277E-03 RATIO= 0.000
 MAX UN=0.1713 IEQ= 93 NODE 47 DOF 1 Y-DISPL.F
 MIN UN=-.2442E-08 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1054E+06 RIMNOR=0.5900E+06
 RENORM=0.4318E-16 REMNOR=0.3025E-18 RATIO =0.2024E-10 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 90.74 RMMAX = 110.4
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1054E+06 RDR =0.5900E+06
 RATIO=0.2024E-10 RATIO= 0.000
 MAX UN=0.2163E-08 IEQ= 57 NODE 29 DOF 1 Y-DISPL.F
 MIN UN=-.2900E-08 IEQ= 43 NODE 22 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :29 July 2019  18:01:09                                                                                               |
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New Project
 SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 5 (AT TIME 5.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	1.5266651E-02	-1.1729423E-03	
2	1.5032063E-02	-1.1729351E-03	
3	1.4797478E-02	-1.1729002E-03	
4	1.4562907E-02	-1.1728044E-03	
5	1.4328364E-02	-1.1726012E-03	
6	1.4093877E-02	-1.1722326E-03	
7	1.3859486E-02	-1.1716288E-03	
8	1.3625247E-02	-1.1707090E-03	
9	1.3391230E-02	-1.1693811E-03	
10	1.3157528E-02	-1.1675426E-03	
11	1.2924254E-02	-1.1650810E-03	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 709 di 1221
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- 12 1.2691546E-02 -1.1618725E-03
- 13 1.2459564E-02 -1.1577821E-03
- 14 1.2228501E-02 -1.1526636E-03
- 15 1.1998578E-02 -1.1463596E-03
- 16 1.1770048E-02 -1.1387016E-03
- 17 1.1543199E-02 -1.1295106E-03
- 18 1.1318179E-02 -1.1212919E-03
- 19 1.1094452E-02 -1.1165393E-03
- 20 1.0871346E-02 -1.1150411E-03
- 21 1.0648233E-02 -1.1165742E-03
- 22 1.0424530E-02 -1.1209048E-03
- 23 1.0199701E-02 -1.1277878E-03
- 24 9.9732628E-03 -1.1369668E-03
- 25 9.7447801E-03 -1.1481752E-03
- 26 9.5138759E-03 -1.1611354E-03
- 27 9.2802284E-03 -1.1755588E-03
- 28 9.0435748E-03 -1.1911456E-03
- 29 8.8037145E-03 -1.2075851E-03
- 30 8.5605066E-03 -1.2245556E-03
- 31 8.3138791E-03 -1.2417242E-03
- 32 8.0638266E-03 -1.2587473E-03
- 33 7.8104135E-03 -1.2752706E-03
- 34 7.5537760E-03 -1.2909286E-03
- 35 7.2941261E-03 -1.3053448E-03
- 36 7.0317480E-03 -1.3181318E-03
- 37 6.7670086E-03 -1.3288911E-03
- 38 6.5003541E-03 -1.3372131E-03
- 39 6.2323139E-03 -1.3426772E-03
- 40 5.9635038E-03 -1.3448521E-03
- 41 5.6946231E-03 -1.3432955E-03
- 42 5.4264646E-03 -1.3375541E-03
- 43 5.1599114E-03 -1.3271638E-03
- 44 4.8959407E-03 -1.3116492E-03
- 45 4.6356271E-03 -1.2905242E-03
- 46 4.3801027E-03 -1.2638446E-03
- 47 4.1304189E-03 -1.2322207E-03
- 48 3.8875028E-03 -1.1962713E-03
- 49 3.6521573E-03 -1.1566184E-03
- 50 3.4250623E-03 -1.1138792E-03
- 51 3.2067722E-03 -1.0686585E-03
- 52 2.9977289E-03 -1.0215505E-03
- 53 2.7982434E-03 -9.7313391E-04
- 54 2.6085246E-03 -9.2397790E-04
- 55 2.4286644E-03 -8.7463930E-04
- 56 2.2586458E-03 -8.2564645E-04
- 57 2.0983512E-03 -7.7747318E-04
- 58 1.9475744E-03 -7.3053207E-04
- 59 1.8060326E-03 -6.8517817E-04
- 60 1.6733772E-03 -6.4171268E-04
- 61 1.5492049E-03 -6.0038645E-04
- 62 1.4330664E-03 -5.6140355E-04
- 63 1.3244765E-03 -5.2492454E-04
- 64 1.2229217E-03 -4.9106920E-04
- 65 1.1278685E-03 -4.5991938E-04
- 66 1.0387705E-03 -4.3152158E-04
- 67 9.5507547E-04 -4.0588932E-04
- 68 8.7623154E-04 -3.8300533E-04
- 69 8.0169320E-04 -3.6282348E-04
- 70 7.3092688E-04 -3.4527067E-04
- 71 6.6341623E-04 -3.3024836E-04
- 72 5.9866703E-04 -3.1763365E-04
- 73 5.3621201E-04 -3.0728036E-04
- 74 4.7561536E-04 -2.9901999E-04
- 75 4.1647716E-04 -2.9266239E-04
- 76 3.5843763E-04 -2.8799636E-04
- 77 3.0118129E-04 -2.8479025E-04
- 78 2.4444099E-04 -2.8279227E-04
- 79 1.8800197E-04 -2.8173047E-04
- 80 1.3170586E-04 -2.8131281E-04
- 81 7.5451889E-05 -2.8122727E-04

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :29 July 2019          18:01:09                                                                                       |
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New Project

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
710 di 1221

O_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peg	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.3040	-1.5267E-02	10.00	3.040	10.00	11.54	ACTIVE	0.000	0.000	0.000	1.000	1.000
3.040	0.000	0.000	Stratol_2_8_L_0									
2 D	0.5569	-1.5032E-02	9.159	2.784	9.159	11.06	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
2.784	0.000	0.000	Stratol_2_8_L_0									
3 D	0.8475	-1.4797E-02	13.94	4.238	13.94	13.14	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
4.238	0.000	0.000	Stratol_2_8_L_0									
4 D	1.103	-1.4563E-02	18.14	5.515	18.14	14.95	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
5.515	0.000	0.000	Stratol_2_8_L_0									
5 D	1.347	-1.4328E-02	22.16	6.736	22.16	16.68	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
6.736	0.000	0.000	Stratol_2_8_L_0									
6 D	1.586	-1.4094E-02	26.09	7.932	26.09	18.37	ACTIVE	0.000	-1.000	0.000	1.000	1.000
7.932	0.000	0.000	Stratol_2_8_L_0									
7 D	1.823	-1.3859E-02	29.98	9.115	29.98	20.04	ACTIVE	0.000	-1.200	0.000	1.000	1.000
9.115	0.000	0.000	Stratol_2_8_L_0									
8 D	2.058	-1.3625E-02	33.85	10.29	33.85	21.70	ACTIVE	0.000	-1.400	0.000	1.000	1.000
10.29	0.000	0.000	Stratol_2_8_L_0									
9 D	2.252	-1.3391E-02	37.03	11.26	37.03	23.04	ACTIVE	0.000	-1.600	0.000	1.000	1.000
11.26	0.000	0.000	Stratol_2_8_L_0									
10 D	2.490	-1.3158E-02	40.95	12.45	40.95	24.71	ACTIVE	0.000	-1.800	0.000	1.000	1.000
12.45	0.000	0.000	Stratol_2_8_L_0									
11 D	2.726	-1.2924E-02	44.84	13.63	44.84	26.37	ACTIVE	0.000	-2.000	0.000	1.000	1.000
13.63	0.000	0.000	Stratol_2_8_L_0									
12 D	2.962	-1.2692E-02	48.72	14.81	48.72	28.01	ACTIVE	0.000	-2.200	0.000	1.000	1.000
14.81	0.000	0.000	Stratol_2_8_L_0									
13 D	3.197	-1.2460E-02	52.58	15.98	52.58	29.64	ACTIVE	0.000	-2.400	0.000	1.000	1.000
15.98	0.000	0.000	Stratol_2_8_L_0									
14 D	3.431	-1.2229E-02	56.43	17.16	56.43	31.25	ACTIVE	0.000	-2.600	0.000	1.000	1.000
17.16	0.000	0.000	Stratol_2_8_L_0									
15 D	3.665	-1.1999E-02	60.28	18.32	60.28	32.85	ACTIVE	0.000	-2.800	0.000	1.000	1.000
18.32	0.000	0.000	Stratol_2_8_L_0									
16 D	3.876	-1.1770E-02	63.75	19.38	63.75	34.27	ACTIVE	0.000	-3.000	0.000	1.000	1.000
19.38	0.000	0.000	Stratol_2_8_L_0									
17 D	4.110	-1.1543E-02	67.61	20.55	67.61	35.85	ACTIVE	0.000	-3.200	0.000	1.000	1.000
20.55	0.000	0.000	Stratol_2_8_L_0									
18 D	4.345	-1.1318E-02	71.46	21.72	71.46	37.87	ACTIVE	0.000	-3.400	0.000	1.000	1.000
21.72	0.000	0.000	Stratol_2_8_L_0									
19 D	4.578	-1.1094E-02	75.30	22.89	75.30	39.91	ACTIVE	0.000	-3.600	0.000	1.000	1.000
22.89	0.000	0.000	Stratol_2_8_L_0									
20 D	4.812	-1.0871E-02	79.14	24.06	79.14	41.95	ACTIVE	0.000	-3.800	0.000	1.000	1.000
24.06	0.000	0.000	Stratol_2_8_L_0									
21 D	5.045	-1.0648E-02	82.98	25.23	82.98	43.98	ACTIVE	0.000	-4.000	0.000	1.000	1.000
25.23	0.000	0.000	Stratol_2_8_L_0									
22 D	5.278	-1.0425E-02	86.81	26.39	86.81	46.01	ACTIVE	0.000	-4.200	0.000	1.000	1.000
26.39	0.000	0.000	Stratol_2_8_L_0									
23 D	5.511	-1.0200E-02	90.64	27.56	90.64	48.04	ACTIVE	0.000	-4.400	0.000	1.000	1.000
27.56	0.000	0.000	Stratol_2_8_L_0									
24 D	5.729	-9.9733E-03	94.23	28.65	94.23	49.94	ACTIVE	0.000	-4.600	0.000	1.000	1.000
28.65	0.000	0.000	Stratol_2_8_L_0									
25 D	5.962	-9.7448E-03	98.06	29.81	98.06	51.97	ACTIVE	0.000	-4.800	0.000	1.000	1.000
29.81	0.000	0.000	Stratol_2_8_L_0									
26 D	6.195	-9.5139E-03	101.9	30.98	101.9	54.01	ACTIVE	0.000	-5.000	0.000	1.000	1.000
30.98	0.000	0.000	Stratol_2_8_L_0									
27 D	6.428	-9.2802E-03	105.7	32.14	105.7	56.04	ACTIVE	0.000	-5.200	0.000	1.000	1.000
32.14	0.000	0.000	Stratol_2_8_L_0									
28 D	6.661	-9.0436E-03	109.6	33.30	109.6	58.06	ACTIVE	0.000	-5.400	0.000	1.000	1.000
33.30	0.000	0.000	Stratol_2_8_L_0									
29 D	6.894	-8.8037E-03	113.4	34.47	113.4	60.09	ACTIVE	0.000	-5.600	0.000	1.000	1.000
34.47	0.000	0.000	Stratol_2_8_L_0									
30 D	7.126	-8.5605E-03	117.2	35.63	117.2	62.12	ACTIVE	0.000	-5.800	0.000	1.000	1.000
35.63	0.000	0.000	Stratol_2_8_L_0									
31 D	7.347	-8.3139E-03	120.8	36.74	120.8	64.05	ACTIVE	0.000	-6.000	0.000	1.000	1.000
36.74	0.000	0.000	Stratol_2_8_L_0									
32 D	7.580	-8.0638E-03	124.7	37.90	124.7	66.07	ACTIVE	0.000	-6.200	0.000	1.000	1.000
37.90	0.000	0.000	Stratol_2_8_L_0									
33 D	7.812	-7.8104E-03	128.5	39.06	128.5	68.10	ACTIVE	0.000	-6.400	0.000	1.000	1.000
39.06	0.000	0.000	Stratol_2_8_L_0									
34 D	8.045	-7.5538E-03	132.3	40.22	132.3	70.13	ACTIVE	0.000	-6.600	0.000	1.000	1.000
40.22	0.000	0.000	Stratol_2_8_L_0									
35 D	8.277	-7.2941E-03	136.1	41.39	136.1	72.15	ACTIVE	0.000	-6.800	0.000	1.000	1.000
41.39	0.000	0.000	Stratol_2_8_L_0									
36 D	8.510	-7.0317E-03	140.0	42.55	140.0	74.18	ACTIVE	0.000	-7.000	0.000	1.000	1.000
42.55	0.000	0.000	Stratol_2_8_L_0									
37 D	8.742	-6.7670E-03	143.8	43.71	143.8	76.20	ACTIVE	0.000	-7.200	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 711 di 1221
43.71	0.000	0.000	Strato1_2_8_L_0				
38 D	8.974	-6.5004E-03	147.6	44.87	147.6	78.23	ACTIVE 0.000 -7.400 0.000 1.000 1.000
44.87	0.000	0.000	Strato1_2_8_L_0				
39 D	9.197	-6.2323E-03	151.3	45.99	151.3	80.17	ACTIVE 0.000 -7.600 0.000 1.000 1.000
45.99	0.000	0.000	Strato1_2_8_L_0				
40 D	9.430	-5.9635E-03	155.1	47.15	155.1	82.20	ACTIVE 0.000 -7.800 0.000 1.000 1.000
47.15	0.000	0.000	Strato1_2_8_L_0				
41 D	9.662	-5.6946E-03	158.9	48.31	158.9	84.22	ACTIVE 0.000 -8.000 0.000 1.000 1.000
48.31	0.000	0.000	Strato1_2_8_L_0				
42 D	9.894	-5.4265E-03	162.7	49.47	162.7	86.25	ACTIVE 0.000 -8.200 0.000 1.000 1.000
49.47	0.000	0.000	Strato1_2_8_L_0				
43 D	10.13	-5.1599E-03	166.5	50.63	166.5	88.27	ACTIVE 0.000 -8.400 0.000 1.000 1.000
50.63	0.000	0.000	Strato1_2_8_L_0				
44 D	10.36	-4.8959E-03	170.4	51.79	170.4	90.29	ACTIVE 0.000 -8.600 0.000 1.000 1.000
51.79	0.000	0.000	Strato1_2_8_L_0				
45 D	4.313	-4.6356E-03	174.3	21.57	174.3	87.14	ACTIVE 0.000 -8.800 0.000 1.000 1.000
21.57	0.000	0.000	Strato2_3095_82743_L_0				
46 D	4.496	-4.3801E-03	178.2	22.48	178.2	89.09	ACTIVE 0.000 -9.000 0.000 1.000 1.000
22.48	0.000	0.000	Strato2_3095_82743_L_0				
47 D	4.685	-4.1304E-03	182.2	23.42	182.2	91.09	ACTIVE 0.000 -9.200 0.000 1.000 1.000
23.42	0.000	0.000	Strato2_3095_82743_L_0				
48 D	4.874	-3.8875E-03	186.2	24.37	186.2	93.10	ACTIVE 0.000 -9.400 0.000 1.000 1.000
24.37	0.000	0.000	Strato2_3095_82743_L_0				
49 D	5.062	-3.6522E-03	190.2	25.31	190.2	95.11	ACTIVE 0.000 -9.600 0.000 1.000 1.000
25.31	0.000	0.000	Strato2_3095_82743_L_0				
50 D	5.251	-3.4251E-03	194.2	26.26	194.2	97.12	ACTIVE 0.000 -9.800 0.000 1.000 1.000
26.26	0.000	0.000	Strato2_3095_82743_L_0				
51 D	5.440	-3.2068E-03	198.3	27.20	198.3	99.13	ACTIVE 0.000 -10.000 0.000 1.000 1.000
27.20	0.000	0.000	Strato2_3095_82743_L_0				
52 D	5.628	-2.9977E-03	202.3	28.14	202.3	101.1	ACTIVE 0.000 -10.200 0.000 1.000 1.000
28.14	0.000	0.000	Strato2_3095_82743_L_0				
53 D	5.817	-2.7982E-03	206.3	29.09	206.3	103.1	ACTIVE 0.000 -10.400 0.000 1.000 1.000
29.09	0.000	0.000	Strato2_3095_82743_L_0				
54 D	6.001	-2.6085E-03	210.2	30.00	210.2	105.1	ACTIVE 0.000 -10.600 0.000 1.000 1.000
30.00	0.000	0.000	Strato2_3095_82743_L_0				
55 D	6.937	-2.4287E-03	214.2	34.68	214.2	107.1	UL-RL 2.7014E+04 -10.800 0.000 1.000 1.000
34.68	0.000	0.000	Strato2_3095_82743_L_0				
56 D	8.255	-2.2586E-03	218.2	41.28	218.2	109.1	UL-RL 2.7014E+04 -11.000 0.000 1.000 1.000
41.28	0.000	0.000	Strato2_3095_82743_L_0				
57 D	9.516	-2.0984E-03	222.2	47.58	222.2	111.1	UL-RL 2.7014E+04 -11.200 0.000 1.000 1.000
47.58	0.000	0.000	Strato2_3095_82743_L_0				
58 D	10.72	-1.9476E-03	226.2	53.61	226.2	113.1	UL-RL 2.7014E+04 -11.400 0.000 1.000 1.000
53.61	0.000	0.000	Strato2_3095_82743_L_0				
59 D	11.87	-1.8060E-03	230.3	59.37	230.3	115.1	UL-RL 2.7014E+04 -11.600 0.000 1.000 1.000
59.37	0.000	0.000	Strato2_3095_82743_L_0				
60 D	12.97	-1.6734E-03	234.3	64.87	234.3	117.1	UL-RL 2.7014E+04 -11.800 0.000 1.000 1.000
64.87	0.000	0.000	Strato2_3095_82743_L_0				
61 D	14.02	-1.5492E-03	238.2	70.09	238.2	119.1	UL-RL 2.7014E+04 -12.000 0.000 1.000 1.000
70.09	0.000	0.000	Strato2_3095_82743_L_0				
62 D	15.03	-1.4331E-03	242.2	75.13	242.2	121.1	UL-RL 2.7014E+04 -12.200 0.000 1.000 1.000
75.13	0.000	0.000	Strato2_3095_82743_L_0				
63 D	15.99	-1.3245E-03	246.2	79.96	246.2	123.1	UL-RL 2.7014E+04 -12.400 0.000 1.000 1.000
79.96	0.000	0.000	Strato2_3095_82743_L_0				
64 D	16.92	-1.2229E-03	250.2	84.59	250.2	125.1	UL-RL 2.7014E+04 -12.600 0.000 1.000 1.000
84.59	0.000	0.000	Strato2_3095_82743_L_0				
65 D	17.81	-1.1279E-03	254.2	89.04	254.2	127.1	UL-RL 2.7014E+04 -12.800 0.000 1.000 1.000
89.04	0.000	0.000	Strato2_3095_82743_L_0				
66 D	18.67	-1.0388E-03	258.2	93.33	258.2	129.1	UL-RL 2.7014E+04 -13.000 0.000 1.000 1.000
93.33	0.000	0.000	Strato2_3095_82743_L_0				
67 D	19.50	-9.5508E-04	262.3	97.48	262.3	131.1	UL-RL 2.7014E+04 -13.200 0.000 1.000 1.000
97.48	0.000	0.000	Strato2_3095_82743_L_0				
68 D	20.30	-8.7623E-04	266.3	101.5	266.3	133.1	UL-RL 2.7014E+04 -13.400 0.000 1.000 1.000
101.5	0.000	0.000	Strato2_3095_82743_L_0				
69 D	21.07	-8.0169E-04	270.2	105.3	270.2	135.1	UL-RL 2.7014E+04 -13.600 0.000 1.000 1.000
105.3	0.000	0.000	Strato2_3095_82743_L_0				
70 D	21.83	-7.3093E-04	274.2	109.1	274.2	137.1	UL-RL 2.7014E+04 -13.800 0.000 1.000 1.000
109.1	0.000	0.000	Strato2_3095_82743_L_0				
71 D	22.57	-6.6342E-04	278.2	112.8	278.2	139.1	UL-RL 2.7014E+04 -14.000 0.000 1.000 1.000
112.8	0.000	0.000	Strato2_3095_82743_L_0				
72 D	23.30	-5.9867E-04	282.2	116.5	282.2	141.1	UL-RL 2.7014E+04 -14.200 0.000 1.000 1.000
116.5	0.000	0.000	Strato2_3095_82743_L_0				
73 D	24.01	-5.3621E-04	286.2	120.1	286.2	143.1	UL-RL 2.7014E+04 -14.400 0.000 1.000 1.000
120.1	0.000	0.000	Strato2_3095_82743_L_0				
74 D	24.72	-4.7562E-04	290.3	123.6	290.3	145.1	UL-RL 2.7014E+04 -14.600 0.000 1.000 1.000
123.6	0.000	0.000	Strato2_3095_82743_L_0				
75 D	25.41	-4.1648E-04	294.3	127.1	294.3	147.1	UL-RL 2.7014E+04 -14.800 0.000 1.000 1.000
127.1	0.000	0.000	Strato2_3095_82743_L_0				
76 D	26.10	-3.5844E-04	298.2	130.5	298.2	149.1	UL-RL 2.7014E+04 -15.000 0.000 1.000 1.000
130.5	0.000	0.000	Strato2_3095_82743_L_0				
77 D	26.79	-3.0118E-04	302.2	133.9	302.2	151.1	UL-RL 2.7014E+04 -15.200 0.000 1.000 1.000
133.9	0.000	0.000	Strato2_3095_82743_L_0				
78 D	27.47	-2.4444E-04	306.2	137.4	306.2	153.1	UL-RL 2.7014E+04 -15.400 0.000 1.000 1.000
137.4	0.000	0.000	Strato2_3095_82743_L_0				
79 D	28.15	-1.8800E-04	310.2	140.8	310.2	155.1	UL-RL 2.7014E+04 -15.600 0.000 1.000 1.000
140.8	0.000	0.000	Strato2_3095_82743_L_0				

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 713 di 1221
28	0.000	--	--	--	--
0.000	0.000	0.000	not available		
29	0.000	--	--	--	--
0.000	0.000	0.000	not available		
30	0.000	--	--	--	--
0.000	0.000	0.000	not available		
31	0.000	--	--	--	--
0.000	0.000	0.000	not available		
32	0.000	--	--	--	--
0.000	0.000	0.000	not available		
33	0.000	--	--	--	--
0.000	0.000	0.000	not available		
34	0.000	--	--	--	--
0.000	0.000	0.000	not available		
35	0.000	--	--	--	--
0.000	0.000	0.000	not available		
36	0.000	--	--	--	--
0.000	0.000	0.000	not available		
37	0.000	--	--	--	--
0.000	0.000	0.000	not available		
38	0.000	--	--	--	--
0.000	0.000	0.000	not available		
39	0.000	--	--	--	--
0.000	0.000	0.000	not available		
40	0.000	--	--	--	--
0.000	0.000	0.000	not available		
41	0.000	--	--	--	--
0.000	0.000	0.000	not available		
42	0.000	--	--	--	--
0.000	0.000	0.000	not available		
43	0.000	--	--	--	--
0.000	0.000	0.000	not available		
44	0.000	--	--	--	--
0.000	0.000	0.000	not available		
45 D	17.04	4.6356E-03	2.000 85.18 167.3	85.18	V-C 5348.
85.18	0.000	0.000	Strato2_3095_82743_L_0		
46 D	17.47	4.3801E-03	6.000 87.35 171.3	87.35	V-C 5348.
87.35	0.000	0.000	Strato2_3095_82743_L_0		
47 D	17.78	4.1304E-03	10.000 88.91 175.3	88.91	V-C 5348.
88.91	0.000	0.000	Strato2_3095_82743_L_0		
48 D	17.98	3.8875E-03	14.00 89.90 179.3	90.43	UL-RL 1.6045E+04
89.90	0.000	0.000	Strato2_3095_82743_L_0		
49 D	17.94	3.6522E-03	18.00 89.70 183.3	92.39	UL-RL 1.6045E+04
89.70	0.000	0.000	Strato2_3095_82743_L_0		
50 D	17.87	3.4251E-03	22.00 89.36 187.3	94.36	UL-RL 1.6045E+04
89.36	0.000	0.000	Strato2_3095_82743_L_0		
51 D	17.80	3.2068E-03	26.00 88.99 191.3	96.33	UL-RL 1.6045E+04
88.99	0.000	0.000	Strato2_3095_82743_L_0		
52 D	17.72	2.9977E-03	30.00 88.62 195.3	98.31	UL-RL 1.6045E+04
88.62	0.000	0.000	Strato2_3095_82743_L_0		
53 D	17.66	2.7982E-03	34.00 88.30 199.3	100.3	UL-RL 1.6045E+04
88.30	0.000	0.000	Strato2_3095_82743_L_0		
54 D	17.61	2.6085E-03	38.00 88.06 203.3	102.3	UL-RL 1.6045E+04
88.06	0.000	0.000	Strato2_3095_82743_L_0		
55 D	17.58	2.4287E-03	42.00 87.90 207.3	104.2	UL-RL 1.6045E+04
87.90	0.000	0.000	Strato2_3095_82743_L_0		
56 D	17.57	2.2586E-03	46.00 87.85 211.3	106.2	UL-RL 1.6045E+04
87.85	0.000	0.000	Strato2_3095_82743_L_0		
57 D	17.58	2.0984E-03	50.00 87.90 215.3	108.2	UL-RL 1.6045E+04
87.90	0.000	0.000	Strato2_3095_82743_L_0		
58 D	17.61	1.9476E-03	54.00 88.07 219.3	110.2	UL-RL 1.6045E+04
88.07	0.000	0.000	Strato2_3095_82743_L_0		
59 D	17.67	1.8060E-03	58.00 88.34 223.3	112.2	UL-RL 1.6045E+04
88.34	0.000	0.000	Strato2_3095_82743_L_0		
60 D	17.75	1.6734E-03	62.00 88.73 227.3	114.2	UL-RL 1.6045E+04
88.73	0.000	0.000	Strato2_3095_82743_L_0		
61 D	17.84	1.5492E-03	66.00 89.22 231.3	116.2	UL-RL 1.6045E+04
89.22	0.000	0.000	Strato2_3095_82743_L_0		
62 D	17.96	1.4331E-03	70.00 89.81 235.3	118.2	UL-RL 1.6045E+04
89.81	0.000	0.000	Strato2_3095_82743_L_0		
63 D	18.10	1.3245E-03	74.00 90.50 239.3	120.2	UL-RL 1.6045E+04
90.50	0.000	0.000	Strato2_3095_82743_L_0		
64 D	18.26	1.2229E-03	78.00 91.28 243.3	122.2	UL-RL 1.6045E+04
91.28	0.000	0.000	Strato2_3095_82743_L_0		
65 D	18.43	1.1279E-03	82.00 92.14 247.3	124.2	UL-RL 1.6045E+04
92.14	0.000	0.000	Strato2_3095_82743_L_0		
66 D	18.62	1.0388E-03	86.00 93.08 251.3	126.2	UL-RL 1.6045E+04
93.08	0.000	0.000	Strato2_3095_82743_L_0		
67 D	18.82	9.5508E-04	90.00 94.09 255.3	128.2	UL-RL 1.6045E+04
94.09	0.000	0.000	Strato2_3095_82743_L_0		
68 D	19.03	8.7623E-04	94.00 95.16 259.3	130.2	UL-RL 1.6045E+04
95.16	0.000	0.000	Strato2_3095_82743_L_0		
69 D	19.26	8.0169E-04	98.00 96.28 263.3	132.2	UL-RL 1.6045E+04
96.28	0.000	0.000	Strato2_3095_82743_L_0		
70 D	19.49	7.3093E-04	102.0 97.45 267.3	134.2	UL-RL 1.6045E+04



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 714 di 1221
97.45	0.000	0.000	Strato2_3095_82743_L_0		
71 D	19.73	6.6342E-04	106.0 98.65	271.3	136.2
98.65	0.000	0.000	Strato2_3095_82743_L_0		
72 D	19.98	5.9867E-04	110.0 99.89	275.3	138.2
99.89	0.000	0.000	Strato2_3095_82743_L_0		
73 D	20.23	5.3621E-04	114.0 101.2	279.3	140.2
101.2	0.000	0.000	Strato2_3095_82743_L_0		
74 D	20.49	4.7562E-04	118.0 102.4	283.3	142.2
102.4	0.000	0.000	Strato2_3095_82743_L_0		
75 D	20.75	4.1648E-04	122.0 103.7	287.3	144.2
103.7	0.000	0.000	Strato2_3095_82743_L_0		
76 D	21.01	3.5844E-04	126.0 105.0	291.3	146.2
105.0	0.000	0.000	Strato2_3095_82743_L_0		
77 D	21.27	3.0118E-04	130.0 106.3	295.3	148.2
106.3	0.000	0.000	Strato2_3095_82743_L_0		
78 D	21.53	2.4444E-04	134.0 107.7	299.3	150.2
107.7	0.000	0.000	Strato2_3095_82743_L_0		
79 D	21.79	1.8800E-04	138.0 109.0	303.3	152.2
109.0	0.000	0.000	Strato2_3095_82743_L_0		
80 D	22.05	1.3171E-04	142.0 110.3	307.3	154.2
110.3	0.000	0.000	Strato2_3095_82743_L_0		
81 D	11.16	7.5452E-05	146.0 111.6	311.3	156.2
111.6	0.000	0.000	Strato2_3095_82743_L_0		

```

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|
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.Nominal_63
|
|          Exe Time :29 July 2019      18:01:09
|
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```

New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.30400	-0.30400	-3.71619E-11	6.08000E-02
2	0.86087	-0.86087	-6.08000E-02	0.23297
3	1.7084	-1.7084	-0.23297	0.57465
4	2.8113	-2.8113	-0.57465	1.1369
5	4.1585	-4.1585	-1.1369	1.9686
6	5.7449	-5.7449	-1.9686	3.1176
7	7.5680	-7.5680	-3.1176	4.6312
8	9.6262	-9.6262	-4.6312	6.5564
9	11.878	-11.878	-6.5564	8.9320
10	14.367	-14.367	-8.9320	11.805
11	17.094	-17.094	-11.805	15.224
12	20.056	-20.056	-15.224	19.235
13	23.252	-23.252	-19.235	23.886
14	26.683	-26.683	-23.886	29.223
15	30.348	-30.348	-29.223	35.292
16	34.224	-34.224	-35.292	42.137
17	-75.175	75.175	-42.137	27.102
18	-70.830	70.830	-27.102	12.936
19	-66.252	66.252	-12.936	-0.31421
20	-61.440	61.440	0.31421	-12.602
21	-56.394	56.394	12.602	-23.881
22	-51.116	51.116	23.881	-34.104
23	-45.605	45.605	34.104	-43.225
24	-39.876	39.876	43.225	-51.200
25	-33.914	33.914	51.200	-57.983
26	-27.718	27.718	57.983	-63.527
27	-21.290	21.290	63.527	-67.785
28	-14.629	14.629	67.785	-70.711
29	-7.7355	7.7355	70.711	-72.258
30	-0.60936	0.60936	72.258	-72.379
31	6.7377	-6.7377	72.379	-71.032
32	14.317	-14.317	71.032	-68.168
33	22.130	-22.130	68.168	-63.742
34	30.175	-30.175	63.742	-57.708
35	38.452	-38.452	57.708	-50.017
36	46.962	-46.962	50.017	-40.625
37	55.704	-55.704	40.625	-29.484
38	64.678	-64.678	29.484	-16.548
39	73.875	-73.875	16.548	-1.7735

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 715 di 1221
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40	83.305	-83.305	1.7735	14.887
41	92.966	-92.966	-14.887	33.481
42	102.86	-102.86	-33.481	54.053
43	112.99	-112.99	-54.053	76.650
44	123.34	-123.34	-76.650	101.32
45	110.62	-110.62	-101.32	123.44
46	97.648	-97.648	-123.44	142.97
47	84.552	-84.552	-142.97	159.88
48	71.446	-71.446	-159.88	174.17
49	58.569	-58.569	-174.17	185.89
50	45.947	-45.947	-185.89	195.08
51	33.590	-33.590	-195.08	201.79
52	21.494	-21.494	-201.79	206.09
53	9.6510	-9.6510	-206.09	208.02
54	-1.9600	1.9600	-208.02	207.63
55	-12.604	12.604	-207.63	205.11
56	-21.919	21.919	-205.11	200.73
57	-29.983	29.983	-200.73	194.73
58	-36.875	36.875	-194.73	187.35
59	-42.670	42.670	-187.35	178.82
60	-47.441	47.441	-178.82	169.33
61	-51.267	51.267	-169.33	159.08
62	-54.203	54.203	-159.08	148.24
63	-56.312	56.312	-148.24	136.98
64	-57.651	57.651	-136.98	125.45
65	-58.271	58.271	-125.45	113.79
66	-58.221	58.221	-113.79	102.15
67	-57.543	57.543	-102.15	90.639
68	-56.277	56.277	-90.639	79.383
69	-54.465	54.465	-79.383	68.490
70	-52.126	52.126	-68.490	58.065
71	-49.288	49.288	-58.065	48.208
72	-45.970	45.970	-48.208	39.014
73	-42.189	42.189	-39.014	30.576
74	-37.960	37.960	-30.576	22.984
75	-33.293	33.293	-22.984	16.325
76	-28.203	28.203	-16.325	10.685
77	-22.687	22.687	-10.685	6.1473
78	-16.747	16.747	-6.1473	2.7979
79	-10.386	10.386	-2.7979	0.72064
80	-3.6030	3.6030	-0.72064	-1.21950E-12

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019  18:01:09
|
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```

New Project

STRESS RESULTS FOR GROUP NO. 4

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	117.51	-7.17174E-04	8.23471E-03	0.0000	2633.3	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019  18:01:09
|
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FINAL INCREMENTAL ANALYSIS

SUMMARY

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	2
2	CONVERGENCE :YES	4
3	CONVERGENCE :YES	5

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 716 di 1221
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4 CONVERGENCE :YES 4
5 CONVERGENCE :YES 6

END OF PROCESS FOR PROBLEM
New Project
NONLINEAR SOLUTION CPU TIME 0.07 [sec]
DATABASE CREATION CPU TIME..... 0.26 [sec]

3.3. Design Assumption : SLE (Rara) - File di Paratie - File di input (.d)

* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: SLE (Rara)

* Time:lunedì 29 luglio 2019 18:01:10

* 1: Defining general settings

UNIT m kN

TITLE New Project

DELTA 0.2

option param itemax 100

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)

WALL LeftWall_32 0 -16 0 1

* 3: Defining surfaces for wall(s)

SOIL 0_L LeftWall_32 -16 0 1 0

SOIL 0_R LeftWall_32 -16 0 2 180

* 4: Defining soil layers

*

* Soil Profile (Strato1_2_8_L_0)

*

LDATA Strato1_2_8_L_0 0 LeftWall_32

ATREST 0.53 1 1

WEIGHT 19 9 10

PERMEABILITY 1E-06

RESISTANCE 0 29

YOUNG 2E+04 6E+04

ENDL

*

* Soil Profile (Strato2_3095_82743_L_0)

*

LDATA Strato2_3095_82743_L_0 -8.7 LeftWall_32

ATREST 0.5 0.5 1

WEIGHT 20 10 10

PERMEABILITY 0.0001

RESISTANCE 20 35

YOUNG 5E+04 1.5E+05

ENDL

* 5: Defining structural materials

* Steel material: 108 Name=Fe360 E=206000200 kPa

MATERIAL Fe360_108 2.06E+08

* Concrete material: 104 Name=C25/30 E=31475800 kPa

MATERIAL C2530_104 3.148E+07

* Rebar material: 124 Name=acciaio armonico E=200100000 kPa

MATERIAL acciaioarmonico_124 2.001E+08

* Concrete material: 103 Name=C20/25 E=29962000 kPa

MATERIAL C2025_103 2.996E+07

* 6: Defining structural elements

* 6.1: Beams and combined Wall Elements

BEAM WallElement_33 LeftWall_32 -16 0 C2530_104 0.6848 00 00 0

* 6.2: Supports

WIRE Tirante1_429 LeftWall_32 -3.2 acciaioarmonico_124 1.316E-05 93.94 15 0 0

* 6.3: Strips

STRIP LeftWall_32 2 5 0 40 0 10 30

* 7: Defining Steps

STEP Stage1_31

CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32

CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32

CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32

CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32

CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 718 di 1221
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* RELEASE 2017.1 *Build date:Jul 11, 2017* *
*
*
* Ce.A.S. S.R.L CENTRO DI ANALISI STRUTTURALE *
* VIALE GIUSTINIANO 10 *
* 20129 M I L A N O (ITALIA) *
* TEL. +39 02 2020221 (+39 035 23 67 19) *
* FAX +39 02 29512533 (+39 035 42285 49) *
* email bruno.becci@ceas.it *
* Web Page www.ceas.it *
*****

```

```

JOB : NewProject.BaseDesignSection_28.SLERara_3454
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL STRESS >
ACCEPTED <PARAM ITEMAX 100 >
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 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                       |
|                               NewProject.BaseDesignSection_28.SLERara_3454           |
|                               Exe Time :29 July 2019 18:01:10                       |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 81
NO. OF COORDINATES (NCOORD) ..... 2
NO. OF NODE DOFS (NDOF) ..... 2
NO. OF EQUATIONS (NEQ) ..... 162
NO. OF CONSTRAINTS CARDS (NVINC) ..... 0
NO. OF ELEMENT GROUPS (NEG) ..... 4
NO. OF SOLUTION STEPS (NSTE) ..... 5
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 88
NO. OF LONG NAMES (LASTNAME) ..... 21
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH ..... 1
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.

```

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Cepav due



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ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.

Progetto
INORLotto
12Codifica Documento
E E2 CL GA 2701 002Rev.
AFoglio
719 di 1221

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|          PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017*   |
|-----+-----
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          NewProject.BaseDesignSection_28.SLERara_3454
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          Exe Time :29 July 2019      18:01:10
```

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

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          N O .   O F   C O M M A N D S       8 8
```

```
1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 100
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -16 0 1
7 : SOIL 0_L LeftWall_32 -16 0 1 0
8 : SOIL 0_R LeftWall_32 -16 0 2 180
9 : LDATA Strato1_2_8_L_0 0 LeftWall_32
10 : ATREST 0.53 1 1
11 : WEIGHT 19 9 10
12 : PERMEABILITY 1E-06
13 : RESISTANCE 0 29
14 : YOUNG 2E+04 6E+04
15 : ENDL
16 : LDATA Strato2_3095_82743_L_0 -8.7 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 20 10 10
19 : PERMEABILITY 0.0001
20 : RESISTANCE 20 35
21 : YOUNG 5E+04 1.5E+05
22 : ENDL
23 : MATERIAL Fe360_108 2.06E+08
24 : MATERIAL C2530_104 3.148E+07
25 : MATERIAL acciaioarmonico_124 2.001E+08
26 : MATERIAL C2025_103 2.996E+07
27 : BEAM WallElement_33 LeftWall_32 -16 0 C2530_104 0.6848 00 00 0
28 : WIRE Tirante1_429 LeftWall_32 -3.2 acciaioarmonico_124 1.316E-05 93.94 15 0 0
29 : STRIP LeftWall_32 2 5 0 40 0 10 30
30 : STEP Stage1_31
31 : CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32
32 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
33 : CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32
34 : CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32
35 : CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32
36 : CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32
37 : CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32
38 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
39 : CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32
40 : CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32
41 : CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32
42 : CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32
43 : CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
44 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
45 : CHANGE Strato2_3095_82743_L_0 U-COHE=20 LeftWall_32
46 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
47 : SETWALL LeftWall_32
48 : GEOM 0 0
49 : WATER -26 0 -16 0 0
50 : ADD WallElement_33
51 : ENDSTEP
52 : STEP Stage2_755438
53 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
54 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
55 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
56 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
57 : SETWALL LeftWall_32
58 : GEOM 0 0
59 : WATER -26 0 -16 0 0
60 : ENDSTEP
61 : STEP Stage3_158
62 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
63 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
64 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
65 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
66 : SETWALL LeftWall_32
67 : GEOM 0 -3.7
68 : WATER -26 0 -16 0 0
69 : ENDSTEP
70 : STEP Stage4_617
71 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
72 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
73 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
74 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
```




Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 720 di 1221
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75 : SETWALL LeftWall_32
76 : GEOM 0 -3.7
77 : WATER -26 0 -16 0 0
78 : ADD Tirante1_429
79 : ENDSTEP
80 : STEP Stage5_714
81 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
82 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
83 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
84 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
85 : SETWALL LeftWall_32
86 : GEOM 0 -8.7
87 : WATER -26 0 -16 0 0
88 : ENDSTEP
    
```

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      18:01:10
|
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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 / NODE
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 /						

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      18:01:10
|
-----
    
```

ELEMENT GROUP NO. 1

```

O_L
 5 81 0 1 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0
    
```

.....2D PLASTIC SOIL

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	active

material set no. 1

```

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

material set no. 2

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 721 di 1221
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prop(1) angle 0.00000
prop(2) layer as foreseen 2.00000

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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	0.2000	0.000	0.000	0.000	1.000
28	28	1	0.2000	0.000	0.000	0.000	1.000
29	29	1	0.2000	0.000	0.000	0.000	1.000
30	30	1	0.2000	0.000	0.000	0.000	1.000
31	31	1	0.2000	0.000	0.000	0.000	1.000
32	32	1	0.2000	0.000	0.000	0.000	1.000
33	33	1	0.2000	0.000	0.000	0.000	1.000
34	34	1	0.2000	0.000	0.000	0.000	1.000
35	35	1	0.2000	0.000	0.000	0.000	1.000
36	36	1	0.2000	0.000	0.000	0.000	1.000
37	37	1	0.2000	0.000	0.000	0.000	1.000
38	38	1	0.2000	0.000	0.000	0.000	1.000
39	39	1	0.2000	0.000	0.000	0.000	1.000
40	40	1	0.2000	0.000	0.000	0.000	1.000
41	41	1	0.2000	0.000	0.000	0.000	1.000
42	42	1	0.2000	0.000	0.000	0.000	1.000
43	43	1	0.2000	0.000	0.000	0.000	1.000
44	44	1	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	2	0.2000	0.000	0.000	0.000	1.000
63	63	2	0.2000	0.000	0.000	0.000	1.000
64	64	2	0.2000	0.000	0.000	0.000	1.000
65	65	2	0.2000	0.000	0.000	0.000	1.000
66	66	2	0.2000	0.000	0.000	0.000	1.000
67	67	2	0.2000	0.000	0.000	0.000	1.000
68	68	2	0.2000	0.000	0.000	0.000	1.000
69	69	2	0.2000	0.000	0.000	0.000	1.000
70	70	2	0.2000	0.000	0.000	0.000	1.000
71	71	2	0.2000	0.000	0.000	0.000	1.000
72	72	2	0.2000	0.000	0.000	0.000	1.000
73	73	2	0.2000	0.000	0.000	0.000	1.000
74	74	2	0.2000	0.000	0.000	0.000	1.000
75	75	2	0.2000	0.000	0.000	0.000	1.000
76	76	2	0.2000	0.000	0.000	0.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 722 di 1221
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77	77	2	0.2000	0.000	0.000	0.000	1.000
78	78	2	0.2000	0.000	0.000	0.000	1.000
79	79	2	0.2000	0.000	0.000	0.000	1.000
80	80	2	0.2000	0.000	0.000	0.000	1.000
81	81	2	0.1000	0.000	0.000	0.000	1.000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      18:01:10
+-----+
    
```

ELEMENT GROUP NO. 2

O_R :
5 81 0 1 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0

.....2D PLASTIC SOIL

element group behaviour throughout stage analysis

```

stage  status
-----
1      active
2      active
3      active
4      active
5      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

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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000
24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	0.2000	0.000	0.000	0.000	2.000
28	28	1	0.2000	0.000	0.000	0.000	2.000
29	29	1	0.2000	0.000	0.000	0.000	2.000
30	30	1	0.2000	0.000	0.000	0.000	2.000
31	31	1	0.2000	0.000	0.000	0.000	2.000
32	32	1	0.2000	0.000	0.000	0.000	2.000
33	33	1	0.2000	0.000	0.000	0.000	2.000
34	34	1	0.2000	0.000	0.000	0.000	2.000
35	35	1	0.2000	0.000	0.000	0.000	2.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 723 di 1221
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36	36	1	0.2000	0.000	0.000	0.000	2.000
37	37	1	0.2000	0.000	0.000	0.000	2.000
38	38	1	0.2000	0.000	0.000	0.000	2.000
39	39	1	0.2000	0.000	0.000	0.000	2.000
40	40	1	0.2000	0.000	0.000	0.000	2.000
41	41	1	0.2000	0.000	0.000	0.000	2.000
42	42	1	0.2000	0.000	0.000	0.000	2.000
43	43	1	0.2000	0.000	0.000	0.000	2.000
44	44	1	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	2	0.2000	0.000	0.000	0.000	2.000
63	63	2	0.2000	0.000	0.000	0.000	2.000
64	64	2	0.2000	0.000	0.000	0.000	2.000
65	65	2	0.2000	0.000	0.000	0.000	2.000
66	66	2	0.2000	0.000	0.000	0.000	2.000
67	67	2	0.2000	0.000	0.000	0.000	2.000
68	68	2	0.2000	0.000	0.000	0.000	2.000
69	69	2	0.2000	0.000	0.000	0.000	2.000
70	70	2	0.2000	0.000	0.000	0.000	2.000
71	71	2	0.2000	0.000	0.000	0.000	2.000
72	72	2	0.2000	0.000	0.000	0.000	2.000
73	73	2	0.2000	0.000	0.000	0.000	2.000
74	74	2	0.2000	0.000	0.000	0.000	2.000
75	75	2	0.2000	0.000	0.000	0.000	2.000
76	76	2	0.2000	0.000	0.000	0.000	2.000
77	77	2	0.2000	0.000	0.000	0.000	2.000
78	78	2	0.2000	0.000	0.000	0.000	2.000
79	79	2	0.2000	0.000	0.000	0.000	2.000
80	80	2	0.2000	0.000	0.000	0.000	2.000
81	81	2	0.1000	0.000	0.000	0.000	2.000

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:01:10  |
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```

ELEMENT GROUP NO. 3

WallElement_33      :
  2 80 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
4	active
5	active

```

material set no. 1

prop( 1) young modulus      0.314800E+08
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future .....0.252200E-43

```

```

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

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
724 di 1221

- 1 1.000
- 2 1.000
- 3 1.000
- 4 1.000
- 5 1.000

element data

el	na	nb	mat	erc1	erc2	thick	by-i	by-j
1	1	2	1	0.000	0.000	0.6848	0.000	0.000
2	2	3	1	0.000	0.000	0.6848	0.000	0.000
3	3	4	1	0.000	0.000	0.6848	0.000	0.000
4	4	5	1	0.000	0.000	0.6848	0.000	0.000
5	5	6	1	0.000	0.000	0.6848	0.000	0.000
6	6	7	1	0.000	0.000	0.6848	0.000	0.000
7	7	8	1	0.000	0.000	0.6848	0.000	0.000
8	8	9	1	0.000	0.000	0.6848	0.000	0.000
9	9	10	1	0.000	0.000	0.6848	0.000	0.000
10	10	11	1	0.000	0.000	0.6848	0.000	0.000
11	11	12	1	0.000	0.000	0.6848	0.000	0.000
12	12	13	1	0.000	0.000	0.6848	0.000	0.000
13	13	14	1	0.000	0.000	0.6848	0.000	0.000
14	14	15	1	0.000	0.000	0.6848	0.000	0.000
15	15	16	1	0.000	0.000	0.6848	0.000	0.000
16	16	17	1	0.000	0.000	0.6848	0.000	0.000
17	17	18	1	0.000	0.000	0.6848	0.000	0.000
18	18	19	1	0.000	0.000	0.6848	0.000	0.000
19	19	20	1	0.000	0.000	0.6848	0.000	0.000
20	20	21	1	0.000	0.000	0.6848	0.000	0.000
21	21	22	1	0.000	0.000	0.6848	0.000	0.000
22	22	23	1	0.000	0.000	0.6848	0.000	0.000
23	23	24	1	0.000	0.000	0.6848	0.000	0.000
24	24	25	1	0.000	0.000	0.6848	0.000	0.000
25	25	26	1	0.000	0.000	0.6848	0.000	0.000
26	26	27	1	0.000	0.000	0.6848	0.000	0.000
27	27	28	1	0.000	0.000	0.6848	0.000	0.000
28	28	29	1	0.000	0.000	0.6848	0.000	0.000
29	29	30	1	0.000	0.000	0.6848	0.000	0.000
30	30	31	1	0.000	0.000	0.6848	0.000	0.000
31	31	32	1	0.000	0.000	0.6848	0.000	0.000
32	32	33	1	0.000	0.000	0.6848	0.000	0.000
33	33	34	1	0.000	0.000	0.6848	0.000	0.000
34	34	35	1	0.000	0.000	0.6848	0.000	0.000
35	35	36	1	0.000	0.000	0.6848	0.000	0.000
36	36	37	1	0.000	0.000	0.6848	0.000	0.000
37	37	38	1	0.000	0.000	0.6848	0.000	0.000
38	38	39	1	0.000	0.000	0.6848	0.000	0.000
39	39	40	1	0.000	0.000	0.6848	0.000	0.000
40	40	41	1	0.000	0.000	0.6848	0.000	0.000
41	41	42	1	0.000	0.000	0.6848	0.000	0.000
42	42	43	1	0.000	0.000	0.6848	0.000	0.000
43	43	44	1	0.000	0.000	0.6848	0.000	0.000
44	44	45	1	0.000	0.000	0.6848	0.000	0.000
45	45	46	1	0.000	0.000	0.6848	0.000	0.000
46	46	47	1	0.000	0.000	0.6848	0.000	0.000
47	47	48	1	0.000	0.000	0.6848	0.000	0.000
48	48	49	1	0.000	0.000	0.6848	0.000	0.000
49	49	50	1	0.000	0.000	0.6848	0.000	0.000
50	50	51	1	0.000	0.000	0.6848	0.000	0.000
51	51	52	1	0.000	0.000	0.6848	0.000	0.000
52	52	53	1	0.000	0.000	0.6848	0.000	0.000
53	53	54	1	0.000	0.000	0.6848	0.000	0.000
54	54	55	1	0.000	0.000	0.6848	0.000	0.000
55	55	56	1	0.000	0.000	0.6848	0.000	0.000
56	56	57	1	0.000	0.000	0.6848	0.000	0.000
57	57	58	1	0.000	0.000	0.6848	0.000	0.000
58	58	59	1	0.000	0.000	0.6848	0.000	0.000
59	59	60	1	0.000	0.000	0.6848	0.000	0.000
60	60	61	1	0.000	0.000	0.6848	0.000	0.000
61	61	62	1	0.000	0.000	0.6848	0.000	0.000
62	62	63	1	0.000	0.000	0.6848	0.000	0.000
63	63	64	1	0.000	0.000	0.6848	0.000	0.000
64	64	65	1	0.000	0.000	0.6848	0.000	0.000
65	65	66	1	0.000	0.000	0.6848	0.000	0.000
66	66	67	1	0.000	0.000	0.6848	0.000	0.000
67	67	68	1	0.000	0.000	0.6848	0.000	0.000
68	68	69	1	0.000	0.000	0.6848	0.000	0.000
69	69	70	1	0.000	0.000	0.6848	0.000	0.000
70	70	71	1	0.000	0.000	0.6848	0.000	0.000
71	71	72	1	0.000	0.000	0.6848	0.000	0.000
72	72	73	1	0.000	0.000	0.6848	0.000	0.000
73	73	74	1	0.000	0.000	0.6848	0.000	0.000
74	74	75	1	0.000	0.000	0.6848	0.000	0.000

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 725 di 1221
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75	75	76	1	0.000	0.000	0.6848	0.000	0.000
76	76	77	1	0.000	0.000	0.6848	0.000	0.000
77	77	78	1	0.000	0.000	0.6848	0.000	0.000
78	78	79	1	0.000	0.000	0.6848	0.000	0.000
79	79	80	1	0.000	0.000	0.6848	0.000	0.000
80	80	81	1	0.000	0.000	0.6848	0.000	0.000

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:01:10          |
+-----+

```

```

ELEMENT GROUP NO.  4

Tirantel_429      :
 6  1  0  1  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  2  0
.....
.....2D POST-TENSION ANCHOR.....
.....

```

element group behaviour throughout stage analysis

stage	status
1	inactive
2	inactive
3	inactive
4	active
5	active

```

material set no.  1

prop( 1) angle      15.0000
prop( 2) young modulus 0.200100E+09
prop( 3) modification time 0.000000
prop( 4) new young modulus 0.000000

```

```

no. of step variable items:  2
step  -ve lim  +ve lim
-----
 1  0.000  0.000
 2  0.000  0.000
 3  0.000  0.000
 4  0.000  0.000
 5  0.000  0.000

```

```

element data

el  n  mat      a/l    pinit  yieldc  yieldt
-----
 1  17  1  0.1316E-04  93.94  0.000  0.000

```

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:01:10          |
+-----+

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```

NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 10
MAXIMUM POINTS/LCURVE (NPTM) ..... 5

```

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:01:10          |
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```

L O A D      D A T A

LOAD FUNCTION NUMBER = 1
NUMBER OF TIME POINTS = 5

```

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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
726 di 1221

TIME VALUE FUNCTION

0.00000 0.0000E+00
0.80000 0.0000E+00
1.00000 0.1000E+01
1.20000 0.0000E+00
6.00000 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
6.00000 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
6.00000 0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

TIME VALUE FUNCTION

0.00000 0.0000E+00
3.80000 0.0000E+00
4.00000 0.1000E+01
4.20000 0.0000E+00
6.00000 0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 5

TIME VALUE FUNCTION

0.00000 0.0000E+00
4.80000 0.0000E+00
5.00000 0.1000E+01
5.20000 0.0000E+00
6.00000 0.0000E+00

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000 0.0000E+00
0.80000 0.0000E+00
1.00000 0.1000E+01
6.00000 0.1000E+01

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000 0.0000E+00
1.80000 0.0000E+00
2.00000 0.1000E+01
6.00000 0.1000E+01

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 727 di 1221
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LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
6.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

```

+-----+
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|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:01:10          |
+-----+

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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
STEP	4	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	4	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:01:10          |
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NO. OF LAYERS 2



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 728 di 1221
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NO. OF DATA PER LAYER..... 100

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:01:10  |
+-----+
    
```

LAYER DESCRIPTORS FOR STEP NO. 1

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

```

ITEM NO. 1<NAME    >= 14.000    (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL  >= 0.0000   (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. 9<U-FRICT >= 29.000   (BOTH WALLS)
ITEM NO. 10<U-KA  >= 0.30400  WALL NO.    1
ITEM NO. 11<U-KP  >= 4.0410   WALL NO.    1
ITEM NO. 12<K0-NC >= 0.53000  (BOTH WALLS)
ITEM NO. 13<NEXP  >= 1.0000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 20000.   (BOTH WALLS)
ITEM NO. 18<EUR   >= 60000.   (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 29.000   (BOTH WALLS)
ITEM NO. 60<D-KA  >= 0.30400  WALL NO.    1
ITEM NO. 61<D-KP  >= 4.0410   WALL NO.    1
ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)
    
```

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

```

ITEM NO. 1<NAME    >= 15.000    (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL  >= -8.7000  (BOTH WALLS)
ITEM NO. 4<WALL   >= 1.0000   (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000   (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000   (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000   (BOTH WALLS)
ITEM NO. 8<U-COHE >= 20.000   (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 35.000   (BOTH WALLS)
ITEM NO. 10<U-KA  >= 0.23500  WALL NO.    1
ITEM NO. 11<U-KP  >= 5.8790   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   >= 50000.   (BOTH WALLS)
ITEM NO. 18<EUR   >= 0.15000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 58<D-COHE >= 20.000   (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 35.000   (BOTH WALLS)
ITEM NO. 60<D-KA  >= 0.23500  WALL NO.    1
ITEM NO. 61<D-KP  >= 5.8790   WALL NO.    1
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)
    
```

LAYER DESCRIPTORS FOR STEP NO. 2

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

```

ITEM NO. 1<NAME    >= 14.000    (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO. 3<LEVEL  >= 0.0000   (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. 9<U-FRICT >= 29.000   (BOTH WALLS)
ITEM NO. 10<U-KA  >= 0.30400  WALL NO.    1
ITEM NO. 11<U-KP  >= 4.0410   WALL NO.    1
ITEM NO. 12<K0-NC >= 0.53000  (BOTH WALLS)
    
```

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 729 di 1221
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ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -8.7000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -8.7000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 730 di 1221
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ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -8.7000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 5

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 731 di 1221
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ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 5

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -8.7000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 10 VALUES

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:01:10  |
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PHASE DESCRIPTORS

STEP NO.	1	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-16.00	-16.00
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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 732 di 1221
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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

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STEP NO.      2

                                LEFT WALL  RIGHT WALL
Y                0.000      -0.9990E+30
Z-PC             0.000      0.000
Z-EXCAVATION     0.000      0.000
Z-WATER_TABLE   -26.00     -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL      0.000      0.000
ZQ              0.000      0.000
DZW_OF_THE_WATER_TABLE         0.000      0.000
QS_ON_THE_EXCAVATION_SIDE       0.000      0.000
ZQS             -0.9990E+30  -0.9990E+30
ZCUT            0.000      0.000
BALANCE LEVEL FOR PORE PRESSURES -16.00     -16.00
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

                                LEFT WALL  RIGHT WALL
Y                0.000      -0.9990E+30
Z-PC             0.000      0.000
Z-EXCAVATION     -3.700     0.000
Z-WATER_TABLE   -26.00     -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL      0.000      0.000
ZQ              0.000      0.000
DZW_OF_THE_WATER_TABLE         0.000      0.000
QS_ON_THE_EXCAVATION_SIDE       0.000      0.000
ZQS             -0.9990E+30  -0.9990E+30
ZCUT            0.000      0.000
BALANCE LEVEL FOR PORE PRESSURES -16.00     -16.00
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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INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
733 di 1221

=====end of step 3

STEP NO.	4	LEFT WALL	RIGHT WALL
Y	0.000	0.000	-0.9990E+30
Z-PC	0.000	0.000	0.000
Z-EXCAVATION	-3.700	0.000	0.000
Z-WATER_TABLE	-26.00	-0.9990E+30	0.000
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000	0.000
ZQ	0.000	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30	0.000
ZCUT	0.000	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-16.00	-16.00	0.000
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000	0.000
PORE_TAB_FLAG (gt.0= use tabs)	0.000	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000	0.000
Downhill reduction factor for effe	0.000	0.000	0.000
Downhill reduction factor for pore	0.000	0.000	0.000
Uphill reduction factor for effect	0.000	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000	0.000

=====end of step 4

STEP NO.	5	LEFT WALL	RIGHT WALL
Y	0.000	0.000	-0.9990E+30
Z-PC	0.000	0.000	0.000
Z-EXCAVATION	-8.700	0.000	0.000
Z-WATER_TABLE	-26.00	-0.9990E+30	0.000
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000	0.000
ZQ	0.000	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30	0.000
ZCUT	0.000	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-16.00	-16.00	0.000
WATER_BEHAVIOUR_FLAG (LINING OPT)	0.000	0.000	0.000
PORE_UPDATE_FLAG	0.000	0.000	0.000
PORE_TAB_FLAG (gt.0= use tabs)	0.000	0.000	0.000
lateral thrusts reduction elevatio	0.000	0.000	0.000
Downhill reduction factor for effe	0.000	0.000	0.000
Downhill reduction factor for pore	0.000	0.000	0.000
Uphill reduction factor for effect	0.000	0.000	0.000
Uphill reduction factor for pore p	0.000	0.000	0.000
SEISMIC HORIZONTAL ACCEL. Kh [g]	0.000	0.000	0.000
UPHILL VERTICAL ACCEL. Kv_uh [g]	0.000	0.000	0.000
DOWNHILL VERTICAL ACCEL.Kv_dh [g]	0.000	0.000	0.000
UPHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000	0.000
UPHILL DELTA/PHI RATIO	0.000	0.000	0.000
DOWNHILL BETA ANGLE (SLOPE) [deg]	0.000	0.000	0.000
DOWNHILL DELTA/PHI RATIO	0.000	0.000	0.000
DYN.WATER BEHAVIOUR	0.000	0.000	0.000
Excess pore pressure RATIO Ru	0.000	0.000	0.000
SEISMIC PRESSURE LOWER VALUE	0.000	0.000	0.000
SEISMIC PRESSURE UPPER VALUE	0.000	0.000	0.000
SEISMIC PRESSURE LOWER LEVEL	0.000	0.000	0.000
SEISMIC PRESSURE UPPER LEVEL	0.000	0.000	0.000

=====end of step 5

LEFT-HAND WALL

LOWER LEVEL	-16.00000
UPPER LEVEL	0.00000

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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
734 di 1221

RIGHT-HAND WALL

LOWER LEVEL -16.00000
UPPER LEVEL 0.00000

| PARATIEPLUS(TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| |
| NewProject.BaseDesignSection_28.SLERara_3454 |
Exe Time :29 July 2019 18:01:10

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 2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 5.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 0.000000000000000E+000
FOUNDATION WIDTH (B) 40.000000000000000
ZETA-F..... 0.000000000000000E+000
Q-F 10.000000000000000
BETA 30.000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION 3781

NO. OF D.P.W FOR THIS AREA 9608
MAX NO. OF D.P.W. AVAILABLE 81920
** MAX NO OF ITERATIONS SET TO 100

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.5117E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 30.73 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.5117E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 162 NODE 81 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000
RINORM=0.5117E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 30.73 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.5117E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 162 NODE 81 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.5117E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 30.73 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.5117E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 162 NODE 81 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 735 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:01:10  |
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New Project
 SOLUTION REACHED USING 2 ITERATIONS ON 100
 PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)
 PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

Y-DISPL.F X-ROT. F
 (02) (04) (

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:01:10  |
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New Project
 STRESS RESULTS FOR GROUP NO. 1
 0_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
 CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	1.5916E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_2_8_L_0									
2 D	0.4028	0.000	3.800	2.014	3.800	2.014	V-C	1.5916E+04	-0.2000	0.000	1.000	1.000
2.014	0.000	0.000	Strato1_2_8_L_0									
3 D	0.8056	0.000	7.600	4.028	7.600	4.028	V-C	1.5916E+04	-0.4000	0.000	1.000	1.000
4.028	0.000	0.000	Strato1_2_8_L_0									
4 D	1.208	0.000	11.40	6.042	11.40	6.042	V-C	1.5916E+04	-0.6000	0.000	1.000	1.000
6.042	0.000	0.000	Strato1_2_8_L_0									
5 D	1.611	0.000	15.20	8.056	15.20	8.056	V-C	1.5916E+04	-0.8000	0.000	1.000	1.000
8.056	0.000	0.000	Strato1_2_8_L_0									
6 D	2.014	0.000	19.00	10.07	19.00	10.07	V-C	1.5916E+04	-1.000	0.000	1.000	1.000
10.07	0.000	0.000	Strato1_2_8_L_0									
7 D	2.417	0.000	22.80	12.08	22.80	12.08	V-C	1.5916E+04	-1.200	0.000	1.000	1.000
12.08	0.000	0.000	Strato1_2_8_L_0									
8 D	2.820	0.000	26.60	14.10	26.60	14.10	V-C	1.5916E+04	-1.400	0.000	1.000	1.000
14.10	0.000	0.000	Strato1_2_8_L_0									
9 D	3.222	0.000	30.40	16.11	30.40	16.11	V-C	1.5916E+04	-1.600	0.000	1.000	1.000
16.11	0.000	0.000	Strato1_2_8_L_0									
10 D	3.625	0.000	34.20	18.13	34.20	18.13	V-C	1.5916E+04	-1.800	0.000	1.000	1.000
18.13	0.000	0.000	Strato1_2_8_L_0									
11 D	4.028	0.000	38.00	20.14	38.00	20.14	V-C	1.5916E+04	-2.000	0.000	1.000	1.000
20.14	0.000	0.000	Strato1_2_8_L_0									
12 D	4.431	0.000	41.80	22.15	41.80	22.15	V-C	1.5916E+04	-2.200	0.000	1.000	1.000
22.15	0.000	0.000	Strato1_2_8_L_0									
13 D	4.834	0.000	45.60	24.17	45.60	24.17	V-C	1.5916E+04	-2.400	0.000	1.000	1.000
24.17	0.000	0.000	Strato1_2_8_L_0									
14 D	5.236	0.000	49.40	26.18	49.40	26.18	V-C	1.5916E+04	-2.600	0.000	1.000	1.000
26.18	0.000	0.000	Strato1_2_8_L_0									
15 D	5.639	0.000	53.20	28.20	53.20	28.20	V-C	1.5916E+04	-2.800	0.000	1.000	1.000
28.20	0.000	0.000	Strato1_2_8_L_0									
16 D	6.042	0.000	57.00	30.21	57.00	30.21	V-C	1.5916E+04	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Strato1_2_8_L_0									
17 D	6.445	0.000	60.80	32.22	60.80	32.22	V-C	1.5916E+04	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Strato1_2_8_L_0									
18 D	6.848	0.000	64.60	34.24	64.60	34.24	V-C	1.5916E+04	-3.400	0.000	1.000	1.000

GENERAL CONTRACTOR



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Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 736 di 1221
34.24	0.000	0.000	Strato1_2_8_L_0				
19 D	7.250	0.000	68.40 36.25	68.40	36.25	V-C 1.5916E+04	-3.600 0.000 1.000 1.000
36.25	0.000	0.000	Strato1_2_8_L_0				
20 D	7.653	0.000	72.20 38.27	72.20	38.27	V-C 1.5916E+04	-3.800 0.000 1.000 1.000
38.27	0.000	0.000	Strato1_2_8_L_0				
21 D	8.056	0.000	76.00 40.28	76.00	40.28	V-C 1.5916E+04	-4.000 0.000 1.000 1.000
40.28	0.000	0.000	Strato1_2_8_L_0				
22 D	8.459	0.000	79.80 42.29	79.80	42.29	V-C 1.5916E+04	-4.200 0.000 1.000 1.000
42.29	0.000	0.000	Strato1_2_8_L_0				
23 D	8.862	0.000	83.60 44.31	83.60	44.31	V-C 1.5916E+04	-4.400 0.000 1.000 1.000
44.31	0.000	0.000	Strato1_2_8_L_0				
24 D	9.264	0.000	87.40 46.32	87.40	46.32	V-C 1.5916E+04	-4.600 0.000 1.000 1.000
46.32	0.000	0.000	Strato1_2_8_L_0				
25 D	9.667	0.000	91.20 48.34	91.20	48.34	V-C 1.5916E+04	-4.800 0.000 1.000 1.000
48.34	0.000	0.000	Strato1_2_8_L_0				
26 D	10.07	0.000	95.00 50.35	95.00	50.35	V-C 1.5916E+04	-5.000 0.000 1.000 1.000
50.35	0.000	0.000	Strato1_2_8_L_0				
27 D	10.47	0.000	98.80 52.36	98.80	52.36	V-C 1.5916E+04	-5.200 0.000 1.000 1.000
52.36	0.000	0.000	Strato1_2_8_L_0				
28 D	10.88	0.000	102.6 54.38	102.6	54.38	V-C 1.5916E+04	-5.400 0.000 1.000 1.000
54.38	0.000	0.000	Strato1_2_8_L_0				
29 D	11.28	0.000	106.4 56.39	106.4	56.39	V-C 1.5916E+04	-5.600 0.000 1.000 1.000
56.39	0.000	0.000	Strato1_2_8_L_0				
30 D	11.68	0.000	110.2 58.41	110.2	58.41	V-C 1.5916E+04	-5.800 0.000 1.000 1.000
58.41	0.000	0.000	Strato1_2_8_L_0				
31 D	12.08	0.000	114.0 60.42	114.0	60.42	V-C 1.5916E+04	-6.000 0.000 1.000 1.000
60.42	0.000	0.000	Strato1_2_8_L_0				
32 D	12.49	0.000	117.8 62.43	117.8	62.43	V-C 1.5916E+04	-6.200 0.000 1.000 1.000
62.43	0.000	0.000	Strato1_2_8_L_0				
33 D	12.89	0.000	121.6 64.45	121.6	64.45	V-C 1.5916E+04	-6.400 0.000 1.000 1.000
64.45	0.000	0.000	Strato1_2_8_L_0				
34 D	13.29	0.000	125.4 66.46	125.4	66.46	V-C 1.5916E+04	-6.600 0.000 1.000 1.000
66.46	0.000	0.000	Strato1_2_8_L_0				
35 D	13.70	0.000	129.2 68.48	129.2	68.48	V-C 1.5916E+04	-6.800 0.000 1.000 1.000
68.48	0.000	0.000	Strato1_2_8_L_0				
36 D	14.10	0.000	133.0 70.49	133.0	70.49	V-C 1.5916E+04	-7.000 0.000 1.000 1.000
70.49	0.000	0.000	Strato1_2_8_L_0				
37 D	14.50	0.000	136.8 72.50	136.8	72.50	V-C 1.5916E+04	-7.200 0.000 1.000 1.000
72.50	0.000	0.000	Strato1_2_8_L_0				
38 D	14.90	0.000	140.6 74.52	140.6	74.52	V-C 1.5916E+04	-7.400 0.000 1.000 1.000
74.52	0.000	0.000	Strato1_2_8_L_0				
39 D	15.31	0.000	144.4 76.53	144.4	76.53	V-C 1.5916E+04	-7.600 0.000 1.000 1.000
76.53	0.000	0.000	Strato1_2_8_L_0				
40 D	15.71	0.000	148.2 78.55	148.2	78.55	V-C 1.5916E+04	-7.800 0.000 1.000 1.000
78.55	0.000	0.000	Strato1_2_8_L_0				
41 D	16.11	0.000	152.0 80.56	152.0	80.56	V-C 1.5916E+04	-8.000 0.000 1.000 1.000
80.56	0.000	0.000	Strato1_2_8_L_0				
42 D	16.51	0.000	155.8 82.57	155.8	82.57	V-C 1.5916E+04	-8.200 0.000 1.000 1.000
82.57	0.000	0.000	Strato1_2_8_L_0				
43 D	16.92	0.000	159.6 84.59	159.6	84.59	V-C 1.5916E+04	-8.400 0.000 1.000 1.000
84.59	0.000	0.000	Strato1_2_8_L_0				
44 D	17.32	0.000	163.4 86.60	163.4	86.60	V-C 1.5916E+04	-8.600 0.000 1.000 1.000
86.60	0.000	0.000	Strato1_2_8_L_0				
45 D	16.73	0.000	167.3 83.65	167.3	83.65	V-C 4.5023E+04	-8.800 0.000 1.000 1.000
83.65	0.000	0.000	Strato2_3095_82743_L_0				
46 D	17.13	0.000	171.3 85.65	171.3	85.65	V-C 4.5023E+04	-9.000 0.000 1.000 1.000
85.65	0.000	0.000	Strato2_3095_82743_L_0				
47 D	17.53	0.000	175.3 87.65	175.3	87.65	V-C 4.5023E+04	-9.200 0.000 1.000 1.000
87.65	0.000	0.000	Strato2_3095_82743_L_0				
48 D	17.93	0.000	179.3 89.65	179.3	89.65	V-C 4.5023E+04	-9.400 0.000 1.000 1.000
89.65	0.000	0.000	Strato2_3095_82743_L_0				
49 D	18.33	0.000	183.3 91.65	183.3	91.65	V-C 4.5023E+04	-9.600 0.000 1.000 1.000
91.65	0.000	0.000	Strato2_3095_82743_L_0				
50 D	18.73	0.000	187.3 93.65	187.3	93.65	V-C 4.5023E+04	-9.800 0.000 1.000 1.000
93.65	0.000	0.000	Strato2_3095_82743_L_0				
51 D	19.13	0.000	191.3 95.65	191.3	95.65	V-C 4.5023E+04	-10.00 0.000 1.000 1.000
95.65	0.000	0.000	Strato2_3095_82743_L_0				
52 D	19.53	0.000	195.3 97.65	195.3	97.65	V-C 4.5023E+04	-10.20 0.000 1.000 1.000
97.65	0.000	0.000	Strato2_3095_82743_L_0				
53 D	19.93	0.000	199.3 99.65	199.3	99.65	V-C 4.5023E+04	-10.40 0.000 1.000 1.000
99.65	0.000	0.000	Strato2_3095_82743_L_0				
54 D	20.33	0.000	203.3 101.6	203.3	101.6	V-C 4.5023E+04	-10.60 0.000 1.000 1.000
101.6	0.000	0.000	Strato2_3095_82743_L_0				
55 D	20.73	0.000	207.3 103.6	207.3	103.6	V-C 4.5023E+04	-10.80 0.000 1.000 1.000
103.6	0.000	0.000	Strato2_3095_82743_L_0				
56 D	21.13	0.000	211.3 105.6	211.3	105.6	V-C 4.5023E+04	-11.00 0.000 1.000 1.000
105.6	0.000	0.000	Strato2_3095_82743_L_0				
57 D	21.53	0.000	215.3 107.6	215.3	107.6	V-C 4.5023E+04	-11.20 0.000 1.000 1.000
107.6	0.000	0.000	Strato2_3095_82743_L_0				
58 D	21.93	0.000	219.3 109.6	219.3	109.6	V-C 4.5023E+04	-11.40 0.000 1.000 1.000
109.6	0.000	0.000	Strato2_3095_82743_L_0				
59 D	22.33	0.000	223.3 111.6	223.3	111.6	V-C 4.5023E+04	-11.60 0.000 1.000 1.000
111.6	0.000	0.000	Strato2_3095_82743_L_0				
60 D	22.73	0.000	227.3 113.6	227.3	113.6	V-C 4.5023E+04	-11.80 0.000 1.000 1.000
113.6	0.000	0.000	Strato2_3095_82743_L_0				

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 738 di 1221						
9 D	3.222	0.000	30.40 16.11	30.40	16.11	V-C	1.1045E+04	-1.600	0.000	1.000	1.000
16.11	0.000	0.000	Strato1_2_8_L_0								
10 D	3.625	0.000	34.20 18.13	34.20	18.13	V-C	1.1045E+04	-1.800	0.000	1.000	1.000
18.13	0.000	0.000	Strato1_2_8_L_0								
11 D	4.028	0.000	38.00 20.14	38.00	20.14	V-C	1.1045E+04	-2.000	0.000	1.000	1.000
20.14	0.000	0.000	Strato1_2_8_L_0								
12 D	4.431	0.000	41.80 22.15	41.80	22.15	V-C	1.1045E+04	-2.200	0.000	1.000	1.000
22.15	0.000	0.000	Strato1_2_8_L_0								
13 D	4.834	0.000	45.60 24.17	45.60	24.17	V-C	1.1045E+04	-2.400	0.000	1.000	1.000
24.17	0.000	0.000	Strato1_2_8_L_0								
14 D	5.236	0.000	49.40 26.18	49.40	26.18	V-C	1.1045E+04	-2.600	0.000	1.000	1.000
26.18	0.000	0.000	Strato1_2_8_L_0								
15 D	5.639	0.000	53.20 28.20	53.20	28.20	V-C	1.1045E+04	-2.800	0.000	1.000	1.000
28.20	0.000	0.000	Strato1_2_8_L_0								
16 D	6.042	0.000	57.00 30.21	57.00	30.21	V-C	1.1045E+04	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Strato1_2_8_L_0								
17 D	6.445	0.000	60.80 32.22	60.80	32.22	V-C	1.1045E+04	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Strato1_2_8_L_0								
18 D	6.848	0.000	64.60 34.24	64.60	34.24	V-C	1.1045E+04	-3.400	0.000	1.000	1.000
34.24	0.000	0.000	Strato1_2_8_L_0								
19 D	7.250	0.000	68.40 36.25	68.40	36.25	V-C	1.1045E+04	-3.600	0.000	1.000	1.000
36.25	0.000	0.000	Strato1_2_8_L_0								
20 D	7.653	0.000	72.20 38.27	72.20	38.27	V-C	1.1045E+04	-3.800	0.000	1.000	1.000
38.27	0.000	0.000	Strato1_2_8_L_0								
21 D	8.056	0.000	76.00 40.28	76.00	40.28	V-C	1.1045E+04	-4.000	0.000	1.000	1.000
40.28	0.000	0.000	Strato1_2_8_L_0								
22 D	8.459	0.000	79.80 42.29	79.80	42.29	V-C	1.1045E+04	-4.200	0.000	1.000	1.000
42.29	0.000	0.000	Strato1_2_8_L_0								
23 D	8.862	0.000	83.60 44.31	83.60	44.31	V-C	1.1045E+04	-4.400	0.000	1.000	1.000
44.31	0.000	0.000	Strato1_2_8_L_0								
24 D	9.264	0.000	87.40 46.32	87.40	46.32	V-C	1.1045E+04	-4.600	0.000	1.000	1.000
46.32	0.000	0.000	Strato1_2_8_L_0								
25 D	9.667	0.000	91.20 48.34	91.20	48.34	V-C	1.1045E+04	-4.800	0.000	1.000	1.000
48.34	0.000	0.000	Strato1_2_8_L_0								
26 D	10.07	0.000	95.00 50.35	95.00	50.35	V-C	1.1045E+04	-5.000	0.000	1.000	1.000
50.35	0.000	0.000	Strato1_2_8_L_0								
27 D	10.47	0.000	98.80 52.36	98.80	52.36	V-C	1.1045E+04	-5.200	0.000	1.000	1.000
52.36	0.000	0.000	Strato1_2_8_L_0								
28 D	10.88	0.000	102.6 54.38	102.6	54.38	V-C	1.1045E+04	-5.400	0.000	1.000	1.000
54.38	0.000	0.000	Strato1_2_8_L_0								
29 D	11.28	0.000	106.4 56.39	106.4	56.39	V-C	1.1045E+04	-5.600	0.000	1.000	1.000
56.39	0.000	0.000	Strato1_2_8_L_0								
30 D	11.68	0.000	110.2 58.41	110.2	58.41	V-C	1.1045E+04	-5.800	0.000	1.000	1.000
58.41	0.000	0.000	Strato1_2_8_L_0								
31 D	12.08	0.000	114.0 60.42	114.0	60.42	V-C	1.1045E+04	-6.000	0.000	1.000	1.000
60.42	0.000	0.000	Strato1_2_8_L_0								
32 D	12.49	0.000	117.8 62.43	117.8	62.43	V-C	1.1045E+04	-6.200	0.000	1.000	1.000
62.43	0.000	0.000	Strato1_2_8_L_0								
33 D	12.89	0.000	121.6 64.45	121.6	64.45	V-C	1.1045E+04	-6.400	0.000	1.000	1.000
64.45	0.000	0.000	Strato1_2_8_L_0								
34 D	13.29	0.000	125.4 66.46	125.4	66.46	V-C	1.1045E+04	-6.600	0.000	1.000	1.000
66.46	0.000	0.000	Strato1_2_8_L_0								
35 D	13.70	0.000	129.2 68.48	129.2	68.48	V-C	1.1045E+04	-6.800	0.000	1.000	1.000
68.48	0.000	0.000	Strato1_2_8_L_0								
36 D	14.10	0.000	133.0 70.49	133.0	70.49	V-C	1.1045E+04	-7.000	0.000	1.000	1.000
70.49	0.000	0.000	Strato1_2_8_L_0								
37 D	14.50	0.000	136.8 72.50	136.8	72.50	V-C	1.1045E+04	-7.200	0.000	1.000	1.000
72.50	0.000	0.000	Strato1_2_8_L_0								
38 D	14.90	0.000	140.6 74.52	140.6	74.52	V-C	1.1045E+04	-7.400	0.000	1.000	1.000
74.52	0.000	0.000	Strato1_2_8_L_0								
39 D	15.31	0.000	144.4 76.53	144.4	76.53	V-C	1.1045E+04	-7.600	0.000	1.000	1.000
76.53	0.000	0.000	Strato1_2_8_L_0								
40 D	15.71	0.000	148.2 78.55	148.2	78.55	V-C	1.1045E+04	-7.800	0.000	1.000	1.000
78.55	0.000	0.000	Strato1_2_8_L_0								
41 D	16.11	0.000	152.0 80.56	152.0	80.56	V-C	1.1045E+04	-8.000	0.000	1.000	1.000
80.56	0.000	0.000	Strato1_2_8_L_0								
42 D	16.51	0.000	155.8 82.57	155.8	82.57	V-C	1.1045E+04	-8.200	0.000	1.000	1.000
82.57	0.000	0.000	Strato1_2_8_L_0								
43 D	16.92	0.000	159.6 84.59	159.6	84.59	V-C	1.1045E+04	-8.400	0.000	1.000	1.000
84.59	0.000	0.000	Strato1_2_8_L_0								
44 D	17.32	0.000	163.4 86.60	163.4	86.60	V-C	1.1045E+04	-8.600	0.000	1.000	1.000
86.60	0.000	0.000	Strato1_2_8_L_0								
45 D	16.73	0.000	167.3 83.65	167.3	83.65	V-C	2.4402E+04	-8.800	0.000	1.000	1.000
83.65	0.000	0.000	Strato2_3095_82743_L_0								
46 D	17.13	0.000	171.3 85.65	171.3	85.65	V-C	2.4402E+04	-9.000	0.000	1.000	1.000
85.65	0.000	0.000	Strato2_3095_82743_L_0								
47 D	17.53	0.000	175.3 87.65	175.3	87.65	V-C	2.4402E+04	-9.200	0.000	1.000	1.000
87.65	0.000	0.000	Strato2_3095_82743_L_0								
48 D	17.93	0.000	179.3 89.65	179.3	89.65	V-C	2.4402E+04	-9.400	0.000	1.000	1.000
89.65	0.000	0.000	Strato2_3095_82743_L_0								
49 D	18.33	0.000	183.3 91.65	183.3	91.65	V-C	2.4402E+04	-9.600	0.000	1.000	1.000
91.65	0.000	0.000	Strato2_3095_82743_L_0								
50 D	18.73	0.000	187.3 93.65	187.3	93.65	V-C	2.4402E+04	-9.800	0.000	1.000	1.000
93.65	0.000	0.000	Strato2_3095_82743_L_0								
51 D	19.13	0.000	191.3 95.65	191.3	95.65	V-C	2.4402E+04	-10.00	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 739 di 1221
95.65	0.000	0.000	Strato2_3095_82743_L_0		
52 D	19.53	0.000	195.3 97.65	195.3	97.65
97.65	0.000	0.000	Strato2_3095_82743_L_0		
53 D	19.93	0.000	199.3 99.65	199.3	99.65
99.65	0.000	0.000	Strato2_3095_82743_L_0		
54 D	20.33	0.000	203.3 101.6	203.3	101.6
101.6	0.000	0.000	Strato2_3095_82743_L_0		
55 D	20.73	0.000	207.3 103.6	207.3	103.6
103.6	0.000	0.000	Strato2_3095_82743_L_0		
56 D	21.13	0.000	211.3 105.6	211.3	105.6
105.6	0.000	0.000	Strato2_3095_82743_L_0		
57 D	21.53	0.000	215.3 107.6	215.3	107.6
107.6	0.000	0.000	Strato2_3095_82743_L_0		
58 D	21.93	0.000	219.3 109.6	219.3	109.6
109.6	0.000	0.000	Strato2_3095_82743_L_0		
59 D	22.33	0.000	223.3 111.6	223.3	111.6
111.6	0.000	0.000	Strato2_3095_82743_L_0		
60 D	22.73	0.000	227.3 113.6	227.3	113.6
113.6	0.000	0.000	Strato2_3095_82743_L_0		
61 D	23.13	0.000	231.3 115.6	231.3	115.6
115.6	0.000	0.000	Strato2_3095_82743_L_0		
62 D	23.53	0.000	235.3 117.6	235.3	117.6
117.6	0.000	0.000	Strato2_3095_82743_L_0		
63 D	23.93	0.000	239.3 119.6	239.3	119.6
119.6	0.000	0.000	Strato2_3095_82743_L_0		
64 D	24.33	0.000	243.3 121.6	243.3	121.6
121.6	0.000	0.000	Strato2_3095_82743_L_0		
65 D	24.73	0.000	247.3 123.6	247.3	123.6
123.6	0.000	0.000	Strato2_3095_82743_L_0		
66 D	25.13	0.000	251.3 125.6	251.3	125.6
125.6	0.000	0.000	Strato2_3095_82743_L_0		
67 D	25.53	0.000	255.3 127.6	255.3	127.6
127.6	0.000	0.000	Strato2_3095_82743_L_0		
68 D	25.93	0.000	259.3 129.6	259.3	129.6
129.6	0.000	0.000	Strato2_3095_82743_L_0		
69 D	26.33	0.000	263.3 131.6	263.3	131.6
131.6	0.000	0.000	Strato2_3095_82743_L_0		
70 D	26.73	0.000	267.3 133.6	267.3	133.6
133.6	0.000	0.000	Strato2_3095_82743_L_0		
71 D	27.13	0.000	271.3 135.6	271.3	135.6
135.6	0.000	0.000	Strato2_3095_82743_L_0		
72 D	27.53	0.000	275.3 137.6	275.3	137.6
137.6	0.000	0.000	Strato2_3095_82743_L_0		
73 D	27.93	0.000	279.3 139.6	279.3	139.6
139.6	0.000	0.000	Strato2_3095_82743_L_0		
74 D	28.33	0.000	283.3 141.6	283.3	141.6
141.6	0.000	0.000	Strato2_3095_82743_L_0		
75 D	28.73	0.000	287.3 143.6	287.3	143.6
143.6	0.000	0.000	Strato2_3095_82743_L_0		
76 D	29.13	0.000	291.3 145.6	291.3	145.6
145.6	0.000	0.000	Strato2_3095_82743_L_0		
77 D	29.53	0.000	295.3 147.6	295.3	147.6
147.6	0.000	0.000	Strato2_3095_82743_L_0		
78 D	29.93	0.000	299.3 149.6	299.3	149.6
149.6	0.000	0.000	Strato2_3095_82743_L_0		
79 D	30.33	0.000	303.3 151.6	303.3	151.6
151.6	0.000	0.000	Strato2_3095_82743_L_0		
80 D	30.73	0.000	307.3 153.6	307.3	153.6
153.6	0.000	0.000	Strato2_3095_82743_L_0		
81 D	15.56	0.000	311.3 155.6	311.3	155.6
155.6	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SLEFara_3454                                                                                   |
|          Exe Time :29 July 2019  18:01:10                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 740 di 1221
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2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000
31	0.0000	0.0000	0.0000	0.0000
32	0.0000	0.0000	0.0000	0.0000
33	0.0000	0.0000	0.0000	0.0000
34	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000
36	0.0000	0.0000	0.0000	0.0000
37	0.0000	0.0000	0.0000	0.0000
38	0.0000	0.0000	0.0000	0.0000
39	0.0000	0.0000	0.0000	0.0000
40	0.0000	0.0000	0.0000	0.0000
41	0.0000	0.0000	0.0000	0.0000
42	0.0000	0.0000	0.0000	0.0000
43	0.0000	0.0000	0.0000	0.0000
44	0.0000	0.0000	0.0000	0.0000
45	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000
47	0.0000	0.0000	0.0000	0.0000
48	0.0000	0.0000	0.0000	0.0000
49	0.0000	0.0000	0.0000	0.0000
50	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	0.0000	0.0000
52	0.0000	0.0000	0.0000	0.0000
53	0.0000	0.0000	0.0000	0.0000
54	0.0000	0.0000	0.0000	0.0000
55	0.0000	0.0000	0.0000	0.0000
56	0.0000	0.0000	0.0000	0.0000
57	0.0000	0.0000	0.0000	0.0000
58	0.0000	0.0000	0.0000	0.0000
59	0.0000	0.0000	0.0000	0.0000
60	0.0000	0.0000	0.0000	0.0000
61	0.0000	0.0000	0.0000	0.0000
62	0.0000	0.0000	0.0000	0.0000
63	0.0000	0.0000	0.0000	0.0000
64	0.0000	0.0000	0.0000	0.0000
65	0.0000	0.0000	0.0000	0.0000
66	0.0000	0.0000	0.0000	0.0000
67	0.0000	0.0000	0.0000	0.0000
68	0.0000	0.0000	0.0000	0.0000
69	0.0000	0.0000	0.0000	0.0000
70	0.0000	0.0000	0.0000	0.0000
71	0.0000	0.0000	0.0000	0.0000
72	0.0000	0.0000	0.0000	0.0000
73	0.0000	0.0000	0.0000	0.0000
74	0.0000	0.0000	0.0000	0.0000
75	0.0000	0.0000	0.0000	0.0000
76	0.0000	0.0000	0.0000	0.0000
77	0.0000	0.0000	0.0000	0.0000
78	0.0000	0.0000	0.0000	0.0000
79	0.0000	0.0000	0.0000	0.0000
80	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
741 di 1221

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|
|                               NewProject.BaseDesignSection_28.SLERara_3454
|                               Exe Time :29 July 2019      18:01:10
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New Project

STRESS RESULTS FOR GROUP NO. 4

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Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 1.0000

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POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

ITER 0 RNORM = 0.000      RMNORM= 0.000
      RINORM=0.5297E+05 RIMNOR= 0.000
      RENORM= 40.59      REMNOR= 0.000      RATIO =0.2768E-01 TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 31.42      RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =0.5297E+05 RDR = 0.000
      RATIOT=0.2768E-01 RATIOR= 0.000
      MAX UN=0.7687      IEQ= 15 NODE      8 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=0.5297E+05 RIMNOR= 0.000
      RENORM=0.5074E-01 REMNOR=0.1132E-21 RATIO =0.9787E-03 TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 31.42      RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =0.5297E+05 RDR = 0.000
      RATIOT=0.9787E-03 RATIOR= 0.000
      MAX UN=0.2084      IEQ= 3 NODE      2 DOF 1 Y-DISPL.F
      MIN UN=-.3350E-10 IEQ= 89 NODE     45 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

```

```

ITER 3 RNORM = 0.000      RMNORM= 0.000
      RINORM=0.5297E+05 RIMNOR= 0.000
      RENORM=0.6870E-03 REMNOR=0.1550E-22 RATIO =0.1139E-03 TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 31.42      RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =0.5297E+05 RDR = 0.000
      RATIOT=0.1139E-03 RATIOR= 0.000
      MAX UN=0.2580E-01 IEQ= 5 NODE      3 DOF 1 Y-DISPL.F
      MIN UN=-.2249E-10 IEQ= 3 NODE      2 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

```

```

ITER 4 RNORM = 0.000      RMNORM= 0.000
      RINORM=0.5297E+05 RIMNOR= 0.000
      RENORM=0.5174E-08 REMNOR=0.1522E-22 RATIO =0.3126E-06 TOLER =0.1000E-03 CONVERGED !
      RFMAX = 31.42      RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =0.5297E+05 RDR = 0.000
      RATIOT=0.3126E-06 RATIOR= 0.000
      MAX UN=0.4145E-04 IEQ= 119 NODE     60 DOF 1 Y-DISPL.F
      MIN UN=-.2401E-10 IEQ= 33 NODE     17 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
742 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.SLERara_3454                       |
|                               Exe Time :29 July 2019      18:01:10                             |
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New Project
SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	6.9765915E-05	-1.9399230E-06	
2	6.9378411E-05	-1.9327060E-06	
3	6.8993796E-05	-1.9110355E-06	
4	6.8614787E-05	-1.8775148E-06	
5	6.8243259E-05	-1.8369576E-06	
6	6.7880224E-05	-1.7930981E-06	
7	6.7526064E-05	-1.7485798E-06	
8	6.7180712E-05	-1.7052722E-06	
9	6.6843789E-05	-1.6644470E-06	
10	6.6514603E-05	-1.6285736E-06	
11	6.6191793E-05	-1.6012040E-06	
12	6.5873364E-05	-1.5851888E-06	
13	6.5556810E-05	-1.5827789E-06	
14	6.5239230E-05	-1.5956998E-06	
15	6.4917425E-05	-1.6252080E-06	
16	6.4587986E-05	-1.6721321E-06	
17	6.4247320E-05	-1.7378362E-06	
18	6.3891476E-05	-1.8241825E-06	
19	6.3516178E-05	-1.9325604E-06	
20	6.3116920E-05	-2.0639097E-06	
21	6.2689049E-05	-2.2187349E-06	
22	6.2227856E-05	-2.3971135E-06	
23	6.1728657E-05	-2.5986978E-06	
24	6.1186884E-05	-2.8227107E-06	
25	6.0598120E-05	-3.0685573E-06	
26	5.9958037E-05	-3.3357740E-06	
27	5.9262451E-05	-3.6233712E-06	
28	5.8507431E-05	-3.9298183E-06	
29	5.7689411E-05	-4.2530236E-06	
30	5.6805287E-05	-4.5903190E-06	
31	5.5852563E-05	-4.9384255E-06	
32	5.4829425E-05	-5.2939067E-06	
33	5.3734751E-05	-5.6531207E-06	
34	5.2568219E-05	-6.0116993E-06	
35	5.1330462E-05	-6.3645146E-06	
36	5.0023198E-05	-6.7056550E-06	
37	4.8649427E-05	-7.0283826E-06	
38	4.7213578E-05	-7.3251094E-06	
39	4.5721682E-05	-7.5873658E-06	
40	4.4181538E-05	-7.8061483E-06	
41	4.2602766E-05	-7.9718899E-06	
42	4.0997021E-05	-8.0740480E-06	
43	3.9378154E-05	-8.1010962E-06	
44	3.7762424E-05	-8.0405168E-06	
45	3.6168698E-05	-7.8788035E-06	
46	3.4617400E-05	-7.6197401E-06	
47	3.3125914E-05	-7.2839899E-06	
48	3.1707678E-05	-6.8901377E-06	
49	3.0372645E-05	-6.4544872E-06	
50	2.9127733E-05	-5.9911846E-06	
51	2.7977214E-05	-5.5123437E-06	
52	2.6923169E-05	-5.0282120E-06	
53	2.5965738E-05	-4.5472702E-06	
54	2.5103587E-05	-4.0764406E-06	
55	2.4334105E-05	-3.6214519E-06	
56	2.3653637E-05	-3.1869882E-06	
57	2.3057707E-05	-2.7765683E-06	
58	2.2541241E-05	-2.3926791E-06	
59	2.2098761E-05	-2.0369019E-06	
60	2.1724554E-05	-1.7100313E-06	
61	2.1412814E-05	-1.4121839E-06	
62	2.1157761E-05	-1.1431245E-06	
63	2.0953678E-05	-9.0235386E-07	
64	2.0794994E-05	-6.8896252E-07	
65	2.0676351E-05	-5.0170633E-07	
66	2.0592670E-05	-3.3907292E-07	
67	2.0539195E-05	-1.9934031E-07	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 744 di 1221						
23 D	9.019	-6.1729E-05	90.64 45.09	90.64	48.04	UL-RL	4.7747E+04	-4.400	0.000	1.000	1.000
45.09	0.000	0.000	Strato1_2_8_L_0								
24 D	9.404	-6.1187E-05	94.23 47.02	94.23	49.94	UL-RL	4.7747E+04	-4.600	0.000	1.000	1.000
47.02	0.000	0.000	Strato1_2_8_L_0								
25 D	9.816	-6.0598E-05	98.06 49.08	98.06	51.97	UL-RL	4.7747E+04	-4.800	0.000	1.000	1.000
49.08	0.000	0.000	Strato1_2_8_L_0								
26 D	10.23	-5.9958E-05	101.9 51.14	101.9	54.01	UL-RL	4.7747E+04	-5.000	0.000	1.000	1.000
51.14	0.000	0.000	Strato1_2_8_L_0								
27 D	10.64	-5.9262E-05	105.7 53.21	105.7	56.04	UL-RL	4.7747E+04	-5.200	0.000	1.000	1.000
53.21	0.000	0.000	Strato1_2_8_L_0								
28 D	11.05	-5.8507E-05	109.6 55.27	109.6	58.06	UL-RL	4.7747E+04	-5.400	0.000	1.000	1.000
55.27	0.000	0.000	Strato1_2_8_L_0								
29 D	11.47	-5.7689E-05	113.4 57.34	113.4	60.09	UL-RL	4.7747E+04	-5.600	0.000	1.000	1.000
57.34	0.000	0.000	Strato1_2_8_L_0								
30 D	11.88	-5.6805E-05	117.2 59.41	117.2	62.12	UL-RL	4.7747E+04	-5.800	0.000	1.000	1.000
59.41	0.000	0.000	Strato1_2_8_L_0								
31 D	12.28	-5.5853E-05	120.8 61.38	120.8	64.05	UL-RL	4.7747E+04	-6.000	0.000	1.000	1.000
61.38	0.000	0.000	Strato1_2_8_L_0								
32 D	12.69	-5.4829E-05	124.7 63.46	124.7	66.07	UL-RL	4.7747E+04	-6.200	0.000	1.000	1.000
63.46	0.000	0.000	Strato1_2_8_L_0								
33 D	13.11	-5.3735E-05	128.5 65.54	128.5	68.10	UL-RL	4.7747E+04	-6.400	0.000	1.000	1.000
65.54	0.000	0.000	Strato1_2_8_L_0								
34 D	13.52	-5.2568E-05	132.3 67.62	132.3	70.13	UL-RL	4.7747E+04	-6.600	0.000	1.000	1.000
67.62	0.000	0.000	Strato1_2_8_L_0								
35 D	13.94	-5.1330E-05	136.1 69.70	136.1	72.15	UL-RL	4.7747E+04	-6.800	0.000	1.000	1.000
69.70	0.000	0.000	Strato1_2_8_L_0								
36 D	14.36	-5.0023E-05	140.0 71.79	140.0	74.18	UL-RL	4.7747E+04	-7.000	0.000	1.000	1.000
71.79	0.000	0.000	Strato1_2_8_L_0								
37 D	14.78	-4.8649E-05	143.8 73.88	143.8	76.20	UL-RL	4.7747E+04	-7.200	0.000	1.000	1.000
73.88	0.000	0.000	Strato1_2_8_L_0								
38 D	15.19	-4.7214E-05	147.6 75.97	147.6	78.23	UL-RL	4.7747E+04	-7.400	0.000	1.000	1.000
75.97	0.000	0.000	Strato1_2_8_L_0								
39 D	15.60	-4.5722E-05	151.3 77.99	151.3	80.17	UL-RL	4.7747E+04	-7.600	0.000	1.000	1.000
77.99	0.000	0.000	Strato1_2_8_L_0								
40 D	16.02	-4.4182E-05	155.1 80.09	155.1	82.20	UL-RL	4.7747E+04	-7.800	0.000	1.000	1.000
80.09	0.000	0.000	Strato1_2_8_L_0								
41 D	16.44	-4.2603E-05	158.9 82.19	158.9	84.22	UL-RL	4.7747E+04	-8.000	0.000	1.000	1.000
82.19	0.000	0.000	Strato1_2_8_L_0								
42 D	16.86	-4.0997E-05	162.7 84.29	162.7	86.25	UL-RL	4.7747E+04	-8.200	0.000	1.000	1.000
84.29	0.000	0.000	Strato1_2_8_L_0								
43 D	17.28	-3.9378E-05	166.5 86.39	166.5	88.27	UL-RL	4.7747E+04	-8.400	0.000	1.000	1.000
86.39	0.000	0.000	Strato1_2_8_L_0								
44 D	17.70	-3.7762E-05	170.4 88.49	170.4	90.29	UL-RL	4.7747E+04	-8.600	0.000	1.000	1.000
88.49	0.000	0.000	Strato1_2_8_L_0								
45 D	16.45	-3.6169E-05	174.3 82.26	174.3	87.14	UL-RL	1.3507E+05	-8.800	0.000	1.000	1.000
82.26	0.000	0.000	Strato2_3095_82743_L_0								
46 D	16.88	-3.4617E-05	178.2 84.41	178.2	89.09	UL-RL	1.3507E+05	-9.000	0.000	1.000	1.000
84.41	0.000	0.000	Strato2_3095_82743_L_0								
47 D	17.32	-3.3126E-05	182.2 86.62	182.2	91.09	UL-RL	1.3507E+05	-9.200	0.000	1.000	1.000
86.62	0.000	0.000	Strato2_3095_82743_L_0								
48 D	17.76	-3.1708E-05	186.2 88.82	186.2	93.10	UL-RL	1.3507E+05	-9.400	0.000	1.000	1.000
88.82	0.000	0.000	Strato2_3095_82743_L_0								
49 D	18.20	-3.0373E-05	190.2 91.01	190.2	95.11	UL-RL	1.3507E+05	-9.600	0.000	1.000	1.000
91.01	0.000	0.000	Strato2_3095_82743_L_0								
50 D	18.64	-2.9128E-05	194.2 93.19	194.2	97.12	UL-RL	1.3507E+05	-9.800	0.000	1.000	1.000
93.19	0.000	0.000	Strato2_3095_82743_L_0								
51 D	19.07	-2.7977E-05	198.3 95.35	198.3	99.13	UL-RL	1.3507E+05	-10.00	0.000	1.000	1.000
95.35	0.000	0.000	Strato2_3095_82743_L_0								
52 D	19.50	-2.6923E-05	202.3 97.50	202.3	101.1	UL-RL	1.3507E+05	-10.20	0.000	1.000	1.000
97.50	0.000	0.000	Strato2_3095_82743_L_0								
53 D	19.93	-2.5966E-05	206.3 99.63	206.3	103.1	UL-RL	1.3507E+05	-10.40	0.000	1.000	1.000
99.63	0.000	0.000	Strato2_3095_82743_L_0								
54 D	20.34	-2.5104E-05	210.2 101.7	210.2	105.1	UL-RL	1.3507E+05	-10.60	0.000	1.000	1.000
101.7	0.000	0.000	Strato2_3095_82743_L_0								
55 D	20.76	-2.4334E-05	214.2 103.8	214.2	107.1	UL-RL	1.3507E+05	-10.80	0.000	1.000	1.000
103.8	0.000	0.000	Strato2_3095_82743_L_0								
56 D	21.18	-2.3654E-05	218.2 105.9	218.2	109.1	UL-RL	1.3507E+05	-11.00	0.000	1.000	1.000
105.9	0.000	0.000	Strato2_3095_82743_L_0								
57 D	21.60	-2.3058E-05	222.2 108.0	222.2	111.1	UL-RL	1.3507E+05	-11.20	0.000	1.000	1.000
108.0	0.000	0.000	Strato2_3095_82743_L_0								
58 D	22.02	-2.2541E-05	226.2 110.1	226.2	113.1	UL-RL	1.3507E+05	-11.40	0.000	1.000	1.000
110.1	0.000	0.000	Strato2_3095_82743_L_0								
59 D	22.43	-2.2099E-05	230.3 112.1	230.3	115.1	UL-RL	1.3507E+05	-11.60	0.000	1.000	1.000
112.1	0.000	0.000	Strato2_3095_82743_L_0								
60 D	22.84	-2.1725E-05	234.3 114.2	234.3	117.1	UL-RL	1.3507E+05	-11.80	0.000	1.000	1.000
114.2	0.000	0.000	Strato2_3095_82743_L_0								
61 D	23.24	-2.1413E-05	238.2 116.2	238.2	119.1	UL-RL	1.3507E+05	-12.00	0.000	1.000	1.000
116.2	0.000	0.000	Strato2_3095_82743_L_0								
62 D	23.65	-2.1158E-05	242.2 118.2	242.2	121.1	UL-RL	1.3507E+05	-12.20	0.000	1.000	1.000
118.2	0.000	0.000	Strato2_3095_82743_L_0								
63 D	24.06	-2.0954E-05	246.2 120.3	246.2	123.1	UL-RL	1.3507E+05	-12.40	0.000	1.000	1.000
120.3	0.000	0.000	Strato2_3095_82743_L_0								
64 D	24.46	-2.0795E-05	250.2 122.3	250.2	125.1	UL-RL	1.3507E+05	-12.60	0.000	1.000	1.000
122.3	0.000	0.000	Strato2_3095_82743_L_0								
65 D	24.87	-2.0676E-05	254.2 124.3	254.2	127.1	UL-RL	1.3507E+05	-12.80	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 745 di 1221
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124.3	0.000	0.000	Strato2_3095_82743_L_0									
66 D	25.27	-2.0593E-05	258.2	126.3	258.2	129.1	UL-RL	1.3507E+05	-13.00	0.000	1.000	1.000
126.3	0.000	0.000	Strato2_3095_82743_L_0									
67 D	25.67	-2.0539E-05	262.3	128.4	262.3	131.1	UL-RL	1.3507E+05	-13.20	0.000	1.000	1.000
128.4	0.000	0.000	Strato2_3095_82743_L_0									
68 D	26.07	-2.0512E-05	266.3	130.4	266.3	133.1	UL-RL	1.3507E+05	-13.40	0.000	1.000	1.000
130.4	0.000	0.000	Strato2_3095_82743_L_0									
69 D	26.47	-2.0506E-05	270.2	132.3	270.2	135.1	UL-RL	1.3507E+05	-13.60	0.000	1.000	1.000
132.3	0.000	0.000	Strato2_3095_82743_L_0									
70 D	26.87	-2.0518E-05	274.2	134.3	274.2	137.1	UL-RL	1.3507E+05	-13.80	0.000	1.000	1.000
134.3	0.000	0.000	Strato2_3095_82743_L_0									
71 D	27.27	-2.0545E-05	278.2	136.3	278.2	139.1	UL-RL	1.3507E+05	-14.00	0.000	1.000	1.000
136.3	0.000	0.000	Strato2_3095_82743_L_0									
72 D	27.67	-2.0585E-05	282.2	138.3	282.2	141.1	UL-RL	1.3507E+05	-14.20	0.000	1.000	1.000
138.3	0.000	0.000	Strato2_3095_82743_L_0									
73 D	28.07	-2.0633E-05	286.2	140.3	286.2	143.1	UL-RL	1.3507E+05	-14.40	0.000	1.000	1.000
140.3	0.000	0.000	Strato2_3095_82743_L_0									
74 D	28.47	-2.0689E-05	290.3	142.3	290.3	145.1	UL-RL	1.3507E+05	-14.60	0.000	1.000	1.000
142.3	0.000	0.000	Strato2_3095_82743_L_0									
75 D	28.87	-2.0751E-05	294.3	144.3	294.3	147.1	UL-RL	1.3507E+05	-14.80	0.000	1.000	1.000
144.3	0.000	0.000	Strato2_3095_82743_L_0									
76 D	29.26	-2.0816E-05	298.2	146.3	298.2	149.1	UL-RL	1.3507E+05	-15.00	0.000	1.000	1.000
146.3	0.000	0.000	Strato2_3095_82743_L_0									
77 D	29.66	-2.0884E-05	302.2	148.3	302.2	151.1	UL-RL	1.3507E+05	-15.20	0.000	1.000	1.000
148.3	0.000	0.000	Strato2_3095_82743_L_0									
78 D	30.06	-2.0953E-05	306.2	150.3	306.2	153.1	UL-RL	1.3507E+05	-15.40	0.000	1.000	1.000
150.3	0.000	0.000	Strato2_3095_82743_L_0									
79 D	30.45	-2.1024E-05	310.2	152.3	310.2	155.1	UL-RL	1.3507E+05	-15.60	0.000	1.000	1.000
152.3	0.000	0.000	Strato2_3095_82743_L_0									
80 D	30.85	-2.1094E-05	314.2	154.3	314.2	157.1	UL-RL	1.3507E+05	-15.80	0.000	1.000	1.000
154.3	0.000	0.000	Strato2_3095_82743_L_0									
81 D	15.63	-2.1165E-05	318.2	156.3	318.2	159.1	UL-RL	1.3507E+05	-16.00	0.000	1.000	1.000
156.3	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SLERara_3454          |
|          Exe Time :29 July 2019          18:01:10          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
 CURRENT TIME IS 2.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1 D	0.000	6.9766E-05	0.000	0.000	0.000	0.000	PASSIVE	0.000	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_2_8_L_0									
2 D	0.5561	6.9378E-05	3.800	2.780	3.800	2.780	V-C	1.1045E+04	-0.2000	0.000	1.000	1.000
2.780	0.000	0.000	Strato1_2_8_L_0									
3 D	0.9580	6.8994E-05	7.600	4.790	7.600	4.790	V-C	1.1045E+04	-0.4000	0.000	1.000	1.000
4.790	0.000	0.000	Strato1_2_8_L_0									
4 D	1.360	6.8615E-05	11.40	6.800	11.40	6.800	V-C	1.1045E+04	-0.6000	0.000	1.000	1.000
6.800	0.000	0.000	Strato1_2_8_L_0									
5 D	1.762	6.8243E-05	15.20	8.810	15.20	8.810	V-C	1.1045E+04	-0.8000	0.000	1.000	1.000
8.810	0.000	0.000	Strato1_2_8_L_0									
6 D	2.164	6.7880E-05	19.00	10.82	19.00	10.82	V-C	1.1045E+04	-1.000	0.000	1.000	1.000
10.82	0.000	0.000	Strato1_2_8_L_0									
7 D	2.566	6.7526E-05	22.80	12.83	22.80	12.83	V-C	1.1045E+04	-1.200	0.000	1.000	1.000
12.83	0.000	0.000	Strato1_2_8_L_0									
8 D	2.968	6.7181E-05	26.60	14.84	26.60	14.84	V-C	1.1045E+04	-1.400	0.000	1.000	1.000
14.84	0.000	0.000	Strato1_2_8_L_0									
9 D	3.370	6.6844E-05	30.40	16.85	30.40	16.85	V-C	1.1045E+04	-1.600	0.000	1.000	1.000
16.85	0.000	0.000	Strato1_2_8_L_0									
10 D	3.772	6.6515E-05	34.20	18.86	34.20	18.86	V-C	1.1045E+04	-1.800	0.000	1.000	1.000
18.86	0.000	0.000	Strato1_2_8_L_0									
11 D	4.174	6.6192E-05	38.00	20.87	38.00	20.87	V-C	1.1045E+04	-2.000	0.000	1.000	1.000
20.87	0.000	0.000	Strato1_2_8_L_0									
12 D	4.576	6.5873E-05	41.80	22.88	41.80	22.88	V-C	1.1045E+04	-2.200	0.000	1.000	1.000
22.88	0.000	0.000	Strato1_2_8_L_0									
13 D	4.978	6.5557E-05	45.60	24.89	45.60	24.89	V-C	1.1045E+04	-2.400	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 746 di 1221
24.89	0.000	0.000	Strato1_2_8_L_0		
14 D	5.381	6.5239E-05	49.40 26.90	49.40	26.90
26.90	0.000	0.000	Strato1_2_8_L_0		
15 D	5.783	6.4917E-05	53.20 28.91	53.20	28.91
28.91	0.000	0.000	Strato1_2_8_L_0		
16 D	6.185	6.4588E-05	57.00 30.92	57.00	30.92
30.92	0.000	0.000	Strato1_2_8_L_0		
17 D	6.587	6.4247E-05	60.80 32.93	60.80	32.93
32.93	0.000	0.000	Strato1_2_8_L_0		
18 D	6.989	6.3891E-05	64.60 34.94	64.60	34.94
34.94	0.000	0.000	Strato1_2_8_L_0		
19 D	7.391	6.3516E-05	68.40 36.95	68.40	36.95
36.95	0.000	0.000	Strato1_2_8_L_0		
20 D	7.793	6.3117E-05	72.20 38.96	72.20	38.96
38.96	0.000	0.000	Strato1_2_8_L_0		
21 D	8.194	6.2689E-05	76.00 40.97	76.00	40.97
40.97	0.000	0.000	Strato1_2_8_L_0		
22 D	8.596	6.2228E-05	79.80 42.98	79.80	42.98
42.98	0.000	0.000	Strato1_2_8_L_0		
23 D	8.998	6.1729E-05	83.60 44.99	83.60	44.99
44.99	0.000	0.000	Strato1_2_8_L_0		
24 D	9.400	6.1187E-05	87.40 47.00	87.40	47.00
47.00	0.000	0.000	Strato1_2_8_L_0		
25 D	9.801	6.0598E-05	91.20 49.00	91.20	49.00
49.00	0.000	0.000	Strato1_2_8_L_0		
26 D	10.20	5.9958E-05	95.00 51.01	95.00	51.01
51.01	0.000	0.000	Strato1_2_8_L_0		
27 D	10.60	5.9262E-05	98.80 53.02	98.80	53.02
53.02	0.000	0.000	Strato1_2_8_L_0		
28 D	11.00	5.8507E-05	102.6 55.02	102.6	55.02
55.02	0.000	0.000	Strato1_2_8_L_0		
29 D	11.41	5.7689E-05	106.4 57.03	106.4	57.03
57.03	0.000	0.000	Strato1_2_8_L_0		
30 D	11.81	5.6805E-05	110.2 59.03	110.2	59.03
59.03	0.000	0.000	Strato1_2_8_L_0		
31 D	12.21	5.5853E-05	114.0 61.03	114.0	61.03
61.03	0.000	0.000	Strato1_2_8_L_0		
32 D	12.61	5.4829E-05	117.8 63.03	117.8	63.03
63.03	0.000	0.000	Strato1_2_8_L_0		
33 D	13.01	5.3735E-05	121.6 65.04	121.6	65.04
65.04	0.000	0.000	Strato1_2_8_L_0		
34 D	13.41	5.2568E-05	125.4 67.04	125.4	67.04
67.04	0.000	0.000	Strato1_2_8_L_0		
35 D	13.81	5.1330E-05	129.2 69.04	129.2	69.04
69.04	0.000	0.000	Strato1_2_8_L_0		
36 D	14.21	5.0023E-05	133.0 71.04	133.0	71.04
71.04	0.000	0.000	Strato1_2_8_L_0		
37 D	14.61	4.8649E-05	136.8 73.04	136.8	73.04
73.04	0.000	0.000	Strato1_2_8_L_0		
38 D	15.01	4.7214E-05	140.6 75.04	140.6	75.04
75.04	0.000	0.000	Strato1_2_8_L_0		
39 D	15.41	4.5722E-05	144.4 77.03	144.4	77.03
77.03	0.000	0.000	Strato1_2_8_L_0		
40 D	15.81	4.4182E-05	148.2 79.03	148.2	79.03
79.03	0.000	0.000	Strato1_2_8_L_0		
41 D	16.21	4.2603E-05	152.0 81.03	152.0	81.03
81.03	0.000	0.000	Strato1_2_8_L_0		
42 D	16.60	4.0997E-05	155.8 83.02	155.8	83.02
83.02	0.000	0.000	Strato1_2_8_L_0		
43 D	17.00	3.9378E-05	159.6 85.02	159.6	85.02
85.02	0.000	0.000	Strato1_2_8_L_0		
44 D	17.40	3.7762E-05	163.4 87.02	163.4	87.02
87.02	0.000	0.000	Strato1_2_8_L_0		
45 D	16.91	3.6169E-05	167.3 84.53	167.3	84.53
84.53	0.000	0.000	Strato2_3095_82743_L_0		
46 D	17.30	3.4617E-05	171.3 86.49	171.3	86.49
86.49	0.000	0.000	Strato2_3095_82743_L_0		
47 D	17.69	3.3126E-05	175.3 88.45	175.3	88.45
88.45	0.000	0.000	Strato2_3095_82743_L_0		
48 D	18.08	3.1708E-05	179.3 90.42	179.3	90.42
90.42	0.000	0.000	Strato2_3095_82743_L_0		
49 D	18.48	3.0373E-05	183.3 92.39	183.3	92.39
92.39	0.000	0.000	Strato2_3095_82743_L_0		
50 D	18.87	2.9128E-05	187.3 94.36	187.3	94.36
94.36	0.000	0.000	Strato2_3095_82743_L_0		
51 D	19.27	2.7977E-05	191.3 96.33	191.3	96.33
96.33	0.000	0.000	Strato2_3095_82743_L_0		
52 D	19.66	2.6923E-05	195.3 98.31	195.3	98.31
98.31	0.000	0.000	Strato2_3095_82743_L_0		
53 D	20.06	2.5966E-05	199.3 100.3	199.3	100.3
100.3	0.000	0.000	Strato2_3095_82743_L_0		
54 D	20.45	2.5104E-05	203.3 102.3	203.3	102.3
102.3	0.000	0.000	Strato2_3095_82743_L_0		
55 D	20.85	2.4334E-05	207.3 104.2	207.3	104.2
104.2	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 747 di 1221							
56 D	21.25	2.3654E-05	211.3	106.2	211.3	106.2	UL-RL	7.3205E+04	-11.00	0.000	1.000	1.000
106.2	0.000	0.000	Strato2_3095_82743_L_0									
57 D	21.64	2.3058E-05	215.3	108.2	215.3	108.2	UL-RL	7.3205E+04	-11.20	0.000	1.000	1.000
108.2	0.000	0.000	Strato2_3095_82743_L_0									
58 D	22.04	2.2541E-05	219.3	110.2	219.3	110.2	UL-RL	7.3205E+04	-11.40	0.000	1.000	1.000
110.2	0.000	0.000	Strato2_3095_82743_L_0									
59 D	22.44	2.2099E-05	223.3	112.2	223.3	112.2	V-C	2.4402E+04	-11.60	0.000	1.000	1.000
112.2	0.000	0.000	Strato2_3095_82743_L_0									
60 D	22.84	2.1725E-05	227.3	114.2	227.3	114.2	V-C	2.4402E+04	-11.80	0.000	1.000	1.000
114.2	0.000	0.000	Strato2_3095_82743_L_0									
61 D	23.23	2.1413E-05	231.3	116.2	231.3	116.2	V-C	2.4402E+04	-12.00	0.000	1.000	1.000
116.2	0.000	0.000	Strato2_3095_82743_L_0									
62 D	23.63	2.1158E-05	235.3	118.2	235.3	118.2	V-C	2.4402E+04	-12.20	0.000	1.000	1.000
118.2	0.000	0.000	Strato2_3095_82743_L_0									
63 D	24.03	2.0954E-05	239.3	120.2	239.3	120.2	V-C	2.4402E+04	-12.40	0.000	1.000	1.000
120.2	0.000	0.000	Strato2_3095_82743_L_0									
64 D	24.43	2.0795E-05	243.3	122.2	243.3	122.2	V-C	2.4402E+04	-12.60	0.000	1.000	1.000
122.2	0.000	0.000	Strato2_3095_82743_L_0									
65 D	24.83	2.0676E-05	247.3	124.2	247.3	124.2	V-C	2.4402E+04	-12.80	0.000	1.000	1.000
124.2	0.000	0.000	Strato2_3095_82743_L_0									
66 D	25.23	2.0593E-05	251.3	126.2	251.3	126.2	V-C	2.4402E+04	-13.00	0.000	1.000	1.000
126.2	0.000	0.000	Strato2_3095_82743_L_0									
67 D	25.63	2.0539E-05	255.3	128.2	255.3	128.2	V-C	2.4402E+04	-13.20	0.000	1.000	1.000
128.2	0.000	0.000	Strato2_3095_82743_L_0									
68 D	26.03	2.0512E-05	259.3	130.2	259.3	130.2	V-C	2.4402E+04	-13.40	0.000	1.000	1.000
130.2	0.000	0.000	Strato2_3095_82743_L_0									
69 D	26.43	2.0506E-05	263.3	132.2	263.3	132.2	UL-RL	7.3205E+04	-13.60	0.000	1.000	1.000
132.2	0.000	0.000	Strato2_3095_82743_L_0									
70 D	26.83	2.0518E-05	267.3	134.2	267.3	134.2	UL-RL	7.3205E+04	-13.80	0.000	1.000	1.000
134.2	0.000	0.000	Strato2_3095_82743_L_0									
71 D	27.23	2.0545E-05	271.3	136.2	271.3	136.2	UL-RL	7.3205E+04	-14.00	0.000	1.000	1.000
136.2	0.000	0.000	Strato2_3095_82743_L_0									
72 D	27.63	2.0585E-05	275.3	138.2	275.3	138.2	UL-RL	7.3205E+04	-14.20	0.000	1.000	1.000
138.2	0.000	0.000	Strato2_3095_82743_L_0									
73 D	28.03	2.0633E-05	279.3	140.2	279.3	140.2	UL-RL	7.3205E+04	-14.40	0.000	1.000	1.000
140.2	0.000	0.000	Strato2_3095_82743_L_0									
74 D	28.43	2.0689E-05	283.3	142.2	283.3	142.2	UL-RL	7.3205E+04	-14.60	0.000	1.000	1.000
142.2	0.000	0.000	Strato2_3095_82743_L_0									
75 D	28.83	2.0751E-05	287.3	144.2	287.3	144.2	UL-RL	7.3205E+04	-14.80	0.000	1.000	1.000
144.2	0.000	0.000	Strato2_3095_82743_L_0									
76 D	29.23	2.0816E-05	291.3	146.2	291.3	146.2	UL-RL	7.3205E+04	-15.00	0.000	1.000	1.000
146.2	0.000	0.000	Strato2_3095_82743_L_0									
77 D	29.63	2.0884E-05	295.3	148.2	295.3	148.2	UL-RL	7.3205E+04	-15.20	0.000	1.000	1.000
148.2	0.000	0.000	Strato2_3095_82743_L_0									
78 D	30.03	2.0953E-05	299.3	150.2	299.3	150.2	UL-RL	7.3205E+04	-15.40	0.000	1.000	1.000
150.2	0.000	0.000	Strato2_3095_82743_L_0									
79 D	30.43	2.1024E-05	303.3	152.2	303.3	152.2	UL-RL	7.3205E+04	-15.60	0.000	1.000	1.000
152.2	0.000	0.000	Strato2_3095_82743_L_0									
80 D	30.83	2.1094E-05	307.3	154.2	307.3	154.2	UL-RL	7.3205E+04	-15.80	0.000	1.000	1.000
154.2	0.000	0.000	Strato2_3095_82743_L_0									
81 D	15.62	2.1165E-05	311.3	156.2	311.3	156.2	UL-RL	7.3205E+04	-16.00	0.000	1.000	1.000
156.2	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|          NewProject.BaseDesignSection_28.SLERara_3454                                                                                   |
|          Exe Time :29 July 2019          18:01:10                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.30400	-0.30400	-4.06009E-13	6.08000E-02
2	0.30481	-0.30481	-6.08000E-02	0.12176
3	0.19435	-0.19435	-0.12176	0.16063
4	0.10204	-0.10204	-0.16063	0.18104
5	3.70581E-02	-3.70581E-02	-0.18104	0.18845
6	-9.30527E-03	9.30527E-03	-0.18845	0.18659
7	-4.16896E-02	4.16896E-02	-0.18659	0.17825
8	-6.28804E-02	6.28804E-02	-0.17825	0.16568
9	-0.14570	0.14570	-0.16568	0.13654
10	-0.21250	0.21250	-0.13654	9.40374E-02

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 748 di 1221
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11-0.26577	0.26577	-9.40374E-02	4.08827E-02
12-0.30731	0.30731	-4.08827E-02	-2.05800E-02
13-0.33846	0.33846	2.05800E-02	-8.82728E-02
14-0.36023	0.36023	8.82728E-02	-0.16032
15-0.37337	0.37337	0.16032	-0.23499
16-0.41770	0.41770	0.23499	-0.31853
17-0.45180	0.45180	0.31853	-0.40889
18-0.47623	0.47623	0.40889	-0.50414
19-0.49138	0.49138	0.50414	-0.60241
20-0.49748	0.49748	0.60241	-0.70191
21-0.49464	0.49464	0.70191	-0.80084
22-0.48284	0.48284	0.80084	-0.89741
23-0.46196	0.46196	0.89741	-0.98980
24-0.45769	0.45769	0.98980	-1.0813
25-0.44247	0.44247	1.0813	-1.1698
26-0.41601	0.41601	1.1698	-1.2530
27-0.37799	0.37799	1.2530	-1.3286
28-0.32798	0.32798	1.3286	-1.3942
29-0.26547	0.26547	1.3942	-1.4473
30-0.18992	0.18992	1.4473	-1.4853
31-0.12072	0.12072	1.4853	-1.5094
32-3.65247E-02	3.65247E-02	1.5094	-1.5168
33 6.32929E-02	-6.32929E-02	1.5168	-1.5041
34 0.17940	-0.17940	1.5041	-1.4682
35 0.31246	-0.31246	1.4682	-1.4057
36 0.46314	-0.46314	1.4057	-1.3131
37 0.63208	-0.63208	1.3131	-1.1867
38 0.81990	-0.81990	1.1867	-1.0227
39 1.0113	-1.0113	1.0227	-0.82044
40 1.2230	-1.2230	0.82044	-0.57585
41 1.4553	-1.4553	0.57585	-0.28478
42 1.7085	-1.7085	0.28478	5.69165E-02
43 1.9826	-1.9826	-5.69165E-02	0.45344
44 2.2775	-2.2775	-0.45344	0.90893
45 1.8231	-1.8231	-0.90893	1.2736
46 1.4071	-1.4071	-1.2736	1.5550
47 1.0403	-1.0403	-1.5550	1.7630
48 0.72035	-0.72035	-1.7630	1.9071
49 0.44453	-0.44453	-1.9071	1.9960
50 0.20989	-0.20989	-1.9960	2.0380
51 1.33759E-02	-1.33759E-02	-2.0380	2.0407
52-0.14815	0.14815	-2.0407	2.0110
53-0.27781	0.27781	-2.0110	1.9555
54-0.38945	0.38945	-1.9555	1.8776
55-0.47511	0.47511	-1.8776	1.7826
56-0.53767	0.53767	-1.7826	1.6750
57-0.57987	0.57987	-1.6750	1.5591
58-0.60429	0.60429	-1.5591	1.4382
59-0.61333	0.61333	-1.4382	1.3155
60-0.60921	0.60921	-1.3155	1.1937
61-0.60342	0.60342	-1.1937	1.0730
62-0.58817	0.58817	-1.0730	0.95537
63-0.56512	0.56512	-0.95537	0.84235
64-0.53576	0.53576	-0.84235	0.73519
65-0.50141	0.50141	-0.73519	0.63491
66-0.46323	0.46323	-0.63491	0.54227
67-0.42221	0.42221	-0.54227	0.45783
68-0.37920	0.37920	-0.45783	0.38199
69-0.34336	0.34336	-0.38199	0.31331
70-0.30675	0.30675	-0.31331	0.25196
71-0.26988	0.26988	-0.25196	0.19799
72-0.23317	0.23317	-0.19799	0.15135
73-0.19695	0.19695	-0.15135	0.11196
74-0.16148	0.16148	-0.11196	7.96645E-02
75-0.12697	0.12697	-7.96645E-02	5.42708E-02
76-0.10119	0.10119	-5.42708E-02	3.40326E-02
77-7.65184E-02	7.65184E-02	-3.40326E-02	1.87289E-02
78-5.30315E-02	5.30315E-02	-1.87289E-02	8.12258E-03
79-3.07872E-02	3.07872E-02	-8.12258E-03	1.96513E-03
80-9.82514E-03	9.82514E-03	-1.96513E-03	-1.61458E-13

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                    |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:01:10  |
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New Project

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 749 di 1221
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Tirantel_429 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 C U R R E N T T I M E I S 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.4524E+05 RIMNOR= 172.5
 RENORM= 949.2 REMNOR=0.1522E-22 RATIO =0.1448 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 30.85 RMMAX = 2.041
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
 RDT =0.4524E+05 RDR = 172.5
 RATIOT=0.1448 RATIOR= 0.000
 MAX UN= 7.391 IEQ= 37 NODE 19 DOF 1 Y-DISPL.F
 MIN UN=-.8973E-11 IEQ= 49 NODE 25 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.4524E+05 RIMNOR= 172.5
 RENORM= 84.29 REMNOR=0.8051E-20 RATIO =0.4316E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 30.85 RMMAX = 2.041
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
 RDT =0.4524E+05 RDR = 172.5
 RATIOT=0.4316E-01 RATIOR= 0.000
 MAX UN= 3.962 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
 MIN UN=-.5559E-03 IEQ= 53 NODE 27 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.4524E+05 RIMNOR= 172.5
 RENORM= 64.09 REMNOR=0.4465E-19 RATIO =0.3764E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 30.85 RMMAX = 2.041
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
 RDT =0.4524E+05 RDR = 172.5
 RATIOT=0.3764E-01 RATIOR= 0.000
 MAX UN= 4.635 IEQ= 35 NODE 18 DOF 1 Y-DISPL.F
 MIN UN=-.1937E-08 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.4524E+05 RIMNOR= 172.5
 RENORM= 6.552 REMNOR=0.5913E-19 RATIO =0.1203E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 30.85 RMMAX = 2.041
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
 RDT =0.4524E+05 RDR = 172.5
 RATIOT=0.1203E-01 RATIOR= 0.000
 MAX UN= 2.045 IEQ= 51 NODE 26 DOF 1 Y-DISPL.F
 MIN UN=-.1291E-08 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.4524E+05 RIMNOR= 172.5
 RENORM=0.6977E-17 REMNOR=0.2564E-19 RATIO =0.1242E-10 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 30.85 RMMAX = 2.041
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
 RDT =0.4524E+05 RDR = 172.5
 RATIOT=0.1242E-10 RATIOR= 0.000
 MAX UN=0.9474E-09 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
 MIN UN=-.8994E-09 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
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|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:01:10  |
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New Project
SOLUTION REACHED USING 5 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.

Progetto
INORLotto
12Codifica Documento
E E2 CL GA 2701 002Rev.
AFoglio
750 di 1221

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

	Y-DISPL.F (02)	X-ROT. F (04)
1	5.7990062E-03	-8.7842718E-04
2	5.6233212E-03	-8.7841996E-04
3	5.4476401E-03	-8.7838509E-04
4	5.2719713E-03	-8.7828922E-04
5	5.0963315E-03	-8.7808606E-04
6	4.9207479E-03	-8.7771742E-04
7	4.7452602E-03	-8.7711368E-04
8	4.5699235E-03	-8.7619389E-04
9	4.3948099E-03	-8.7486591E-04
10	4.2200111E-03	-8.7302741E-04
11	4.0456405E-03	-8.7056584E-04
12	3.8718346E-03	-8.6735738E-04
13	3.6987563E-03	-8.6326698E-04
14	3.5265964E-03	-8.5814843E-04
15	3.3555760E-03	-8.5184440E-04
16	3.1859489E-03	-8.4418643E-04
17	3.0180036E-03	-8.3499548E-04
18	2.8520655E-03	-8.2408199E-04
19	2.6884990E-03	-8.1124521E-04
20	2.5277098E-03	-7.9627332E-04
21	2.3701444E-03	-7.7897985E-04
22	2.2162785E-03	-7.5927659E-04
23	2.0665914E-03	-7.3721011E-04
24	1.9215406E-03	-7.1296186E-04
25	1.7815359E-03	-6.8678525E-04
26	1.6469377E-03	-6.5893990E-04
27	1.5180538E-03	-6.2968709E-04
28	1.3951392E-03	-5.9929012E-04
29	1.2783969E-03	-5.6801482E-04
30	1.1679745E-03	-5.3612910E-04
31	1.0639681E-03	-5.0390027E-04
32	9.6642048E-04	-4.7158077E-04
33	8.7532662E-04	-4.3939873E-04
34	7.9063816E-04	-4.0755904E-04
35	7.1226835E-04	-3.7624504E-04
36	6.4009465E-04	-3.4561942E-04
37	5.7396506E-04	-3.1582665E-04
38	5.1370000E-04	-2.8699385E-04
39	4.5909610E-04	-2.5923229E-04
40	4.0992941E-04	-2.3263935E-04
41	3.6595708E-04	-2.0729929E-04
42	3.2692132E-04	-1.8328491E-04
43	2.9255060E-04	-1.6065827E-04
44	2.6256199E-04	-1.3947194E-04
45	2.3666298E-04	-1.1977025E-04
46	2.1455360E-04	-1.0157492E-04
47	1.9593297E-04	-8.4880234E-05
48	1.8050302E-04	-6.9662871E-05
49	1.6797188E-04	-5.5884522E-05
50	1.5805669E-04	-4.3494594E-05
51	1.5048559E-04	-3.2432350E-05
52	1.4499989E-04	-2.2629617E-05
53	1.4135487E-04	-1.4011706E-05
54	1.3932143E-04	-6.5003710E-06
55	1.3868634E-04	-1.4774714E-08
56	1.3925260E-04	5.5269783E-06
57	1.4083967E-04	1.0206949E-05
58	1.4328334E-04	1.4106375E-05
59	1.4643549E-04	1.7304826E-05
60	1.5016369E-04	1.9879501E-05
61	1.5435066E-04	2.1904645E-05
62	1.5889362E-04	2.3450851E-05
63	1.6370351E-04	2.4584687E-05
64	1.6870417E-04	2.5368634E-05
65	1.7383151E-04	2.5860872E-05
66	1.7903265E-04	2.6115120E-05
67	1.8426497E-04	2.6180537E-05
68	1.8949525E-04	2.6101667E-05
69	1.9469868E-04	2.5918409E-05
70	1.9985799E-04	2.5665827E-05
71	2.0496241E-04	2.5374174E-05
72	2.1000676E-04	2.5069134E-05
73	2.1499058E-04	2.4771870E-05
74	2.1991714E-04	2.4499069E-05
75	2.2479265E-04	2.4262998E-05
76	2.2962532E-04	2.4071547E-05
77	2.3442447E-04	2.3928092E-05
78	2.3919968E-04	2.3831531E-05
79	2.4395985E-04	2.3776500E-05
80	2.4871241E-04	2.3753383E-05

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 751 di 1221
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81 2.5346265E-04 2.3748337E-05

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLEERara_3454  |
|          Exe Time :29 July 2019  18:01:10  |
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New Project

STRESS RESULTS FOR GROUP NO. 1

O_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
 CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.3040	-5.7990E-03	10.00	3.040	10.00	5.300	ACTIVE	0.000	0.000	0.000	1.000	1.000
3.040	0.000	0.000	Stratol_2_8_L_0									
2 D	0.5569	-5.6233E-03	9.159	2.784	9.159	4.854	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
2.784	0.000	0.000	Stratol_2_8_L_0									
3 D	0.8475	-5.4476E-03	13.94	4.238	13.94	7.388	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
4.238	0.000	0.000	Stratol_2_8_L_0									
4 D	1.103	-5.2720E-03	18.14	5.515	18.14	9.614	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
5.515	0.000	0.000	Stratol_2_8_L_0									
5 D	1.347	-5.0963E-03	22.16	6.736	22.16	11.74	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
6.736	0.000	0.000	Stratol_2_8_L_0									
6 D	1.586	-4.9207E-03	26.09	7.932	26.09	13.83	ACTIVE	0.000	-1.000	0.000	1.000	1.000
7.932	0.000	0.000	Stratol_2_8_L_0									
7 D	1.823	-4.7453E-03	29.98	9.115	29.98	15.89	ACTIVE	0.000	-1.200	0.000	1.000	1.000
9.115	0.000	0.000	Stratol_2_8_L_0									
8 D	2.058	-4.5699E-03	33.85	10.29	33.85	17.94	ACTIVE	0.000	-1.400	0.000	1.000	1.000
10.29	0.000	0.000	Stratol_2_8_L_0									
9 D	2.252	-4.3948E-03	37.03	11.26	37.03	19.63	ACTIVE	0.000	-1.600	0.000	1.000	1.000
11.26	0.000	0.000	Stratol_2_8_L_0									
10 D	2.490	-4.2200E-03	40.95	12.45	40.95	21.70	ACTIVE	0.000	-1.800	0.000	1.000	1.000
12.45	0.000	0.000	Stratol_2_8_L_0									
11 D	2.726	-4.0456E-03	44.84	13.63	44.84	23.77	ACTIVE	0.000	-2.000	0.000	1.000	1.000
13.63	0.000	0.000	Stratol_2_8_L_0									
12 D	2.962	-3.8718E-03	48.72	14.81	48.72	25.82	ACTIVE	0.000	-2.200	0.000	1.000	1.000
14.81	0.000	0.000	Stratol_2_8_L_0									
13 D	3.197	-3.6988E-03	52.58	15.98	52.58	27.87	ACTIVE	0.000	-2.400	0.000	1.000	1.000
15.98	0.000	0.000	Stratol_2_8_L_0									
14 D	3.431	-3.5266E-03	56.43	17.16	56.43	29.91	ACTIVE	0.000	-2.600	0.000	1.000	1.000
17.16	0.000	0.000	Stratol_2_8_L_0									
15 D	3.665	-3.3556E-03	60.28	18.32	60.28	31.95	ACTIVE	0.000	-2.800	0.000	1.000	1.000
18.32	0.000	0.000	Stratol_2_8_L_0									
16 D	3.876	-3.1859E-03	63.75	19.38	63.75	33.79	ACTIVE	0.000	-3.000	0.000	1.000	1.000
19.38	0.000	0.000	Stratol_2_8_L_0									
17 D	4.110	-3.0180E-03	67.61	20.55	67.61	35.83	ACTIVE	0.000	-3.200	0.000	1.000	1.000
20.55	0.000	0.000	Stratol_2_8_L_0									
18 D	4.345	-2.8521E-03	71.46	21.72	71.46	37.87	ACTIVE	0.000	-3.400	0.000	1.000	1.000
21.72	0.000	0.000	Stratol_2_8_L_0									
19 D	4.578	-2.6885E-03	75.30	22.89	75.30	39.91	ACTIVE	0.000	-3.600	0.000	1.000	1.000
22.89	0.000	0.000	Stratol_2_8_L_0									
20 D	4.812	-2.5277E-03	79.14	24.06	79.14	41.95	ACTIVE	0.000	-3.800	0.000	1.000	1.000
24.06	0.000	0.000	Stratol_2_8_L_0									
21 D	5.045	-2.3701E-03	82.98	25.23	82.98	43.98	ACTIVE	0.000	-4.000	0.000	1.000	1.000
25.23	0.000	0.000	Stratol_2_8_L_0									
22 D	5.278	-2.2163E-03	86.81	26.39	86.81	46.01	ACTIVE	0.000	-4.200	0.000	1.000	1.000
26.39	0.000	0.000	Stratol_2_8_L_0									
23 D	5.511	-2.0666E-03	90.64	27.56	90.64	48.04	ACTIVE	0.000	-4.400	0.000	1.000	1.000
27.56	0.000	0.000	Stratol_2_8_L_0									
24 D	5.729	-1.9215E-03	94.23	28.65	94.23	49.94	ACTIVE	0.000	-4.600	0.000	1.000	1.000
28.65	0.000	0.000	Stratol_2_8_L_0									
25 D	5.962	-1.7815E-03	98.06	29.81	98.06	51.97	ACTIVE	0.000	-4.800	0.000	1.000	1.000
29.81	0.000	0.000	Stratol_2_8_L_0									
26 D	6.195	-1.6469E-03	101.9	30.98	101.9	54.01	ACTIVE	0.000	-5.000	0.000	1.000	1.000
30.98	0.000	0.000	Stratol_2_8_L_0									
27 D	6.428	-1.5181E-03	105.7	32.14	105.7	56.04	ACTIVE	0.000	-5.200	0.000	1.000	1.000
32.14	0.000	0.000	Stratol_2_8_L_0									
28 D	6.661	-1.3951E-03	109.6	33.30	109.6	58.06	ACTIVE	0.000	-5.400	0.000	1.000	1.000
33.30	0.000	0.000	Stratol_2_8_L_0									
29 D	6.894	-1.2784E-03	113.4	34.47	113.4	60.09	ACTIVE	0.000	-5.600	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 752 di 1221
34.47	0.000	0.000	Strato1_2_8_L_0				
30 D	7.293	-1.1680E-03	117.2	36.46	117.2	62.12	UL-RL 2.0647E+04 -5.800 0.000 1.000 1.000
36.46	0.000	0.000	Strato1_2_8_L_0				
31 D	8.113	-1.0640E-03	120.8	40.56	120.8	64.05	UL-RL 2.0647E+04 -6.000 0.000 1.000 1.000
40.56	0.000	0.000	Strato1_2_8_L_0				
32 D	8.927	-9.6642E-04	124.7	44.63	124.7	66.07	UL-RL 2.0647E+04 -6.200 0.000 1.000 1.000
44.63	0.000	0.000	Strato1_2_8_L_0				
33 D	9.714	-8.7533E-04	128.5	48.57	128.5	68.10	UL-RL 2.0647E+04 -6.400 0.000 1.000 1.000
48.57	0.000	0.000	Strato1_2_8_L_0				
34 D	10.48	-7.9064E-04	132.3	52.38	132.3	70.13	UL-RL 2.0647E+04 -6.600 0.000 1.000 1.000
52.38	0.000	0.000	Strato1_2_8_L_0				
35 D	11.21	-7.1227E-04	136.1	56.06	136.1	72.15	UL-RL 2.0647E+04 -6.800 0.000 1.000 1.000
56.06	0.000	0.000	Strato1_2_8_L_0				
36 D	11.92	-6.4009E-04	140.0	59.61	140.0	74.18	UL-RL 2.0647E+04 -7.000 0.000 1.000 1.000
59.61	0.000	0.000	Strato1_2_8_L_0				
37 D	12.61	-5.7397E-04	143.8	63.04	143.8	76.20	UL-RL 2.0647E+04 -7.200 0.000 1.000 1.000
63.04	0.000	0.000	Strato1_2_8_L_0				
38 D	13.27	-5.1370E-04	147.6	66.34	147.6	78.23	UL-RL 2.0647E+04 -7.400 0.000 1.000 1.000
66.34	0.000	0.000	Strato1_2_8_L_0				
39 D	13.89	-4.5910E-04	151.3	69.45	151.3	80.17	UL-RL 2.0647E+04 -7.600 0.000 1.000 1.000
69.45	0.000	0.000	Strato1_2_8_L_0				
40 D	14.51	-4.0993E-04	155.1	72.54	155.1	82.20	UL-RL 2.0647E+04 -7.800 0.000 1.000 1.000
72.54	0.000	0.000	Strato1_2_8_L_0				
41 D	15.10	-3.6596E-04	158.9	75.51	158.9	84.22	UL-RL 2.0647E+04 -8.000 0.000 1.000 1.000
75.51	0.000	0.000	Strato1_2_8_L_0				
42 D	15.68	-3.2692E-04	162.7	78.39	162.7	86.25	UL-RL 2.0647E+04 -8.200 0.000 1.000 1.000
78.39	0.000	0.000	Strato1_2_8_L_0				
43 D	16.23	-2.9255E-04	166.5	81.16	166.5	88.27	UL-RL 2.0647E+04 -8.400 0.000 1.000 1.000
81.16	0.000	0.000	Strato1_2_8_L_0				
44 D	16.77	-2.6256E-04	170.4	83.85	170.4	90.29	UL-RL 2.0647E+04 -8.600 0.000 1.000 1.000
83.85	0.000	0.000	Strato1_2_8_L_0				
45 D	14.11	-2.3666E-04	174.3	70.55	174.3	87.14	UL-RL 5.8408E+04 -8.800 0.000 1.000 1.000
70.55	0.000	0.000	Strato2_3095_82743_L_0				
46 D	14.78	-2.1455E-04	178.2	73.90	178.2	89.09	UL-RL 5.8408E+04 -9.000 0.000 1.000 1.000
73.90	0.000	0.000	Strato2_3095_82743_L_0				
47 D	15.42	-1.9593E-04	182.2	77.11	182.2	91.09	UL-RL 5.8408E+04 -9.200 0.000 1.000 1.000
77.11	0.000	0.000	Strato2_3095_82743_L_0				
48 D	16.03	-1.8050E-04	186.2	80.13	186.2	93.10	UL-RL 5.8408E+04 -9.400 0.000 1.000 1.000
80.13	0.000	0.000	Strato2_3095_82743_L_0				
49 D	16.59	-1.6797E-04	190.2	82.97	190.2	95.11	UL-RL 5.8408E+04 -9.600 0.000 1.000 1.000
82.97	0.000	0.000	Strato2_3095_82743_L_0				
50 D	17.13	-1.5806E-04	194.2	85.65	194.2	97.12	UL-RL 5.8408E+04 -9.800 0.000 1.000 1.000
85.65	0.000	0.000	Strato2_3095_82743_L_0				
51 D	17.64	-1.5049E-04	198.3	88.19	198.3	99.13	UL-RL 5.8408E+04 -10.00 0.000 1.000 1.000
88.19	0.000	0.000	Strato2_3095_82743_L_0				
52 D	18.12	-1.4500E-04	202.3	90.60	202.3	101.1	UL-RL 5.8408E+04 -10.20 0.000 1.000 1.000
90.60	0.000	0.000	Strato2_3095_82743_L_0				
53 D	18.58	-1.4135E-04	206.3	92.89	206.3	103.1	UL-RL 5.8408E+04 -10.40 0.000 1.000 1.000
92.89	0.000	0.000	Strato2_3095_82743_L_0				
54 D	19.01	-1.3932E-04	210.2	95.03	210.2	105.1	UL-RL 5.8408E+04 -10.60 0.000 1.000 1.000
95.03	0.000	0.000	Strato2_3095_82743_L_0				
55 D	19.43	-1.3869E-04	214.2	97.14	214.2	107.1	UL-RL 5.8408E+04 -10.80 0.000 1.000 1.000
97.14	0.000	0.000	Strato2_3095_82743_L_0				
56 D	19.83	-1.3925E-04	218.2	99.16	218.2	109.1	UL-RL 5.8408E+04 -11.00 0.000 1.000 1.000
99.16	0.000	0.000	Strato2_3095_82743_L_0				
57 D	20.22	-1.4084E-04	222.2	101.1	222.2	111.1	UL-RL 5.8408E+04 -11.20 0.000 1.000 1.000
101.1	0.000	0.000	Strato2_3095_82743_L_0				
58 D	20.61	-1.4328E-04	226.2	103.0	226.2	113.1	UL-RL 5.8408E+04 -11.40 0.000 1.000 1.000
103.0	0.000	0.000	Strato2_3095_82743_L_0				
59 D	20.98	-1.4644E-04	230.3	104.9	230.3	115.1	UL-RL 5.8408E+04 -11.60 0.000 1.000 1.000
104.9	0.000	0.000	Strato2_3095_82743_L_0				
60 D	21.34	-1.5016E-04	234.3	106.7	234.3	117.1	UL-RL 5.8408E+04 -11.80 0.000 1.000 1.000
106.7	0.000	0.000	Strato2_3095_82743_L_0				
61 D	21.69	-1.5435E-04	238.2	108.4	238.2	119.1	UL-RL 5.8408E+04 -12.00 0.000 1.000 1.000
108.4	0.000	0.000	Strato2_3095_82743_L_0				
62 D	22.04	-1.5889E-04	242.2	110.2	242.2	121.1	UL-RL 5.8408E+04 -12.20 0.000 1.000 1.000
110.2	0.000	0.000	Strato2_3095_82743_L_0				
63 D	22.39	-1.6370E-04	246.2	111.9	246.2	123.1	UL-RL 5.8408E+04 -12.40 0.000 1.000 1.000
111.9	0.000	0.000	Strato2_3095_82743_L_0				
64 D	22.73	-1.6870E-04	250.2	113.7	250.2	125.1	UL-RL 5.8408E+04 -12.60 0.000 1.000 1.000
113.7	0.000	0.000	Strato2_3095_82743_L_0				
65 D	23.08	-1.7383E-04	254.2	115.4	254.2	127.1	UL-RL 5.8408E+04 -12.80 0.000 1.000 1.000
115.4	0.000	0.000	Strato2_3095_82743_L_0				
66 D	23.42	-1.7903E-04	258.2	117.1	258.2	129.1	UL-RL 5.8408E+04 -13.00 0.000 1.000 1.000
117.1	0.000	0.000	Strato2_3095_82743_L_0				
67 D	23.76	-1.8426E-04	262.3	118.8	262.3	131.1	UL-RL 5.8408E+04 -13.20 0.000 1.000 1.000
118.8	0.000	0.000	Strato2_3095_82743_L_0				
68 D	24.10	-1.8950E-04	266.3	120.5	266.3	133.1	UL-RL 5.8408E+04 -13.40 0.000 1.000 1.000
120.5	0.000	0.000	Strato2_3095_82743_L_0				
69 D	24.43	-1.9470E-04	270.2	122.2	270.2	135.1	UL-RL 5.8408E+04 -13.60 0.000 1.000 1.000
122.2	0.000	0.000	Strato2_3095_82743_L_0				
70 D	24.77	-1.9986E-04	274.2	123.9	274.2	137.1	UL-RL 5.8408E+04 -13.80 0.000 1.000 1.000
123.9	0.000	0.000	Strato2_3095_82743_L_0				
71 D	25.11	-2.0496E-04	278.2	125.6	278.2	139.1	UL-RL 5.8408E+04 -14.00 0.000 1.000 1.000
125.6	0.000	0.000	Strato2_3095_82743_L_0				

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 754 di 1221							
20 D	1.536	2.5277E-03	1.900	7.678	72.20	38.96	PASSIVE	0.000	-3.800	0.000	1.000	1.000
7.678	0.000	0.000	Strato1_2_8_L_0									
21 D	4.607	2.3701E-03	5.700	23.03	76.00	40.97	PASSIVE	0.000	-4.000	0.000	1.000	1.000
23.03	0.000	0.000	Strato1_2_8_L_0									
22 D	7.678	2.2163E-03	9.500	38.39	79.80	42.98	PASSIVE	0.000	-4.200	0.000	1.000	1.000
38.39	0.000	0.000	Strato1_2_8_L_0									
23 D	10.75	2.0666E-03	13.30	53.75	83.60	53.75	PASSIVE	0.000	-4.400	0.000	1.000	1.000
53.75	0.000	0.000	Strato1_2_8_L_0									
24 D	11.18	1.9215E-03	17.10	55.88	87.40	55.88	V-C	4776.	-4.600	0.000	1.000	1.000
55.88	0.000	0.000	Strato1_2_8_L_0									
25 D	11.44	1.7815E-03	20.90	57.22	91.20	57.22	V-C	4776.	-4.800	0.000	1.000	1.000
57.22	0.000	0.000	Strato1_2_8_L_0									
26 D	11.72	1.6469E-03	24.70	58.59	95.00	58.59	V-C	4776.	-5.000	0.000	1.000	1.000
58.59	0.000	0.000	Strato1_2_8_L_0									
27 D	12.00	1.5181E-03	28.50	59.99	98.80	59.99	V-C	4776.	-5.200	0.000	1.000	1.000
59.99	0.000	0.000	Strato1_2_8_L_0									
28 D	12.28	1.3951E-03	32.30	61.41	102.6	61.41	V-C	4776.	-5.400	0.000	1.000	1.000
61.41	0.000	0.000	Strato1_2_8_L_0									
29 D	12.57	1.2784E-03	36.10	62.86	106.4	62.86	V-C	4776.	-5.600	0.000	1.000	1.000
62.86	0.000	0.000	Strato1_2_8_L_0									
30 D	12.87	1.1680E-03	39.90	64.34	110.2	64.34	V-C	4776.	-5.800	0.000	1.000	1.000
64.34	0.000	0.000	Strato1_2_8_L_0									
31 D	13.17	1.0640E-03	43.70	65.85	114.0	65.85	V-C	4776.	-6.000	0.000	1.000	1.000
65.85	0.000	0.000	Strato1_2_8_L_0									
32 D	13.48	9.6642E-04	47.50	67.39	117.8	67.39	V-C	4776.	-6.200	0.000	1.000	1.000
67.39	0.000	0.000	Strato1_2_8_L_0									
33 D	13.79	8.7533E-04	51.30	68.97	121.6	68.97	V-C	4776.	-6.400	0.000	1.000	1.000
68.97	0.000	0.000	Strato1_2_8_L_0									
34 D	14.11	7.9064E-04	55.10	70.57	125.4	70.57	V-C	4776.	-6.600	0.000	1.000	1.000
70.57	0.000	0.000	Strato1_2_8_L_0									
35 D	14.44	7.1227E-04	58.90	72.20	129.2	72.20	V-C	4776.	-6.800	0.000	1.000	1.000
72.20	0.000	0.000	Strato1_2_8_L_0									
36 D	14.77	6.4009E-04	62.70	73.86	133.0	73.86	V-C	4776.	-7.000	0.000	1.000	1.000
73.86	0.000	0.000	Strato1_2_8_L_0									
37 D	15.11	5.7397E-04	66.50	75.55	136.8	75.55	V-C	4776.	-7.200	0.000	1.000	1.000
75.55	0.000	0.000	Strato1_2_8_L_0									
38 D	15.45	5.1370E-04	70.30	77.27	140.6	77.27	V-C	4776.	-7.400	0.000	1.000	1.000
77.27	0.000	0.000	Strato1_2_8_L_0									
39 D	15.80	4.5910E-04	74.10	79.01	144.4	79.01	V-C	4776.	-7.600	0.000	1.000	1.000
79.01	0.000	0.000	Strato1_2_8_L_0									
40 D	16.16	4.0993E-04	77.90	80.78	148.2	80.78	V-C	4776.	-7.800	0.000	1.000	1.000
80.78	0.000	0.000	Strato1_2_8_L_0									
41 D	16.51	3.6596E-04	81.70	82.57	152.0	82.57	V-C	4776.	-8.000	0.000	1.000	1.000
82.57	0.000	0.000	Strato1_2_8_L_0									
42 D	16.88	3.2692E-04	85.50	84.39	155.8	84.39	V-C	4776.	-8.200	0.000	1.000	1.000
84.39	0.000	0.000	Strato1_2_8_L_0									
43 D	17.25	2.9255E-04	89.30	86.23	159.6	86.23	V-C	4776.	-8.400	0.000	1.000	1.000
86.23	0.000	0.000	Strato1_2_8_L_0									
44 D	17.62	2.6256E-04	93.10	88.09	163.4	88.09	V-C	4776.	-8.600	0.000	1.000	1.000
88.09	0.000	0.000	Strato1_2_8_L_0									
45 D	14.18	2.3666E-04	97.00	70.92	167.3	84.54	UL-RL	3.1656E+04	-8.800	0.000	1.000	1.000
70.92	0.000	0.000	Strato2_3095_82743_L_0									
46 D	14.46	2.1455E-04	101.0	72.30	171.3	86.50	UL-RL	3.1656E+04	-9.000	0.000	1.000	1.000
72.30	0.000	0.000	Strato2_3095_82743_L_0									
47 D	14.76	1.9593E-04	105.0	73.79	175.3	88.46	UL-RL	3.1656E+04	-9.200	0.000	1.000	1.000
73.79	0.000	0.000	Strato2_3095_82743_L_0									
48 D	15.08	1.8050E-04	109.0	75.38	179.3	90.43	UL-RL	3.1656E+04	-9.400	0.000	1.000	1.000
75.38	0.000	0.000	Strato2_3095_82743_L_0									
49 D	15.41	1.6797E-04	113.0	77.05	183.3	92.39	UL-RL	3.1656E+04	-9.600	0.000	1.000	1.000
77.05	0.000	0.000	Strato2_3095_82743_L_0									
50 D	15.76	1.5806E-04	117.0	78.81	187.3	94.36	UL-RL	3.1656E+04	-9.800	0.000	1.000	1.000
78.81	0.000	0.000	Strato2_3095_82743_L_0									
51 D	16.13	1.5049E-04	121.0	80.63	191.3	96.33	UL-RL	3.1656E+04	-10.00	0.000	1.000	1.000
80.63	0.000	0.000	Strato2_3095_82743_L_0									
52 D	16.50	1.4500E-04	125.0	82.52	195.3	98.31	UL-RL	3.1656E+04	-10.20	0.000	1.000	1.000
82.52	0.000	0.000	Strato2_3095_82743_L_0									
53 D	16.89	1.4135E-04	129.0	84.46	199.3	100.3	UL-RL	3.1656E+04	-10.40	0.000	1.000	1.000
84.46	0.000	0.000	Strato2_3095_82743_L_0									
54 D	17.29	1.3932E-04	133.0	86.44	203.3	102.3	UL-RL	3.1656E+04	-10.60	0.000	1.000	1.000
86.44	0.000	0.000	Strato2_3095_82743_L_0									
55 D	17.69	1.3869E-04	137.0	88.47	207.3	104.2	UL-RL	3.1656E+04	-10.80	0.000	1.000	1.000
88.47	0.000	0.000	Strato2_3095_82743_L_0									
56 D	18.11	1.3925E-04	141.0	90.54	211.3	106.2	UL-RL	3.1656E+04	-11.00	0.000	1.000	1.000
90.54	0.000	0.000	Strato2_3095_82743_L_0									
57 D	18.53	1.4084E-04	145.0	92.63	215.3	108.2	UL-RL	3.1656E+04	-11.20	0.000	1.000	1.000
92.63	0.000	0.000	Strato2_3095_82743_L_0									
58 D	18.95	1.4328E-04	149.0	94.75	219.3	110.2	UL-RL	3.1656E+04	-11.40	0.000	1.000	1.000
94.75	0.000	0.000	Strato2_3095_82743_L_0									
59 D	19.38	1.4644E-04	153.0	96.89	223.3	112.2	UL-RL	3.1656E+04	-11.60	0.000	1.000	1.000
96.89	0.000	0.000	Strato2_3095_82743_L_0									
60 D	19.81	1.5016E-04	157.0	99.05	227.3	114.2	UL-RL	3.1656E+04	-11.80	0.000	1.000	1.000
99.05	0.000	0.000	Strato2_3095_82743_L_0									
61 D	20.24	1.5435E-04	161.0	101.2	231.3	116.2	UL-RL	3.1656E+04	-12.00	0.000	1.000	1.000
101.2	0.000	0.000	Strato2_3095_82743_L_0									
62 D	20.68	1.5889E-04	165.0	103.4	235.3	118.2	UL-RL	3.1656E+04	-12.20	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 755 di 1221
103.4	0.000	0.000	Strato2_3095_82743_L_0		
63 D	21.12	1.6370E-04	169.0 105.6	239.3	120.2
105.6	0.000	0.000	Strato2_3095_82743_L_0		
64 D	21.55	1.6870E-04	173.0 107.8	243.3	122.2
107.8	0.000	0.000	Strato2_3095_82743_L_0		
65 D	21.99	1.7383E-04	177.0 110.0	247.3	124.2
110.0	0.000	0.000	Strato2_3095_82743_L_0		
66 D	22.43	1.7903E-04	181.0 112.2	251.3	126.2
112.2	0.000	0.000	Strato2_3095_82743_L_0		
67 D	22.87	1.8426E-04	185.0 114.3	255.3	128.2
114.3	0.000	0.000	Strato2_3095_82743_L_0		
68 D	23.31	1.8950E-04	189.0 116.5	259.3	130.2
116.5	0.000	0.000	Strato2_3095_82743_L_0		
69 D	23.75	1.9470E-04	193.0 118.7	263.3	132.2
118.7	0.000	0.000	Strato2_3095_82743_L_0		
70 D	24.18	1.9986E-04	197.0 120.9	267.3	134.2
120.9	0.000	0.000	Strato2_3095_82743_L_0		
71 D	24.62	2.0496E-04	201.0 123.1	271.3	136.2
123.1	0.000	0.000	Strato2_3095_82743_L_0		
72 D	25.06	2.1001E-04	205.0 125.3	275.3	138.2
125.3	0.000	0.000	Strato2_3095_82743_L_0		
73 D	25.49	2.1499E-04	209.0 127.5	279.3	140.2
127.5	0.000	0.000	Strato2_3095_82743_L_0		
74 D	25.93	2.1992E-04	213.0 129.6	283.3	142.2
129.6	0.000	0.000	Strato2_3095_82743_L_0		
75 D	26.36	2.2479E-04	217.0 131.8	287.3	144.2
131.8	0.000	0.000	Strato2_3095_82743_L_0		
76 D	26.80	2.2963E-04	221.0 134.0	291.3	146.2
134.0	0.000	0.000	Strato2_3095_82743_L_0		
77 D	27.23	2.3442E-04	225.0 136.2	295.3	148.2
136.2	0.000	0.000	Strato2_3095_82743_L_0		
78 D	27.66	2.3920E-04	229.0 138.3	299.3	150.2
138.3	0.000	0.000	Strato2_3095_82743_L_0		
79 D	28.10	2.4396E-04	233.0 140.5	303.3	152.2
140.5	0.000	0.000	Strato2_3095_82743_L_0		
80 D	28.53	2.4871E-04	237.0 142.7	307.3	154.2
142.7	0.000	0.000	Strato2_3095_82743_L_0		
81 D	14.48	2.5346E-04	241.0 144.8	311.3	156.2
144.8	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:01:10  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
 CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.30400	-0.30400	3.09147E-11	6.08000E-02
2	0.86087	-0.86087	-6.08000E-02	0.23297
3	1.7084	-1.7084	-0.23297	0.57465
4	2.8113	-2.8113	-0.57465	1.1369
5	4.1585	-4.1585	-1.1369	1.9686
6	5.7449	-5.7449	-1.9686	3.1176
7	7.5680	-7.5680	-3.1176	4.6312
8	9.6262	-9.6262	-4.6312	6.5564
9	11.878	-11.878	-6.5564	8.9320
10	14.367	-14.367	-8.9320	11.805
11	17.094	-17.094	-11.805	15.224
12	20.056	-20.056	-15.224	19.235
13	23.252	-23.252	-19.235	23.886
14	26.683	-26.683	-23.886	29.223
15	30.348	-30.348	-29.223	35.292
16	34.224	-34.224	-35.292	42.137
17	38.334	-38.334	-42.137	49.804
18	42.679	-42.679	-49.804	58.340
19	47.257	-47.257	-58.340	67.791
20	50.534	-50.534	-67.791	77.898
21	50.972	-50.972	-77.898	88.092
22	48.573	-48.573	-88.092	97.807
23	43.335	-43.335	-97.807	106.47

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 756 di 1221
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24	37.887	-37.887	-106.47	114.05
25	32.405	-32.405	-114.05	120.53
26	26.882	-26.882	-120.53	125.91
27	21.313	-21.313	-125.91	130.17
28	15.692	-15.692	-130.17	133.31
29	10.014	-10.014	-133.31	135.31
30	4.4386	-4.4386	-135.31	136.20
31	-0.61908	0.61908	-136.20	136.08
32	-5.1710	5.1710	-136.08	135.04
33	-9.2496	9.2496	-135.04	133.19
34	-12.887	12.887	-133.19	130.61
35	-16.116	16.116	-130.61	127.39
36	-18.966	18.966	-127.39	123.60
37	-21.469	21.469	-123.60	119.30
38	-23.654	23.654	-119.30	114.57
39	-25.566	25.566	-114.57	109.46
40	-27.214	27.214	-109.46	104.02
41	-28.627	28.627	-104.02	98.292
42	-29.828	29.828	-98.292	92.326
43	-30.842	30.842	-92.326	86.158
44	-31.691	31.691	-86.158	79.820
45	-31.765	31.765	-79.820	73.467
46	-31.446	31.446	-73.467	67.178
47	-30.782	30.782	-67.178	61.021
48	-29.833	29.833	-61.021	55.055
49	-28.649	28.649	-55.055	49.325
50	-27.279	27.279	-49.325	43.869
51	-25.767	25.767	-43.869	38.716
52	-24.150	24.150	-38.716	33.886
53	-22.462	22.462	-33.886	29.393
54	-20.745	20.745	-29.393	25.245
55	-19.012	19.012	-25.245	21.442
56	-17.288	17.288	-21.442	17.984
57	-15.591	15.591	-17.984	14.866
58	-13.936	13.936	-14.866	12.079
59	-12.339	12.339	-12.079	9.6113
60	-10.809	10.809	-9.6113	7.4495
61	-9.3652	9.3652	-7.4495	5.5765
62	-8.0049	8.0049	-5.5765	3.9755
63	-6.7333	6.7333	-3.9755	2.6289
64	-5.5543	5.5543	-2.6289	1.5180
65	-4.4705	4.4705	-1.5180	0.62391
66	-3.4835	3.4835	-0.62391	-7.27968E-02
67	-2.5943	2.5943	7.27968E-02	-0.59165
68	-1.8028	1.8028	0.59165	-0.95221
69	-1.1173	1.1173	0.95221	-1.1757
70	-0.52846	0.52846	1.1757	-1.2814
71	-3.54059E-02	3.54059E-02	1.2814	-1.2884
72	0.36291	-0.36291	1.2884	-1.2159
73	0.66756	-0.66756	1.2159	-1.0824
74	0.87958	-0.87958	1.0824	-0.90643
75	0.99993	-0.99993	0.90643	-0.70645
76	1.0218	-1.0218	0.70645	-0.50209
77	0.95355	-0.95355	0.50209	-0.31138
78	0.79572	-0.79572	0.31138	-0.15224
79	0.54865	-0.54865	0.15224	-4.25069E-02
80	0.21252	-0.21252	4.25069E-02	-1.09937E-12

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| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| NewProject.BaseDesignSection_28.SLERara_3454 |
| Exe Time :29 July 2019 18:01:10 |
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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

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1300E+06 RIMNOR=0.7545E+06

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
757 di 1221

RENORM= 8234. REMNOR=0.2564E-19 RATIO =0.2516 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 136.2
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1300E+06 RDR =0.7545E+06
 RATIOT=0.2516 RATIO= 0.000
 MAX UN=0.9474E-09 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
 MIN UN=-90.74 IEQ= 33 NODE 17 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1300E+06 RIMNOR=0.7545E+06
 RENORM= 9.390 REMNOR=0.1956E-19 RATIO =0.8498E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 136.2
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1300E+06 RDR =0.7545E+06
 RATIOT=0.8498E-02 RATIO= 0.000
 MAX UN=0.6921E-09 IEQ= 29 NODE 15 DOF 1 Y-DISPL.F
 MIN UN=-1.406 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1300E+06 RIMNOR=0.7545E+06
 RENORM=0.1496 REMNOR=0.1776E-19 RATIO =0.1073E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 136.2
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1300E+06 RDR =0.7545E+06
 RATIOT=0.1073E-02 RATIO= 0.000
 MAX UN=0.6619E-09 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
 MIN UN=-.3443 IEQ= 29 NODE 15 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1300E+06 RIMNOR=0.7545E+06
 RENORM=0.4677E-04 REMNOR=0.2424E-19 RATIO =0.1897E-04 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 90.74 RMMAX = 136.2
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1300E+06 RDR =0.7545E+06
 RATIOT=0.1897E-04 RATIO= 0.000
 MAX UN=0.8744E-09 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
 MIN UN=-.6839E-02 IEQ= 33 NODE 17 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 758 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.SLERara_3454                       |
|                               Exe Time :29 July 2019      18:01:10                             |
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New Project
SOLUTION REACHED USING 4 ITERATIONS ON 100

P R I N T O U T F O R T I M E S T E P 4 (AT TIME 4.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	4.7831847E-03	-8.0851834E-04	
2	4.6214829E-03	-8.0849095E-04	
3	4.4597955E-03	-8.0835626E-04	
4	4.2981552E-03	-8.0799940E-04	
5	4.1366194E-03	-8.0728700E-04	
6	3.9752741E-03	-8.0606889E-04	
7	3.8142367E-03	-8.0417866E-04	
8	3.6536596E-03	-8.0143391E-04	
9	3.4937333E-03	-7.9763648E-04	
10	3.3346893E-03	-7.9257395E-04	
11	3.1768032E-03	-7.8601961E-04	
12	3.0203971E-03	-7.7773092E-04	
13	2.8658436E-03	-7.6744971E-04	
14	2.7135683E-03	-7.5490228E-04	
15	2.5640531E-03	-7.3979950E-04	
16	2.4178392E-03	-7.2183699E-04	
17	2.2755302E-03	-7.0069605E-04	
18	2.1376512E-03	-6.7819776E-04	
19	2.0042208E-03	-6.5615275E-04	
20	1.8751832E-03	-6.3421205E-04	
21	1.7505525E-03	-6.1202443E-04	
22	1.6304091E-03	-5.8930113E-04	
23	1.5148780E-03	-5.6588852E-04	
24	1.4041007E-03	-5.4177911E-04	
25	1.2982083E-03	-5.1704880E-04	
26	1.1973164E-03	-4.9179100E-04	
27	1.1015200E-03	-4.6611205E-04	
28	1.0108916E-03	-4.4013145E-04	
29	9.2547907E-04	-4.1398198E-04	
30	8.4530083E-04	-3.8780921E-04	
31	7.7034660E-04	-3.6176823E-04	
32	7.0057475E-04	-3.3600912E-04	
33	6.3591515E-04	-3.1066711E-04	
34	5.7627204E-04	-2.8586319E-04	
35	5.2152707E-04	-2.6170530E-04	
36	4.7154076E-04	-2.3828894E-04	
37	4.2615641E-04	-2.1569888E-04	
38	3.8520115E-04	-1.9400967E-04	
39	3.4848812E-04	-1.7328674E-04	
40	3.1581835E-04	-1.5358770E-04	
41	2.8698159E-04	-1.3496288E-04	
42	2.6175865E-04	-1.1745632E-04	
43	2.3992197E-04	-1.0110613E-04	
44	2.2123691E-04	-8.5945329E-05	
45	2.0546271E-04	-7.2002607E-05	
46	1.9235464E-04	-5.9279537E-05	
47	1.8167149E-04	-4.7747551E-05	
48	1.7317881E-04	-3.7367724E-05	
49	1.6665076E-04	-2.8092520E-05	
50	1.6187180E-04	-1.9867631E-05	
51	1.5863769E-04	-1.2633425E-05	
52	1.5675663E-04	-6.3267595E-06	
53	1.5604959E-04	-8.8159892E-07	
54	1.5635102E-04	3.7690646E-06	
55	1.5750874E-04	7.6925016E-06	
56	1.5938398E-04	1.0955276E-05	
57	1.6185117E-04	1.3622793E-05	
58	1.6479765E-04	1.5758693E-05	
59	1.6812329E-04	1.7424363E-05	
60	1.7173996E-04	1.8678525E-05	
61	1.7557099E-04	1.9576926E-05	
62	1.7955050E-04	2.0171856E-05	
63	1.8362274E-04	2.0511976E-05	
64	1.8774131E-04	2.0642415E-05	
65	1.9186850E-04	2.0604693E-05	
66	1.9597451E-04	2.0436677E-05	
67	2.0003676E-04	2.0172567E-05	

GENERAL CONTRACTOR



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GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 760 di 1221							
23 D	7.789	-1.5149E-03	90.64	38.95	90.64	48.04	UL-RL	2.0647E+04	-4.400	0.000	1.000	1.000
38.95	0.000	0.000	Strato1_2_8_L_0									
24 D	7.866	-1.4041E-03	94.23	39.33	94.23	49.94	UL-RL	2.0647E+04	-4.600	0.000	1.000	1.000
39.33	0.000	0.000	Strato1_2_8_L_0									
25 D	7.958	-1.2982E-03	98.06	39.79	98.06	51.97	UL-RL	2.0647E+04	-4.800	0.000	1.000	1.000
39.79	0.000	0.000	Strato1_2_8_L_0									
26 D	8.052	-1.1973E-03	101.9	40.26	101.9	54.01	UL-RL	2.0647E+04	-5.000	0.000	1.000	1.000
40.26	0.000	0.000	Strato1_2_8_L_0									
27 D	8.148	-1.1015E-03	105.7	40.74	105.7	56.04	UL-RL	2.0647E+04	-5.200	0.000	1.000	1.000
40.74	0.000	0.000	Strato1_2_8_L_0									
28 D	8.248	-1.0109E-03	109.6	41.24	109.6	58.06	UL-RL	2.0647E+04	-5.400	0.000	1.000	1.000
41.24	0.000	0.000	Strato1_2_8_L_0									
29 D	8.351	-9.2548E-04	113.4	41.75	113.4	60.09	UL-RL	2.0647E+04	-5.600	0.000	1.000	1.000
41.75	0.000	0.000	Strato1_2_8_L_0									
30 D	8.625	-8.4530E-04	117.2	43.13	117.2	62.12	UL-RL	2.0647E+04	-5.800	0.000	1.000	1.000
43.13	0.000	0.000	Strato1_2_8_L_0									
31 D	9.325	-7.7035E-04	120.8	46.63	120.8	64.05	UL-RL	2.0647E+04	-6.000	0.000	1.000	1.000
46.63	0.000	0.000	Strato1_2_8_L_0									
32 D	10.02	-7.0057E-04	124.7	50.12	124.7	66.07	UL-RL	2.0647E+04	-6.200	0.000	1.000	1.000
50.12	0.000	0.000	Strato1_2_8_L_0									
33 D	10.70	-6.3592E-04	128.5	53.52	128.5	68.10	UL-RL	2.0647E+04	-6.400	0.000	1.000	1.000
53.52	0.000	0.000	Strato1_2_8_L_0									
34 D	11.36	-5.7627E-04	132.3	56.81	132.3	70.13	UL-RL	2.0647E+04	-6.600	0.000	1.000	1.000
56.81	0.000	0.000	Strato1_2_8_L_0									
35 D	12.00	-5.2153E-04	136.1	60.00	136.1	72.15	UL-RL	2.0647E+04	-6.800	0.000	1.000	1.000
60.00	0.000	0.000	Strato1_2_8_L_0									
36 D	12.62	-4.7154E-04	140.0	63.09	140.0	74.18	UL-RL	2.0647E+04	-7.000	0.000	1.000	1.000
63.09	0.000	0.000	Strato1_2_8_L_0									
37 D	13.22	-4.2616E-04	143.8	66.09	143.8	76.20	UL-RL	2.0647E+04	-7.200	0.000	1.000	1.000
66.09	0.000	0.000	Strato1_2_8_L_0									
38 D	13.80	-3.8520E-04	147.6	69.00	147.6	78.23	UL-RL	2.0647E+04	-7.400	0.000	1.000	1.000
69.00	0.000	0.000	Strato1_2_8_L_0									
39 D	14.35	-3.4849E-04	151.3	71.74	151.3	80.17	UL-RL	2.0647E+04	-7.600	0.000	1.000	1.000
71.74	0.000	0.000	Strato1_2_8_L_0									
40 D	14.90	-3.1582E-04	155.1	74.48	155.1	82.20	UL-RL	2.0647E+04	-7.800	0.000	1.000	1.000
74.48	0.000	0.000	Strato1_2_8_L_0									
41 D	15.43	-2.8698E-04	158.9	77.14	158.9	84.22	UL-RL	2.0647E+04	-8.000	0.000	1.000	1.000
77.14	0.000	0.000	Strato1_2_8_L_0									
42 D	15.95	-2.6176E-04	162.7	79.73	162.7	86.25	UL-RL	2.0647E+04	-8.200	0.000	1.000	1.000
79.73	0.000	0.000	Strato1_2_8_L_0									
43 D	16.45	-2.3992E-04	166.5	82.25	166.5	88.27	UL-RL	2.0647E+04	-8.400	0.000	1.000	1.000
82.25	0.000	0.000	Strato1_2_8_L_0									
44 D	16.94	-2.2124E-04	170.4	84.70	170.4	90.29	UL-RL	2.0647E+04	-8.600	0.000	1.000	1.000
84.70	0.000	0.000	Strato1_2_8_L_0									
45 D	14.47	-2.0546E-04	174.3	72.37	174.3	87.14	UL-RL	5.8408E+04	-8.800	0.000	1.000	1.000
72.37	0.000	0.000	Strato2_3095_82743_L_0									
46 D	15.04	-1.9235E-04	178.2	75.20	178.2	89.09	UL-RL	5.8408E+04	-9.000	0.000	1.000	1.000
75.20	0.000	0.000	Strato2_3095_82743_L_0									
47 D	15.59	-1.8167E-04	182.2	77.94	182.2	91.09	UL-RL	5.8408E+04	-9.200	0.000	1.000	1.000
77.94	0.000	0.000	Strato2_3095_82743_L_0									
48 D	16.11	-1.7318E-04	186.2	80.56	186.2	93.10	UL-RL	5.8408E+04	-9.400	0.000	1.000	1.000
80.56	0.000	0.000	Strato2_3095_82743_L_0									
49 D	16.61	-1.6665E-04	190.2	83.05	190.2	95.11	UL-RL	5.8408E+04	-9.600	0.000	1.000	1.000
83.05	0.000	0.000	Strato2_3095_82743_L_0									
50 D	17.09	-1.6187E-04	194.2	85.43	194.2	97.12	UL-RL	5.8408E+04	-9.800	0.000	1.000	1.000
85.43	0.000	0.000	Strato2_3095_82743_L_0									
51 D	17.54	-1.5864E-04	198.3	87.72	198.3	99.13	UL-RL	5.8408E+04	-10.000	0.000	1.000	1.000
87.72	0.000	0.000	Strato2_3095_82743_L_0									
52 D	17.98	-1.5676E-04	202.3	89.91	202.3	101.1	UL-RL	5.8408E+04	-10.200	0.000	1.000	1.000
89.91	0.000	0.000	Strato2_3095_82743_L_0									
53 D	18.41	-1.5605E-04	206.3	92.04	206.3	103.1	UL-RL	5.8408E+04	-10.400	0.000	1.000	1.000
92.04	0.000	0.000	Strato2_3095_82743_L_0									
54 D	18.81	-1.5635E-04	210.2	94.04	210.2	105.1	UL-RL	5.8408E+04	-10.600	0.000	1.000	1.000
94.04	0.000	0.000	Strato2_3095_82743_L_0									
55 D	19.21	-1.5751E-04	214.2	96.04	214.2	107.1	UL-RL	5.8408E+04	-10.800	0.000	1.000	1.000
96.04	0.000	0.000	Strato2_3095_82743_L_0									
56 D	19.60	-1.5938E-04	218.2	97.99	218.2	109.1	UL-RL	5.8408E+04	-11.000	0.000	1.000	1.000
97.99	0.000	0.000	Strato2_3095_82743_L_0									
57 D	19.98	-1.6185E-04	222.2	99.89	222.2	111.1	UL-RL	5.8408E+04	-11.200	0.000	1.000	1.000
99.89	0.000	0.000	Strato2_3095_82743_L_0									
58 D	20.35	-1.6480E-04	226.2	101.8	226.2	113.1	UL-RL	5.8408E+04	-11.400	0.000	1.000	1.000
101.8	0.000	0.000	Strato2_3095_82743_L_0									
59 D	20.72	-1.6812E-04	230.3	103.6	230.3	115.1	UL-RL	5.8408E+04	-11.600	0.000	1.000	1.000
103.6	0.000	0.000	Strato2_3095_82743_L_0									
60 D	21.09	-1.7174E-04	234.3	105.4	234.3	117.1	UL-RL	5.8408E+04	-11.800	0.000	1.000	1.000
105.4	0.000	0.000	Strato2_3095_82743_L_0									
61 D	21.44	-1.7557E-04	238.2	107.2	238.2	119.1	UL-RL	5.8408E+04	-12.000	0.000	1.000	1.000
107.2	0.000	0.000	Strato2_3095_82743_L_0									
62 D	21.80	-1.7955E-04	242.2	109.0	242.2	121.1	UL-RL	5.8408E+04	-12.200	0.000	1.000	1.000
109.0	0.000	0.000	Strato2_3095_82743_L_0									
63 D	22.16	-1.8362E-04	246.2	110.8	246.2	123.1	UL-RL	5.8408E+04	-12.400	0.000	1.000	1.000
110.8	0.000	0.000	Strato2_3095_82743_L_0									
64 D	22.51	-1.8774E-04	250.2	112.6	250.2	125.1	UL-RL	5.8408E+04	-12.600	0.000	1.000	1.000
112.6	0.000	0.000	Strato2_3095_82743_L_0									
65 D	22.87	-1.9187E-04	254.2	114.3	254.2	127.1	UL-RL	5.8408E+04	-12.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 761 di 1221
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114.3	0.000	0.000	Strato2_3095_82743_L_0									
66 D	23.22	-1.9597E-04	258.2	116.1	258.2	129.1	UL-RL	5.8408E+04	-13.00	0.000	1.000	1.000
116.1	0.000	0.000	Strato2_3095_82743_L_0									
67 D	23.57	-2.0004E-04	262.3	117.9	262.3	131.1	UL-RL	5.8408E+04	-13.20	0.000	1.000	1.000
117.9	0.000	0.000	Strato2_3095_82743_L_0									
68 D	23.93	-2.0404E-04	266.3	119.6	266.3	133.1	UL-RL	5.8408E+04	-13.40	0.000	1.000	1.000
119.6	0.000	0.000	Strato2_3095_82743_L_0									
69 D	24.28	-2.0797E-04	270.2	121.4	270.2	135.1	UL-RL	5.8408E+04	-13.60	0.000	1.000	1.000
121.4	0.000	0.000	Strato2_3095_82743_L_0									
70 D	24.63	-2.1183E-04	274.2	123.2	274.2	137.1	UL-RL	5.8408E+04	-13.80	0.000	1.000	1.000
123.2	0.000	0.000	Strato2_3095_82743_L_0									
71 D	24.99	-2.1561E-04	278.2	124.9	278.2	139.1	UL-RL	5.8408E+04	-14.00	0.000	1.000	1.000
124.9	0.000	0.000	Strato2_3095_82743_L_0									
72 D	25.35	-2.1931E-04	282.2	126.7	282.2	141.1	UL-RL	5.8408E+04	-14.20	0.000	1.000	1.000
126.7	0.000	0.000	Strato2_3095_82743_L_0									
73 D	25.70	-2.2295E-04	286.2	128.5	286.2	143.1	UL-RL	5.8408E+04	-14.40	0.000	1.000	1.000
128.5	0.000	0.000	Strato2_3095_82743_L_0									
74 D	26.06	-2.2653E-04	290.3	130.3	290.3	145.1	UL-RL	5.8408E+04	-14.60	0.000	1.000	1.000
130.3	0.000	0.000	Strato2_3095_82743_L_0									
75 D	26.42	-2.3005E-04	294.3	132.1	294.3	147.1	UL-RL	5.8408E+04	-14.80	0.000	1.000	1.000
132.1	0.000	0.000	Strato2_3095_82743_L_0									
76 D	26.77	-2.3353E-04	298.2	133.9	298.2	149.1	UL-RL	5.8408E+04	-15.00	0.000	1.000	1.000
133.9	0.000	0.000	Strato2_3095_82743_L_0									
77 D	27.13	-2.3698E-04	302.2	135.7	302.2	151.1	UL-RL	5.8408E+04	-15.20	0.000	1.000	1.000
135.7	0.000	0.000	Strato2_3095_82743_L_0									
78 D	27.49	-2.4041E-04	306.2	137.5	306.2	153.1	UL-RL	5.8408E+04	-15.40	0.000	1.000	1.000
137.5	0.000	0.000	Strato2_3095_82743_L_0									
79 D	27.85	-2.4382E-04	310.2	139.3	310.2	155.1	UL-RL	5.8408E+04	-15.60	0.000	1.000	1.000
139.3	0.000	0.000	Strato2_3095_82743_L_0									
80 D	28.21	-2.4722E-04	314.2	141.1	314.2	157.1	UL-RL	5.8408E+04	-15.80	0.000	1.000	1.000
141.1	0.000	0.000	Strato2_3095_82743_L_0									
81 D	14.29	-2.5063E-04	318.2	142.9	318.2	159.1	UL-RL	5.8408E+04	-16.00	0.000	1.000	1.000
142.9	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SLERara_3454          |
|          Exe Time :29 July 2019          18:01:10          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
CURRENT TIME IS 4.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 762 di 1221
0.000	0.000	0.000	not available		
14	0.000	--	--	--	--
0.000	0.000	0.000	not available		
15	0.000	--	--	--	--
0.000	0.000	0.000	not available		
16	0.000	--	--	--	--
0.000	0.000	0.000	not available		
17	0.000	--	--	--	--
0.000	0.000	0.000	not available		
18	0.000	--	--	--	--
0.000	0.000	0.000	not available		
19	0.000	--	--	--	--
0.000	0.000	0.000	not available		
20 D	0.1155	1.8752E-03	1.900 0.5776	72.20	38.96
0.5776	0.000	0.000	Strato1_2_8_L_0		
21 D	2.831	1.7506E-03	5.700 14.16	76.00	40.97
14.16	0.000	0.000	Strato1_2_8_L_0		
22 D	5.999	1.6304E-03	9.500 30.00	79.80	42.98
30.00	0.000	0.000	Strato1_2_8_L_0		
23 D	9.168	1.5149E-03	13.30 45.84	83.60	53.75
45.84	0.000	0.000	Strato1_2_8_L_0		
24 D	9.694	1.4041E-03	17.10 48.47	87.40	55.88
48.47	0.000	0.000	Strato1_2_8_L_0		
25 D	10.06	1.2982E-03	20.90 50.30	91.20	57.22
50.30	0.000	0.000	Strato1_2_8_L_0		
26 D	10.43	1.1973E-03	24.70 52.15	95.00	58.59
52.15	0.000	0.000	Strato1_2_8_L_0		
27 D	10.80	1.1015E-03	28.50 54.02	98.80	59.99
54.02	0.000	0.000	Strato1_2_8_L_0		
28 D	11.18	1.0109E-03	32.30 55.90	102.6	61.41
55.90	0.000	0.000	Strato1_2_8_L_0		
29 D	11.56	9.2548E-04	36.10 57.80	106.4	62.86
57.80	0.000	0.000	Strato1_2_8_L_0		
30 D	11.94	8.4530E-04	39.90 59.72	110.2	64.34
59.72	0.000	0.000	Strato1_2_8_L_0		
31 D	12.33	7.7035E-04	43.70 61.64	114.0	65.85
61.64	0.000	0.000	Strato1_2_8_L_0		
32 D	12.72	7.0057E-04	47.50 63.58	117.8	67.39
63.58	0.000	0.000	Strato1_2_8_L_0		
33 D	13.11	6.3592E-04	51.30 65.54	121.6	68.97
65.54	0.000	0.000	Strato1_2_8_L_0		
34 D	13.50	5.7627E-04	55.10 67.50	125.4	70.57
67.50	0.000	0.000	Strato1_2_8_L_0		
35 D	13.89	5.2153E-04	58.90 69.47	129.2	72.20
69.47	0.000	0.000	Strato1_2_8_L_0		
36 D	14.29	4.7154E-04	62.70 71.45	133.0	73.86
71.45	0.000	0.000	Strato1_2_8_L_0		
37 D	14.69	4.2616E-04	66.50 73.43	136.8	75.55
73.43	0.000	0.000	Strato1_2_8_L_0		
38 D	15.09	3.8520E-04	70.30 75.43	140.6	77.27
75.43	0.000	0.000	Strato1_2_8_L_0		
39 D	15.49	3.4849E-04	74.10 77.43	144.4	79.01
77.43	0.000	0.000	Strato1_2_8_L_0		
40 D	15.89	3.1582E-04	77.90 79.43	148.2	80.78
79.43	0.000	0.000	Strato1_2_8_L_0		
41 D	16.29	2.8698E-04	81.70 81.44	152.0	82.57
81.44	0.000	0.000	Strato1_2_8_L_0		
42 D	16.69	2.6176E-04	85.50 83.46	155.8	84.39
83.46	0.000	0.000	Strato1_2_8_L_0		
43 D	17.10	2.3992E-04	89.30 85.48	159.6	86.23
85.48	0.000	0.000	Strato1_2_8_L_0		
44 D	17.50	2.2124E-04	93.10 87.50	163.4	88.09
87.50	0.000	0.000	Strato1_2_8_L_0		
45 D	13.99	2.0546E-04	97.00 69.93	167.3	84.54
69.93	0.000	0.000	Strato2_3095_82743_L_0		
46 D	14.32	1.9235E-04	101.0 71.60	171.3	86.50
71.60	0.000	0.000	Strato2_3095_82743_L_0		
47 D	14.67	1.8167E-04	105.0 73.34	175.3	88.46
73.34	0.000	0.000	Strato2_3095_82743_L_0		
48 D	15.03	1.7318E-04	109.0 75.15	179.3	90.43
75.15	0.000	0.000	Strato2_3095_82743_L_0		
49 D	15.40	1.6665E-04	113.0 77.01	183.3	92.39
77.01	0.000	0.000	Strato2_3095_82743_L_0		
50 D	15.79	1.6187E-04	117.0 78.93	187.3	94.36
78.93	0.000	0.000	Strato2_3095_82743_L_0		
51 D	16.18	1.5864E-04	121.0 80.89	191.3	96.33
80.89	0.000	0.000	Strato2_3095_82743_L_0		
52 D	16.58	1.5676E-04	125.0 82.89	195.3	98.31
82.89	0.000	0.000	Strato2_3095_82743_L_0		
53 D	16.98	1.5605E-04	129.0 84.92	199.3	100.3
84.92	0.000	0.000	Strato2_3095_82743_L_0		
54 D	17.40	1.5635E-04	133.0 86.98	203.3	102.3
86.98	0.000	0.000	Strato2_3095_82743_L_0		
55 D	17.81	1.5751E-04	137.0 89.07	207.3	104.2
89.07	0.000	0.000	Strato2_3095_82743_L_0		



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 763 di 1221
56 D	18.24	1.5938E-04	141.0	91.18	211.3
91.18	0.000	0.000	Strato2_3095_82743_L_0		106.2
57 D	18.66	1.6185E-04	145.0	93.30	215.3
93.30	0.000	0.000	Strato2_3095_82743_L_0		108.2
58 D	19.09	1.6480E-04	149.0	95.44	219.3
95.44	0.000	0.000	Strato2_3095_82743_L_0		110.2
59 D	19.52	1.6812E-04	153.0	97.58	223.3
97.58	0.000	0.000	Strato2_3095_82743_L_0		112.2
60 D	19.95	1.7174E-04	157.0	99.73	227.3
99.73	0.000	0.000	Strato2_3095_82743_L_0		114.2
61 D	20.38	1.7557E-04	161.0	101.9	231.3
101.9	0.000	0.000	Strato2_3095_82743_L_0		116.2
62 D	20.81	1.7955E-04	165.0	104.0	235.3
104.0	0.000	0.000	Strato2_3095_82743_L_0		118.2
63 D	21.24	1.8362E-04	169.0	106.2	239.3
106.2	0.000	0.000	Strato2_3095_82743_L_0		120.2
64 D	21.67	1.8774E-04	173.0	108.4	243.3
108.4	0.000	0.000	Strato2_3095_82743_L_0		122.2
65 D	22.11	1.9187E-04	177.0	110.5	247.3
110.5	0.000	0.000	Strato2_3095_82743_L_0		124.2
66 D	22.54	1.9597E-04	181.0	112.7	251.3
112.7	0.000	0.000	Strato2_3095_82743_L_0		126.2
67 D	22.97	2.0004E-04	185.0	114.8	255.3
114.8	0.000	0.000	Strato2_3095_82743_L_0		128.2
68 D	23.40	2.0404E-04	189.0	117.0	259.3
117.0	0.000	0.000	Strato2_3095_82743_L_0		130.2
69 D	23.83	2.0797E-04	193.0	119.1	263.3
119.1	0.000	0.000	Strato2_3095_82743_L_0		132.2
70 D	24.26	2.1183E-04	197.0	121.3	267.3
121.3	0.000	0.000	Strato2_3095_82743_L_0		134.2
71 D	24.69	2.1561E-04	201.0	123.4	271.3
123.4	0.000	0.000	Strato2_3095_82743_L_0		136.2
72 D	25.11	2.1931E-04	205.0	125.6	275.3
125.6	0.000	0.000	Strato2_3095_82743_L_0		138.2
73 D	25.54	2.2295E-04	209.0	127.7	279.3
127.7	0.000	0.000	Strato2_3095_82743_L_0		140.2
74 D	25.97	2.2653E-04	213.0	129.8	283.3
129.8	0.000	0.000	Strato2_3095_82743_L_0		142.2
75 D	26.40	2.3005E-04	217.0	132.0	287.3
132.0	0.000	0.000	Strato2_3095_82743_L_0		144.2
76 D	26.82	2.3353E-04	221.0	134.1	291.3
134.1	0.000	0.000	Strato2_3095_82743_L_0		146.2
77 D	27.25	2.3698E-04	225.0	136.2	295.3
136.2	0.000	0.000	Strato2_3095_82743_L_0		148.2
78 D	27.67	2.4041E-04	229.0	138.4	299.3
138.4	0.000	0.000	Strato2_3095_82743_L_0		150.2
79 D	28.10	2.4382E-04	233.0	140.5	303.3
140.5	0.000	0.000	Strato2_3095_82743_L_0		152.2
80 D	28.52	2.4722E-04	237.0	142.6	307.3
142.6	0.000	0.000	Strato2_3095_82743_L_0		154.2
81 D	14.47	2.5063E-04	241.0	144.7	311.3
144.7	0.000	0.000	Strato2_3095_82743_L_0		156.2

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|          NewProject.BaseDesignSection_28.SLERara_3454                                          |
|          Exe Time :29 July 2019      18:01:10                                                  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
 CURRENT TIME IS 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.1538	-1.1538	-5.34072E-11	0.23076
2	3.3657	-3.3657	-0.23076	0.90389
3	5.9930	-5.9930	-0.90389	2.1025
4	8.9830	-8.9830	-2.1025	3.8991
5	12.319	-12.319	-3.8991	6.3629
6	15.993	-15.993	-6.3629	9.5615
7	20.001	-20.001	-9.5615	13.562
8	24.341	-24.341	-13.562	18.430
9	28.949	-28.949	-18.430	24.220
10	33.891	-33.891	-24.220	30.998

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 764 di 1221
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11	39.164	-39.164	-30.998	38.830
12	44.766	-44.766	-38.830	47.784
13	50.694	-50.694	-47.784	57.922
14	56.944	-56.944	-57.922	69.311
15	63.515	-63.515	-69.311	82.014
16	70.369	-70.369	-82.014	96.088
17	-13.194	13.194	-96.088	93.449
18	-5.8991	5.8991	-93.449	92.269
19	1.5050	-1.5050	-92.269	92.570
20	8.8960	-8.8960	-92.570	94.350
21	13.669	-13.669	-94.350	97.083
22	15.367	-15.367	-97.083	100.16
23	13.989	-13.989	-100.16	102.95
24	12.161	-12.161	-102.95	105.39
25	10.059	-10.059	-105.39	107.40
26	7.6809	-7.6809	-107.40	108.93
27	5.0257	-5.0257	-108.93	109.94
28	2.0929	-2.0929	-109.94	110.36
29	-1.1167	1.1167	-110.36	110.13
30	-4.4348	4.4348	-110.13	109.25
31	-7.4385	7.4385	-109.25	107.76
32	-10.131	10.131	-107.76	105.73
33	-12.535	12.535	-105.73	103.23
34	-14.673	14.673	-103.23	100.29
35	-16.567	16.567	-100.29	96.979
36	-18.239	18.239	-96.979	93.331
37	-19.708	19.708	-93.331	89.390
38	-20.994	20.994	-89.390	85.191
39	-22.131	22.131	-85.191	80.765
40	-23.122	23.122	-80.765	76.140
41	-23.982	23.982	-76.140	71.344
42	-24.727	24.727	-71.344	66.398
43	-25.373	25.373	-66.398	61.324
44	-25.933	25.933	-61.324	56.137
45	-25.445	25.445	-56.137	51.048
46	-24.726	24.726	-51.048	46.103
47	-23.806	23.806	-46.103	41.342
48	-22.724	22.724	-41.342	36.797
49	-21.516	21.516	-36.797	32.494
50	-20.216	20.216	-32.494	28.451
51	-18.850	18.850	-28.451	24.681
52	-17.445	17.445	-24.681	21.192
53	-16.022	16.022	-21.192	17.988
54	-14.611	14.611	-17.988	15.065
55	-13.218	13.218	-15.065	12.422
56	-11.856	11.856	-12.422	10.051
57	-10.537	10.537	-10.051	7.9433
58	-9.2703	9.2703	-7.9433	6.0892
59	-8.0634	8.0634	-6.0892	4.4765
60	-6.9222	6.9222	-4.4765	3.0921
61	-5.8607	5.8607	-3.0921	1.9199
62	-4.8725	4.8725	-1.9199	0.94542
63	-3.9597	3.9597	-0.94542	0.15347
64	-3.1236	3.1236	-0.15347	-0.47126
65	-2.3647	2.3647	0.47126	-0.94420
66	-1.6830	1.6830	0.94420	-1.2808
67	-1.0778	1.0778	1.2808	-1.4963
68	-0.54832	0.54832	1.4963	-1.6060
69	-0.10187	0.10187	1.6060	-1.6264
70	0.27135	-0.27135	1.6264	-1.5721
71	0.57264	-0.57264	1.5721	-1.4576
72	0.80331	-0.80331	1.4576	-1.2969
73	0.96457	-0.96457	1.2969	-1.1040
74	1.0575	-1.0575	1.1040	-0.89250
75	1.0832	-1.0832	0.89250	-0.67586
76	1.0347	-1.0347	0.67586	-0.46893
77	0.92043	-0.92043	0.46893	-0.28484
78	0.74087	-0.74087	0.28484	-0.13667
79	0.49632	-0.49632	0.13667	-3.74015E-02
80	0.18700	-0.18700	3.74015E-02	-3.52610E-12

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.SLERara_3454          |
|          Exe Time :29 July 2019          18:01:10          |
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New Project

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 765 di 1221
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Tirantel_429 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 C U R R E N T T I M E I S 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit		
ANCHOR	1	93.940	-7.17174E-04	-7.17174E-04	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1054E+06 RIMNOR=0.5900E+06
 RENORM= 6033. REMNOR=0.2424E-19 RATIO =0.2393 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 110.4
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1054E+06 RDR =0.5900E+06
 RATIO=0.2393 RATOR= 0.000
 MAX UN= 17.50 IEQ= 87 NODE 44 DOF 1 Y-DISPL.F
 MIN UN=-.6839E-02 IEQ= 33 NODE 17 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1054E+06 RIMNOR=0.5900E+06
 RENORM= 198.2 REMNOR=0.2011E-18 RATIO =0.4337E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 110.4
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1054E+06 RDR =0.5900E+06
 RATIO=0.4337E-01 RATOR= 0.000
 MAX UN= 4.255 IEQ= 59 NODE 30 DOF 1 Y-DISPL.F
 MIN UN=-.7201E-09 IEQ= 109 NODE 55 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1054E+06 RIMNOR=0.5900E+06
 RENORM= 77.00 REMNOR=0.1984E-18 RATIO =0.2703E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 110.4
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1054E+06 RDR =0.5900E+06
 RATIO=0.2703E-01 RATOR= 0.000
 MAX UN= 3.314 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F
 MIN UN=-.1790E-08 IEQ= 33 NODE 17 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1054E+06 RIMNOR=0.5900E+06
 RENORM= 12.72 REMNOR=0.6697E-18 RATIO =0.1099E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 110.4
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1054E+06 RDR =0.5900E+06
 RATIO=0.1099E-01 RATOR= 0.000
 MAX UN= 2.562 IEQ= 103 NODE 52 DOF 1 Y-DISPL.F
 MIN UN=-.4276E-08 IEQ= 27 NODE 14 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1054E+06 RIMNOR=0.5900E+06
 RENORM=0.2934E-01 REMNOR=0.2932E-18 RATIO =0.5277E-03 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 110.4
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1054E+06 RDR =0.5900E+06
 RATIO=0.5277E-03 RATOR= 0.000
 MAX UN=0.1713 IEQ= 93 NODE 47 DOF 1 Y-DISPL.F
 MIN UN=-.2442E-08 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1054E+06 RIMNOR=0.5900E+06
 RENORM=0.4318E-16 REMNOR=0.3025E-18 RATIO =0.2024E-10 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 90.74 RMMAX = 110.4
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1054E+06 RDR =0.5900E+06
 RATIO=0.2024E-10 RATOR= 0.000
 MAX UN=0.2163E-08 IEQ= 57 NODE 29 DOF 1 Y-DISPL.F
 MIN UN=-.2900E-08 IEQ= 43 NODE 22 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 766 di 1221
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|                PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|                NewProject.BaseDesignSection_28.SLERara_3454
|                Exe Time :29 July 2019      18:01:10
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New Project
SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 5 (AT TIME 5.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	1.5266651E-02	-1.1729423E-03	
2	1.5032063E-02	-1.1729351E-03	
3	1.4797478E-02	-1.1729002E-03	
4	1.4562907E-02	-1.1728044E-03	
5	1.4328364E-02	-1.1726012E-03	
6	1.4093877E-02	-1.1722326E-03	
7	1.3859486E-02	-1.1716288E-03	
8	1.3625247E-02	-1.1707090E-03	
9	1.3391230E-02	-1.1693811E-03	
10	1.3157528E-02	-1.1675426E-03	
11	1.2924254E-02	-1.1650810E-03	
12	1.2691546E-02	-1.1618725E-03	
13	1.2459564E-02	-1.1577821E-03	
14	1.2228501E-02	-1.1526636E-03	
15	1.1998578E-02	-1.1463596E-03	
16	1.1770048E-02	-1.1387016E-03	
17	1.1543199E-02	-1.1295106E-03	
18	1.1318179E-02	-1.1212919E-03	
19	1.1094452E-02	-1.1165393E-03	
20	1.0871346E-02	-1.1150411E-03	
21	1.0648233E-02	-1.1165742E-03	
22	1.0424530E-02	-1.1209048E-03	
23	1.0199701E-02	-1.1277878E-03	
24	9.9732628E-03	-1.1369668E-03	
25	9.7447801E-03	-1.1481752E-03	
26	9.5138759E-03	-1.1611354E-03	
27	9.2802284E-03	-1.1755588E-03	
28	9.0435748E-03	-1.1911456E-03	
29	8.8037145E-03	-1.2075851E-03	
30	8.5605066E-03	-1.2245556E-03	
31	8.3138791E-03	-1.2417242E-03	
32	8.0638266E-03	-1.2587473E-03	
33	7.8104135E-03	-1.2752706E-03	
34	7.5537760E-03	-1.2909286E-03	
35	7.2941261E-03	-1.3053448E-03	
36	7.0317480E-03	-1.3181318E-03	
37	6.7670086E-03	-1.3288911E-03	
38	6.5003541E-03	-1.3372131E-03	
39	6.2323139E-03	-1.3426772E-03	
40	5.9635038E-03	-1.3448521E-03	
41	5.6946231E-03	-1.3432955E-03	
42	5.4264646E-03	-1.3375541E-03	
43	5.1599114E-03	-1.3271638E-03	
44	4.8959407E-03	-1.3116492E-03	
45	4.6356271E-03	-1.2905242E-03	
46	4.3801027E-03	-1.2638446E-03	
47	4.1304189E-03	-1.2322207E-03	
48	3.8875028E-03	-1.1962713E-03	
49	3.6521573E-03	-1.1566184E-03	
50	3.4250623E-03	-1.1138792E-03	
51	3.2067722E-03	-1.0686585E-03	
52	2.9977289E-03	-1.0215505E-03	
53	2.7982434E-03	-9.7313391E-04	
54	2.6085246E-03	-9.2397790E-04	
55	2.4286644E-03	-8.7463930E-04	
56	2.2586458E-03	-8.2564645E-04	
57	2.0983512E-03	-7.7747318E-04	
58	1.9475744E-03	-7.3053207E-04	
59	1.8060326E-03	-6.8517817E-04	
60	1.6733772E-03	-6.4171268E-04	
61	1.5492049E-03	-6.0038645E-04	
62	1.4330664E-03	-5.6140355E-04	
63	1.3244765E-03	-5.2492454E-04	
64	1.2229217E-03	-4.9106920E-04	
65	1.1278685E-03	-4.5991938E-04	
66	1.0387705E-03	-4.3152158E-04	
67	9.5507547E-04	-4.0588932E-04	
68	8.7623154E-04	-3.8300533E-04	
69	8.0169320E-04	-3.6282348E-04	

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E2 CL GA 2701 002	Rev. A	Foglio 768 di 1221
24 D 5.729 -9.9733E-03 94.23 28.65 94.23 49.94 ACTIVE 0.000 -4.600 0.000 1.000 1.000					
28.65 0.000 0.000 Stratol_2_8_L_0					
25 D 5.962 -9.7448E-03 98.06 29.81 98.06 51.97 ACTIVE 0.000 -4.800 0.000 1.000 1.000					
29.81 0.000 0.000 Stratol_2_8_L_0					
26 D 6.195 -9.5139E-03 101.9 30.98 101.9 54.01 ACTIVE 0.000 -5.000 0.000 1.000 1.000					
30.98 0.000 0.000 Stratol_2_8_L_0					
27 D 6.428 -9.2802E-03 105.7 32.14 105.7 56.04 ACTIVE 0.000 -5.200 0.000 1.000 1.000					
32.14 0.000 0.000 Stratol_2_8_L_0					
28 D 6.661 -9.0436E-03 109.6 33.30 109.6 58.06 ACTIVE 0.000 -5.400 0.000 1.000 1.000					
33.30 0.000 0.000 Stratol_2_8_L_0					
29 D 6.894 -8.8037E-03 113.4 34.47 113.4 60.09 ACTIVE 0.000 -5.600 0.000 1.000 1.000					
34.47 0.000 0.000 Stratol_2_8_L_0					
30 D 7.126 -8.5605E-03 117.2 35.63 117.2 62.12 ACTIVE 0.000 -5.800 0.000 1.000 1.000					
35.63 0.000 0.000 Stratol_2_8_L_0					
31 D 7.347 -8.3139E-03 120.8 36.74 120.8 64.05 ACTIVE 0.000 -6.000 0.000 1.000 1.000					
36.74 0.000 0.000 Stratol_2_8_L_0					
32 D 7.580 -8.0638E-03 124.7 37.90 124.7 66.07 ACTIVE 0.000 -6.200 0.000 1.000 1.000					
37.90 0.000 0.000 Stratol_2_8_L_0					
33 D 7.812 -7.8104E-03 128.5 39.06 128.5 68.10 ACTIVE 0.000 -6.400 0.000 1.000 1.000					
39.06 0.000 0.000 Stratol_2_8_L_0					
34 D 8.045 -7.5538E-03 132.3 40.22 132.3 70.13 ACTIVE 0.000 -6.600 0.000 1.000 1.000					
40.22 0.000 0.000 Stratol_2_8_L_0					
35 D 8.277 -7.2941E-03 136.1 41.39 136.1 72.15 ACTIVE 0.000 -6.800 0.000 1.000 1.000					
41.39 0.000 0.000 Stratol_2_8_L_0					
36 D 8.510 -7.0317E-03 140.0 42.55 140.0 74.18 ACTIVE 0.000 -7.000 0.000 1.000 1.000					
42.55 0.000 0.000 Stratol_2_8_L_0					
37 D 8.742 -6.7670E-03 143.8 43.71 143.8 76.20 ACTIVE 0.000 -7.200 0.000 1.000 1.000					
43.71 0.000 0.000 Stratol_2_8_L_0					
38 D 8.974 -6.5004E-03 147.6 44.87 147.6 78.23 ACTIVE 0.000 -7.400 0.000 1.000 1.000					
44.87 0.000 0.000 Stratol_2_8_L_0					
39 D 9.197 -6.2323E-03 151.3 45.99 151.3 80.17 ACTIVE 0.000 -7.600 0.000 1.000 1.000					
45.99 0.000 0.000 Stratol_2_8_L_0					
40 D 9.430 -5.9635E-03 155.1 47.15 155.1 82.20 ACTIVE 0.000 -7.800 0.000 1.000 1.000					
47.15 0.000 0.000 Stratol_2_8_L_0					
41 D 9.662 -5.6946E-03 158.9 48.31 158.9 84.22 ACTIVE 0.000 -8.000 0.000 1.000 1.000					
48.31 0.000 0.000 Stratol_2_8_L_0					
42 D 9.894 -5.4265E-03 162.7 49.47 162.7 86.25 ACTIVE 0.000 -8.200 0.000 1.000 1.000					
49.47 0.000 0.000 Stratol_2_8_L_0					
43 D 10.13 -5.1599E-03 166.5 50.63 166.5 88.27 ACTIVE 0.000 -8.400 0.000 1.000 1.000					
50.63 0.000 0.000 Stratol_2_8_L_0					
44 D 10.36 -4.8959E-03 170.4 51.79 170.4 90.29 ACTIVE 0.000 -8.600 0.000 1.000 1.000					
51.79 0.000 0.000 Stratol_2_8_L_0					
45 D 4.313 -4.6356E-03 174.3 21.57 174.3 87.14 ACTIVE 0.000 -8.800 0.000 1.000 1.000					
21.57 0.000 0.000 Strato2_3095_82743_L_0					
46 D 4.496 -4.3801E-03 178.2 22.48 178.2 89.09 ACTIVE 0.000 -9.000 0.000 1.000 1.000					
22.48 0.000 0.000 Strato2_3095_82743_L_0					
47 D 4.685 -4.1304E-03 182.2 23.42 182.2 91.09 ACTIVE 0.000 -9.200 0.000 1.000 1.000					
23.42 0.000 0.000 Strato2_3095_82743_L_0					
48 D 4.874 -3.8875E-03 186.2 24.37 186.2 93.10 ACTIVE 0.000 -9.400 0.000 1.000 1.000					
24.37 0.000 0.000 Strato2_3095_82743_L_0					
49 D 5.062 -3.6522E-03 190.2 25.31 190.2 95.11 ACTIVE 0.000 -9.600 0.000 1.000 1.000					
25.31 0.000 0.000 Strato2_3095_82743_L_0					
50 D 5.251 -3.4251E-03 194.2 26.26 194.2 97.12 ACTIVE 0.000 -9.800 0.000 1.000 1.000					
26.26 0.000 0.000 Strato2_3095_82743_L_0					
51 D 5.440 -3.2068E-03 198.3 27.20 198.3 99.13 ACTIVE 0.000 -10.00 0.000 1.000 1.000					
27.20 0.000 0.000 Strato2_3095_82743_L_0					
52 D 5.628 -2.9977E-03 202.3 28.14 202.3 101.1 ACTIVE 0.000 -10.20 0.000 1.000 1.000					
28.14 0.000 0.000 Strato2_3095_82743_L_0					
53 D 5.817 -2.7982E-03 206.3 29.09 206.3 103.1 ACTIVE 0.000 -10.40 0.000 1.000 1.000					
29.09 0.000 0.000 Strato2_3095_82743_L_0					
54 D 6.001 -2.6085E-03 210.2 30.00 210.2 105.1 ACTIVE 0.000 -10.60 0.000 1.000 1.000					
30.00 0.000 0.000 Strato2_3095_82743_L_0					
55 D 6.937 -2.4287E-03 214.2 34.68 214.2 107.1 UL-RL 2.7014E+04 -10.80 0.000 1.000 1.000					
34.68 0.000 0.000 Strato2_3095_82743_L_0					
56 D 8.255 -2.2586E-03 218.2 41.28 218.2 109.1 UL-RL 2.7014E+04 -11.00 0.000 1.000 1.000					
41.28 0.000 0.000 Strato2_3095_82743_L_0					
57 D 9.516 -2.0984E-03 222.2 47.58 222.2 111.1 UL-RL 2.7014E+04 -11.20 0.000 1.000 1.000					
47.58 0.000 0.000 Strato2_3095_82743_L_0					
58 D 10.72 -1.9476E-03 226.2 53.61 226.2 113.1 UL-RL 2.7014E+04 -11.40 0.000 1.000 1.000					
53.61 0.000 0.000 Strato2_3095_82743_L_0					
59 D 11.87 -1.8060E-03 230.3 59.37 230.3 115.1 UL-RL 2.7014E+04 -11.60 0.000 1.000 1.000					
59.37 0.000 0.000 Strato2_3095_82743_L_0					
60 D 12.97 -1.6734E-03 234.3 64.87 234.3 117.1 UL-RL 2.7014E+04 -11.80 0.000 1.000 1.000					
64.87 0.000 0.000 Strato2_3095_82743_L_0					
61 D 14.02 -1.5492E-03 238.2 70.09 238.2 119.1 UL-RL 2.7014E+04 -12.00 0.000 1.000 1.000					
70.09 0.000 0.000 Strato2_3095_82743_L_0					
62 D 15.03 -1.4331E-03 242.2 75.13 242.2 121.1 UL-RL 2.7014E+04 -12.20 0.000 1.000 1.000					
75.13 0.000 0.000 Strato2_3095_82743_L_0					
63 D 15.99 -1.3245E-03 246.2 79.96 246.2 123.1 UL-RL 2.7014E+04 -12.40 0.000 1.000 1.000					
79.96 0.000 0.000 Strato2_3095_82743_L_0					
64 D 16.92 -1.2229E-03 250.2 84.59 250.2 125.1 UL-RL 2.7014E+04 -12.60 0.000 1.000 1.000					
84.59 0.000 0.000 Strato2_3095_82743_L_0					
65 D 17.81 -1.1279E-03 254.2 89.04 254.2 127.1 UL-RL 2.7014E+04 -12.80 0.000 1.000 1.000					
89.04 0.000 0.000 Strato2_3095_82743_L_0					
66 D 18.67 -1.0388E-03 258.2 93.33 258.2 129.1 UL-RL 2.7014E+04 -13.00 0.000 1.000 1.000					



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 769 di 1221
93.33	0.000	0.000	Strato2_3095_82743_L_0		
67 D	19.50	-9.5508E-04	262.3 97.48	262.3	131.1
97.48	0.000	0.000	Strato2_3095_82743_L_0		
68 D	20.30	-8.7623E-04	266.3 101.5	266.3	133.1
101.5	0.000	0.000	Strato2_3095_82743_L_0		
69 D	21.07	-8.0169E-04	270.2 105.3	270.2	135.1
105.3	0.000	0.000	Strato2_3095_82743_L_0		
70 D	21.83	-7.3093E-04	274.2 109.1	274.2	137.1
109.1	0.000	0.000	Strato2_3095_82743_L_0		
71 D	22.57	-6.6342E-04	278.2 112.8	278.2	139.1
112.8	0.000	0.000	Strato2_3095_82743_L_0		
72 D	23.30	-5.9867E-04	282.2 116.5	282.2	141.1
116.5	0.000	0.000	Strato2_3095_82743_L_0		
73 D	24.01	-5.3621E-04	286.2 120.1	286.2	143.1
120.1	0.000	0.000	Strato2_3095_82743_L_0		
74 D	24.72	-4.7562E-04	290.3 123.6	290.3	145.1
123.6	0.000	0.000	Strato2_3095_82743_L_0		
75 D	25.41	-4.1648E-04	294.3 127.1	294.3	147.1
127.1	0.000	0.000	Strato2_3095_82743_L_0		
76 D	26.10	-3.5844E-04	298.2 130.5	298.2	149.1
130.5	0.000	0.000	Strato2_3095_82743_L_0		
77 D	26.79	-3.0118E-04	302.2 133.9	302.2	151.1
133.9	0.000	0.000	Strato2_3095_82743_L_0		
78 D	27.47	-2.4444E-04	306.2 137.4	306.2	153.1
137.4	0.000	0.000	Strato2_3095_82743_L_0		
79 D	28.15	-1.8800E-04	310.2 140.8	310.2	155.1
140.8	0.000	0.000	Strato2_3095_82743_L_0		
80 D	28.84	-1.3171E-04	314.2 144.2	314.2	157.1
144.2	0.000	0.000	Strato2_3095_82743_L_0		
81 D	14.76	-7.5452E-05	318.2 147.6	318.2	159.1
147.6	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SLERara_3454                                                                                   |
|          Exe Time :29 July 2019  18:01:10                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
 CURRENT TIME IS 5.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
0.000	0.000	0.000	not available									
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 771 di 1221
57 D	17.58	2.0984E-03	50.00	87.90	215.3
87.90	0.000	0.000	Strato2_3095_82743_L_0		
58 D	17.61	1.9476E-03	54.00	88.07	219.3
88.07	0.000	0.000	Strato2_3095_82743_L_0		
59 D	17.67	1.8060E-03	58.00	88.34	223.3
88.34	0.000	0.000	Strato2_3095_82743_L_0		
60 D	17.75	1.6734E-03	62.00	88.73	227.3
88.73	0.000	0.000	Strato2_3095_82743_L_0		
61 D	17.84	1.5492E-03	66.00	89.22	231.3
89.22	0.000	0.000	Strato2_3095_82743_L_0		
62 D	17.96	1.4331E-03	70.00	89.81	235.3
89.81	0.000	0.000	Strato2_3095_82743_L_0		
63 D	18.10	1.3245E-03	74.00	90.50	239.3
90.50	0.000	0.000	Strato2_3095_82743_L_0		
64 D	18.26	1.2229E-03	78.00	91.28	243.3
91.28	0.000	0.000	Strato2_3095_82743_L_0		
65 D	18.43	1.1279E-03	82.00	92.14	247.3
92.14	0.000	0.000	Strato2_3095_82743_L_0		
66 D	18.62	1.0388E-03	86.00	93.08	251.3
93.08	0.000	0.000	Strato2_3095_82743_L_0		
67 D	18.82	9.5508E-04	90.00	94.09	255.3
94.09	0.000	0.000	Strato2_3095_82743_L_0		
68 D	19.03	8.7623E-04	94.00	95.16	259.3
95.16	0.000	0.000	Strato2_3095_82743_L_0		
69 D	19.26	8.0169E-04	98.00	96.28	263.3
96.28	0.000	0.000	Strato2_3095_82743_L_0		
70 D	19.49	7.3093E-04	102.0	97.45	267.3
97.45	0.000	0.000	Strato2_3095_82743_L_0		
71 D	19.73	6.6342E-04	106.0	98.65	271.3
98.65	0.000	0.000	Strato2_3095_82743_L_0		
72 D	19.98	5.9867E-04	110.0	99.89	275.3
99.89	0.000	0.000	Strato2_3095_82743_L_0		
73 D	20.23	5.3621E-04	114.0	101.2	279.3
101.2	0.000	0.000	Strato2_3095_82743_L_0		
74 D	20.49	4.7562E-04	118.0	102.4	283.3
102.4	0.000	0.000	Strato2_3095_82743_L_0		
75 D	20.75	4.1648E-04	122.0	103.7	287.3
103.7	0.000	0.000	Strato2_3095_82743_L_0		
76 D	21.01	3.5844E-04	126.0	105.0	291.3
105.0	0.000	0.000	Strato2_3095_82743_L_0		
77 D	21.27	3.0118E-04	130.0	106.3	295.3
106.3	0.000	0.000	Strato2_3095_82743_L_0		
78 D	21.53	2.4444E-04	134.0	107.7	299.3
107.7	0.000	0.000	Strato2_3095_82743_L_0		
79 D	21.79	1.8800E-04	138.0	109.0	303.3
109.0	0.000	0.000	Strato2_3095_82743_L_0		
80 D	22.05	1.3171E-04	142.0	110.3	307.3
110.3	0.000	0.000	Strato2_3095_82743_L_0		
81 D	11.16	7.5452E-05	146.0	111.6	311.3
111.6	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017*          |
|          |
|          |
|          NewProject.BaseDesignSection_28.SLERara_3454          |
|          Exe Time :29 July 2019   18:01:10          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
 CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.30400	-0.30400	-3.71619E-11	6.08000E-02
2	0.86087	-0.86087	-6.08000E-02	0.23297
3	1.7084	-1.7084	-0.23297	0.57465
4	2.8113	-2.8113	-0.57465	1.1369
5	4.1585	-4.1585	-1.1369	1.9686
6	5.7449	-5.7449	-1.9686	3.1176
7	7.5680	-7.5680	-3.1176	4.6312
8	9.6262	-9.6262	-4.6312	6.5564
9	11.878	-11.878	-6.5564	8.9320
10	14.367	-14.367	-8.9320	11.805
11	17.094	-17.094	-11.805	15.224
12	20.056	-20.056	-15.224	19.235

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 772 di 1221
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13	23.252	-23.252	-19.235	23.886
14	26.683	-26.683	-23.886	29.223
15	30.348	-30.348	-29.223	35.292
16	34.224	-34.224	-35.292	42.137
17	-75.175	75.175	-42.137	27.102
18	-70.830	70.830	-27.102	12.936
19	-66.252	66.252	-12.936	-0.31421
20	-61.440	61.440	0.31421	-12.602
21	-56.394	56.394	12.602	-23.881
22	-51.116	51.116	23.881	-34.104
23	-45.605	45.605	34.104	-43.225
24	-39.876	39.876	43.225	-51.200
25	-33.914	33.914	51.200	-57.983
26	-27.718	27.718	57.983	-63.527
27	-21.290	21.290	63.527	-67.785
28	-14.629	14.629	67.785	-70.711
29	-7.7355	7.7355	70.711	-72.258
30	-0.60936	0.60936	72.258	-72.379
31	6.7377	-6.7377	72.379	-71.032
32	14.317	-14.317	71.032	-68.168
33	22.130	-22.130	68.168	-63.742
34	30.175	-30.175	63.742	-57.708
35	38.452	-38.452	57.708	-50.017
36	46.962	-46.962	50.017	-40.625
37	55.704	-55.704	40.625	-29.484
38	64.678	-64.678	29.484	-16.548
39	73.875	-73.875	16.548	-1.7735
40	83.305	-83.305	1.7735	14.887
41	92.966	-92.966	-14.887	33.481
42	102.86	-102.86	-33.481	54.053
43	112.99	-112.99	-54.053	76.650
44	123.34	-123.34	-76.650	101.32
45	110.62	-110.62	-101.32	123.44
46	97.648	-97.648	-123.44	142.97
47	84.552	-84.552	-142.97	159.88
48	71.446	-71.446	-159.88	174.17
49	58.569	-58.569	-174.17	185.89
50	45.947	-45.947	-185.89	195.08
51	33.590	-33.590	-195.08	201.79
52	21.494	-21.494	-201.79	206.09
53	9.6510	-9.6510	-206.09	208.02
54	-1.9600	1.9600	-208.02	207.63
55	-12.604	12.604	-207.63	205.11
56	-21.919	21.919	-205.11	200.73
57	-29.983	29.983	-200.73	194.73
58	-36.875	36.875	-194.73	187.35
59	-42.670	42.670	-187.35	178.82
60	-47.441	47.441	-178.82	169.33
61	-51.267	51.267	-169.33	159.08
62	-54.203	54.203	-159.08	148.24
63	-56.312	56.312	-148.24	136.98
64	-57.651	57.651	-136.98	125.45
65	-58.271	58.271	-125.45	113.79
66	-58.221	58.221	-113.79	102.15
67	-57.543	57.543	-102.15	90.639
68	-56.277	56.277	-90.639	79.383
69	-54.465	54.465	-79.383	68.490
70	-52.126	52.126	-68.490	58.065
71	-49.288	49.288	-58.065	48.208
72	-45.970	45.970	-48.208	39.014
73	-42.189	42.189	-39.014	30.576
74	-37.960	37.960	-30.576	22.984
75	-33.293	33.293	-22.984	16.325
76	-28.203	28.203	-16.325	10.685
77	-22.687	22.687	-10.685	6.1473
78	-16.747	16.747	-6.1473	2.7979
79	-10.386	10.386	-2.7979	0.72064
80	-3.6030	3.6030	-0.72064	-1.21950E-12

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.SLERara_3454                       |
|                               Exe Time :29 July 2019  18:01:10                               |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
773 di 1221

CURRENT TIME IS 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	117.51	-7.17174E-04	8.23471E-03	0.0000	2633.3	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                    |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:01:10  |
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FINAL INCREMENTAL ANALYSIS

SUMMARY

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	2
2	CONVERGENCE :YES	4
3	CONVERGENCE :YES	5
4	CONVERGENCE :YES	4
5	CONVERGENCE :YES	6

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME 0.06 [sec]

DATABASE CREATION CPU TIME..... 0.27 [sec]

3.5. Design Assumption : A1+M1+R1 - File di Paratie - File di input (.d)

* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: A1+M1+R1

* Time:lunedì 29 luglio 2019 18:01:11

* 1: Defining general settings

UNIT m kN

TITLE New Project

DELTA 0.2

option param itemax 100

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)

WALL LeftWall_32 0 -16 0 1

* 3: Defining surfaces for wall(s)

SOIL 0_L LeftWall_32 -16 0 1 0

SOIL 0_R LeftWall_32 -16 0 2 180

* 4: Defining soil layers

*

* Soil Profile (Strato1_2_8_L_0)

*

LDATA Strato1_2_8_L_0 0 LeftWall_32

ATREST 0.53 1 1

WEIGHT 19 9 10

PERMEABILITY 1E-06

RESISTANCE 0 29

YOUNG 2E+04 6E+04

ENDL

*

* Soil Profile (Strato2_3095_82743_L_0)

*

LDATA Strato2_3095_82743_L_0 -8.7 LeftWall_32

ATREST 0.5 0.5 1

WEIGHT 20 10 10

PERMEABILITY 0.0001

RESISTANCE 20 35

YOUNG 5E+04 1.5E+05

ENDL

* 5: Defining structural materials

* Steel material: 108 Name=Fe360 E=206000200 kPa

MATERIAL Fe360_108 2.06E+08

* Concrete material: 104 Name=C25/30 E=31475800 kPa

MATERIAL C2530_104 3.148E+07

* Rebar material: 124 Name=acciaio armonico E=200100000 kPa

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 774 di 1221
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MATERIAL acciaioarmonico_124 2.001E+08
* Concrete material: 103 Name=C20/25 E=29962000 kPa
MATERIAL C2025_103 2.996E+07

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
BEAM WallElement_33 LeftWall_32 -16 0 C2530_104 0.6848 00 00 0

* 6.2: Supports
WIRE Tirantel_429 LeftWall_32 -3.2 acciaioarmonico_124 1.316E-05 93.94 15 0 0

* 6.3: Strips
STRIP LeftWall_32 2 5 0 40 0 11.54 30

* 7: Defining Steps
STEP Stage1_31
CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32
CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32
CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32
CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32
CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-COHE=20 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -26 0 -16 0 0
ADD WallElement_33
ENDSTEP

STEP Stage2_755438
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -26 0 -16 0 0
ENDSTEP

STEP Stage3_158
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -3.7
WATER -26 0 -16 0 0
ENDSTEP

STEP Stage4_617
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -3.7
WATER -26 0 -16 0 0
ADD Tirantel_429
ENDSTEP

STEP Stage5_714
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -8.7
WATER -26 0 -16 0 0
ENDSTEP

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
775 di 1221

3.6. Design Assumption : A1+M1+R1 - File di Paratie - File di output (.out)

```

-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1M1R1_3484
|          Exe Time :29 July 2019      18:01:11
|
-----

```

```

*****
*
* PARATIE PLUS Non-Linear Spring Engine
*
* AN ELASTOPLASTIC FINITE ELEMENT PROGRAM
* FOR FLEXIBLE EARTH-RETAINING STRUCTURES
*
* Written by Ce.A.S. s.r.l. (ITALY)
* with the scientific supervision of
* Roberto Nova - full professor SOIL MECHANICS
* at Politecnico di Milano (ITALY)
*
*****
*
* RELEASE  2017.1      *Build date:Jul 11, 2017*
*
*
* Ce.A.S.    S.R.L  CENTRO DI ANALISI STRUTTURALE
* VIALE GIUSTINIANO 10
* 20129  M I L A N O  (ITALIA)
* TEL.    +39 02 2020221  (+39 035 23 67 19)
* FAX    +39 02 29512533  (+39 035 42285 49)
* email  bruno.becci@ceas.it
* Web Page www.ceas.it
*****

```

```

JOB : NewProject.BaseDesignSection_28.A1M1R1_3484
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL STRESS >
ACCEPTED <PARAM ITEMAX 100 >
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  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1M1R1_3484
|          Exe Time :29 July 2019      18:01:11
|
-----

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 81
NO. OF COORDINATES (NCOORD) ..... 2
NO. OF NODE DOFS (NDOF) ..... 2
NO. OF EQUATIONS (NEQ) ..... 162
NO. OF CONSTRAINTS CARDS (NVINC) ..... 0
NO. OF ELEMENT GROUPS (NEG) ..... 4
NO. OF SOLUTION STEPS (NSTE) ..... 5
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0

```


GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
776 di 1221

NO. OF RECORD FROM WALGEN 88
 NO. OF LONG NAMES (LASTNAME) 21
 LENGTH UNIT CHOICE 3 (M)
 FORCE UNIT CHOICE 3 (KN)
 MAX PORE PRESSURE TABLE LENGTH..... 1
 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  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.AIMIR1_3484
|          Exe Time :29 July 2019      18:01:11
|
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```

PREPROCESSOR DATA

NO. OF COMMANDS 88

```

1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 100
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -16 0 1
7 : SOIL 0_L LeftWall_32 -16 0 1 0
8 : SOIL 0_R LeftWall_32 -16 0 2 180
9 : LDATA Strato1_2_8_L_0 0 LeftWall_32
10 : ATREST 0.53 1 1
11 : WEIGHT 19 9 10
12 : PERMEABILITY 1E-06
13 : RESISTANCE 0 29
14 : YOUNG 2E+04 6E+04
15 : ENDL
16 : LDATA Strato2_3095_82743_L_0 -8.7 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 20 10 10
19 : PERMEABILITY 0.0001
20 : RESISTANCE 20 35
21 : YOUNG 5E+04 1.5E+05
22 : ENDL
23 : MATERIAL Fe360_108 2.06E+08
24 : MATERIAL C2530_104 3.148E+07
25 : MATERIAL acciaioarmonico_124 2.001E+08
26 : MATERIAL C2025_103 2.996E+07
27 : BEAM WallElement_33 LeftWall_32 -16 0 C2530_104 0.6848 00 00 0
28 : WIRE Tirante1_429 LeftWall_32 -3.2 acciaioarmonico_124 1.316E-05 93.94 15 0 0
29 : STRIP LeftWall_32 2 5 0 40 0 11.54 30
30 : STEP Stage1_31
31 : CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32
32 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
33 : CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32
34 : CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32
35 : CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32
36 : CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32
37 : CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32
38 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
39 : CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32
40 : CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32
41 : CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32
42 : CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32
43 : CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
44 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
45 : CHANGE Strato2_3095_82743_L_0 U-COHE=20 LeftWall_32
46 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
47 : SETWALL LeftWall_32

```



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 777 di 1221
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```

48 : GEOM 0 0
49 : WATER -26 0 -16 0 0
50 : ADD WallElement_33
51 : ENDSTEP
52 : STEP Stage2_755438
53 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
54 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
55 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
56 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
57 : SETWALL LeftWall_32
58 : GEOM 0 0
59 : WATER -26 0 -16 0 0
60 : ENDSTEP
61 : STEP Stage3_158
62 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
63 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
64 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
65 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
66 : SETWALL LeftWall_32
67 : GEOM 0 -3.7
68 : WATER -26 0 -16 0 0
69 : ENDSTEP
70 : STEP Stage4_617
71 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
72 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
73 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
74 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
75 : SETWALL LeftWall_32
76 : GEOM 0 -3.7
77 : WATER -26 0 -16 0 0
78 : ADD Tirantel_429
79 : ENDSTEP
80 : STEP Stage5_714
81 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
82 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
83 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
84 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
85 : SETWALL LeftWall_32
86 : GEOM 0 -8.7
87 : WATER -26 0 -16 0 0
88 : ENDSTEP
    
```

```

-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1MIR1_3484
|          Exe Time :29 July 2019  18:01:11
|
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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 /	NODE			
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	/												

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1MIR1_3484
|          Exe Time :29 July 2019  18:01:11
|
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
778 di 1221

ELEMENT GROUP NO. 1

0_L :
5 81 0 1 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0

.....2D PLASTIC SOIL

element group behaviour throughout stage analysis

stage status

1 active
2 active
3 active
4 active
5 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

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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	0.2000	0.000	0.000	0.000	1.000
28	28	1	0.2000	0.000	0.000	0.000	1.000
29	29	1	0.2000	0.000	0.000	0.000	1.000
30	30	1	0.2000	0.000	0.000	0.000	1.000
31	31	1	0.2000	0.000	0.000	0.000	1.000
32	32	1	0.2000	0.000	0.000	0.000	1.000
33	33	1	0.2000	0.000	0.000	0.000	1.000
34	34	1	0.2000	0.000	0.000	0.000	1.000
35	35	1	0.2000	0.000	0.000	0.000	1.000
36	36	1	0.2000	0.000	0.000	0.000	1.000
37	37	1	0.2000	0.000	0.000	0.000	1.000
38	38	1	0.2000	0.000	0.000	0.000	1.000
39	39	1	0.2000	0.000	0.000	0.000	1.000
40	40	1	0.2000	0.000	0.000	0.000	1.000
41	41	1	0.2000	0.000	0.000	0.000	1.000
42	42	1	0.2000	0.000	0.000	0.000	1.000
43	43	1	0.2000	0.000	0.000	0.000	1.000
44	44	1	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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 779 di 1221
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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	2	0.2000	0.000	0.000	0.000	1.000
63	63	2	0.2000	0.000	0.000	0.000	1.000
64	64	2	0.2000	0.000	0.000	0.000	1.000
65	65	2	0.2000	0.000	0.000	0.000	1.000
66	66	2	0.2000	0.000	0.000	0.000	1.000
67	67	2	0.2000	0.000	0.000	0.000	1.000
68	68	2	0.2000	0.000	0.000	0.000	1.000
69	69	2	0.2000	0.000	0.000	0.000	1.000
70	70	2	0.2000	0.000	0.000	0.000	1.000
71	71	2	0.2000	0.000	0.000	0.000	1.000
72	72	2	0.2000	0.000	0.000	0.000	1.000
73	73	2	0.2000	0.000	0.000	0.000	1.000
74	74	2	0.2000	0.000	0.000	0.000	1.000
75	75	2	0.2000	0.000	0.000	0.000	1.000
76	76	2	0.2000	0.000	0.000	0.000	1.000
77	77	2	0.2000	0.000	0.000	0.000	1.000
78	78	2	0.2000	0.000	0.000	0.000	1.000
79	79	2	0.2000	0.000	0.000	0.000	1.000
80	80	2	0.2000	0.000	0.000	0.000	1.000
81	81	2	0.1000	0.000	0.000	0.000	1.000

```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  18:01:11  |
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```

```

ELEMENT GROUP NO.  2

0_R
 5 81  0  1  0  0  0  0  0  0  0  0  0  0  0  0  2  0  0  0  0
.....
.....2D PLASTIC SOIL .....
.....

```

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	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

```

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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 780 di 1221
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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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000
24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	0.2000	0.000	0.000	0.000	2.000
28	28	1	0.2000	0.000	0.000	0.000	2.000
29	29	1	0.2000	0.000	0.000	0.000	2.000
30	30	1	0.2000	0.000	0.000	0.000	2.000
31	31	1	0.2000	0.000	0.000	0.000	2.000
32	32	1	0.2000	0.000	0.000	0.000	2.000
33	33	1	0.2000	0.000	0.000	0.000	2.000
34	34	1	0.2000	0.000	0.000	0.000	2.000
35	35	1	0.2000	0.000	0.000	0.000	2.000
36	36	1	0.2000	0.000	0.000	0.000	2.000
37	37	1	0.2000	0.000	0.000	0.000	2.000
38	38	1	0.2000	0.000	0.000	0.000	2.000
39	39	1	0.2000	0.000	0.000	0.000	2.000
40	40	1	0.2000	0.000	0.000	0.000	2.000
41	41	1	0.2000	0.000	0.000	0.000	2.000
42	42	1	0.2000	0.000	0.000	0.000	2.000
43	43	1	0.2000	0.000	0.000	0.000	2.000
44	44	1	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	2	0.2000	0.000	0.000	0.000	2.000
63	63	2	0.2000	0.000	0.000	0.000	2.000
64	64	2	0.2000	0.000	0.000	0.000	2.000
65	65	2	0.2000	0.000	0.000	0.000	2.000
66	66	2	0.2000	0.000	0.000	0.000	2.000
67	67	2	0.2000	0.000	0.000	0.000	2.000
68	68	2	0.2000	0.000	0.000	0.000	2.000
69	69	2	0.2000	0.000	0.000	0.000	2.000
70	70	2	0.2000	0.000	0.000	0.000	2.000
71	71	2	0.2000	0.000	0.000	0.000	2.000
72	72	2	0.2000	0.000	0.000	0.000	2.000
73	73	2	0.2000	0.000	0.000	0.000	2.000
74	74	2	0.2000	0.000	0.000	0.000	2.000
75	75	2	0.2000	0.000	0.000	0.000	2.000
76	76	2	0.2000	0.000	0.000	0.000	2.000
77	77	2	0.2000	0.000	0.000	0.000	2.000
78	78	2	0.2000	0.000	0.000	0.000	2.000
79	79	2	0.2000	0.000	0.000	0.000	2.000
80	80	2	0.2000	0.000	0.000	0.000	2.000
81	81	2	0.1000	0.000	0.000	0.000	2.000

```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.AlM1R1_3484          |
|          Exe Time :29 July 2019          18:01:11          |
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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 781 di 1221
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WallElement_33 :
2 80 0 1 0 0 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
- 4 active
- 5 active

material set no. 1

- prop(1) young modulus 0.314800E+08
- prop(2) modification time 0.00000
- prop(3) new young modulus 0.00000
- prop(4) poisson ratio 0.00000
- prop(5) future0.252200E-43

no. of step variable items: 1

step inertia multiplier

- 1 1.000
- 2 1.000
- 3 1.000
- 4 1.000
- 5 1.000

element data

el	na	nb	mat	erc1	erc2	thick	by-i	by-j
1	1	2	1	0.000	0.000	0.6848	0.000	0.000
2	2	3	1	0.000	0.000	0.6848	0.000	0.000
3	3	4	1	0.000	0.000	0.6848	0.000	0.000
4	4	5	1	0.000	0.000	0.6848	0.000	0.000
5	5	6	1	0.000	0.000	0.6848	0.000	0.000
6	6	7	1	0.000	0.000	0.6848	0.000	0.000
7	7	8	1	0.000	0.000	0.6848	0.000	0.000
8	8	9	1	0.000	0.000	0.6848	0.000	0.000
9	9	10	1	0.000	0.000	0.6848	0.000	0.000
10	10	11	1	0.000	0.000	0.6848	0.000	0.000
11	11	12	1	0.000	0.000	0.6848	0.000	0.000
12	12	13	1	0.000	0.000	0.6848	0.000	0.000
13	13	14	1	0.000	0.000	0.6848	0.000	0.000
14	14	15	1	0.000	0.000	0.6848	0.000	0.000
15	15	16	1	0.000	0.000	0.6848	0.000	0.000
16	16	17	1	0.000	0.000	0.6848	0.000	0.000
17	17	18	1	0.000	0.000	0.6848	0.000	0.000
18	18	19	1	0.000	0.000	0.6848	0.000	0.000
19	19	20	1	0.000	0.000	0.6848	0.000	0.000
20	20	21	1	0.000	0.000	0.6848	0.000	0.000
21	21	22	1	0.000	0.000	0.6848	0.000	0.000
22	22	23	1	0.000	0.000	0.6848	0.000	0.000
23	23	24	1	0.000	0.000	0.6848	0.000	0.000
24	24	25	1	0.000	0.000	0.6848	0.000	0.000
25	25	26	1	0.000	0.000	0.6848	0.000	0.000
26	26	27	1	0.000	0.000	0.6848	0.000	0.000
27	27	28	1	0.000	0.000	0.6848	0.000	0.000
28	28	29	1	0.000	0.000	0.6848	0.000	0.000
29	29	30	1	0.000	0.000	0.6848	0.000	0.000
30	30	31	1	0.000	0.000	0.6848	0.000	0.000
31	31	32	1	0.000	0.000	0.6848	0.000	0.000
32	32	33	1	0.000	0.000	0.6848	0.000	0.000
33	33	34	1	0.000	0.000	0.6848	0.000	0.000
34	34	35	1	0.000	0.000	0.6848	0.000	0.000
35	35	36	1	0.000	0.000	0.6848	0.000	0.000
36	36	37	1	0.000	0.000	0.6848	0.000	0.000
37	37	38	1	0.000	0.000	0.6848	0.000	0.000
38	38	39	1	0.000	0.000	0.6848	0.000	0.000
39	39	40	1	0.000	0.000	0.6848	0.000	0.000
40	40	41	1	0.000	0.000	0.6848	0.000	0.000
41	41	42	1	0.000	0.000	0.6848	0.000	0.000
42	42	43	1	0.000	0.000	0.6848	0.000	0.000
43	43	44	1	0.000	0.000	0.6848	0.000	0.000
44	44	45	1	0.000	0.000	0.6848	0.000	0.000
45	45	46	1	0.000	0.000	0.6848	0.000	0.000
46	46	47	1	0.000	0.000	0.6848	0.000	0.000
47	47	48	1	0.000	0.000	0.6848	0.000	0.000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 782 di 1221
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48	48	49	1	0.000	0.000	0.6848	0.000	0.000
49	49	50	1	0.000	0.000	0.6848	0.000	0.000
50	50	51	1	0.000	0.000	0.6848	0.000	0.000
51	51	52	1	0.000	0.000	0.6848	0.000	0.000
52	52	53	1	0.000	0.000	0.6848	0.000	0.000
53	53	54	1	0.000	0.000	0.6848	0.000	0.000
54	54	55	1	0.000	0.000	0.6848	0.000	0.000
55	55	56	1	0.000	0.000	0.6848	0.000	0.000
56	56	57	1	0.000	0.000	0.6848	0.000	0.000
57	57	58	1	0.000	0.000	0.6848	0.000	0.000
58	58	59	1	0.000	0.000	0.6848	0.000	0.000
59	59	60	1	0.000	0.000	0.6848	0.000	0.000
60	60	61	1	0.000	0.000	0.6848	0.000	0.000
61	61	62	1	0.000	0.000	0.6848	0.000	0.000
62	62	63	1	0.000	0.000	0.6848	0.000	0.000
63	63	64	1	0.000	0.000	0.6848	0.000	0.000
64	64	65	1	0.000	0.000	0.6848	0.000	0.000
65	65	66	1	0.000	0.000	0.6848	0.000	0.000
66	66	67	1	0.000	0.000	0.6848	0.000	0.000
67	67	68	1	0.000	0.000	0.6848	0.000	0.000
68	68	69	1	0.000	0.000	0.6848	0.000	0.000
69	69	70	1	0.000	0.000	0.6848	0.000	0.000
70	70	71	1	0.000	0.000	0.6848	0.000	0.000
71	71	72	1	0.000	0.000	0.6848	0.000	0.000
72	72	73	1	0.000	0.000	0.6848	0.000	0.000
73	73	74	1	0.000	0.000	0.6848	0.000	0.000
74	74	75	1	0.000	0.000	0.6848	0.000	0.000
75	75	76	1	0.000	0.000	0.6848	0.000	0.000
76	76	77	1	0.000	0.000	0.6848	0.000	0.000
77	77	78	1	0.000	0.000	0.6848	0.000	0.000
78	78	79	1	0.000	0.000	0.6848	0.000	0.000
79	79	80	1	0.000	0.000	0.6848	0.000	0.000
80	80	81	1	0.000	0.000	0.6848	0.000	0.000

```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      18:01:11        |
|                                                                                               |
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```

```

ELEMENT GROUP NO.  4

Tirantel_429      :
 6  1  0  1  0  0  0  0  0  0  0  0  0  0  1  0  0  2  0
.....
.....2D POST-TENSION ANCHOR.....
.....

```

```

element group behaviour throughout stage analysis

stage  status
-----
 1  inactive
 2  inactive
 3  inactive
 4  active
 5  active

```

```

material set no.  1

prop( 1) angle      15.0000
prop( 2) young modulus 0.200100E+09
prop( 3) modification time  0.00000
prop( 4) new young modulus  0.00000

```

```

no. of step variable items:  2
step  -ve lim  +ve lim
-----
 1  0.000  0.000
 2  0.000  0.000
 3  0.000  0.000
 4  0.000  0.000
 5  0.000  0.000

```

```

element data

el  n  mat      a/l    pinit  yieldc  yieldt
-----
 1  17  1  0.1316E-04  93.94  0.000  0.000

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 783 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                    |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      18:01:11  |
|                                                                    |
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```

```

NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 10
MAXIMUM POINTS/LCURVE (NPTM) ..... 5

```

```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                    |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      18:01:11  |
|                                                                    |
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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
6.00000	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
6.00000	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
6.00000	0.0000E+00

```

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

```

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
4.20000	0.0000E+00
6.00000	0.0000E+00

```

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 5

```

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 784 di 1221
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5.00000 0.1000E+01
5.20000 0.0000E+00
6.00000 0.0000E+00

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
6.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|          NewProject.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          18:01:11          |
+-----+
  
```

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



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 785 di 1221
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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
STEP	4	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	4	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

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+-----+
|           PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|           NewProject.BaseDesignSection_28.A1M1R1_3484
|           Exe Time :29 July 2019      18:01:11
+-----+
    
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NO. OF LAYERS 2
 NO. OF DATA PER LAYER..... 100

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+-----+
|           PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|           NewProject.BaseDesignSection_28.A1M1R1_3484
|           Exe Time :29 July 2019      18:01:11
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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	>= 14.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(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.	9<U-FRICT	>= 29.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.30400	WALL NO.	1
ITEM NO.	11<U-KP	>= 4.0410	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.53000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 1.0000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 20000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 60000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-05	(BOTH WALLS)	
ITEM NO.	52<D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 29.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.30400	WALL NO.	1
ITEM NO.	61<D-KP	>= 4.0410	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-05	(BOTH WALLS)	

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

ITEM NO.	1<NAME	>= 15.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -8.7000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 20.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 20.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.23500	WALL NO.	1
ITEM NO.	11<U-KP	>= 5.8790	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)	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 786 di 1221
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ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

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

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -8.7000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 787 di 1221
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ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -8.7000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -8.7000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 788 di 1221
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ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 5

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 5

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -8.7000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 10 VALUES

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.AlM1r1_3484                       |
|                               Exe Time :29 July 2019      18:01:11                             |
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PHASE DESCRIPTORS

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 789 di 1221
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STEP NO.      1

                LEFT WALL  RIGHT WALL
Y              0.000      -0.9990E+30
Z-PC           0.000           0.000
Z-EXCAVATION   0.000           0.000
Z-WATER_TABLE -26.00      -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL 0.000           0.000
ZQ             0.000           0.000
DZW_OF_THE_WATER_TABLE 0.000           0.000
QS_ON_THE_EXCAVATION_SIDE 0.000           0.000
ZQS           -0.9990E+30 -0.9990E+30
ZCUT           0.000           0.000
BALANCE LEVEL FOR PORE PRESSURES -16.00      -16.00
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

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STEP NO.      2

                LEFT WALL  RIGHT WALL
Y              0.000      -0.9990E+30
Z-PC           0.000           0.000
Z-EXCAVATION   0.000           0.000
Z-WATER_TABLE -26.00      -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL 0.000           0.000
ZQ             0.000           0.000
DZW_OF_THE_WATER_TABLE 0.000           0.000
QS_ON_THE_EXCAVATION_SIDE 0.000           0.000
ZQS           -0.9990E+30 -0.9990E+30
ZCUT           0.000           0.000
BALANCE LEVEL FOR PORE PRESSURES -16.00      -16.00
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

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STEP NO.      3

                LEFT WALL  RIGHT WALL
Y              0.000      -0.9990E+30
Z-PC           0.000           0.000
Z-EXCAVATION   -3.700           0.000
Z-WATER_TABLE -26.00      -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL 0.000           0.000
    
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 790 di 1221
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ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-16.00	-16.00
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

STEP NO. 4

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-3.700	0.000
Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-16.00	-16.00
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 4

STEP NO. 5

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-8.700	0.000
Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-16.00	-16.00
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



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 791 di 1221
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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 5

LEFT-HAND WALL

LOWER LEVEL -16.00000
UPPER LEVEL 0.00000

RIGHT-HAND WALL

LOWER LEVEL -16.00000
UPPER LEVEL 0.00000

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1MIR1_3484                       |
|                               Exe Time :29 July 2019  18:01:11                               |
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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 2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 5.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 0.000000000000000E+000
FOUNDATION WIDTH (B) 40.000000000000000
ZETA-F..... 0.000000000000000E+000
Q-F 11.540000000000000
BETA 30.000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION 3781

NO. OF D.P.W FOR THIS AREA 9608
MAX NO. OF D.P.W. AVAILABLE 81920
** MAX NO OF ITERATIONS SET TO 100

```

ITER  0 RNORM = 0.000  RMNORM= 0.000
      RINORM=0.5117E+05 RIMNOR= 0.000
      RENORM= 0.000  REMNOR= 0.000  RATIO = 0.000  TOLER =0.1000E-03  CONVERGED !
      RFMAX = 30.73  RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =0.5117E+05 RDR = 0.000
      RATIOT= 0.000  RATIOR= 0.000
      MAX UN= 0.000  IEQ= 162 NODE  81 DOF  2  X-ROT. F
      MIN UN= 0.000  IEQ= 1 NODE  1 DOF  1  Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 792 di 1221
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ITER 1 RNORM = 0.000      RMNORM= 0.000
      RINORM=0.5117E+05  RIMNOR= 0.000
      RENORM= 0.000      REMNOR= 0.000      RATIO = 0.000      TOLER =0.1000E-03      CONVERGED !
      RFMAX = 30.73      RMMAX = 0.000
      RTSMAL=0.1000E-03  RMSMAL= 0.000
      RDT =0.5117E+05   RDR = 0.000
      RATIOI= 0.000     RATIOR= 0.000
      MAX UN= 0.000     IEQ= 162 NODE      81 DOF  2  X-ROT. F
      MIN UN= 0.000     IEQ= 1 NODE        1 DOF  1  Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS      0
    
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ITER 2 RNORM = 0.000      RMNORM= 0.000
      RINORM=0.5117E+05  RIMNOR= 0.000
      RENORM= 0.000      REMNOR= 0.000      RATIO = 0.000      TOLER =0.1000E-03      CONVERGED !
      RFMAX = 30.73      RMMAX = 0.000
      RTSMAL=0.1000E-03  RMSMAL= 0.000
      RDT =0.5117E+05   RDR = 0.000
      RATIOI= 0.000     RATIOR= 0.000
      MAX UN= 0.000     IEQ= 162 NODE      81 DOF  2  X-ROT. F
      MIN UN= 0.000     IEQ= 1 NODE        1 DOF  1  Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS      0
    
```

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1MIR1_3484 |
|          Exe Time :29 July 2019      18:01:11      |
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New Project
SOLUTION REACHED USING      2 ITERATIONS ON 100

P R I N T   O U T   F O R   T I M E   S T E P   1   (   A T   T I M E   1.000   )

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

      Y-DISPL.F      X-ROT. F
      (02)           (04)           (
    
```

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1MIR1_3484 |
|          Exe Time :29 July 2019      18:01:11      |
+-----+
    
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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

O_L      :
ELEMENT TYPE      5 NO.OF ELEMENTS. IN THIS GROUP      81
C U R R E N T   T I M E   I S      1.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peg	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	1.5916E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_2_8_L_0									
2 D	0.4028	0.000	3.800	2.014	3.800	2.014	V-C	1.5916E+04	-0.2000	0.000	1.000	1.000
2.014	0.000	0.000	Strato1_2_8_L_0									
3 D	0.8056	0.000	7.600	4.028	7.600	4.028	V-C	1.5916E+04	-0.4000	0.000	1.000	1.000
4.028	0.000	0.000	Strato1_2_8_L_0									
4 D	1.208	0.000	11.40	6.042	11.40	6.042	V-C	1.5916E+04	-0.6000	0.000	1.000	1.000
6.042	0.000	0.000	Strato1_2_8_L_0									
5 D	1.611	0.000	15.20	8.056	15.20	8.056	V-C	1.5916E+04	-0.8000	0.000	1.000	1.000
8.056	0.000	0.000	Strato1_2_8_L_0									
6 D	2.014	0.000	19.00	10.07	19.00	10.07	V-C	1.5916E+04	-1.000	0.000	1.000	1.000

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 793 di 1221
10.07	0.000	0.000	Strato1_2_8_L_0		
7 D	2.417	0.000	22.80 12.08	22.80	12.08
12.08	0.000	0.000	Strato1_2_8_L_0		
8 D	2.820	0.000	26.60 14.10	26.60	14.10
14.10	0.000	0.000	Strato1_2_8_L_0		
9 D	3.222	0.000	30.40 16.11	30.40	16.11
16.11	0.000	0.000	Strato1_2_8_L_0		
10 D	3.625	0.000	34.20 18.13	34.20	18.13
18.13	0.000	0.000	Strato1_2_8_L_0		
11 D	4.028	0.000	38.00 20.14	38.00	20.14
20.14	0.000	0.000	Strato1_2_8_L_0		
12 D	4.431	0.000	41.80 22.15	41.80	22.15
22.15	0.000	0.000	Strato1_2_8_L_0		
13 D	4.834	0.000	45.60 24.17	45.60	24.17
24.17	0.000	0.000	Strato1_2_8_L_0		
14 D	5.236	0.000	49.40 26.18	49.40	26.18
26.18	0.000	0.000	Strato1_2_8_L_0		
15 D	5.639	0.000	53.20 28.20	53.20	28.20
28.20	0.000	0.000	Strato1_2_8_L_0		
16 D	6.042	0.000	57.00 30.21	57.00	30.21
30.21	0.000	0.000	Strato1_2_8_L_0		
17 D	6.445	0.000	60.80 32.22	60.80	32.22
32.22	0.000	0.000	Strato1_2_8_L_0		
18 D	6.848	0.000	64.60 34.24	64.60	34.24
34.24	0.000	0.000	Strato1_2_8_L_0		
19 D	7.250	0.000	68.40 36.25	68.40	36.25
36.25	0.000	0.000	Strato1_2_8_L_0		
20 D	7.653	0.000	72.20 38.27	72.20	38.27
38.27	0.000	0.000	Strato1_2_8_L_0		
21 D	8.056	0.000	76.00 40.28	76.00	40.28
40.28	0.000	0.000	Strato1_2_8_L_0		
22 D	8.459	0.000	79.80 42.29	79.80	42.29
42.29	0.000	0.000	Strato1_2_8_L_0		
23 D	8.862	0.000	83.60 44.31	83.60	44.31
44.31	0.000	0.000	Strato1_2_8_L_0		
24 D	9.264	0.000	87.40 46.32	87.40	46.32
46.32	0.000	0.000	Strato1_2_8_L_0		
25 D	9.667	0.000	91.20 48.34	91.20	48.34
48.34	0.000	0.000	Strato1_2_8_L_0		
26 D	10.07	0.000	95.00 50.35	95.00	50.35
50.35	0.000	0.000	Strato1_2_8_L_0		
27 D	10.47	0.000	98.80 52.36	98.80	52.36
52.36	0.000	0.000	Strato1_2_8_L_0		
28 D	10.88	0.000	102.6 54.38	102.6	54.38
54.38	0.000	0.000	Strato1_2_8_L_0		
29 D	11.28	0.000	106.4 56.39	106.4	56.39
56.39	0.000	0.000	Strato1_2_8_L_0		
30 D	11.68	0.000	110.2 58.41	110.2	58.41
58.41	0.000	0.000	Strato1_2_8_L_0		
31 D	12.08	0.000	114.0 60.42	114.0	60.42
60.42	0.000	0.000	Strato1_2_8_L_0		
32 D	12.49	0.000	117.8 62.43	117.8	62.43
62.43	0.000	0.000	Strato1_2_8_L_0		
33 D	12.89	0.000	121.6 64.45	121.6	64.45
64.45	0.000	0.000	Strato1_2_8_L_0		
34 D	13.29	0.000	125.4 66.46	125.4	66.46
66.46	0.000	0.000	Strato1_2_8_L_0		
35 D	13.70	0.000	129.2 68.48	129.2	68.48
68.48	0.000	0.000	Strato1_2_8_L_0		
36 D	14.10	0.000	133.0 70.49	133.0	70.49
70.49	0.000	0.000	Strato1_2_8_L_0		
37 D	14.50	0.000	136.8 72.50	136.8	72.50
72.50	0.000	0.000	Strato1_2_8_L_0		
38 D	14.90	0.000	140.6 74.52	140.6	74.52
74.52	0.000	0.000	Strato1_2_8_L_0		
39 D	15.31	0.000	144.4 76.53	144.4	76.53
76.53	0.000	0.000	Strato1_2_8_L_0		
40 D	15.71	0.000	148.2 78.55	148.2	78.55
78.55	0.000	0.000	Strato1_2_8_L_0		
41 D	16.11	0.000	152.0 80.56	152.0	80.56
80.56	0.000	0.000	Strato1_2_8_L_0		
42 D	16.51	0.000	155.8 82.57	155.8	82.57
82.57	0.000	0.000	Strato1_2_8_L_0		
43 D	16.92	0.000	159.6 84.59	159.6	84.59
84.59	0.000	0.000	Strato1_2_8_L_0		
44 D	17.32	0.000	163.4 86.60	163.4	86.60
86.60	0.000	0.000	Strato1_2_8_L_0		
45 D	17.73	0.000	167.3 83.65	167.3	83.65
83.65	0.000	0.000	Strato2_3095_82743_L_0		
46 D	17.13	0.000	171.3 85.65	171.3	85.65
85.65	0.000	0.000	Strato2_3095_82743_L_0		
47 D	17.53	0.000	175.3 87.65	175.3	87.65
87.65	0.000	0.000	Strato2_3095_82743_L_0		
48 D	17.93	0.000	179.3 89.65	179.3	89.65
89.65	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 794 di 1221							
49 D	18.33	0.000	183.3	91.65	183.3	91.65	V-C	4.5023E+04	-9.600	0.000	1.000	1.000
91.65	0.000	0.000	Strato2_3095_82743_L_0									
50 D	18.73	0.000	187.3	93.65	187.3	93.65	V-C	4.5023E+04	-9.800	0.000	1.000	1.000
93.65	0.000	0.000	Strato2_3095_82743_L_0									
51 D	19.13	0.000	191.3	95.65	191.3	95.65	V-C	4.5023E+04	-10.00	0.000	1.000	1.000
95.65	0.000	0.000	Strato2_3095_82743_L_0									
52 D	19.53	0.000	195.3	97.65	195.3	97.65	V-C	4.5023E+04	-10.20	0.000	1.000	1.000
97.65	0.000	0.000	Strato2_3095_82743_L_0									
53 D	19.93	0.000	199.3	99.65	199.3	99.65	V-C	4.5023E+04	-10.40	0.000	1.000	1.000
99.65	0.000	0.000	Strato2_3095_82743_L_0									
54 D	20.33	0.000	203.3	101.6	203.3	101.6	V-C	4.5023E+04	-10.60	0.000	1.000	1.000
101.6	0.000	0.000	Strato2_3095_82743_L_0									
55 D	20.73	0.000	207.3	103.6	207.3	103.6	V-C	4.5023E+04	-10.80	0.000	1.000	1.000
103.6	0.000	0.000	Strato2_3095_82743_L_0									
56 D	21.13	0.000	211.3	105.6	211.3	105.6	V-C	4.5023E+04	-11.00	0.000	1.000	1.000
105.6	0.000	0.000	Strato2_3095_82743_L_0									
57 D	21.53	0.000	215.3	107.6	215.3	107.6	V-C	4.5023E+04	-11.20	0.000	1.000	1.000
107.6	0.000	0.000	Strato2_3095_82743_L_0									
58 D	21.93	0.000	219.3	109.6	219.3	109.6	V-C	4.5023E+04	-11.40	0.000	1.000	1.000
109.6	0.000	0.000	Strato2_3095_82743_L_0									
59 D	22.33	0.000	223.3	111.6	223.3	111.6	V-C	4.5023E+04	-11.60	0.000	1.000	1.000
111.6	0.000	0.000	Strato2_3095_82743_L_0									
60 D	22.73	0.000	227.3	113.6	227.3	113.6	V-C	4.5023E+04	-11.80	0.000	1.000	1.000
113.6	0.000	0.000	Strato2_3095_82743_L_0									
61 D	23.13	0.000	231.3	115.6	231.3	115.6	V-C	4.5023E+04	-12.00	0.000	1.000	1.000
115.6	0.000	0.000	Strato2_3095_82743_L_0									
62 D	23.53	0.000	235.3	117.6	235.3	117.6	V-C	4.5023E+04	-12.20	0.000	1.000	1.000
117.6	0.000	0.000	Strato2_3095_82743_L_0									
63 D	23.93	0.000	239.3	119.6	239.3	119.6	V-C	4.5023E+04	-12.40	0.000	1.000	1.000
119.6	0.000	0.000	Strato2_3095_82743_L_0									
64 D	24.33	0.000	243.3	121.6	243.3	121.6	V-C	4.5023E+04	-12.60	0.000	1.000	1.000
121.6	0.000	0.000	Strato2_3095_82743_L_0									
65 D	24.73	0.000	247.3	123.6	247.3	123.6	V-C	4.5023E+04	-12.80	0.000	1.000	1.000
123.6	0.000	0.000	Strato2_3095_82743_L_0									
66 D	25.13	0.000	251.3	125.6	251.3	125.6	V-C	4.5023E+04	-13.00	0.000	1.000	1.000
125.6	0.000	0.000	Strato2_3095_82743_L_0									
67 D	25.53	0.000	255.3	127.6	255.3	127.6	V-C	4.5023E+04	-13.20	0.000	1.000	1.000
127.6	0.000	0.000	Strato2_3095_82743_L_0									
68 D	25.93	0.000	259.3	129.6	259.3	129.6	V-C	4.5023E+04	-13.40	0.000	1.000	1.000
129.6	0.000	0.000	Strato2_3095_82743_L_0									
69 D	26.33	0.000	263.3	131.6	263.3	131.6	V-C	4.5023E+04	-13.60	0.000	1.000	1.000
131.6	0.000	0.000	Strato2_3095_82743_L_0									
70 D	26.73	0.000	267.3	133.6	267.3	133.6	V-C	4.5023E+04	-13.80	0.000	1.000	1.000
133.6	0.000	0.000	Strato2_3095_82743_L_0									
71 D	27.13	0.000	271.3	135.6	271.3	135.6	V-C	4.5023E+04	-14.00	0.000	1.000	1.000
135.6	0.000	0.000	Strato2_3095_82743_L_0									
72 D	27.53	0.000	275.3	137.6	275.3	137.6	V-C	4.5023E+04	-14.20	0.000	1.000	1.000
137.6	0.000	0.000	Strato2_3095_82743_L_0									
73 D	27.93	0.000	279.3	139.6	279.3	139.6	V-C	4.5023E+04	-14.40	0.000	1.000	1.000
139.6	0.000	0.000	Strato2_3095_82743_L_0									
74 D	28.33	0.000	283.3	141.6	283.3	141.6	V-C	4.5023E+04	-14.60	0.000	1.000	1.000
141.6	0.000	0.000	Strato2_3095_82743_L_0									
75 D	28.73	0.000	287.3	143.6	287.3	143.6	V-C	4.5023E+04	-14.80	0.000	1.000	1.000
143.6	0.000	0.000	Strato2_3095_82743_L_0									
76 D	29.13	0.000	291.3	145.6	291.3	145.6	V-C	4.5023E+04	-15.00	0.000	1.000	1.000
145.6	0.000	0.000	Strato2_3095_82743_L_0									
77 D	29.53	0.000	295.3	147.6	295.3	147.6	V-C	4.5023E+04	-15.20	0.000	1.000	1.000
147.6	0.000	0.000	Strato2_3095_82743_L_0									
78 D	29.93	0.000	299.3	149.6	299.3	149.6	V-C	4.5023E+04	-15.40	0.000	1.000	1.000
149.6	0.000	0.000	Strato2_3095_82743_L_0									
79 D	30.33	0.000	303.3	151.6	303.3	151.6	V-C	4.5023E+04	-15.60	0.000	1.000	1.000
151.6	0.000	0.000	Strato2_3095_82743_L_0									
80 D	30.73	0.000	307.3	153.6	307.3	153.6	V-C	4.5023E+04	-15.80	0.000	1.000	1.000
153.6	0.000	0.000	Strato2_3095_82743_L_0									
81 D	15.56	0.000	311.3	155.6	311.3	155.6	V-C	4.5023E+04	-16.00	0.000	1.000	1.000
155.6	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                     |
|          NewProject.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          18:01:11          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :

ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81

CURRENT TIME IS 1.0000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.

Progetto
INORLotto
12Codifica Documento
E E2 CL GA 2701 002Rev.
AFoglio
795 di 1221

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	1.1045E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Stratol_2_8_L_0									
2 D	0.4028	0.000	3.800	2.014	3.800	2.014	V-C	1.1045E+04	-0.2000	0.000	1.000	1.000
2.014	0.000	0.000	Stratol_2_8_L_0									
3 D	0.8056	0.000	7.600	4.028	7.600	4.028	V-C	1.1045E+04	-0.4000	0.000	1.000	1.000
4.028	0.000	0.000	Stratol_2_8_L_0									
4 D	1.208	0.000	11.40	6.042	11.40	6.042	V-C	1.1045E+04	-0.6000	0.000	1.000	1.000
6.042	0.000	0.000	Stratol_2_8_L_0									
5 D	1.611	0.000	15.20	8.056	15.20	8.056	V-C	1.1045E+04	-0.8000	0.000	1.000	1.000
8.056	0.000	0.000	Stratol_2_8_L_0									
6 D	2.014	0.000	19.00	10.07	19.00	10.07	V-C	1.1045E+04	-1.000	0.000	1.000	1.000
10.07	0.000	0.000	Stratol_2_8_L_0									
7 D	2.417	0.000	22.80	12.08	22.80	12.08	V-C	1.1045E+04	-1.200	0.000	1.000	1.000
12.08	0.000	0.000	Stratol_2_8_L_0									
8 D	2.820	0.000	26.60	14.10	26.60	14.10	V-C	1.1045E+04	-1.400	0.000	1.000	1.000
14.10	0.000	0.000	Stratol_2_8_L_0									
9 D	3.222	0.000	30.40	16.11	30.40	16.11	V-C	1.1045E+04	-1.600	0.000	1.000	1.000
16.11	0.000	0.000	Stratol_2_8_L_0									
10 D	3.625	0.000	34.20	18.13	34.20	18.13	V-C	1.1045E+04	-1.800	0.000	1.000	1.000
18.13	0.000	0.000	Stratol_2_8_L_0									
11 D	4.028	0.000	38.00	20.14	38.00	20.14	V-C	1.1045E+04	-2.000	0.000	1.000	1.000
20.14	0.000	0.000	Stratol_2_8_L_0									
12 D	4.431	0.000	41.80	22.15	41.80	22.15	V-C	1.1045E+04	-2.200	0.000	1.000	1.000
22.15	0.000	0.000	Stratol_2_8_L_0									
13 D	4.834	0.000	45.60	24.17	45.60	24.17	V-C	1.1045E+04	-2.400	0.000	1.000	1.000
24.17	0.000	0.000	Stratol_2_8_L_0									
14 D	5.236	0.000	49.40	26.18	49.40	26.18	V-C	1.1045E+04	-2.600	0.000	1.000	1.000
26.18	0.000	0.000	Stratol_2_8_L_0									
15 D	5.639	0.000	53.20	28.20	53.20	28.20	V-C	1.1045E+04	-2.800	0.000	1.000	1.000
28.20	0.000	0.000	Stratol_2_8_L_0									
16 D	6.042	0.000	57.00	30.21	57.00	30.21	V-C	1.1045E+04	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Stratol_2_8_L_0									
17 D	6.445	0.000	60.80	32.22	60.80	32.22	V-C	1.1045E+04	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Stratol_2_8_L_0									
18 D	6.848	0.000	64.60	34.24	64.60	34.24	V-C	1.1045E+04	-3.400	0.000	1.000	1.000
34.24	0.000	0.000	Stratol_2_8_L_0									
19 D	7.250	0.000	68.40	36.25	68.40	36.25	V-C	1.1045E+04	-3.600	0.000	1.000	1.000
36.25	0.000	0.000	Stratol_2_8_L_0									
20 D	7.653	0.000	72.20	38.27	72.20	38.27	V-C	1.1045E+04	-3.800	0.000	1.000	1.000
38.27	0.000	0.000	Stratol_2_8_L_0									
21 D	8.056	0.000	76.00	40.28	76.00	40.28	V-C	1.1045E+04	-4.000	0.000	1.000	1.000
40.28	0.000	0.000	Stratol_2_8_L_0									
22 D	8.459	0.000	79.80	42.29	79.80	42.29	V-C	1.1045E+04	-4.200	0.000	1.000	1.000
42.29	0.000	0.000	Stratol_2_8_L_0									
23 D	8.862	0.000	83.60	44.31	83.60	44.31	V-C	1.1045E+04	-4.400	0.000	1.000	1.000
44.31	0.000	0.000	Stratol_2_8_L_0									
24 D	9.264	0.000	87.40	46.32	87.40	46.32	V-C	1.1045E+04	-4.600	0.000	1.000	1.000
46.32	0.000	0.000	Stratol_2_8_L_0									
25 D	9.667	0.000	91.20	48.34	91.20	48.34	V-C	1.1045E+04	-4.800	0.000	1.000	1.000
48.34	0.000	0.000	Stratol_2_8_L_0									
26 D	10.07	0.000	95.00	50.35	95.00	50.35	V-C	1.1045E+04	-5.000	0.000	1.000	1.000
50.35	0.000	0.000	Stratol_2_8_L_0									
27 D	10.47	0.000	98.80	52.36	98.80	52.36	V-C	1.1045E+04	-5.200	0.000	1.000	1.000
52.36	0.000	0.000	Stratol_2_8_L_0									
28 D	10.88	0.000	102.6	54.38	102.6	54.38	V-C	1.1045E+04	-5.400	0.000	1.000	1.000
54.38	0.000	0.000	Stratol_2_8_L_0									
29 D	11.28	0.000	106.4	56.39	106.4	56.39	V-C	1.1045E+04	-5.600	0.000	1.000	1.000
56.39	0.000	0.000	Stratol_2_8_L_0									
30 D	11.68	0.000	110.2	58.41	110.2	58.41	V-C	1.1045E+04	-5.800	0.000	1.000	1.000
58.41	0.000	0.000	Stratol_2_8_L_0									
31 D	12.08	0.000	114.0	60.42	114.0	60.42	V-C	1.1045E+04	-6.000	0.000	1.000	1.000
60.42	0.000	0.000	Stratol_2_8_L_0									
32 D	12.49	0.000	117.8	62.43	117.8	62.43	V-C	1.1045E+04	-6.200	0.000	1.000	1.000
62.43	0.000	0.000	Stratol_2_8_L_0									
33 D	12.89	0.000	121.6	64.45	121.6	64.45	V-C	1.1045E+04	-6.400	0.000	1.000	1.000
64.45	0.000	0.000	Stratol_2_8_L_0									
34 D	13.29	0.000	125.4	66.46	125.4	66.46	V-C	1.1045E+04	-6.600	0.000	1.000	1.000
66.46	0.000	0.000	Stratol_2_8_L_0									
35 D	13.70	0.000	129.2	68.48	129.2	68.48	V-C	1.1045E+04	-6.800	0.000	1.000	1.000
68.48	0.000	0.000	Stratol_2_8_L_0									
36 D	14.10	0.000	133.0	70.49	133.0	70.49	V-C	1.1045E+04	-7.000	0.000	1.000	1.000
70.49	0.000	0.000	Stratol_2_8_L_0									
37 D	14.50	0.000	136.8	72.50	136.8	72.50	V-C	1.1045E+04	-7.200	0.000	1.000	1.000
72.50	0.000	0.000	Stratol_2_8_L_0									
38 D	14.90	0.000	140.6	74.52	140.6	74.52	V-C	1.1045E+04	-7.400	0.000	1.000	1.000
74.52	0.000	0.000	Stratol_2_8_L_0									
39 D	15.31	0.000	144.4	76.53	144.4	76.53	V-C	1.1045E+04	-7.600	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 796 di 1221
76.53	0.000	0.000	Strato1_2_8_L_0		
40 D	15.71	0.000	148.2 78.55	148.2	78.55
78.55	0.000	0.000	Strato1_2_8_L_0		
41 D	16.11	0.000	152.0 80.56	152.0	80.56
80.56	0.000	0.000	Strato1_2_8_L_0		
42 D	16.51	0.000	155.8 82.57	155.8	82.57
82.57	0.000	0.000	Strato1_2_8_L_0		
43 D	16.92	0.000	159.6 84.59	159.6	84.59
84.59	0.000	0.000	Strato1_2_8_L_0		
44 D	17.32	0.000	163.4 86.60	163.4	86.60
86.60	0.000	0.000	Strato1_2_8_L_0		
45 D	16.73	0.000	167.3 83.65	167.3	83.65
83.65	0.000	0.000	Strato2_3095_82743_L_0		
46 D	17.13	0.000	171.3 85.65	171.3	85.65
85.65	0.000	0.000	Strato2_3095_82743_L_0		
47 D	17.53	0.000	175.3 87.65	175.3	87.65
87.65	0.000	0.000	Strato2_3095_82743_L_0		
48 D	17.93	0.000	179.3 89.65	179.3	89.65
89.65	0.000	0.000	Strato2_3095_82743_L_0		
49 D	18.33	0.000	183.3 91.65	183.3	91.65
91.65	0.000	0.000	Strato2_3095_82743_L_0		
50 D	18.73	0.000	187.3 93.65	187.3	93.65
93.65	0.000	0.000	Strato2_3095_82743_L_0		
51 D	19.13	0.000	191.3 95.65	191.3	95.65
95.65	0.000	0.000	Strato2_3095_82743_L_0		
52 D	19.53	0.000	195.3 97.65	195.3	97.65
97.65	0.000	0.000	Strato2_3095_82743_L_0		
53 D	19.93	0.000	199.3 99.65	199.3	99.65
99.65	0.000	0.000	Strato2_3095_82743_L_0		
54 D	20.33	0.000	203.3 101.6	203.3	101.6
101.6	0.000	0.000	Strato2_3095_82743_L_0		
55 D	20.73	0.000	207.3 103.6	207.3	103.6
103.6	0.000	0.000	Strato2_3095_82743_L_0		
56 D	21.13	0.000	211.3 105.6	211.3	105.6
105.6	0.000	0.000	Strato2_3095_82743_L_0		
57 D	21.53	0.000	215.3 107.6	215.3	107.6
107.6	0.000	0.000	Strato2_3095_82743_L_0		
58 D	21.93	0.000	219.3 109.6	219.3	109.6
109.6	0.000	0.000	Strato2_3095_82743_L_0		
59 D	22.33	0.000	223.3 111.6	223.3	111.6
111.6	0.000	0.000	Strato2_3095_82743_L_0		
60 D	22.73	0.000	227.3 113.6	227.3	113.6
113.6	0.000	0.000	Strato2_3095_82743_L_0		
61 D	23.13	0.000	231.3 115.6	231.3	115.6
115.6	0.000	0.000	Strato2_3095_82743_L_0		
62 D	23.53	0.000	235.3 117.6	235.3	117.6
117.6	0.000	0.000	Strato2_3095_82743_L_0		
63 D	23.93	0.000	239.3 119.6	239.3	119.6
119.6	0.000	0.000	Strato2_3095_82743_L_0		
64 D	24.33	0.000	243.3 121.6	243.3	121.6
121.6	0.000	0.000	Strato2_3095_82743_L_0		
65 D	24.73	0.000	247.3 123.6	247.3	123.6
123.6	0.000	0.000	Strato2_3095_82743_L_0		
66 D	25.13	0.000	251.3 125.6	251.3	125.6
125.6	0.000	0.000	Strato2_3095_82743_L_0		
67 D	25.53	0.000	255.3 127.6	255.3	127.6
127.6	0.000	0.000	Strato2_3095_82743_L_0		
68 D	25.93	0.000	259.3 129.6	259.3	129.6
129.6	0.000	0.000	Strato2_3095_82743_L_0		
69 D	26.33	0.000	263.3 131.6	263.3	131.6
131.6	0.000	0.000	Strato2_3095_82743_L_0		
70 D	26.73	0.000	267.3 133.6	267.3	133.6
133.6	0.000	0.000	Strato2_3095_82743_L_0		
71 D	27.13	0.000	271.3 135.6	271.3	135.6
135.6	0.000	0.000	Strato2_3095_82743_L_0		
72 D	27.53	0.000	275.3 137.6	275.3	137.6
137.6	0.000	0.000	Strato2_3095_82743_L_0		
73 D	27.93	0.000	279.3 139.6	279.3	139.6
139.6	0.000	0.000	Strato2_3095_82743_L_0		
74 D	28.33	0.000	283.3 141.6	283.3	141.6
141.6	0.000	0.000	Strato2_3095_82743_L_0		
75 D	28.73	0.000	287.3 143.6	287.3	143.6
143.6	0.000	0.000	Strato2_3095_82743_L_0		
76 D	29.13	0.000	291.3 145.6	291.3	145.6
145.6	0.000	0.000	Strato2_3095_82743_L_0		
77 D	29.53	0.000	295.3 147.6	295.3	147.6
147.6	0.000	0.000	Strato2_3095_82743_L_0		
78 D	29.93	0.000	299.3 149.6	299.3	149.6
149.6	0.000	0.000	Strato2_3095_82743_L_0		
79 D	30.33	0.000	303.3 151.6	303.3	151.6
151.6	0.000	0.000	Strato2_3095_82743_L_0		
80 D	30.73	0.000	307.3 153.6	307.3	153.6
153.6	0.000	0.000	Strato2_3095_82743_L_0		
81 D	15.56	0.000	311.3 155.6	311.3	155.6

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 797 di 1221
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155.6 0.000 0.000 Strato2_3095_82743_I_0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  18:01:11  |
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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_33      :
ELEMENT TYPE      2 NO.OF ELEMENTS. IN THIS GROUP  80
C U R R E N T   T I M E   I S                    1.0000

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000
31	0.0000	0.0000	0.0000	0.0000
32	0.0000	0.0000	0.0000	0.0000
33	0.0000	0.0000	0.0000	0.0000
34	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000
36	0.0000	0.0000	0.0000	0.0000
37	0.0000	0.0000	0.0000	0.0000
38	0.0000	0.0000	0.0000	0.0000
39	0.0000	0.0000	0.0000	0.0000
40	0.0000	0.0000	0.0000	0.0000
41	0.0000	0.0000	0.0000	0.0000
42	0.0000	0.0000	0.0000	0.0000
43	0.0000	0.0000	0.0000	0.0000
44	0.0000	0.0000	0.0000	0.0000
45	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000
47	0.0000	0.0000	0.0000	0.0000
48	0.0000	0.0000	0.0000	0.0000
49	0.0000	0.0000	0.0000	0.0000
50	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	0.0000	0.0000
52	0.0000	0.0000	0.0000	0.0000
53	0.0000	0.0000	0.0000	0.0000
54	0.0000	0.0000	0.0000	0.0000
55	0.0000	0.0000	0.0000	0.0000
56	0.0000	0.0000	0.0000	0.0000
57	0.0000	0.0000	0.0000	0.0000
58	0.0000	0.0000	0.0000	0.0000
59	0.0000	0.0000	0.0000	0.0000
60	0.0000	0.0000	0.0000	0.0000
61	0.0000	0.0000	0.0000	0.0000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 798 di 1221
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62	0.0000	0.0000	0.0000	0.0000
63	0.0000	0.0000	0.0000	0.0000
64	0.0000	0.0000	0.0000	0.0000
65	0.0000	0.0000	0.0000	0.0000
66	0.0000	0.0000	0.0000	0.0000
67	0.0000	0.0000	0.0000	0.0000
68	0.0000	0.0000	0.0000	0.0000
69	0.0000	0.0000	0.0000	0.0000
70	0.0000	0.0000	0.0000	0.0000
71	0.0000	0.0000	0.0000	0.0000
72	0.0000	0.0000	0.0000	0.0000
73	0.0000	0.0000	0.0000	0.0000
74	0.0000	0.0000	0.0000	0.0000
75	0.0000	0.0000	0.0000	0.0000
76	0.0000	0.0000	0.0000	0.0000
77	0.0000	0.0000	0.0000	0.0000
78	0.0000	0.0000	0.0000	0.0000
79	0.0000	0.0000	0.0000	0.0000
80	0.0000	0.0000	0.0000	0.0000

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019    18:01:11                             |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirantel_429 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 CURRENT TIME IS 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER 0 RNORM = 0.000    RMNORM= 0.000
      RINORM=0.5325E+05 RIMNOR= 0.000
      RENORM= 54.06    REMNOR= 0.000    RATIO =0.3186E-01 TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 31.53    RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =-0.5325E+05 RDR = 0.000
      RATIOT=0.3186E-01 RATIOR= 0.000
      MAX UN=0.8871    IEQ= 15 NODE      8 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=0.5325E+05 RIMNOR= 0.000
      RENORM=0.8285E-01 REMNOR=0.1097E-21 RATIO =0.1247E-02 TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 31.53    RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =-0.5325E+05 RDR = 0.000
      RATIOT=0.1247E-02 RATIOR= 0.000
      MAX UN=0.2669    IEQ= 3 NODE      2 DOF  1  Y-DISPL.F
      MIN UN=-.5408E-10 IEQ= 59 NODE    30 DOF  1  Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
```

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ITER 3 RNORM = 0.000    RMNORM= 0.000
      RINORM=0.5325E+05 RIMNOR= 0.000
      RENORM=0.4902E-04 REMNOR=0.2432E-22 RATIO =0.3034E-04 TOLER =0.1000E-03 CONVERGED !
      RFMAX = 31.53    RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =-0.5325E+05 RDR = 0.000
      RATIOT=0.3034E-04 RATIOR= 0.000
      MAX UN=0.1888E-02 IEQ= 89 NODE    45 DOF  1  Y-DISPL.F
      MIN UN=-.2519E-10 IEQ= 29 NODE    15 DOF  1  Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
799 di 1221

|
|
| NewProject.BaseDesignSection_28.A1MIR1_3484 |
| Exe Time :29 July 2019 18:01:11 |
|-----+-----|

New Project
SOLUTION REACHED USING 3 ITERATIONS ON 100

P R I N T O U T F O R T I M E S T E P 2 (A T T I M E 2.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	8.1692710E-05	-2.6266627E-06	
2	8.1167932E-05	-2.6183342E-06	
3	8.0646526E-05	-2.5927565E-06	
4	8.0131898E-05	-2.5511616E-06	
5	7.9626821E-05	-2.4981679E-06	
6	7.9133069E-05	-2.4385940E-06	
7	7.8651588E-05	-2.3759574E-06	
8	7.8182718E-05	-2.3128416E-06	
9	7.7726360E-05	-2.2511002E-06	
10	7.7281973E-05	-2.1939301E-06	
11	7.6848189E-05	-2.1457412E-06	
12	7.6422840E-05	-2.1100985E-06	
13	7.6003124E-05	-2.0898417E-06	
14	7.5585731E-05	-2.0871731E-06	
15	7.5166973E-05	-2.1037240E-06	
16	7.4742886E-05	-2.1406048E-06	
17	7.4309262E-05	-2.1995184E-06	
18	7.3861460E-05	-2.2827185E-06	
19	7.3394443E-05	-2.3918919E-06	
20	7.2902895E-05	-2.5281867E-06	
21	7.2381319E-05	-2.6922305E-06	
22	7.1824145E-05	-2.8841418E-06	
23	7.1225830E-05	-3.1035337E-06	
24	7.0580962E-05	-3.3495105E-06	
25	6.9884303E-05	-3.6213747E-06	
26	6.9130723E-05	-3.9185752E-06	
27	6.8315261E-05	-4.2399569E-06	
28	6.7433247E-05	-4.5837420E-06	
29	6.6480437E-05	-4.9475066E-06	
30	6.5453123E-05	-5.3281623E-06	
31	6.4348299E-05	-5.7219162E-06	
32	6.3163748E-05	-6.1247933E-06	
33	6.1898054E-05	-6.5325821E-06	
34	6.0550725E-05	-6.9402315E-06	
35	5.9122373E-05	-7.3418137E-06	
36	5.7614866E-05	-7.7304957E-06	
37	5.6031554E-05	-8.0984900E-06	
38	5.4377434E-05	-8.4370277E-06	
39	5.2659359E-05	-8.7363214E-06	
40	5.0886224E-05	-8.9859677E-06	
41	4.9069028E-05	-9.1749116E-06	
42	4.7221119E-05	-9.2909723E-06	
43	4.5358386E-05	-9.3208332E-06	
44	4.3499496E-05	-9.2500336E-06	
45	4.1666132E-05	-9.0629719E-06	
46	3.9881779E-05	-8.7639802E-06	
47	3.8166416E-05	-8.3768511E-06	
48	3.6535487E-05	-7.9229812E-06	
49	3.5000422E-05	-7.4211371E-06	
50	3.3569153E-05	-6.8875985E-06	
51	3.2246573E-05	-6.3363028E-06	
52	3.1035053E-05	-5.7790366E-06	
53	2.9934731E-05	-5.225506E-06	
54	2.8944051E-05	-4.6838004E-06	
55	2.8059990E-05	-4.1603671E-06	
56	2.7278324E-05	-3.6606294E-06	
57	2.6593890E-05	-3.1886238E-06	
58	2.6000836E-05	-2.7471993E-06	
59	2.5492851E-05	-2.3381625E-06	
60	2.5063352E-05	-1.9624139E-06	
61	2.4705658E-05	-1.6200747E-06	
62	2.4413113E-05	-1.3108637E-06	
63	2.4179143E-05	-1.0341987E-06	
64	2.3997334E-05	-7.8902708E-07	
65	2.3861528E-05	-5.7391190E-07	
66	2.3765882E-05	-3.8710860E-07	
67	2.3704929E-05	-2.2663225E-07	
68	2.3673619E-05	-9.0316392E-08	
69	2.3667345E-05	2.4136402E-08	
70	2.3681959E-05	1.1888076E-07	
71	2.3713716E-05	1.9589557E-07	
72	2.3759269E-05	2.5718734E-07	



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 800 di 1221
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73	2.3815676E-05	3.0476495E-07
74	2.3880394E-05	3.4061924E-07
75	2.3951273E-05	3.6670682E-07
76	2.4026553E-05	3.8493747E-07
77	2.4104834E-05	3.9695544E-07
78	2.4185012E-05	4.0413527E-07
79	2.4266253E-05	4.0778872E-07
80	2.4347976E-05	4.0916106E-07
81	2.4429848E-05	4.0942836E-07

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  18:01:11  |
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New Project

STRESS RESULTS FOR GROUP NO. 1

O_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.3508	-8.1693E-05	11.54	3.508	11.54	6.116	ACTIVE	0.000	0.000	0.000	1.000	1.000
3.508	0.000	0.000	Strato1_2_8_L_0									
2 D	0.6070	-8.1168E-05	9.984	3.035	9.984	5.292	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
3.035	0.000	0.000	Strato1_2_8_L_0									
3 D	0.9069	-8.0647E-05	14.92	4.534	14.92	7.906	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
4.534	0.000	0.000	Strato1_2_8_L_0									
4 D	1.268	-8.0132E-05	19.18	6.339	19.18	10.16	UL-RL	4.7747E+04	-0.6000	0.000	1.000	1.000
6.339	0.000	0.000	Strato1_2_8_L_0									
5 D	1.702	-7.9627E-05	23.23	8.509	23.23	12.31	UL-RL	4.7747E+04	-0.8000	0.000	1.000	1.000
8.509	0.000	0.000	Strato1_2_8_L_0									
6 D	2.126	-7.9133E-05	27.18	10.63	27.18	14.41	UL-RL	4.7747E+04	-1.000	0.000	1.000	1.000
10.63	0.000	0.000	Strato1_2_8_L_0									
7 D	2.545	-7.8652E-05	31.09	12.72	31.09	16.48	UL-RL	4.7747E+04	-1.200	0.000	1.000	1.000
12.72	0.000	0.000	Strato1_2_8_L_0									
8 D	2.960	-7.8183E-05	34.97	14.80	34.97	18.53	UL-RL	4.7747E+04	-1.400	0.000	1.000	1.000
14.80	0.000	0.000	Strato1_2_8_L_0									
9 D	3.292	-7.7726E-05	38.06	16.46	38.06	20.17	UL-RL	4.7747E+04	-1.600	0.000	1.000	1.000
16.46	0.000	0.000	Strato1_2_8_L_0									
10 D	3.713	-7.7282E-05	41.99	18.56	41.99	22.25	UL-RL	4.7747E+04	-1.800	0.000	1.000	1.000
18.56	0.000	0.000	Strato1_2_8_L_0									
11 D	4.131	-7.6848E-05	45.89	20.65	45.89	24.32	UL-RL	4.7747E+04	-2.000	0.000	1.000	1.000
20.65	0.000	0.000	Strato1_2_8_L_0									
12 D	4.547	-7.6423E-05	49.78	22.73	49.78	26.38	UL-RL	4.7747E+04	-2.200	0.000	1.000	1.000
22.73	0.000	0.000	Strato1_2_8_L_0									
13 D	4.961	-7.6003E-05	53.65	24.81	53.65	28.44	UL-RL	4.7747E+04	-2.400	0.000	1.000	1.000
24.81	0.000	0.000	Strato1_2_8_L_0									
14 D	5.375	-7.5586E-05	57.51	26.87	57.51	30.48	UL-RL	4.7747E+04	-2.600	0.000	1.000	1.000
26.87	0.000	0.000	Strato1_2_8_L_0									
15 D	5.787	-7.5167E-05	61.37	28.94	61.37	32.52	UL-RL	4.7747E+04	-2.800	0.000	1.000	1.000
28.94	0.000	0.000	Strato1_2_8_L_0									
16 D	6.153	-7.4743E-05	64.79	30.77	64.79	34.34	UL-RL	4.7747E+04	-3.000	0.000	1.000	1.000
30.77	0.000	0.000	Strato1_2_8_L_0									
17 D	6.568	-7.4309E-05	68.65	32.84	68.65	36.39	UL-RL	4.7747E+04	-3.200	0.000	1.000	1.000
32.84	0.000	0.000	Strato1_2_8_L_0									
18 D	6.981	-7.3861E-05	72.51	34.91	72.51	38.43	UL-RL	4.7747E+04	-3.400	0.000	1.000	1.000
34.91	0.000	0.000	Strato1_2_8_L_0									
19 D	7.394	-7.3394E-05	76.37	36.97	76.37	40.47	UL-RL	4.7747E+04	-3.600	0.000	1.000	1.000
36.97	0.000	0.000	Strato1_2_8_L_0									
20 D	7.806	-7.2903E-05	80.21	39.03	80.21	42.51	UL-RL	4.7747E+04	-3.800	0.000	1.000	1.000
39.03	0.000	0.000	Strato1_2_8_L_0									
21 D	8.219	-7.2381E-05	84.06	41.09	84.06	44.55	UL-RL	4.7747E+04	-4.000	0.000	1.000	1.000
41.09	0.000	0.000	Strato1_2_8_L_0									
22 D	8.631	-7.1824E-05	87.89	43.15	87.89	46.58	UL-RL	4.7747E+04	-4.200	0.000	1.000	1.000
43.15	0.000	0.000	Strato1_2_8_L_0									
23 D	9.043	-7.1226E-05	91.73	45.22	91.73	48.62	UL-RL	4.7747E+04	-4.400	0.000	1.000	1.000
45.22	0.000	0.000	Strato1_2_8_L_0									
24 D	9.426	-7.0581E-05	95.28	47.13	95.28	50.50	UL-RL	4.7747E+04	-4.600	0.000	1.000	1.000
47.13	0.000	0.000	Strato1_2_8_L_0									
25 D	9.839	-6.9884E-05	99.12	49.20	99.12	52.53	UL-RL	4.7747E+04	-4.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 803 di 1221						
16 D	6.207	7.4743E-05	57.00 31.04	57.00	31.04	V-C	1.1045E+04	-3.000	0.000	1.000	1.000
31.04	0.000	0.000	Strato1_2_8_L_0								
17 D	6.609	7.4309E-05	60.80 33.04	60.80	33.04	V-C	1.1045E+04	-3.200	0.000	1.000	1.000
33.04	0.000	0.000	Strato1_2_8_L_0								
18 D	7.011	7.3861E-05	64.60 35.05	64.60	35.05	V-C	1.1045E+04	-3.400	0.000	1.000	1.000
35.05	0.000	0.000	Strato1_2_8_L_0								
19 D	7.413	7.3394E-05	68.40 37.06	68.40	37.06	V-C	1.1045E+04	-3.600	0.000	1.000	1.000
37.06	0.000	0.000	Strato1_2_8_L_0								
20 D	7.814	7.2903E-05	72.20 39.07	72.20	39.07	V-C	1.1045E+04	-3.800	0.000	1.000	1.000
39.07	0.000	0.000	Strato1_2_8_L_0								
21 D	8.216	7.2381E-05	76.00 41.08	76.00	41.08	V-C	1.1045E+04	-4.000	0.000	1.000	1.000
41.08	0.000	0.000	Strato1_2_8_L_0								
22 D	8.617	7.1824E-05	79.80 43.09	79.80	43.09	V-C	1.1045E+04	-4.200	0.000	1.000	1.000
43.09	0.000	0.000	Strato1_2_8_L_0								
23 D	9.019	7.1226E-05	83.60 45.09	83.60	45.09	V-C	1.1045E+04	-4.400	0.000	1.000	1.000
45.09	0.000	0.000	Strato1_2_8_L_0								
24 D	9.420	7.0581E-05	87.40 47.10	87.40	47.10	UL-RL	3.3134E+04	-4.600	0.000	1.000	1.000
47.10	0.000	0.000	Strato1_2_8_L_0								
25 D	9.821	6.9884E-05	91.20 49.11	91.20	49.11	UL-RL	3.3134E+04	-4.800	0.000	1.000	1.000
49.11	0.000	0.000	Strato1_2_8_L_0								
26 D	10.22	6.9131E-05	95.00 51.11	95.00	51.11	UL-RL	3.3134E+04	-5.000	0.000	1.000	1.000
51.11	0.000	0.000	Strato1_2_8_L_0								
27 D	10.62	6.8315E-05	98.80 53.11	98.80	53.11	UL-RL	3.3134E+04	-5.200	0.000	1.000	1.000
53.11	0.000	0.000	Strato1_2_8_L_0								
28 D	11.02	6.7433E-05	102.6 55.12	102.6	55.12	UL-RL	3.3134E+04	-5.400	0.000	1.000	1.000
55.12	0.000	0.000	Strato1_2_8_L_0								
29 D	11.42	6.6480E-05	106.4 57.12	106.4	57.12	UL-RL	3.3134E+04	-5.600	0.000	1.000	1.000
57.12	0.000	0.000	Strato1_2_8_L_0								
30 D	11.82	6.5453E-05	110.2 59.12	110.2	59.12	UL-RL	3.3134E+04	-5.800	0.000	1.000	1.000
59.12	0.000	0.000	Strato1_2_8_L_0								
31 D	12.22	6.4348E-05	114.0 61.12	114.0	61.12	UL-RL	3.3134E+04	-6.000	0.000	1.000	1.000
61.12	0.000	0.000	Strato1_2_8_L_0								
32 D	12.62	6.3164E-05	117.8 63.12	117.8	63.12	UL-RL	3.3134E+04	-6.200	0.000	1.000	1.000
63.12	0.000	0.000	Strato1_2_8_L_0								
33 D	13.02	6.1898E-05	121.6 65.12	121.6	65.12	UL-RL	3.3134E+04	-6.400	0.000	1.000	1.000
65.12	0.000	0.000	Strato1_2_8_L_0								
34 D	13.42	6.0551E-05	125.4 67.12	125.4	67.12	UL-RL	3.3134E+04	-6.600	0.000	1.000	1.000
67.12	0.000	0.000	Strato1_2_8_L_0								
35 D	13.82	5.9122E-05	129.2 69.12	129.2	69.12	UL-RL	3.3134E+04	-6.800	0.000	1.000	1.000
69.12	0.000	0.000	Strato1_2_8_L_0								
36 D	14.22	5.7615E-05	133.0 71.12	133.0	71.12	UL-RL	3.3134E+04	-7.000	0.000	1.000	1.000
71.12	0.000	0.000	Strato1_2_8_L_0								
37 D	14.62	5.6032E-05	136.8 73.12	136.8	73.12	UL-RL	3.3134E+04	-7.200	0.000	1.000	1.000
73.12	0.000	0.000	Strato1_2_8_L_0								
38 D	15.02	5.4377E-05	140.6 75.11	140.6	75.11	UL-RL	3.3134E+04	-7.400	0.000	1.000	1.000
75.11	0.000	0.000	Strato1_2_8_L_0								
39 D	15.42	5.2659E-05	144.4 77.11	144.4	77.11	UL-RL	3.3134E+04	-7.600	0.000	1.000	1.000
77.11	0.000	0.000	Strato1_2_8_L_0								
40 D	15.82	5.0886E-05	148.2 79.10	148.2	79.10	UL-RL	3.3134E+04	-7.800	0.000	1.000	1.000
79.10	0.000	0.000	Strato1_2_8_L_0								
41 D	16.22	4.9069E-05	152.0 81.10	152.0	81.10	UL-RL	3.3134E+04	-8.000	0.000	1.000	1.000
81.10	0.000	0.000	Strato1_2_8_L_0								
42 D	16.62	4.7221E-05	155.8 83.09	155.8	83.09	UL-RL	3.3134E+04	-8.200	0.000	1.000	1.000
83.09	0.000	0.000	Strato1_2_8_L_0								
43 D	17.02	4.5358E-05	159.6 85.08	159.6	85.08	UL-RL	3.3134E+04	-8.400	0.000	1.000	1.000
85.08	0.000	0.000	Strato1_2_8_L_0								
44 D	17.42	4.3499E-05	163.4 87.08	163.4	87.08	UL-RL	3.3134E+04	-8.600	0.000	1.000	1.000
87.08	0.000	0.000	Strato1_2_8_L_0								
45 D	16.93	4.1666E-05	167.3 84.66	167.3	84.66	UL-RL	7.3205E+04	-8.800	0.000	1.000	1.000
84.66	0.000	0.000	Strato2_3095_82743_L_0								
46 D	17.32	3.9882E-05	171.3 86.61	171.3	86.61	UL-RL	7.3205E+04	-9.000	0.000	1.000	1.000
86.61	0.000	0.000	Strato2_3095_82743_L_0								
47 D	17.71	3.8166E-05	175.3 88.57	175.3	88.57	UL-RL	7.3205E+04	-9.200	0.000	1.000	1.000
88.57	0.000	0.000	Strato2_3095_82743_L_0								
48 D	18.11	3.6535E-05	179.3 90.53	179.3	90.53	UL-RL	7.3205E+04	-9.400	0.000	1.000	1.000
90.53	0.000	0.000	Strato2_3095_82743_L_0								
49 D	18.50	3.5000E-05	183.3 92.50	183.3	92.50	UL-RL	7.3205E+04	-9.600	0.000	1.000	1.000
92.50	0.000	0.000	Strato2_3095_82743_L_0								
50 D	18.89	3.3569E-05	187.3 94.46	187.3	94.46	UL-RL	7.3205E+04	-9.800	0.000	1.000	1.000
94.46	0.000	0.000	Strato2_3095_82743_L_0								
51 D	19.29	3.2247E-05	191.3 96.43	191.3	96.43	UL-RL	7.3205E+04	-10.000	0.000	1.000	1.000
96.43	0.000	0.000	Strato2_3095_82743_L_0								
52 D	19.68	3.1035E-05	195.3 98.40	195.3	98.40	UL-RL	7.3205E+04	-10.200	0.000	1.000	1.000
98.40	0.000	0.000	Strato2_3095_82743_L_0								
53 D	20.08	2.9935E-05	199.3 100.4	199.3	100.4	UL-RL	7.3205E+04	-10.400	0.000	1.000	1.000
100.4	0.000	0.000	Strato2_3095_82743_L_0								
54 D	20.47	2.8944E-05	203.3 102.4	203.3	102.4	UL-RL	7.3205E+04	-10.600	0.000	1.000	1.000
102.4	0.000	0.000	Strato2_3095_82743_L_0								
55 D	20.87	2.8060E-05	207.3 104.3	207.3	104.3	UL-RL	7.3205E+04	-10.800	0.000	1.000	1.000
104.3	0.000	0.000	Strato2_3095_82743_L_0								
56 D	21.26	2.7278E-05	211.3 106.3	211.3	106.3	UL-RL	7.3205E+04	-11.000	0.000	1.000	1.000
106.3	0.000	0.000	Strato2_3095_82743_L_0								
57 D	21.66	2.6594E-05	215.3 108.3	215.3	108.3	UL-RL	7.3205E+04	-11.200	0.000	1.000	1.000
108.3	0.000	0.000	Strato2_3095_82743_L_0								
58 D	22.06	2.6001E-05	219.3 110.3	219.3	110.3	UL-RL	7.3205E+04	-11.400	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.				Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 804 di 1221
110.3	0.000	0.000	Strato2_3095_82743_L_0					
59 D	22.45	2.5493E-05	223.3 112.3	223.3	112.3	UL-RL 7.3205E+04 -11.60	0.000	1.000
112.3	0.000	0.000	Strato2_3095_82743_L_0					
60 D	22.85	2.5063E-05	227.3 114.3	227.3	114.3	UL-RL 7.3205E+04 -11.80	0.000	1.000
114.3	0.000	0.000	Strato2_3095_82743_L_0					
61 D	23.25	2.4706E-05	231.3 116.3	231.3	116.3	V-C 2.4402E+04 -12.00	0.000	1.000
116.3	0.000	0.000	Strato2_3095_82743_L_0					
62 D	23.65	2.4413E-05	235.3 118.2	235.3	118.2	V-C 2.4402E+04 -12.20	0.000	1.000
118.2	0.000	0.000	Strato2_3095_82743_L_0					
63 D	24.05	2.4179E-05	239.3 120.2	239.3	120.2	V-C 2.4402E+04 -12.40	0.000	1.000
120.2	0.000	0.000	Strato2_3095_82743_L_0					
64 D	24.45	2.3997E-05	243.3 122.2	243.3	122.2	V-C 2.4402E+04 -12.60	0.000	1.000
122.2	0.000	0.000	Strato2_3095_82743_L_0					
65 D	24.85	2.3862E-05	247.3 124.2	247.3	124.2	V-C 2.4402E+04 -12.80	0.000	1.000
124.2	0.000	0.000	Strato2_3095_82743_L_0					
66 D	25.25	2.3766E-05	251.3 126.2	251.3	126.2	V-C 2.4402E+04 -13.00	0.000	1.000
126.2	0.000	0.000	Strato2_3095_82743_L_0					
67 D	25.65	2.3705E-05	255.3 128.2	255.3	128.2	V-C 2.4402E+04 -13.20	0.000	1.000
128.2	0.000	0.000	Strato2_3095_82743_L_0					
68 D	26.05	2.3674E-05	259.3 130.2	259.3	130.2	V-C 2.4402E+04 -13.40	0.000	1.000
130.2	0.000	0.000	Strato2_3095_82743_L_0					
69 D	26.45	2.3667E-05	263.3 132.2	263.3	132.2	V-C 2.4402E+04 -13.60	0.000	1.000
132.2	0.000	0.000	Strato2_3095_82743_L_0					
70 D	26.85	2.3682E-05	267.3 134.2	267.3	134.2	V-C 2.4402E+04 -13.80	0.000	1.000
134.2	0.000	0.000	Strato2_3095_82743_L_0					
71 D	27.25	2.3714E-05	271.3 136.2	271.3	136.2	V-C 2.4402E+04 -14.00	0.000	1.000
136.2	0.000	0.000	Strato2_3095_82743_L_0					
72 D	27.65	2.3759E-05	275.3 138.2	275.3	138.2	V-C 2.4402E+04 -14.20	0.000	1.000
138.2	0.000	0.000	Strato2_3095_82743_L_0					
73 D	28.05	2.3816E-05	279.3 140.2	279.3	140.2	V-C 2.4402E+04 -14.40	0.000	1.000
140.2	0.000	0.000	Strato2_3095_82743_L_0					
74 D	28.45	2.3880E-05	283.3 142.2	283.3	142.2	V-C 2.4402E+04 -14.60	0.000	1.000
142.2	0.000	0.000	Strato2_3095_82743_L_0					
75 D	28.85	2.3951E-05	287.3 144.2	287.3	144.2	V-C 2.4402E+04 -14.80	0.000	1.000
144.2	0.000	0.000	Strato2_3095_82743_L_0					
76 D	29.25	2.4027E-05	291.3 146.2	291.3	146.2	V-C 2.4402E+04 -15.00	0.000	1.000
146.2	0.000	0.000	Strato2_3095_82743_L_0					
77 D	29.65	2.4105E-05	295.3 148.2	295.3	148.2	V-C 2.4402E+04 -15.20	0.000	1.000
148.2	0.000	0.000	Strato2_3095_82743_L_0					
78 D	30.05	2.4185E-05	299.3 150.2	299.3	150.2	V-C 2.4402E+04 -15.40	0.000	1.000
150.2	0.000	0.000	Strato2_3095_82743_L_0					
79 D	30.45	2.4266E-05	303.3 152.2	303.3	152.2	V-C 2.4402E+04 -15.60	0.000	1.000
152.2	0.000	0.000	Strato2_3095_82743_L_0					
80 D	30.85	2.4348E-05	307.3 154.2	307.3	154.2	V-C 2.4402E+04 -15.80	0.000	1.000
154.2	0.000	0.000	Strato2_3095_82743_L_0					
81 D	15.62	2.4430E-05	311.3 156.2	311.3	156.2	V-C 2.4402E+04 -16.00	0.000	1.000
156.2	0.000	0.000	Strato2_3095_82743_L_0					

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|           PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1MIR1_3484                       |
|                               Exe Time :29 July 2019      18:01:11                             |
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New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.35082	-0.35082	2.36700E-13	7.01632E-02
2	0.37577	-0.37577	-7.01632E-02	0.14532
3	0.29892	-0.29892	-0.14532	0.20510
4	0.18122	-0.18122	-0.20510	0.24135
5	9.59534E-02	-9.59534E-02	-0.24135	0.26054
6	3.30517E-02	-3.30517E-02	-0.26054	0.26715
7	-1.28623E-02	1.28623E-02	-0.26715	0.26457
8	-4.50320E-02	4.50320E-02	-0.26457	0.25557
9	-0.14753	0.14753	-0.25557	0.22606
10	-0.23078	0.23078	-0.22606	0.17991
11	-0.29770	0.29770	-0.17991	0.12037
12	-0.35040	0.35040	-0.12037	5.02874E-02
13	-0.39047	0.39047	-5.02874E-02	-2.78058E-02
14	-0.41911	0.41911	2.78058E-02	-0.11163
15	-0.43724	0.43724	0.11163	-0.19907

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 805 di 1221
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16-0.49084	0.49084	0.19907	-0.29724
17-0.53217	0.53217	0.29724	-0.40368
18-0.56190	0.56190	0.40368	-0.51606
19-0.58052	0.58052	0.51606	-0.63216
20-0.58834	0.58834	0.63216	-0.74983
21-0.58551	0.58551	0.74983	-0.86693
22-0.57204	0.57204	0.86693	-0.98134
23-0.54784	0.54784	0.98134	-1.0909
24-0.54255	0.54255	1.0909	-1.1994
25-0.52468	0.52468	1.1994	-1.3044
26-0.49389	0.49389	1.3044	-1.4031
27-0.44979	0.44979	1.4031	-1.4931
28-0.39187	0.39187	1.4931	-1.5715
29-0.31955	0.31955	1.5715	-1.6354
30-0.23217	0.23217	1.6354	-1.6818
31-0.15212	0.15212	1.6818	-1.7122
32-5.47657E-02	5.47657E-02	1.7122	-1.7232
33 6.06354E-02	-6.06354E-02	1.7232	-1.7111
34 0.19484	-0.19484	1.7111	-1.6721
35 0.34864	-0.34864	1.6721	-1.6024
36 0.52278	-0.52278	1.6024	-1.4978
37 0.71801	-0.71801	1.4978	-1.3542
38 0.93504	-0.93504	1.3542	-1.1672
39 1.1562	-1.1562	1.1672	-0.93596
40 1.4008	-1.4008	0.93596	-0.65580
41 1.6692	-1.6692	0.65580	-0.32195
42 1.9617	-1.9617	0.32195	7.03910E-02
43 2.2784	-2.2784	-7.03910E-02	0.52606
44 2.6190	-2.6190	-0.52606	1.0498
45 2.0958	-2.0958	-1.0498	1.4690
46 1.6168	-1.6168	-1.4690	1.7924
47 1.1945	-1.1945	-1.7924	2.0313
48 0.82628	-0.82628	-2.0313	2.1965
49 0.50889	-0.50889	-2.1965	2.2983
50 0.23897	-0.23897	-2.2983	2.3461
51 1.29861E-02	-1.29861E-02	-2.3461	2.3487
52-0.17269	0.17269	-2.3487	2.3142
53-0.32165	0.32165	-2.3142	2.2498
54-0.44990	0.44990	-2.2498	2.1598
55-0.54822	0.54822	-2.1598	2.0502
56-0.61994	0.61994	-2.0502	1.9262
57-0.66822	0.66822	-1.9262	1.7926
58-0.69603	0.69603	-1.7926	1.6534
59-0.70615	0.70615	-1.6534	1.5121
60-0.70113	0.70113	-1.5121	1.3719
61-0.69431	0.69431	-1.3719	1.2330
62-0.67661	0.67661	-1.2330	1.0977
63-0.64997	0.64997	-1.0977	0.96773
64-0.61609	0.61609	-0.96773	0.84451
65-0.57648	0.57648	-0.84451	0.72922
66-0.53248	0.53248	-0.72922	0.62272
67-0.48522	0.48522	-0.62272	0.52567
68-0.43570	0.43570	-0.52567	0.43853
69-0.39446	0.39446	-0.43853	0.35964
70-0.35235	0.35235	-0.35964	0.28917
71-0.30995	0.30995	-0.28917	0.22718
72-0.26773	0.26773	-0.22718	0.17364
73-0.22609	0.22609	-0.17364	0.12842
74-0.18531	0.18531	-0.12842	9.13562E-02
75-0.14564	0.14564	-9.13562E-02	6.22281E-02
76-0.11605	0.11605	-6.22281E-02	3.90174E-02
77-8.77415E-02	8.77415E-02	-3.90174E-02	2.14691E-02
78-6.07981E-02	6.07981E-02	-2.14691E-02	9.30948E-03
79-3.52885E-02	3.52885E-02	-9.30948E-03	2.25178E-03
80-1.12583E-02	1.12583E-02	-2.25178E-03	-3.55840E-13

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019    18:01:11                             |
|                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
806 di 1221

EL FORCE d0 EDISPL pl. eps K -ve limit +ve limit

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.4535E+05 RIMNOR= 225.0
RENORM= 953.1 REMNOR=0.2432E-22 RATIO =0.1450 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 30.87 RMMAX = 2.349
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
RDT =0.4535E+05 RDR = 225.0
RATIOT=0.1450 RATOR= 0.000
MAX UN= 7.413 IEQ= 37 NODE 19 DOF 1 Y-DISPL.F
MIN UN=-.1699E-10 IEQ= 45 NODE 23 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.4535E+05 RIMNOR= 225.0
RENORM= 89.03 REMNOR=0.1068E-19 RATIO =0.4431E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 30.87 RMMAX = 2.349
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
RDT =0.4535E+05 RDR = 225.0
RATIOT=0.4431E-01 RATOR= 0.000
MAX UN= 4.043 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
MIN UN=-.4401E-03 IEQ= 49 NODE 25 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM=0.4535E+05 RIMNOR= 225.0
RENORM= 71.92 REMNOR=0.5286E-19 RATIO =0.3983E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 30.87 RMMAX = 2.349
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
RDT =0.4535E+05 RDR = 225.0
RATIOT=0.3983E-01 RATOR= 0.000
MAX UN= 4.857 IEQ= 35 NODE 18 DOF 1 Y-DISPL.F
MIN UN=-.2192E-08 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
RINORM=0.4535E+05 RIMNOR= 225.0
RENORM= 8.964 REMNOR=0.2134E-19 RATIO =0.1406E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 30.87 RMMAX = 2.349
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
RDT =0.4535E+05 RDR = 225.0
RATIOT=0.1406E-01 RATOR= 0.000
MAX UN= 2.318 IEQ= 51 NODE 26 DOF 1 Y-DISPL.F
MIN UN=-.1583E-08 IEQ= 29 NODE 15 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
RINORM=0.4535E+05 RIMNOR= 225.0
RENORM=0.1373E-01 REMNOR=0.3686E-19 RATIO =0.5502E-03 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 30.87 RMMAX = 2.349
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
RDT =0.4535E+05 RDR = 225.0
RATIOT=0.5502E-03 RATOR= 0.000
MAX UN=0.1172 IEQ= 59 NODE 30 DOF 1 Y-DISPL.F
MIN UN=-.9999E-09 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
RINORM=0.4535E+05 RIMNOR= 225.0
RENORM=0.1182E-16 REMNOR=0.3265E-19 RATIO =0.1615E-10 TOLER =0.1000E-03 CONVERGED !
RFMAX = 30.87 RMMAX = 2.349
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
RDT =0.4535E+05 RDR = 225.0
RATIOT=0.1615E-10 RATOR= 0.000
MAX UN=0.1511E-08 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
MIN UN=-.1890E-08 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 807 di 1221
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| Exe Time :29 July 2019 18:01:11 |

New Project
SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)
1	6.0928634E-03	-9.1988121E-04
2	5.9088877E-03	-9.1987288E-04
3	5.7249163E-03	-9.1983349E-04
4	5.5409588E-03	-9.1972708E-04
5	5.3570332E-03	-9.1950445E-04
6	5.1731688E-03	-9.1910439E-04
7	4.9894081E-03	-9.1845413E-04
8	4.8058094E-03	-9.1746956E-04
9	4.6224489E-03	-9.1605532E-04
10	4.4394230E-03	-9.1410601E-04
11	4.2568499E-03	-9.1150610E-04
12	4.0748724E-03	-9.0812873E-04
13	3.8936595E-03	-9.0383582E-04
14	3.7134090E-03	-8.9847806E-04
15	3.5343499E-03	-8.9189500E-04
16	3.3567442E-03	-8.8391505E-04
17	3.1808892E-03	-8.7435611E-04
18	3.0071198E-03	-8.6302558E-04
19	2.8358106E-03	-8.4971970E-04
20	2.6673780E-03	-8.3422357E-04
21	2.5022798E-03	-8.1634765E-04
22	2.3410036E-03	-7.9600064E-04
23	2.1840414E-03	-7.7322600E-04
24	2.0318639E-03	-7.4820205E-04
25	1.8848945E-03	-7.2118190E-04
26	1.7435068E-03	-6.9242752E-04
27	1.6080215E-03	-6.6220222E-04
28	1.4787063E-03	-6.3077101E-04
29	1.3557763E-03	-5.9840109E-04
30	1.2393911E-03	-5.6536145E-04
31	1.1296582E-03	-5.3192416E-04
32	1.0266304E-03	-4.9835254E-04
33	9.3031012E-04	-4.6488728E-04
34	8.4065402E-04	-4.3174446E-04
35	7.5757837E-04	-3.9911730E-04
36	6.8096172E-04	-3.6717712E-04
37	6.1065160E-04	-3.3607585E-04
38	5.4646656E-04	-3.0594692E-04
39	4.8820023E-04	-2.7690690E-04
40	4.3562468E-04	-2.4905749E-04
41	3.8849228E-04	-2.2248637E-04
42	3.4653989E-04	-1.9726892E-04
43	3.0949022E-04	-1.7346893E-04
44	2.7705425E-04	-1.5113994E-04
45	2.4893334E-04	-1.3032654E-04
46	2.2482100E-04	-1.1105489E-04
47	2.0440844E-04	-9.3327352E-05
48	1.8738825E-04	-7.7126953E-05
49	1.7345809E-04	-6.2420129E-05
50	1.6232383E-04	-4.9159612E-05
51	1.5370179E-04	-3.7286723E-05
52	1.4732123E-04	-2.6734275E-05
53	1.4292517E-04	-1.7427571E-05
54	1.4027242E-04	-9.2875899E-06
55	1.3913784E-04	-2.2320607E-06
56	1.3931289E-04	3.8228730E-06
57	1.4060591E-04	8.9616944E-06
58	1.4284209E-04	1.3268426E-05
59	1.4586332E-04	1.6825700E-05
60	1.4952777E-04	1.9713979E-05
61	1.5370948E-04	2.2010899E-05
62	1.5829765E-04	2.3790482E-05
63	1.6319585E-04	2.5122706E-05
64	1.6832129E-04	2.6073440E-05
65	1.7360390E-04	2.6704185E-05
66	1.7898543E-04	2.7071886E-05
67	1.8441860E-04	2.7228802E-05
68	1.8986607E-04	2.7224266E-05
69	1.9529953E-04	2.7095444E-05
70	2.0069871E-04	2.6885489E-05
71	2.0605037E-04	2.6625163E-05
72	2.1134728E-04	2.6342296E-05
73	2.1658732E-04	2.6059984E-05
74	2.2177253E-04	2.5796637E-05



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 808 di 1221
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75	2.2690816E-04	2.5566025E-05
76	2.3200174E-04	2.5377321E-05
77	2.3706218E-04	2.5234935E-05
78	2.4209878E-04	2.5138546E-05
79	2.4712034E-04	2.5083349E-05
80	2.5213425E-04	2.5060065E-05
81	2.5714583E-04	2.5054964E-05

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.AlMIR1_3484
|          Exe Time :29 July 2019      18:01:11
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.3508	-6.0929E-03	11.54	3.508	11.54	6.116	ACTIVE	0.000	0.000	0.000	1.000	1.000
3.508	0.000	0.000	Strato1_2_8_L_0									
2 D	0.6070	-5.9089E-03	9.984	3.035	9.984	5.292	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
3.035	0.000	0.000	Strato1_2_8_L_0									
3 D	0.9069	-5.7249E-03	14.92	4.534	14.92	7.906	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
4.534	0.000	0.000	Strato1_2_8_L_0									
4 D	1.166	-5.5410E-03	19.18	5.830	19.18	10.16	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
5.830	0.000	0.000	Strato1_2_8_L_0									
5 D	1.412	-5.3570E-03	23.23	7.061	23.23	12.31	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
7.061	0.000	0.000	Strato1_2_8_L_0									
6 D	1.653	-5.1732E-03	27.18	8.264	27.18	14.41	ACTIVE	0.000	-1.000	0.000	1.000	1.000
8.264	0.000	0.000	Strato1_2_8_L_0									
7 D	1.890	-4.9894E-03	31.09	9.452	31.09	16.48	ACTIVE	0.000	-1.200	0.000	1.000	1.000
9.452	0.000	0.000	Strato1_2_8_L_0									
8 D	2.126	-4.8058E-03	34.97	10.63	34.97	18.53	ACTIVE	0.000	-1.400	0.000	1.000	1.000
10.63	0.000	0.000	Strato1_2_8_L_0									
9 D	2.314	-4.6224E-03	38.06	11.57	38.06	20.17	ACTIVE	0.000	-1.600	0.000	1.000	1.000
11.57	0.000	0.000	Strato1_2_8_L_0									
10 D	2.553	-4.4394E-03	41.99	12.76	41.99	22.25	ACTIVE	0.000	-1.800	0.000	1.000	1.000
12.76	0.000	0.000	Strato1_2_8_L_0									
11 D	2.790	-4.2568E-03	45.89	13.95	45.89	24.32	ACTIVE	0.000	-2.000	0.000	1.000	1.000
13.95	0.000	0.000	Strato1_2_8_L_0									
12 D	3.027	-4.0749E-03	49.78	15.13	49.78	26.38	ACTIVE	0.000	-2.200	0.000	1.000	1.000
15.13	0.000	0.000	Strato1_2_8_L_0									
13 D	3.262	-3.8937E-03	53.65	16.31	53.65	28.44	ACTIVE	0.000	-2.400	0.000	1.000	1.000
16.31	0.000	0.000	Strato1_2_8_L_0									
14 D	3.497	-3.7134E-03	57.51	17.48	57.51	30.48	ACTIVE	0.000	-2.600	0.000	1.000	1.000
17.48	0.000	0.000	Strato1_2_8_L_0									
15 D	3.731	-3.5343E-03	61.37	18.66	61.37	32.52	ACTIVE	0.000	-2.800	0.000	1.000	1.000
18.66	0.000	0.000	Strato1_2_8_L_0									
16 D	3.939	-3.3567E-03	64.79	19.69	64.79	34.34	ACTIVE	0.000	-3.000	0.000	1.000	1.000
19.69	0.000	0.000	Strato1_2_8_L_0									
17 D	4.174	-3.1809E-03	68.65	20.87	68.65	36.39	ACTIVE	0.000	-3.200	0.000	1.000	1.000
20.87	0.000	0.000	Strato1_2_8_L_0									
18 D	4.409	-3.0071E-03	72.51	22.04	72.51	38.43	ACTIVE	0.000	-3.400	0.000	1.000	1.000
22.04	0.000	0.000	Strato1_2_8_L_0									
19 D	4.643	-2.8358E-03	76.37	23.22	76.37	40.47	ACTIVE	0.000	-3.600	0.000	1.000	1.000
23.22	0.000	0.000	Strato1_2_8_L_0									
20 D	4.877	-2.6674E-03	80.21	24.38	80.21	42.51	ACTIVE	0.000	-3.800	0.000	1.000	1.000
24.38	0.000	0.000	Strato1_2_8_L_0									
21 D	5.111	-2.5023E-03	84.06	25.55	84.06	44.55	ACTIVE	0.000	-4.000	0.000	1.000	1.000
25.55	0.000	0.000	Strato1_2_8_L_0									
22 D	5.344	-2.3410E-03	87.89	26.72	87.89	46.58	ACTIVE	0.000	-4.200	0.000	1.000	1.000
26.72	0.000	0.000	Strato1_2_8_L_0									
23 D	5.577	-2.1840E-03	91.73	27.89	91.73	48.62	ACTIVE	0.000	-4.400	0.000	1.000	1.000
27.89	0.000	0.000	Strato1_2_8_L_0									
24 D	5.793	-2.0319E-03	95.28	28.96	95.28	50.50	ACTIVE	0.000	-4.600	0.000	1.000	1.000
28.96	0.000	0.000	Strato1_2_8_L_0									
25 D	6.027	-1.8849E-03	99.12	30.13	99.12	52.53	ACTIVE	0.000	-4.800	0.000	1.000	1.000
30.13	0.000	0.000	Strato1_2_8_L_0									
26 D	6.260	-1.7435E-03	103.0	31.30	103.0	54.57	ACTIVE	0.000	-5.000	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 810 di 1221							
69 D	24.48	-1.9530E-04	271.3	122.4	271.3	135.6	UL-RL	5.8408E+04	-13.60	0.000	1.000	1.000
122.4	0.000	0.000	Strato2_3095_82743_L_0									
70 D	24.82	-2.0070E-04	275.3	124.1	275.3	137.6	UL-RL	5.8408E+04	-13.80	0.000	1.000	1.000
124.1	0.000	0.000	Strato2_3095_82743_L_0									
71 D	25.16	-2.0605E-04	279.3	125.8	279.3	139.6	UL-RL	5.8408E+04	-14.00	0.000	1.000	1.000
125.8	0.000	0.000	Strato2_3095_82743_L_0									
72 D	25.50	-2.1135E-04	283.3	127.5	283.3	141.6	UL-RL	5.8408E+04	-14.20	0.000	1.000	1.000
127.5	0.000	0.000	Strato2_3095_82743_L_0									
73 D	25.84	-2.1659E-04	287.3	129.2	287.3	143.7	UL-RL	5.8408E+04	-14.40	0.000	1.000	1.000
129.2	0.000	0.000	Strato2_3095_82743_L_0									
74 D	26.18	-2.2177E-04	291.3	130.9	291.3	145.7	UL-RL	5.8408E+04	-14.60	0.000	1.000	1.000
130.9	0.000	0.000	Strato2_3095_82743_L_0									
75 D	26.52	-2.2691E-04	295.3	132.6	295.3	147.7	UL-RL	5.8408E+04	-14.80	0.000	1.000	1.000
132.6	0.000	0.000	Strato2_3095_82743_L_0									
76 D	26.85	-2.3200E-04	299.3	134.2	299.3	149.6	UL-RL	5.8408E+04	-15.00	0.000	1.000	1.000
134.2	0.000	0.000	Strato2_3095_82743_L_0									
77 D	27.19	-2.3706E-04	303.3	135.9	303.3	151.6	UL-RL	5.8408E+04	-15.20	0.000	1.000	1.000
135.9	0.000	0.000	Strato2_3095_82743_L_0									
78 D	27.53	-2.4210E-04	307.3	137.6	307.3	153.6	UL-RL	5.8408E+04	-15.40	0.000	1.000	1.000
137.6	0.000	0.000	Strato2_3095_82743_L_0									
79 D	27.87	-2.4712E-04	311.3	139.4	311.3	155.6	UL-RL	5.8408E+04	-15.60	0.000	1.000	1.000
139.4	0.000	0.000	Strato2_3095_82743_L_0									
80 D	28.21	-2.5213E-04	315.3	141.1	315.3	157.7	UL-RL	5.8408E+04	-15.80	0.000	1.000	1.000
141.1	0.000	0.000	Strato2_3095_82743_L_0									
81 D	14.28	-2.5715E-04	319.3	142.8	319.3	159.7	UL-RL	5.8408E+04	-16.00	0.000	1.000	1.000
142.8	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  18:01:11  |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
CURRENT TIME IS 3.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
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	not available									

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 811 di 1221						
17	0.000	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
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	not available								
19	0.000	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
0.000	0.000	0.000	not available								
20 D	1.536	2.6674E-03	1.900 7.678	72.20	39.07	PASSIVE	0.000	-3.800	0.000	1.000	1.000
7.678	0.000	0.000	Strato1_2_8_L_0								
21 D	4.607	2.5023E-03	5.700 23.03	76.00	41.08	PASSIVE	0.000	-4.000	0.000	1.000	1.000
23.03	0.000	0.000	Strato1_2_8_L_0								
22 D	7.678	2.3410E-03	9.500 38.39	79.80	43.09	PASSIVE	0.000	-4.200	0.000	1.000	1.000
38.39	0.000	0.000	Strato1_2_8_L_0								
23 D	10.75	2.1840E-03	13.30 53.75	83.60	53.75	PASSIVE	0.000	-4.400	0.000	1.000	1.000
53.75	0.000	0.000	Strato1_2_8_L_0								
24 D	11.29	2.0319E-03	17.10 56.47	87.40	56.47	V-C	4776.	-4.600	0.000	1.000	1.000
56.47	0.000	0.000	Strato1_2_8_L_0								
25 D	11.56	1.8849E-03	20.90 57.78	91.20	57.78	V-C	4776.	-4.800	0.000	1.000	1.000
57.78	0.000	0.000	Strato1_2_8_L_0								
26 D	11.82	1.7435E-03	24.70 59.11	95.00	59.11	V-C	4776.	-5.000	0.000	1.000	1.000
59.11	0.000	0.000	Strato1_2_8_L_0								
27 D	12.09	1.6080E-03	28.50 60.47	98.80	60.47	V-C	4776.	-5.200	0.000	1.000	1.000
60.47	0.000	0.000	Strato1_2_8_L_0								
28 D	12.37	1.4787E-03	32.30 61.86	102.6	61.86	V-C	4776.	-5.400	0.000	1.000	1.000
61.86	0.000	0.000	Strato1_2_8_L_0								
29 D	12.66	1.3558E-03	36.10 63.28	106.4	63.28	V-C	4776.	-5.600	0.000	1.000	1.000
63.28	0.000	0.000	Strato1_2_8_L_0								
30 D	12.95	1.2394E-03	39.90 64.74	110.2	64.74	V-C	4776.	-5.800	0.000	1.000	1.000
64.74	0.000	0.000	Strato1_2_8_L_0								
31 D	13.24	1.1297E-03	43.70 66.22	114.0	66.22	V-C	4776.	-6.000	0.000	1.000	1.000
66.22	0.000	0.000	Strato1_2_8_L_0								
32 D	13.55	1.0266E-03	47.50 67.73	117.8	67.73	V-C	4776.	-6.200	0.000	1.000	1.000
67.73	0.000	0.000	Strato1_2_8_L_0								
33 D	13.86	9.3031E-04	51.30 69.28	121.6	69.28	V-C	4776.	-6.400	0.000	1.000	1.000
69.28	0.000	0.000	Strato1_2_8_L_0								
34 D	14.17	8.4065E-04	55.10 70.86	125.4	70.86	V-C	4776.	-6.600	0.000	1.000	1.000
70.86	0.000	0.000	Strato1_2_8_L_0								
35 D	14.49	7.5758E-04	58.90 72.46	129.2	72.46	V-C	4776.	-6.800	0.000	1.000	1.000
72.46	0.000	0.000	Strato1_2_8_L_0								
36 D	14.82	6.8096E-04	62.70 74.10	133.0	74.10	V-C	4776.	-7.000	0.000	1.000	1.000
74.10	0.000	0.000	Strato1_2_8_L_0								
37 D	15.15	6.1065E-04	66.50 75.77	136.8	75.77	V-C	4776.	-7.200	0.000	1.000	1.000
75.77	0.000	0.000	Strato1_2_8_L_0								
38 D	15.49	5.4647E-04	70.30 77.47	140.6	77.47	V-C	4776.	-7.400	0.000	1.000	1.000
77.47	0.000	0.000	Strato1_2_8_L_0								
39 D	15.84	4.8820E-04	74.10 79.19	144.4	79.19	V-C	4776.	-7.600	0.000	1.000	1.000
79.19	0.000	0.000	Strato1_2_8_L_0								
40 D	16.19	4.3562E-04	77.90 80.95	148.2	80.95	V-C	4776.	-7.800	0.000	1.000	1.000
80.95	0.000	0.000	Strato1_2_8_L_0								
41 D	16.54	3.8849E-04	81.70 82.72	152.0	82.72	V-C	4776.	-8.000	0.000	1.000	1.000
82.72	0.000	0.000	Strato1_2_8_L_0								
42 D	16.91	3.4654E-04	85.50 84.53	155.8	84.53	V-C	4776.	-8.200	0.000	1.000	1.000
84.53	0.000	0.000	Strato1_2_8_L_0								
43 D	17.27	3.0949E-04	89.30 86.35	159.6	86.35	V-C	4776.	-8.400	0.000	1.000	1.000
86.35	0.000	0.000	Strato1_2_8_L_0								
44 D	17.64	2.7705E-04	93.10 88.20	163.4	88.20	V-C	4776.	-8.600	0.000	1.000	1.000
88.20	0.000	0.000	Strato1_2_8_L_0								
45 D	14.25	2.4893E-04	97.00 71.26	167.3	84.67	UL-RL	3.1656E+04	-8.800	0.000	1.000	1.000
71.26	0.000	0.000	Strato2_3095_82743_L_0								
46 D	14.52	2.2482E-04	101.0 72.59	171.3	86.63	UL-RL	3.1656E+04	-9.000	0.000	1.000	1.000
72.59	0.000	0.000	Strato2_3095_82743_L_0								
47 D	14.80	2.0441E-04	105.0 74.02	175.3	88.59	UL-RL	3.1656E+04	-9.200	0.000	1.000	1.000
74.02	0.000	0.000	Strato2_3095_82743_L_0								
48 D	15.11	1.8739E-04	109.0 75.56	179.3	90.54	UL-RL	3.1656E+04	-9.400	0.000	1.000	1.000
75.56	0.000	0.000	Strato2_3095_82743_L_0								
49 D	15.44	1.7346E-04	113.0 77.19	183.3	92.51	UL-RL	3.1656E+04	-9.600	0.000	1.000	1.000
77.19	0.000	0.000	Strato2_3095_82743_L_0								
50 D	15.78	1.6232E-04	117.0 78.91	187.3	94.47	UL-RL	3.1656E+04	-9.800	0.000	1.000	1.000
78.91	0.000	0.000	Strato2_3095_82743_L_0								
51 D	16.14	1.5370E-04	121.0 80.70	191.3	96.44	UL-RL	3.1656E+04	-10.00	0.000	1.000	1.000
80.70	0.000	0.000	Strato2_3095_82743_L_0								
52 D	16.51	1.4732E-04	125.0 82.56	195.3	98.41	UL-RL	3.1656E+04	-10.20	0.000	1.000	1.000
82.56	0.000	0.000	Strato2_3095_82743_L_0								
53 D	16.90	1.4293E-04	129.0 84.48	199.3	100.4	UL-RL	3.1656E+04	-10.40	0.000	1.000	1.000
84.48	0.000	0.000	Strato2_3095_82743_L_0								
54 D	17.29	1.4027E-04	133.0 86.45	203.3	102.4	UL-RL	3.1656E+04	-10.60	0.000	1.000	1.000
86.45	0.000	0.000	Strato2_3095_82743_L_0								
55 D	17.69	1.3914E-04	137.0 88.46	207.3	104.3	UL-RL	3.1656E+04	-10.80	0.000	1.000	1.000
88.46	0.000	0.000	Strato2_3095_82743_L_0								
56 D	18.10	1.3931E-04	141.0 90.51	211.3	106.3	UL-RL	3.1656E+04	-11.00	0.000	1.000	1.000
90.51	0.000	0.000	Strato2_3095_82743_L_0								
57 D	18.52	1.4061E-04	145.0 92.60	215.3	108.3	UL-RL	3.1656E+04	-11.20	0.000	1.000	1.000
92.60	0.000	0.000	Strato2_3095_82743_L_0								
58 D	18.94	1.4284E-04	149.0 94.71	219.3	110.3	UL-RL	3.1656E+04	-11.40	0.000	1.000	1.000
94.71	0.000	0.000	Strato2_3095_82743_L_0								
59 D	19.37	1.4586E-04	153.0 96.85	223.3	112.3	UL-RL	3.1656E+04	-11.60	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 812 di 1221
96.85	0.000	0.000	Strato2_3095_82743_L_0		
60 D	19.80	1.4953E-04	157.0 99.01	227.3	114.3
99.01	0.000	0.000	Strato2_3095_82743_L_0		
61 D	20.23	1.5371E-04	161.0 101.2	231.3	116.3
101.2	0.000	0.000	Strato2_3095_82743_L_0		
62 D	20.67	1.5830E-04	165.0 103.4	235.3	118.2
103.4	0.000	0.000	Strato2_3095_82743_L_0		
63 D	21.11	1.6320E-04	169.0 105.5	239.3	120.2
105.5	0.000	0.000	Strato2_3095_82743_L_0		
64 D	21.55	1.6832E-04	173.0 107.7	243.3	122.2
107.7	0.000	0.000	Strato2_3095_82743_L_0		
65 D	21.99	1.7360E-04	177.0 109.9	247.3	124.2
109.9	0.000	0.000	Strato2_3095_82743_L_0		
66 D	22.43	1.7899E-04	181.0 112.1	251.3	126.2
112.1	0.000	0.000	Strato2_3095_82743_L_0		
67 D	22.87	1.8442E-04	185.0 114.3	255.3	128.2
114.3	0.000	0.000	Strato2_3095_82743_L_0		
68 D	23.31	1.8987E-04	189.0 116.5	259.3	130.2
116.5	0.000	0.000	Strato2_3095_82743_L_0		
69 D	23.74	1.9530E-04	193.0 118.7	263.3	132.2
118.7	0.000	0.000	Strato2_3095_82743_L_0		
70 D	24.18	2.0070E-04	197.0 120.9	267.3	134.2
120.9	0.000	0.000	Strato2_3095_82743_L_0		
71 D	24.62	2.0605E-04	201.0 123.1	271.3	136.2
123.1	0.000	0.000	Strato2_3095_82743_L_0		
72 D	25.06	2.1135E-04	205.0 125.3	275.3	138.2
125.3	0.000	0.000	Strato2_3095_82743_L_0		
73 D	25.50	2.1659E-04	209.0 127.5	279.3	140.2
127.5	0.000	0.000	Strato2_3095_82743_L_0		
74 D	25.93	2.2177E-04	213.0 129.7	283.3	142.2
129.7	0.000	0.000	Strato2_3095_82743_L_0		
75 D	26.37	2.2691E-04	217.0 131.9	287.3	144.2
131.9	0.000	0.000	Strato2_3095_82743_L_0		
76 D	26.81	2.3200E-04	221.0 134.0	291.3	146.2
134.0	0.000	0.000	Strato2_3095_82743_L_0		
77 D	27.24	2.3706E-04	225.0 136.2	295.3	148.2
136.2	0.000	0.000	Strato2_3095_82743_L_0		
78 D	27.68	2.4210E-04	229.0 138.4	299.3	150.2
138.4	0.000	0.000	Strato2_3095_82743_L_0		
79 D	28.11	2.4712E-04	233.0 140.6	303.3	152.2
140.6	0.000	0.000	Strato2_3095_82743_L_0		
80 D	28.55	2.5213E-04	237.0 142.7	307.3	154.2
142.7	0.000	0.000	Strato2_3095_82743_L_0		
81 D	14.49	2.5715E-04	241.0 144.9	311.3	156.2
144.9	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|          NewProject.BaseDesignSection_28.A1MIRI_3484          |
|          Exe Time :29 July 2019          18:01:11          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
 CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.35082	-0.35082	-2.17004E-11	7.01632E-02
2	0.95786	-0.95786	-7.01632E-02	0.26174
3	1.8648	-1.8648	-0.26174	0.63469
4	3.0308	-3.0308	-0.63469	1.2408
5	4.4431	-4.4431	-1.2408	2.1295
6	6.0959	-6.0959	-2.1295	3.3486
7	7.9863	-7.9863	-3.3486	4.9459
8	10.112	-10.112	-4.9459	6.9684
9	12.426	-12.426	-6.9684	9.4536
10	14.979	-14.979	-9.4536	12.449
11	17.769	-17.769	-12.449	16.003
12	20.796	-20.796	-16.003	20.162
13	24.058	-24.058	-20.162	24.974
14	27.555	-27.555	-24.974	30.485
15	31.286	-31.286	-30.485	36.742
16	35.225	-35.225	-36.742	43.787
17	39.399	-39.399	-43.787	51.667

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 813 di 1221
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18	43.808	-43.808	-51.667	60.429
19	48.451	-48.451	-60.429	70.119
20	51.792	-51.792	-70.119	80.477
21	52.296	-52.296	-80.477	90.936
22	49.962	-49.962	-90.936	100.93
23	44.790	-44.790	-100.93	109.89
24	39.289	-39.289	-109.89	117.74
25	33.761	-33.761	-117.74	124.50
26	28.199	-28.199	-124.50	130.14
27	22.597	-22.597	-130.14	134.66
28	16.951	-16.951	-134.66	138.05
29	11.253	-11.253	-138.05	140.30
30	5.4974	-5.4974	-140.30	141.40
31	0.16074	-0.16074	-141.40	141.43
32	-4.6408	4.6408	-141.43	140.50
33	-8.9410	8.9410	-140.50	138.71
34	-12.773	12.773	-138.71	136.16
35	-16.171	16.171	-136.16	132.92
36	-19.166	19.166	-132.92	129.09
37	-21.791	21.791	-129.09	124.73
38	-24.076	24.076	-124.73	119.92
39	-26.070	26.070	-119.92	114.70
40	-27.781	27.781	-114.70	109.15
41	-29.239	29.239	-109.15	103.30
42	-30.468	30.468	-103.30	97.205
43	-31.495	31.495	-97.205	90.906
44	-32.341	32.341	-90.906	84.438
45	-32.605	32.605	-84.438	77.917
46	-32.437	32.437	-77.917	71.429
47	-31.890	31.890	-71.429	65.051
48	-31.024	31.024	-65.051	58.847
49	-29.896	29.896	-58.847	52.867
50	-28.557	28.557	-52.867	47.156
51	-27.055	27.055	-47.156	41.745
52	-25.429	25.429	-41.745	36.659
53	-23.717	23.717	-36.659	31.916
54	-21.963	21.963	-31.916	27.523
55	-20.184	20.184	-27.523	23.486
56	-18.405	18.405	-23.486	19.806
57	-16.645	16.645	-19.806	16.477
58	-14.924	14.924	-16.477	13.492
59	-13.256	13.256	-13.492	10.841
60	-11.654	11.654	-10.841	8.5099
61	-10.138	10.138	-8.5099	6.4823
62	-8.7059	8.7059	-6.4823	4.7411
63	-7.3634	7.3634	-4.7411	3.2684
64	-6.1153	6.1153	-3.2684	2.0453
65	-4.9648	4.9648	-2.0453	1.0524
66	-3.9140	3.9140	-1.0524	0.26957
67	-2.9643	2.9643	-0.26957	-0.32328
68	-2.1160	2.1160	0.32328	-0.74649
69	-1.3790	1.3790	0.74649	-1.0223
70	-0.74279	0.74279	1.0223	-1.1708
71	-0.20673	0.20673	1.1708	-1.2122
72	0.23012	-0.23012	1.2122	-1.1662
73	0.56875	-0.56875	1.1662	-1.0524
74	0.81012	-0.81012	1.0524	-0.89038
75	0.95516	-0.95516	0.89038	-0.69935
76	0.99583	-0.99583	0.69935	-0.50019
77	0.94173	-0.94173	0.50019	-0.31184
78	0.79333	-0.79333	0.31184	-0.15317
79	0.55098	-0.55098	0.15317	-4.29769E-02
80	0.21487	-0.21487	4.29769E-02	-4.92469E-12

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|          NewProject.BaseDesignSection_28.A1M1R1_3484                                                                                   |
|          Exe Time :29 July 2019          18:01:11                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 4

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Tirantel_429          :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
CURRENT TIME IS      3.0000

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POST-TENSION 2D-BOUNDARY ELEMENT

EL FORCE d0 EDISPL pl. eps K -ve limit +ve limit

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 814 di 1221
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1355E+06 RIMNOR=0.8201E+06
            RENORM= 8234.      REMNOR=0.3265E-19 RATIO =0.2465      TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 90.74      RMMAX = 141.4
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1355E+06 RDR =0.8201E+06
            RATIOT=0.2465      RATOR= 0.000
            MAX UN=0.1511E-08 IEQ= 9 NODE      5 DOF 1 Y-DISPL.F
            MIN UN=-90.74      IEQ= 33 NODE    17 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1355E+06 RIMNOR=0.8201E+06
            RENORM= 8.804      REMNOR=0.4007E-19 RATIO =0.8061E-02 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 90.74      RMMAX = 141.4
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1355E+06 RDR =0.8201E+06
            RATIOT=0.8061E-02 RATOR= 0.000
            MAX UN=0.9660E-09 IEQ= 31 NODE     16 DOF 1 Y-DISPL.F
            MIN UN=-1.381      IEQ= 3 NODE     2 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER      3  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1355E+06 RIMNOR=0.8201E+06
            RENORM=0.2909      REMNOR=0.2753E-19 RATIO =0.1465E-02 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 90.74      RMMAX = 141.4
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1355E+06 RDR =0.8201E+06
            RATIOT=0.1465E-02 RATOR= 0.000
            MAX UN=0.1702E-08 IEQ= 5 NODE      3 DOF 1 Y-DISPL.F
            MIN UN=-.4490      IEQ= 27 NODE    14 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1355E+06 RIMNOR=0.8201E+06
            RENORM=0.1113E-16 REMNOR=0.2714E-19 RATIO =0.9064E-11 TOLER =0.1000E-03 CONVERGED !
            RFMAX = 90.74      RMMAX = 141.4
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1355E+06 RDR =0.8201E+06
            RATIOT=0.9064E-11 RATOR= 0.000
            MAX UN=0.1428E-08 IEQ= 7 NODE      4 DOF 1 Y-DISPL.F
            MIN UN=-.1838E-08 IEQ= 9 NODE      5 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
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Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
815 di 1221

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|          PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017*   |
|                                                                    |
|          NewProject.BaseDesignSection_28.A1M1R1_3484      |
|                                                                    |
|          Exe Time :29 July 2019       18:01:11            |
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New Project
SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 4 (AT TIME 4.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	5.0939816E-03	-8.5317114E-04	
2	4.9233493E-03	-8.5314237E-04	
3	4.7527321E-03	-8.5300228E-04	
4	4.5821637E-03	-8.5263315E-04	
5	4.4117032E-03	-8.5189827E-04	
6	4.2414390E-03	-8.5064387E-04	
7	4.0714917E-03	-8.4869980E-04	
8	3.9020175E-03	-8.4587979E-04	
9	3.7332116E-03	-8.4198171E-04	
10	3.5653111E-03	-8.3678932E-04	
11	3.3985976E-03	-8.3007220E-04	
12	3.2334003E-03	-8.2158404E-04	
13	3.0700995E-03	-8.1106274E-04	
14	2.9091293E-03	-7.9823061E-04	
15	2.7509808E-03	-7.8279448E-04	
16	2.5962056E-03	-7.6444581E-04	
17	2.4454182E-03	-7.4286183E-04	
18	2.2991554E-03	-7.1986079E-04	
19	2.1574478E-03	-6.9725159E-04	
20	2.0202520E-03	-6.7468345E-04	
21	1.8875952E-03	-6.5180315E-04	
22	1.7595709E-03	-6.2832016E-04	
23	1.6363177E-03	-6.0407932E-04	
24	1.5179909E-03	-5.7907141E-04	
25	1.4047357E-03	-5.5337328E-04	
26	1.2966812E-03	-5.2708180E-04	
27	1.1939352E-03	-5.0030635E-04	
28	1.0965828E-03	-4.7316898E-04	
29	1.0046832E-03	-4.4580463E-04	
30	9.1826667E-04	-4.1836059E-04	
31	8.3733362E-04	-3.9099726E-04	
32	7.6185162E-04	-3.6387611E-04	
33	6.9175716E-04	-3.3714529E-04	
34	6.2695865E-04	-3.1093730E-04	
35	5.6733980E-04	-2.8537024E-04	
36	5.1276118E-04	-2.6054840E-04	
37	4.6306460E-04	-2.3656417E-04	
38	4.1807427E-04	-2.1349853E-04	
39	3.7759923E-04	-1.9142221E-04	
40	3.4143548E-04	-1.7039719E-04	
41	3.0936687E-04	-1.5047722E-04	
42	2.8116781E-04	-1.3170887E-04	
43	2.5660390E-04	-1.1413191E-04	
44	2.3543336E-04	-9.7780264E-05	
45	2.1740827E-04	-8.2682787E-05	
46	2.0227634E-04	-6.8845300E-05	
47	1.8978753E-04	-5.6247033E-05	
48	1.7969711E-04	-4.4855103E-05	
49	1.7176794E-04	-3.4626411E-05	
50	1.6577244E-04	-2.5509655E-05	
51	1.6149384E-04	-1.7446951E-05	
52	1.5872761E-04	-1.0375831E-05	
53	1.5728189E-04	-4.2299458E-06	
54	1.5697848E-04	1.0587808E-06	
55	1.5765286E-04	5.5593362E-06	
56	1.5915426E-04	9.3405155E-06	
57	1.6134564E-04	1.2470399E-05	
58	1.6410344E-04	1.5015657E-05	
59	1.6731724E-04	1.7040959E-05	
60	1.7088931E-04	1.8608502E-05	
61	1.7473408E-04	1.9777614E-05	
62	1.7877752E-04	2.0604188E-05	
63	1.8295640E-04	2.1140457E-05	
64	1.8721759E-04	2.1435081E-05	
65	1.9151732E-04	2.1533030E-05	
66	1.9582044E-04	2.1475508E-05	
67	2.0009965E-04	2.1299914E-05	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 817 di 1221							
23 D	7.839	-1.6363E-03	91.73	39.19	91.73	48.62	UL-RL	2.0647E+04	-4.400	0.000	1.000	1.000
39.19	0.000	0.000	Strato1_2_8_L_0									
24 D	7.915	-1.5180E-03	95.28	39.57	95.28	50.50	UL-RL	2.0647E+04	-4.600	0.000	1.000	1.000
39.57	0.000	0.000	Strato1_2_8_L_0									
25 D	8.009	-1.4047E-03	99.12	40.05	99.12	52.53	UL-RL	2.0647E+04	-4.800	0.000	1.000	1.000
40.05	0.000	0.000	Strato1_2_8_L_0									
26 D	8.105	-1.2967E-03	103.0	40.53	103.0	54.57	UL-RL	2.0647E+04	-5.000	0.000	1.000	1.000
40.53	0.000	0.000	Strato1_2_8_L_0									
27 D	8.203	-1.1939E-03	106.8	41.02	106.8	56.60	UL-RL	2.0647E+04	-5.200	0.000	1.000	1.000
41.02	0.000	0.000	Strato1_2_8_L_0									
28 D	8.304	-1.0966E-03	110.6	41.52	110.6	58.63	UL-RL	2.0647E+04	-5.400	0.000	1.000	1.000
41.52	0.000	0.000	Strato1_2_8_L_0									
29 D	8.409	-1.0047E-03	114.5	42.04	114.5	60.66	UL-RL	2.0647E+04	-5.600	0.000	1.000	1.000
42.04	0.000	0.000	Strato1_2_8_L_0									
30 D	8.518	-9.1827E-04	118.3	42.59	118.3	62.69	UL-RL	2.0647E+04	-5.800	0.000	1.000	1.000
42.59	0.000	0.000	Strato1_2_8_L_0									
31 D	9.114	-8.3733E-04	121.9	45.57	121.9	64.60	UL-RL	2.0647E+04	-6.000	0.000	1.000	1.000
45.57	0.000	0.000	Strato1_2_8_L_0									
32 D	9.838	-7.6185E-04	125.7	49.19	125.7	66.63	UL-RL	2.0647E+04	-6.200	0.000	1.000	1.000
49.19	0.000	0.000	Strato1_2_8_L_0									
33 D	10.54	-6.9176E-04	129.6	52.70	129.6	68.66	UL-RL	2.0647E+04	-6.400	0.000	1.000	1.000
52.70	0.000	0.000	Strato1_2_8_L_0									
34 D	11.22	-6.2696E-04	133.4	56.11	133.4	70.69	UL-RL	2.0647E+04	-6.600	0.000	1.000	1.000
56.11	0.000	0.000	Strato1_2_8_L_0									
35 D	11.88	-5.6734E-04	137.2	59.40	137.2	72.72	UL-RL	2.0647E+04	-6.800	0.000	1.000	1.000
59.40	0.000	0.000	Strato1_2_8_L_0									
36 D	12.52	-5.1276E-04	141.0	62.60	141.0	74.75	UL-RL	2.0647E+04	-7.000	0.000	1.000	1.000
62.60	0.000	0.000	Strato1_2_8_L_0									
37 D	13.14	-4.6306E-04	144.9	65.69	144.9	76.77	UL-RL	2.0647E+04	-7.200	0.000	1.000	1.000
65.69	0.000	0.000	Strato1_2_8_L_0									
38 D	13.74	-4.1807E-04	148.7	68.69	148.7	78.80	UL-RL	2.0647E+04	-7.400	0.000	1.000	1.000
68.69	0.000	0.000	Strato1_2_8_L_0									
39 D	14.30	-3.7760E-04	152.3	71.51	152.3	80.73	UL-RL	2.0647E+04	-7.600	0.000	1.000	1.000
71.51	0.000	0.000	Strato1_2_8_L_0									
40 D	14.87	-3.4144E-04	156.2	74.33	156.2	82.76	UL-RL	2.0647E+04	-7.800	0.000	1.000	1.000
74.33	0.000	0.000	Strato1_2_8_L_0									
41 D	15.41	-3.0937E-04	160.0	77.07	160.0	84.79	UL-RL	2.0647E+04	-8.000	0.000	1.000	1.000
77.07	0.000	0.000	Strato1_2_8_L_0									
42 D	15.95	-2.8117E-04	163.8	79.73	163.8	86.81	UL-RL	2.0647E+04	-8.200	0.000	1.000	1.000
79.73	0.000	0.000	Strato1_2_8_L_0									
43 D	16.46	-2.5660E-04	167.6	82.31	167.6	88.84	UL-RL	2.0647E+04	-8.400	0.000	1.000	1.000
82.31	0.000	0.000	Strato1_2_8_L_0									
44 D	16.96	-2.3543E-04	171.4	84.82	171.4	90.86	UL-RL	2.0647E+04	-8.600	0.000	1.000	1.000
84.82	0.000	0.000	Strato1_2_8_L_0									
45 D	14.36	-2.1741E-04	175.4	71.79	175.4	87.68	UL-RL	5.8408E+04	-8.800	0.000	1.000	1.000
71.79	0.000	0.000	Strato2_3095_82743_L_0									
46 D	14.95	-2.0228E-04	179.2	74.74	179.2	89.61	UL-RL	5.8408E+04	-9.000	0.000	1.000	1.000
74.74	0.000	0.000	Strato2_3095_82743_L_0									
47 D	15.52	-1.8979E-04	183.3	77.61	183.3	91.63	UL-RL	5.8408E+04	-9.200	0.000	1.000	1.000
77.61	0.000	0.000	Strato2_3095_82743_L_0									
48 D	16.07	-1.7970E-04	187.3	80.34	187.3	93.64	UL-RL	5.8408E+04	-9.400	0.000	1.000	1.000
80.34	0.000	0.000	Strato2_3095_82743_L_0									
49 D	16.59	-1.7177E-04	191.3	82.93	191.3	95.64	UL-RL	5.8408E+04	-9.600	0.000	1.000	1.000
82.93	0.000	0.000	Strato2_3095_82743_L_0									
50 D	17.08	-1.6577E-04	195.3	85.40	195.3	97.65	UL-RL	5.8408E+04	-9.800	0.000	1.000	1.000
85.40	0.000	0.000	Strato2_3095_82743_L_0									
51 D	17.55	-1.6149E-04	199.3	87.76	199.3	99.66	UL-RL	5.8408E+04	-10.000	0.000	1.000	1.000
87.76	0.000	0.000	Strato2_3095_82743_L_0									
52 D	18.00	-1.5873E-04	203.3	90.02	203.3	101.7	UL-RL	5.8408E+04	-10.200	0.000	1.000	1.000
90.02	0.000	0.000	Strato2_3095_82743_L_0									
53 D	18.44	-1.5728E-04	207.4	92.20	207.4	103.7	UL-RL	5.8408E+04	-10.400	0.000	1.000	1.000
92.20	0.000	0.000	Strato2_3095_82743_L_0									
54 D	18.85	-1.5698E-04	211.2	94.24	211.2	105.6	UL-RL	5.8408E+04	-10.600	0.000	1.000	1.000
94.24	0.000	0.000	Strato2_3095_82743_L_0									
55 D	19.25	-1.5765E-04	215.3	96.27	215.3	107.6	UL-RL	5.8408E+04	-10.800	0.000	1.000	1.000
96.27	0.000	0.000	Strato2_3095_82743_L_0									
56 D	19.65	-1.5915E-04	219.3	98.25	219.3	109.6	UL-RL	5.8408E+04	-11.000	0.000	1.000	1.000
98.25	0.000	0.000	Strato2_3095_82743_L_0									
57 D	20.04	-1.6135E-04	223.3	100.2	223.3	111.6	UL-RL	5.8408E+04	-11.200	0.000	1.000	1.000
100.2	0.000	0.000	Strato2_3095_82743_L_0									
58 D	20.42	-1.6410E-04	227.3	102.1	227.3	113.7	UL-RL	5.8408E+04	-11.400	0.000	1.000	1.000
102.1	0.000	0.000	Strato2_3095_82743_L_0									
59 D	20.79	-1.6732E-04	231.3	103.9	231.3	115.7	UL-RL	5.8408E+04	-11.600	0.000	1.000	1.000
103.9	0.000	0.000	Strato2_3095_82743_L_0									
60 D	21.15	-1.7089E-04	235.3	105.8	235.3	117.7	UL-RL	5.8408E+04	-11.800	0.000	1.000	1.000
105.8	0.000	0.000	Strato2_3095_82743_L_0									
61 D	21.50	-1.7473E-04	239.2	107.5	239.2	119.6	UL-RL	5.8408E+04	-12.000	0.000	1.000	1.000
107.5	0.000	0.000	Strato2_3095_82743_L_0									
62 D	21.86	-1.7878E-04	243.3	109.3	243.3	121.6	UL-RL	5.8408E+04	-12.200	0.000	1.000	1.000
109.3	0.000	0.000	Strato2_3095_82743_L_0									
63 D	22.22	-1.8296E-04	247.3	111.1	247.3	123.6	UL-RL	5.8408E+04	-12.400	0.000	1.000	1.000
111.1	0.000	0.000	Strato2_3095_82743_L_0									
64 D	22.57	-1.8722E-04	251.3	112.9	251.3	125.6	UL-RL	5.8408E+04	-12.600	0.000	1.000	1.000
112.9	0.000	0.000	Strato2_3095_82743_L_0									
65 D	22.93	-1.9152E-04	255.3	114.6	255.3	127.7	UL-RL	5.8408E+04	-12.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 818 di 1221
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114.6	0.000	0.000	Strato2_3095_82743_L_0									
66 D	23.28	-1.9582E-04	259.3	116.4	259.3	129.7	UL-RL	5.8408E+04	-13.00	0.000	1.000	1.000
116.4	0.000	0.000	Strato2_3095_82743_L_0									
67 D	23.63	-2.0010E-04	263.3	118.2	263.3	131.7	UL-RL	5.8408E+04	-13.20	0.000	1.000	1.000
118.2	0.000	0.000	Strato2_3095_82743_L_0									
68 D	23.98	-2.0433E-04	267.3	119.9	267.3	133.7	UL-RL	5.8408E+04	-13.40	0.000	1.000	1.000
119.9	0.000	0.000	Strato2_3095_82743_L_0									
69 D	24.33	-2.0851E-04	271.3	121.6	271.3	135.6	UL-RL	5.8408E+04	-13.60	0.000	1.000	1.000
121.6	0.000	0.000	Strato2_3095_82743_L_0									
70 D	24.68	-2.1262E-04	275.3	123.4	275.3	137.6	UL-RL	5.8408E+04	-13.80	0.000	1.000	1.000
123.4	0.000	0.000	Strato2_3095_82743_L_0									
71 D	25.03	-2.1666E-04	279.3	125.2	279.3	139.6	UL-RL	5.8408E+04	-14.00	0.000	1.000	1.000
125.2	0.000	0.000	Strato2_3095_82743_L_0									
72 D	25.39	-2.2064E-04	283.3	126.9	283.3	141.6	UL-RL	5.8408E+04	-14.20	0.000	1.000	1.000
126.9	0.000	0.000	Strato2_3095_82743_L_0									
73 D	25.74	-2.2454E-04	287.3	128.7	287.3	143.7	UL-RL	5.8408E+04	-14.40	0.000	1.000	1.000
128.7	0.000	0.000	Strato2_3095_82743_L_0									
74 D	26.10	-2.2839E-04	291.3	130.5	291.3	145.7	UL-RL	5.8408E+04	-14.60	0.000	1.000	1.000
130.5	0.000	0.000	Strato2_3095_82743_L_0									
75 D	26.45	-2.3219E-04	295.3	132.3	295.3	147.7	UL-RL	5.8408E+04	-14.80	0.000	1.000	1.000
132.3	0.000	0.000	Strato2_3095_82743_L_0									
76 D	26.80	-2.3594E-04	299.3	134.0	299.3	149.6	UL-RL	5.8408E+04	-15.00	0.000	1.000	1.000
134.0	0.000	0.000	Strato2_3095_82743_L_0									
77 D	27.16	-2.3966E-04	303.3	135.8	303.3	151.6	UL-RL	5.8408E+04	-15.20	0.000	1.000	1.000
135.8	0.000	0.000	Strato2_3095_82743_L_0									
78 D	27.51	-2.4336E-04	307.3	137.6	307.3	153.6	UL-RL	5.8408E+04	-15.40	0.000	1.000	1.000
137.6	0.000	0.000	Strato2_3095_82743_L_0									
79 D	27.87	-2.4705E-04	311.3	139.4	311.3	155.6	UL-RL	5.8408E+04	-15.60	0.000	1.000	1.000
139.4	0.000	0.000	Strato2_3095_82743_L_0									
80 D	28.23	-2.5073E-04	315.3	141.1	315.3	157.7	UL-RL	5.8408E+04	-15.80	0.000	1.000	1.000
141.1	0.000	0.000	Strato2_3095_82743_L_0									
81 D	14.29	-2.5440E-04	319.3	142.9	319.3	159.7	UL-RL	5.8408E+04	-16.00	0.000	1.000	1.000
142.9	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019      18:01:11                             |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
 CURRENT TIME IS 4.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 819 di 1221
0.000	0.000	0.000	not available		
14	0.000	--	--	--	--
0.000	0.000	0.000	not available		
15	0.000	--	--	--	--
0.000	0.000	0.000	not available		
16	0.000	--	--	--	--
0.000	0.000	0.000	not available		
17	0.000	--	--	--	--
0.000	0.000	0.000	not available		
18	0.000	--	--	--	--
0.000	0.000	0.000	not available		
19	0.000	--	--	--	--
0.000	0.000	0.000	not available		
20 D	0.1155	2.0203E-03	1.900 0.5776	72.20	39.07
0.5776	0.000	0.000	Strato1_2_8_L_0		
21 D	2.845	1.8876E-03	5.700 14.23	76.00	41.08
14.23	0.000	0.000	Strato1_2_8_L_0		
22 D	6.012	1.7596E-03	9.500 30.06	79.80	43.09
30.06	0.000	0.000	Strato1_2_8_L_0		
23 D	9.179	1.6363E-03	13.30 45.90	83.60	53.75
45.90	0.000	0.000	Strato1_2_8_L_0		
24 D	9.821	1.5180E-03	17.10 49.11	87.40	56.47
49.11	0.000	0.000	Strato1_2_8_L_0		
25 D	10.18	1.4047E-03	20.90 50.90	91.20	57.78
50.90	0.000	0.000	Strato1_2_8_L_0		
26 D	10.54	1.2967E-03	24.70 52.71	95.00	59.11
52.71	0.000	0.000	Strato1_2_8_L_0		
27 D	10.91	1.1939E-03	28.50 54.54	98.80	60.47
54.54	0.000	0.000	Strato1_2_8_L_0		
28 D	11.28	1.0966E-03	32.30 56.39	102.6	61.86
56.39	0.000	0.000	Strato1_2_8_L_0		
29 D	11.65	1.0047E-03	36.10 58.25	106.4	63.28
58.25	0.000	0.000	Strato1_2_8_L_0		
30 D	12.03	9.1827E-04	39.90 60.13	110.2	64.74
60.13	0.000	0.000	Strato1_2_8_L_0		
31 D	12.41	8.3733E-04	43.70 62.03	114.0	66.22
62.03	0.000	0.000	Strato1_2_8_L_0		
32 D	12.79	7.6185E-04	47.50 63.94	117.8	67.73
63.94	0.000	0.000	Strato1_2_8_L_0		
33 D	13.17	6.9176E-04	51.30 65.86	121.6	69.28
65.86	0.000	0.000	Strato1_2_8_L_0		
34 D	13.56	6.2696E-04	55.10 67.79	125.4	70.86
67.79	0.000	0.000	Strato1_2_8_L_0		
35 D	13.95	5.6734E-04	58.90 69.74	129.2	72.46
69.74	0.000	0.000	Strato1_2_8_L_0		
36 D	14.34	5.1276E-04	62.70 71.69	133.0	74.10
71.69	0.000	0.000	Strato1_2_8_L_0		
37 D	14.73	4.6306E-04	66.50 73.66	136.8	75.77
73.66	0.000	0.000	Strato1_2_8_L_0		
38 D	15.13	4.1807E-04	70.30 75.63	140.6	77.47
75.63	0.000	0.000	Strato1_2_8_L_0		
39 D	15.52	3.7760E-04	74.10 77.61	144.4	79.19
77.61	0.000	0.000	Strato1_2_8_L_0		
40 D	15.92	3.4144E-04	77.90 79.60	148.2	80.95
79.60	0.000	0.000	Strato1_2_8_L_0		
41 D	16.32	3.0937E-04	81.70 81.59	152.0	82.72
81.59	0.000	0.000	Strato1_2_8_L_0		
42 D	16.72	2.8117E-04	85.50 83.59	155.8	84.53
83.59	0.000	0.000	Strato1_2_8_L_0		
43 D	17.12	2.5660E-04	89.30 85.59	159.6	86.35
85.59	0.000	0.000	Strato1_2_8_L_0		
44 D	17.52	2.3543E-04	93.10 87.60	163.4	88.20
87.60	0.000	0.000	Strato1_2_8_L_0		
45 D	14.05	2.1741E-04	97.00 70.27	167.3	84.67
70.27	0.000	0.000	Strato2_3095_82743_L_0		
46 D	14.37	2.0228E-04	101.0 71.87	171.3	86.63
71.87	0.000	0.000	Strato2_3095_82743_L_0		
47 D	14.71	1.8979E-04	105.0 73.56	175.3	88.59
73.56	0.000	0.000	Strato2_3095_82743_L_0		
48 D	15.06	1.7970E-04	109.0 75.32	179.3	90.54
75.32	0.000	0.000	Strato2_3095_82743_L_0		
49 D	15.43	1.7177E-04	113.0 77.14	183.3	92.51
77.14	0.000	0.000	Strato2_3095_82743_L_0		
50 D	15.80	1.6577E-04	117.0 79.02	187.3	94.47
79.02	0.000	0.000	Strato2_3095_82743_L_0		
51 D	16.19	1.6149E-04	121.0 80.95	191.3	96.44
80.95	0.000	0.000	Strato2_3095_82743_L_0		
52 D	16.58	1.5873E-04	125.0 82.92	195.3	98.41
82.92	0.000	0.000	Strato2_3095_82743_L_0		
53 D	16.99	1.5728E-04	129.0 84.93	199.3	100.4
84.93	0.000	0.000	Strato2_3095_82743_L_0		
54 D	17.39	1.5698E-04	133.0 86.97	203.3	102.4
86.97	0.000	0.000	Strato2_3095_82743_L_0		
55 D	17.81	1.5765E-04	137.0 89.05	207.3	104.3
89.05	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 820 di 1221							
56 D	18.23	1.5915E-04	141.0	91.14	211.3	106.3	UL-RL	3.1656E+04	-11.00	0.000	1.000	1.000
91.14	0.000	0.000	Strato2_3095_82743_L_0									
57 D	18.65	1.6135E-04	145.0	93.26	215.3	108.3	UL-RL	3.1656E+04	-11.20	0.000	1.000	1.000
93.26	0.000	0.000	Strato2_3095_82743_L_0									
58 D	19.08	1.6410E-04	149.0	95.39	219.3	110.3	UL-RL	3.1656E+04	-11.40	0.000	1.000	1.000
95.39	0.000	0.000	Strato2_3095_82743_L_0									
59 D	19.51	1.6732E-04	153.0	97.53	223.3	112.3	UL-RL	3.1656E+04	-11.60	0.000	1.000	1.000
97.53	0.000	0.000	Strato2_3095_82743_L_0									
60 D	19.94	1.7089E-04	157.0	99.68	227.3	114.3	UL-RL	3.1656E+04	-11.80	0.000	1.000	1.000
99.68	0.000	0.000	Strato2_3095_82743_L_0									
61 D	20.37	1.7473E-04	161.0	101.8	231.3	116.3	UL-RL	3.1656E+04	-12.00	0.000	1.000	1.000
101.8	0.000	0.000	Strato2_3095_82743_L_0									
62 D	20.80	1.7878E-04	165.0	104.0	235.3	118.2	UL-RL	3.1656E+04	-12.20	0.000	1.000	1.000
104.0	0.000	0.000	Strato2_3095_82743_L_0									
63 D	21.23	1.8296E-04	169.0	106.2	239.3	120.2	UL-RL	3.1656E+04	-12.40	0.000	1.000	1.000
106.2	0.000	0.000	Strato2_3095_82743_L_0									
64 D	21.67	1.8722E-04	173.0	108.3	243.3	122.2	UL-RL	3.1656E+04	-12.60	0.000	1.000	1.000
108.3	0.000	0.000	Strato2_3095_82743_L_0									
65 D	22.10	1.9152E-04	177.0	110.5	247.3	124.2	UL-RL	3.1656E+04	-12.80	0.000	1.000	1.000
110.5	0.000	0.000	Strato2_3095_82743_L_0									
66 D	22.53	1.9582E-04	181.0	112.7	251.3	126.2	UL-RL	3.1656E+04	-13.00	0.000	1.000	1.000
112.7	0.000	0.000	Strato2_3095_82743_L_0									
67 D	22.97	2.0010E-04	185.0	114.8	255.3	128.2	UL-RL	3.1656E+04	-13.20	0.000	1.000	1.000
114.8	0.000	0.000	Strato2_3095_82743_L_0									
68 D	23.40	2.0433E-04	189.0	117.0	259.3	130.2	UL-RL	3.1656E+04	-13.40	0.000	1.000	1.000
117.0	0.000	0.000	Strato2_3095_82743_L_0									
69 D	23.83	2.0851E-04	193.0	119.1	263.3	132.2	UL-RL	3.1656E+04	-13.60	0.000	1.000	1.000
119.1	0.000	0.000	Strato2_3095_82743_L_0									
70 D	24.26	2.1262E-04	197.0	121.3	267.3	134.2	UL-RL	3.1656E+04	-13.80	0.000	1.000	1.000
121.3	0.000	0.000	Strato2_3095_82743_L_0									
71 D	24.69	2.1666E-04	201.0	123.4	271.3	136.2	UL-RL	3.1656E+04	-14.00	0.000	1.000	1.000
123.4	0.000	0.000	Strato2_3095_82743_L_0									
72 D	25.12	2.2064E-04	205.0	125.6	275.3	138.2	UL-RL	3.1656E+04	-14.20	0.000	1.000	1.000
125.6	0.000	0.000	Strato2_3095_82743_L_0									
73 D	25.55	2.2454E-04	209.0	127.7	279.3	140.2	UL-RL	3.1656E+04	-14.40	0.000	1.000	1.000
127.7	0.000	0.000	Strato2_3095_82743_L_0									
74 D	25.98	2.2839E-04	213.0	129.9	283.3	142.2	UL-RL	3.1656E+04	-14.60	0.000	1.000	1.000
129.9	0.000	0.000	Strato2_3095_82743_L_0									
75 D	26.40	2.3219E-04	217.0	132.0	287.3	144.2	UL-RL	3.1656E+04	-14.80	0.000	1.000	1.000
132.0	0.000	0.000	Strato2_3095_82743_L_0									
76 D	26.83	2.3594E-04	221.0	134.2	291.3	146.2	UL-RL	3.1656E+04	-15.00	0.000	1.000	1.000
134.2	0.000	0.000	Strato2_3095_82743_L_0									
77 D	27.26	2.3966E-04	225.0	136.3	295.3	148.2	UL-RL	3.1656E+04	-15.20	0.000	1.000	1.000
136.3	0.000	0.000	Strato2_3095_82743_L_0									
78 D	27.69	2.4336E-04	229.0	138.4	299.3	150.2	UL-RL	3.1656E+04	-15.40	0.000	1.000	1.000
138.4	0.000	0.000	Strato2_3095_82743_L_0									
79 D	28.11	2.4705E-04	233.0	140.6	303.3	152.2	UL-RL	3.1656E+04	-15.60	0.000	1.000	1.000
140.6	0.000	0.000	Strato2_3095_82743_L_0									
80 D	28.54	2.5073E-04	237.0	142.7	307.3	154.2	UL-RL	3.1656E+04	-15.80	0.000	1.000	1.000
142.7	0.000	0.000	Strato2_3095_82743_L_0									
81 D	14.48	2.5440E-04	241.0	144.8	311.3	156.2	UL-RL	3.1656E+04	-16.00	0.000	1.000	1.000
144.8	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          18:01:11          |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
CURRENT TIME IS 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.2122	-1.2122	3.96478E-11	0.24243
2	3.4766	-3.4766	-0.24243	0.93776
3	6.1712	-6.1712	-0.93776	2.1720
4	9.2349	-9.2349	-2.1720	4.0190
5	12.648	-12.648	-4.0190	6.5487
6	16.403	-16.403	-6.5487	9.8292
7	20.494	-20.494	-9.8292	13.928
8	24.918	-24.918	-13.928	18.911
9	29.602	-29.602	-18.911	24.832
10	34.623	-34.623	-24.832	31.757

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 821 di 1221
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11	39.978	-39.978	-31.757	39.752
12	45.663	-45.663	-39.752	48.885
13	51.675	-51.675	-48.885	59.220
14	58.012	-58.012	-59.220	70.822
15	64.671	-64.671	-70.822	83.756
16	71.609	-71.609	-83.756	98.078
17	-11.919	11.919	-98.078	95.694
18	-4.5867	4.5867	-95.694	94.777
19	2.8576	-2.8576	-94.777	95.349
20	10.291	-10.291	-95.349	97.407
21	15.095	-15.095	-97.407	100.43
22	16.828	-16.828	-100.43	103.79
23	15.488	-15.488	-103.79	106.89
24	13.581	-13.581	-106.89	109.61
25	11.411	-11.411	-109.61	111.89
26	8.9749	-8.9749	-111.89	113.68
27	6.2701	-6.2701	-113.68	114.94
28	3.2965	-3.2965	-114.94	115.60
29	5.46354E-02	-5.46354E-02	-115.60	115.61
30	-3.4545	3.4545	-115.61	114.92
31	-6.7463	6.7463	-114.92	113.57
32	-9.6957	9.6957	-113.57	111.63
33	-12.327	12.327	-111.63	109.16
34	-14.665	14.665	-109.16	106.23
35	-16.732	16.732	-106.23	102.88
36	-18.550	18.550	-102.88	99.173
37	-20.143	20.143	-99.173	95.144
38	-21.530	21.530	-95.144	90.838
39	-22.750	22.750	-90.838	86.288
40	-23.802	23.802	-86.288	81.528
41	-24.706	24.706	-81.528	76.586
42	-25.478	25.478	-76.586	71.491
43	-26.135	26.135	-71.491	66.264
44	-26.691	26.691	-66.264	60.926
45	-26.387	26.387	-60.926	55.648
46	-25.813	25.813	-55.648	50.486
47	-25.001	25.001	-50.486	45.486
48	-23.997	23.997	-45.486	40.686
49	-22.839	22.839	-40.686	36.118
50	-21.563	21.563	-36.118	31.806
51	-20.200	20.200	-31.806	27.766
52	-18.780	18.780	-27.766	24.010
53	-17.326	17.326	-24.010	20.545
54	-15.874	15.874	-20.545	17.370
55	-14.428	14.428	-17.370	14.484
56	-13.006	13.006	-14.484	11.883
57	-11.620	11.620	-11.883	9.5593
58	-10.282	10.282	-9.5593	7.5029
59	-9.0002	9.0002	-7.5029	5.7029
60	-7.7827	7.7827	-5.7029	4.1463
61	-6.6458	6.6458	-4.1463	2.8172
62	-5.5826	5.5826	-2.8172	1.7006
63	-4.5961	4.5961	-1.7006	0.78142
64	-3.6884	3.6884	-0.78142	4.37496E-02
65	-2.8605	2.8605	-4.37496E-02	-0.52835
66	-2.1130	2.1130	0.52835	-0.95094
67	-1.4457	1.4457	0.95094	-1.2401
68	-0.85806	0.85806	1.2401	-1.4117
69	-0.35901	0.35901	1.4117	-1.4835
70	6.23874E-02	-6.23874E-02	1.4835	-1.4710
71	0.40727	-0.40727	1.4710	-1.3896
72	0.67680	-0.67680	1.3896	-1.2542
73	0.87213	-0.87213	1.2542	-1.0798
74	0.99432	-0.99432	1.0798	-0.88091
75	1.0443	-1.0443	0.88091	-0.67205
76	1.0140	-1.0140	0.67205	-0.46924
77	0.91312	-0.91312	0.46924	-0.28662
78	0.74197	-0.74197	0.28662	-0.13822
79	0.50093	-0.50093	0.13822	-3.80371E-02
80	0.19018	-0.19018	3.80371E-02	-5.90346E-12

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.AlM1r1_3484                                                                                       |
|          Exe Time :29 July 2019          18:01:11                                                                                       |
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New Project

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 822 di 1221
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Tirantel_429 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 C U R R E N T T I M E I S 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit		
ANCHOR	1	93.940	-7.10410E-04	-7.10410E-04	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1094E+06 RIMNOR=0.6497E+06
 RENORM= 6067. REMNOR=0.2714E-19 RATIO =0.2355 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 115.6
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1094E+06 RDR =0.6497E+06
 RATIO=0.2355 RATIO= 0.000
 MAX UN= 17.52 IEQ= 87 NODE 44 DOF 1 Y-DISPL.F
 MIN UN=-.1838E-08 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1094E+06 RIMNOR=0.6497E+06
 RENORM= 215.0 REMNOR=0.2509E-18 RATIO =0.4433E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 115.6
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1094E+06 RDR =0.6497E+06
 RATIO=0.4433E-01 RATIO= 0.000
 MAX UN= 4.454 IEQ= 59 NODE 30 DOF 1 Y-DISPL.F
 MIN UN=-.1199E-08 IEQ= 99 NODE 50 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1094E+06 RIMNOR=0.6497E+06
 RENORM= 85.23 REMNOR=0.1296E-18 RATIO =0.2791E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 115.6
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1094E+06 RDR =0.6497E+06
 RATIO=0.2791E-01 RATIO= 0.000
 MAX UN= 3.485 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F
 MIN UN=-.1628E-08 IEQ= 61 NODE 31 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1094E+06 RIMNOR=0.6497E+06
 RENORM= 4.383 REMNOR=0.7734E-18 RATIO =0.6329E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 115.6
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1094E+06 RDR =0.6497E+06
 RATIO=0.6329E-02 RATIO= 0.000
 MAX UN= 1.864 IEQ= 105 NODE 53 DOF 1 Y-DISPL.F
 MIN UN=-.4320E-08 IEQ= 19 NODE 10 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1094E+06 RIMNOR=0.6497E+06
 RENORM=0.7198E-16 REMNOR=0.3857E-18 RATIO =0.2565E-10 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 90.74 RMMAX = 115.6
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1094E+06 RDR =0.6497E+06
 RATIO=0.2565E-10 RATIO= 0.000
 MAX UN=0.2494E-08 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 MIN UN=-.3235E-08 IEQ= 57 NODE 29 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  18:01:11  |
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New Project
 SOLUTION REACHED USING 5 ITERATIONS ON 100
 PRINT OUT FOR TIME STEP 5 (AT TIME 5.000)
 PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.

Progetto
INORLotto
12Codifica Documento
E E2 CL GA 2701 002Rev.
AFoglio
823 di 1221

	Y-DISPL.F (02)	X-ROT. F (04)
1	1.6079758E-02	-1.2549824E-03
2	1.5828762E-02	-1.2549741E-03
3	1.5577771E-02	-1.2549347E-03
4	1.5326793E-02	-1.2548283E-03
5	1.5075847E-02	-1.2546057E-03
6	1.4824963E-02	-1.2542056E-03
7	1.4574182E-02	-1.2535553E-03
8	1.4323563E-02	-1.2525708E-03
9	1.4073182E-02	-1.2511565E-03
10	1.3823136E-02	-1.2492072E-03
11	1.3573542E-02	-1.2466073E-03
12	1.3324545E-02	-1.2432299E-03
13	1.3076311E-02	-1.2389370E-03
14	1.2829041E-02	-1.2335793E-03
15	1.2582961E-02	-1.2269962E-03
16	1.2338335E-02	-1.2190163E-03
17	1.2095460E-02	-1.2094573E-03
18	1.1854490E-02	-1.2008438E-03
19	1.1614892E-02	-1.1956890E-03
20	1.1375998E-02	-1.1937781E-03
21	1.1137180E-02	-1.1948849E-03
22	1.0897858E-02	-1.1987725E-03
23	1.0657502E-02	-1.2051926E-03
24	1.0415631E-02	-1.2138859E-03
25	1.0171815E-02	-1.2245825E-03
26	9.9256830E-03	-1.2370019E-03
27	9.6769190E-03	-1.2508523E-03
28	9.4252669E-03	-1.2658310E-03
29	9.1705336E-03	-1.2816240E-03
30	8.9125859E-03	-1.2979067E-03
31	8.6513607E-03	-1.3143430E-03
32	8.3868616E-03	-1.3305863E-03
33	8.1191628E-03	-1.3462791E-03
34	7.8484112E-03	-1.3610529E-03
35	7.5748296E-03	-1.3745283E-03
36	7.2987139E-03	-1.3863146E-03
37	7.0204431E-03	-1.3960104E-03
38	6.7404766E-03	-1.4032027E-03
39	6.4593571E-03	-1.4074681E-03
40	6.1777148E-03	-1.4083721E-03
41	5.8962635E-03	-1.4054692E-03
42	5.6158114E-03	-1.3983034E-03
43	5.3372575E-03	-1.3864071E-03
44	5.0615957E-03	-1.3693022E-03
45	4.7899179E-03	-1.3464992E-03
46	4.5233735E-03	-1.3180559E-03
47	4.2630304E-03	-1.2845889E-03
48	4.0098312E-03	-1.2467228E-03
49	3.7645927E-03	-1.2050865E-03
50	3.5280072E-03	-1.1603088E-03
51	3.3006385E-03	-1.1130088E-03
52	3.0829357E-03	-1.0637936E-03
53	2.8752138E-03	-1.0132531E-03
54	2.6776842E-03	-9.6196632E-04
55	2.4904393E-03	-9.1049882E-04
56	2.3134605E-03	-8.5939425E-04
57	2.1466244E-03	-8.0914762E-04
58	1.9897155E-03	-7.6018969E-04
59	1.8424379E-03	-7.1289099E-04
60	1.7044276E-03	-6.6756558E-04
61	1.5752627E-03	-6.2447486E-04
62	1.4544745E-03	-5.8383134E-04
63	1.3415559E-03	-5.4580203E-04
64	1.2359711E-03	-5.1051134E-04
65	1.1371631E-03	-4.7804406E-04
66	1.0445620E-03	-4.4844812E-04
67	9.5759157E-04	-4.2173702E-04
68	8.7567614E-04	-3.9789218E-04
69	7.9824686E-04	-3.7686493E-04
70	7.2474744E-04	-3.5857856E-04
71	6.5463959E-04	-3.4292989E-04
72	5.8740821E-04	-3.2979040E-04
73	5.2256633E-04	-3.1900740E-04
74	4.5965988E-04	-3.1040493E-04
75	3.9827222E-04	-3.0378461E-04
76	3.3802858E-04	-2.9892615E-04
77	2.7860039E-04	-2.9558809E-04
78	2.1970948E-04	-2.9350803E-04
79	1.6113220E-04	-2.9240269E-04
80	1.0270370E-04	-2.9196794E-04
81	4.4319059E-05	-2.9187891E-04



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 824 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.AlMIR1_3484          |
|          Exe Time :29 July 2019          18:01:11          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.3508	-1.6080E-02	11.54	3.508	11.54	12.12	ACTIVE	0.000	0.000	0.000	1.000	1.000
3.508	0.000	0.000	Stratol_2_8_L_0									
2 D	0.6070	-1.5829E-02	9.984	3.035	9.984	11.32	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
3.035	0.000	0.000	Stratol_2_8_L_0									
3 D	0.9069	-1.5578E-02	14.92	4.534	14.92	13.47	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
4.534	0.000	0.000	Stratol_2_8_L_0									
4 D	1.166	-1.5327E-02	19.18	5.830	19.18	15.32	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
5.830	0.000	0.000	Stratol_2_8_L_0									
5 D	1.412	-1.5076E-02	23.23	7.061	23.23	17.07	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
7.061	0.000	0.000	Stratol_2_8_L_0									
6 D	1.653	-1.4825E-02	27.18	8.264	27.18	18.77	ACTIVE	0.000	-1.000	0.000	1.000	1.000
8.264	0.000	0.000	Stratol_2_8_L_0									
7 D	1.890	-1.4574E-02	31.09	9.452	31.09	20.45	ACTIVE	0.000	-1.200	0.000	1.000	1.000
9.452	0.000	0.000	Stratol_2_8_L_0									
8 D	2.126	-1.4324E-02	34.97	10.63	34.97	22.12	ACTIVE	0.000	-1.400	0.000	1.000	1.000
10.63	0.000	0.000	Stratol_2_8_L_0									
9 D	2.314	-1.4073E-02	38.06	11.57	38.06	23.42	ACTIVE	0.000	-1.600	0.000	1.000	1.000
11.57	0.000	0.000	Stratol_2_8_L_0									
10 D	2.553	-1.3823E-02	41.99	12.76	41.99	25.11	ACTIVE	0.000	-1.800	0.000	1.000	1.000
12.76	0.000	0.000	Stratol_2_8_L_0									
11 D	2.790	-1.3574E-02	45.89	13.95	45.89	26.77	ACTIVE	0.000	-2.000	0.000	1.000	1.000
13.95	0.000	0.000	Stratol_2_8_L_0									
12 D	3.027	-1.3325E-02	49.78	15.13	49.78	28.42	ACTIVE	0.000	-2.200	0.000	1.000	1.000
15.13	0.000	0.000	Stratol_2_8_L_0									
13 D	3.262	-1.3076E-02	53.65	16.31	53.65	30.06	ACTIVE	0.000	-2.400	0.000	1.000	1.000
16.31	0.000	0.000	Stratol_2_8_L_0									
14 D	3.497	-1.2829E-02	57.51	17.48	57.51	31.69	ACTIVE	0.000	-2.600	0.000	1.000	1.000
17.48	0.000	0.000	Stratol_2_8_L_0									
15 D	3.731	-1.2583E-02	61.37	18.66	61.37	33.29	ACTIVE	0.000	-2.800	0.000	1.000	1.000
18.66	0.000	0.000	Stratol_2_8_L_0									
16 D	3.939	-1.2338E-02	64.79	19.69	64.79	34.69	ACTIVE	0.000	-3.000	0.000	1.000	1.000
19.69	0.000	0.000	Stratol_2_8_L_0									
17 D	4.174	-1.2095E-02	68.65	20.87	68.65	36.39	ACTIVE	0.000	-3.200	0.000	1.000	1.000
20.87	0.000	0.000	Stratol_2_8_L_0									
18 D	4.409	-1.1854E-02	72.51	22.04	72.51	38.43	ACTIVE	0.000	-3.400	0.000	1.000	1.000
22.04	0.000	0.000	Stratol_2_8_L_0									
19 D	4.643	-1.1615E-02	76.37	23.22	76.37	40.47	ACTIVE	0.000	-3.600	0.000	1.000	1.000
23.22	0.000	0.000	Stratol_2_8_L_0									
20 D	4.877	-1.1376E-02	80.21	24.38	80.21	42.51	ACTIVE	0.000	-3.800	0.000	1.000	1.000
24.38	0.000	0.000	Stratol_2_8_L_0									
21 D	5.111	-1.1137E-02	84.06	25.55	84.06	44.55	ACTIVE	0.000	-4.000	0.000	1.000	1.000
25.55	0.000	0.000	Stratol_2_8_L_0									
22 D	5.344	-1.0898E-02	87.89	26.72	87.89	46.58	ACTIVE	0.000	-4.200	0.000	1.000	1.000
26.72	0.000	0.000	Stratol_2_8_L_0									
23 D	5.577	-1.0658E-02	91.73	27.89	91.73	48.62	ACTIVE	0.000	-4.400	0.000	1.000	1.000
27.89	0.000	0.000	Stratol_2_8_L_0									
24 D	5.793	-1.0416E-02	95.28	28.96	95.28	50.50	ACTIVE	0.000	-4.600	0.000	1.000	1.000
28.96	0.000	0.000	Stratol_2_8_L_0									
25 D	6.027	-1.0172E-02	99.12	30.13	99.12	52.53	ACTIVE	0.000	-4.800	0.000	1.000	1.000
30.13	0.000	0.000	Stratol_2_8_L_0									
26 D	6.260	-9.9257E-03	103.0	31.30	103.0	54.57	ACTIVE	0.000	-5.000	0.000	1.000	1.000
31.30	0.000	0.000	Stratol_2_8_L_0									
27 D	6.493	-9.6769E-03	106.8	32.47	106.8	56.60	ACTIVE	0.000	-5.200	0.000	1.000	1.000
32.47	0.000	0.000	Stratol_2_8_L_0									
28 D	6.726	-9.4253E-03	110.6	33.63	110.6	58.63	ACTIVE	0.000	-5.400	0.000	1.000	1.000
33.63	0.000	0.000	Stratol_2_8_L_0									
29 D	6.959	-9.1705E-03	114.5	34.79	114.5	60.66	ACTIVE	0.000	-5.600	0.000	1.000	1.000
34.79	0.000	0.000	Stratol_2_8_L_0									
30 D	7.192	-8.9126E-03	118.3	35.96	118.3	62.69	ACTIVE	0.000	-5.800	0.000	1.000	1.000
35.96	0.000	0.000	Stratol_2_8_L_0									
31 D	7.411	-8.6514E-03	121.9	37.06	121.9	64.60	ACTIVE	0.000	-6.000	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 825 di 1221
37.06	0.000	0.000	Strato1_2_8_L_0		
32 D	7.644	-8.3869E-03	125.7 38.22	125.7	66.63
38.22	0.000	0.000	Strato1_2_8_L_0		
33 D	7.877	-8.1192E-03	129.6 39.38	129.6	68.66
39.38	0.000	0.000	Strato1_2_8_L_0		
34 D	8.110	-7.8484E-03	133.4 40.55	133.4	70.69
40.55	0.000	0.000	Strato1_2_8_L_0		
35 D	8.342	-7.5748E-03	137.2 41.71	137.2	72.72
41.71	0.000	0.000	Strato1_2_8_L_0		
36 D	8.575	-7.2987E-03	141.0 42.87	141.0	74.75
42.87	0.000	0.000	Strato1_2_8_L_0		
37 D	8.807	-7.0204E-03	144.9 44.04	144.9	76.77
44.04	0.000	0.000	Strato1_2_8_L_0		
38 D	9.040	-6.7405E-03	148.7 45.20	148.7	78.80
45.20	0.000	0.000	Strato1_2_8_L_0		
39 D	9.262	-6.4594E-03	152.3 46.31	152.3	80.73
46.31	0.000	0.000	Strato1_2_8_L_0		
40 D	9.494	-6.1777E-03	156.2 47.47	156.2	82.76
47.47	0.000	0.000	Strato1_2_8_L_0		
41 D	9.727	-5.8963E-03	160.0 48.63	160.0	84.79
48.63	0.000	0.000	Strato1_2_8_L_0		
42 D	9.959	-5.6158E-03	163.8 49.79	163.8	86.81
49.79	0.000	0.000	Strato1_2_8_L_0		
43 D	10.19	-5.3373E-03	167.6 50.96	167.6	88.84
50.96	0.000	0.000	Strato1_2_8_L_0		
44 D	10.42	-5.0616E-03	171.4 52.12	171.4	90.86
52.12	0.000	0.000	Strato1_2_8_L_0		
45 D	4.364	-4.7899E-03	175.4 21.82	175.4	87.68
21.82	0.000	0.000	Strato2_3095_82743_L_0		
46 D	4.546	-4.5234E-03	179.2 22.73	179.2	89.61
22.73	0.000	0.000	Strato2_3095_82743_L_0		
47 D	4.735	-4.2630E-03	183.3 23.67	183.3	91.63
23.67	0.000	0.000	Strato2_3095_82743_L_0		
48 D	4.924	-4.0098E-03	187.3 24.62	187.3	93.64
24.62	0.000	0.000	Strato2_3095_82743_L_0		
49 D	5.112	-3.7646E-03	191.3 25.56	191.3	95.64
25.56	0.000	0.000	Strato2_3095_82743_L_0		
50 D	5.301	-3.5280E-03	195.3 26.51	195.3	97.65
26.51	0.000	0.000	Strato2_3095_82743_L_0		
51 D	5.490	-3.3006E-03	199.3 27.45	199.3	99.66
27.45	0.000	0.000	Strato2_3095_82743_L_0		
52 D	5.679	-3.0829E-03	203.3 28.39	203.3	101.7
28.39	0.000	0.000	Strato2_3095_82743_L_0		
53 D	5.868	-2.8752E-03	207.4 29.34	207.4	103.7
29.34	0.000	0.000	Strato2_3095_82743_L_0		
54 D	6.051	-2.6777E-03	211.2 30.25	211.2	105.6
30.25	0.000	0.000	Strato2_3095_82743_L_0		
55 D	6.651	-2.4904E-03	215.3 33.26	215.3	107.6
33.26	0.000	0.000	Strato2_3095_82743_L_0		
56 D	8.012	-2.3135E-03	219.3 40.06	219.3	109.6
40.06	0.000	0.000	Strato2_3095_82743_L_0		
57 D	9.311	-2.1466E-03	223.3 46.56	223.3	111.6
46.56	0.000	0.000	Strato2_3095_82743_L_0		
58 D	10.55	-1.9897E-03	227.3 52.76	227.3	113.7
52.76	0.000	0.000	Strato2_3095_82743_L_0		
59 D	11.74	-1.8424E-03	231.3 58.69	231.3	115.7
58.69	0.000	0.000	Strato2_3095_82743_L_0		
60 D	12.87	-1.7044E-03	235.3 64.34	235.3	117.7
64.34	0.000	0.000	Strato2_3095_82743_L_0		
61 D	13.94	-1.5753E-03	239.2 69.69	239.2	119.6
69.69	0.000	0.000	Strato2_3095_82743_L_0		
62 D	14.97	-1.4545E-03	243.3 74.86	243.3	121.6
74.86	0.000	0.000	Strato2_3095_82743_L_0		
63 D	15.96	-1.3416E-03	247.3 79.80	247.3	123.6
79.80	0.000	0.000	Strato2_3095_82743_L_0		
64 D	16.91	-1.2360E-03	251.3 84.54	251.3	125.6
84.54	0.000	0.000	Strato2_3095_82743_L_0		
65 D	17.82	-1.1372E-03	255.3 89.09	255.3	127.7
89.09	0.000	0.000	Strato2_3095_82743_L_0		
66 D	18.69	-1.0446E-03	259.3 93.47	259.3	129.7
93.47	0.000	0.000	Strato2_3095_82743_L_0		
67 D	19.54	-9.5759E-04	263.3 97.70	263.3	131.7
97.70	0.000	0.000	Strato2_3095_82743_L_0		
68 D	20.36	-8.7568E-04	267.3 101.8	267.3	133.7
101.8	0.000	0.000	Strato2_3095_82743_L_0		
69 D	21.14	-7.9825E-04	271.3 105.7	271.3	135.6
105.7	0.000	0.000	Strato2_3095_82743_L_0		
70 D	21.91	-7.2475E-04	275.3 109.6	275.3	137.6
109.6	0.000	0.000	Strato2_3095_82743_L_0		
71 D	22.67	-6.5464E-04	279.3 113.3	279.3	139.6
113.3	0.000	0.000	Strato2_3095_82743_L_0		
72 D	23.41	-5.8741E-04	283.3 117.0	283.3	141.6
117.0	0.000	0.000	Strato2_3095_82743_L_0		
73 D	24.13	-5.2257E-04	287.3 120.7	287.3	143.7
120.7	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 827 di 1221
22	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
23	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
24	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
25	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
26	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
27	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
28	0.000	--	--	--	--
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29	0.000	--	--	--	--
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32	0.000	--	--	--	--
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33	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
34	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
35	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
36	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
37	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
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41	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
42	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
43	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
44	0.000	--	--	--	--
0.000	0.000	0.000	not available	REMOVED	--
45 D	17.23	4.7899E-03	2.000 86.14 167.3	86.14	V-C 5348.
86.14	0.000	0.000	Strato2_3095_82743_L_0		
46 D	17.65	4.5234E-03	6.000 88.24 171.3	88.24	V-C 5348.
88.24	0.000	0.000	Strato2_3095_82743_L_0		
47 D	17.95	4.2630E-03	10.000 89.73 175.3	89.73	V-C 5348.
89.73	0.000	0.000	Strato2_3095_82743_L_0		
48 D	18.20	4.0098E-03	14.00 91.00 179.3	91.00	V-C 5348.
91.00	0.000	0.000	Strato2_3095_82743_L_0		
49 D	18.31	3.7646E-03	18.00 91.54 183.3	92.51	UL-RL 1.6045E+04
91.54	0.000	0.000	Strato2_3095_82743_L_0		
50 D	18.21	3.5280E-03	22.00 91.04 187.3	94.47	UL-RL 1.6045E+04
91.04	0.000	0.000	Strato2_3095_82743_L_0		
51 D	18.10	3.3006E-03	26.00 90.50 191.3	96.44	UL-RL 1.6045E+04
90.50	0.000	0.000	Strato2_3095_82743_L_0		
52 D	18.00	3.0829E-03	30.00 89.99 195.3	98.41	UL-RL 1.6045E+04
89.99	0.000	0.000	Strato2_3095_82743_L_0		
53 D	17.91	2.8752E-03	34.00 89.53 199.3	100.4	UL-RL 1.6045E+04
89.53	0.000	0.000	Strato2_3095_82743_L_0		
54 D	17.83	2.6777E-03	38.00 89.15 203.3	102.4	UL-RL 1.6045E+04
89.15	0.000	0.000	Strato2_3095_82743_L_0		
55 D	17.77	2.4904E-03	42.00 88.87 207.3	104.3	UL-RL 1.6045E+04
88.87	0.000	0.000	Strato2_3095_82743_L_0		
56 D	17.74	2.3135E-03	46.00 88.70 211.3	106.3	UL-RL 1.6045E+04
88.70	0.000	0.000	Strato2_3095_82743_L_0		
57 D	17.73	2.1466E-03	50.00 88.64 215.3	108.3	UL-RL 1.6045E+04
88.64	0.000	0.000	Strato2_3095_82743_L_0		
58 D	17.74	1.9897E-03	54.00 88.71 219.3	110.3	UL-RL 1.6045E+04
88.71	0.000	0.000	Strato2_3095_82743_L_0		
59 D	17.78	1.8424E-03	58.00 88.89 223.3	112.3	UL-RL 1.6045E+04
88.89	0.000	0.000	Strato2_3095_82743_L_0		
60 D	17.84	1.7044E-03	62.00 89.19 227.3	114.3	UL-RL 1.6045E+04
89.19	0.000	0.000	Strato2_3095_82743_L_0		
61 D	17.92	1.5753E-03	66.00 89.60 231.3	116.3	UL-RL 1.6045E+04
89.60	0.000	0.000	Strato2_3095_82743_L_0		
62 D	18.02	1.4545E-03	70.00 90.12 235.3	118.2	UL-RL 1.6045E+04
90.12	0.000	0.000	Strato2_3095_82743_L_0		
63 D	18.15	1.3416E-03	74.00 90.74 239.3	120.2	UL-RL 1.6045E+04
90.74	0.000	0.000	Strato2_3095_82743_L_0		
64 D	18.29	1.2360E-03	78.00 91.46 243.3	122.2	UL-RL 1.6045E+04



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 828 di 1221
91.46	0.000	0.000	Strato2_3095_82743_L_0		
65 D	18.45	1.1372E-03	82.00 92.26	247.3	124.2
92.26	0.000	0.000	Strato2_3095_82743_L_0		
66 D	18.63	1.0446E-03	86.00 93.15	251.3	126.2
93.15	0.000	0.000	Strato2_3095_82743_L_0		
67 D	18.82	9.5759E-04	90.00 94.11	255.3	128.2
94.11	0.000	0.000	Strato2_3095_82743_L_0		
68 D	19.03	8.7568E-04	94.00 95.13	259.3	130.2
95.13	0.000	0.000	Strato2_3095_82743_L_0		
69 D	19.24	7.9825E-04	98.00 96.21	263.3	132.2
96.21	0.000	0.000	Strato2_3095_82743_L_0		
70 D	19.47	7.2475E-04	102.0 97.34	267.3	134.2
97.34	0.000	0.000	Strato2_3095_82743_L_0		
71 D	19.70	6.5464E-04	106.0 98.50	271.3	136.2
98.50	0.000	0.000	Strato2_3095_82743_L_0		
72 D	19.94	5.8741E-04	110.0 99.71	275.3	138.2
99.71	0.000	0.000	Strato2_3095_82743_L_0		
73 D	20.19	5.2257E-04	114.0 100.9	279.3	140.2
100.9	0.000	0.000	Strato2_3095_82743_L_0		
74 D	20.44	4.5966E-04	118.0 102.2	283.3	142.2
102.2	0.000	0.000	Strato2_3095_82743_L_0		
75 D	20.69	3.9827E-04	122.0 103.5	287.3	144.2
103.5	0.000	0.000	Strato2_3095_82743_L_0		
76 D	20.94	3.3803E-04	126.0 104.7	291.3	146.2
104.7	0.000	0.000	Strato2_3095_82743_L_0		
77 D	21.20	2.7860E-04	130.0 106.0	295.3	148.2
106.0	0.000	0.000	Strato2_3095_82743_L_0		
78 D	21.46	2.1971E-04	134.0 107.3	299.3	150.2
107.3	0.000	0.000	Strato2_3095_82743_L_0		
79 D	21.71	1.6113E-04	138.0 108.6	303.3	152.2
108.6	0.000	0.000	Strato2_3095_82743_L_0		
80 D	21.97	1.0270E-04	142.0 109.8	307.3	154.2
109.8	0.000	0.000	Strato2_3095_82743_L_0		
81 D	11.11	4.4319E-05	146.0 111.1	311.3	156.2
111.1	0.000	0.000	Strato2_3095_82743_L_0		

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1MIR1_3484                                                                                   |
|          Exe Time :29 July 2019  18:01:11                                                                                               |
+-----+
    
```

New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
 CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.35082	-0.35082	-2.47049E-10	7.01632E-02
2	0.95786	-0.95786	-7.01632E-02	0.26174
3	1.8648	-1.8648	-0.26174	0.63469
4	3.0308	-3.0308	-0.63469	1.2408
5	4.4431	-4.4431	-1.2408	2.1295
6	6.0959	-6.0959	-2.1295	3.3486
7	7.9863	-7.9863	-3.3486	4.9459
8	10.112	-10.112	-4.9459	6.9684
9	12.426	-12.426	-6.9684	9.4536
10	14.979	-14.979	-9.4536	12.449
11	17.769	-17.769	-12.449	16.003
12	20.796	-20.796	-16.003	20.162
13	24.058	-24.058	-20.162	24.974
14	27.555	-27.555	-24.974	30.485
15	31.286	-31.286	-30.485	36.742
16	35.225	-35.225	-36.742	43.787
17	-75.049	75.049	-43.787	28.777
18	-70.641	70.641	-28.777	14.649
19	-65.998	65.998	-14.649	1.4497
20	-61.121	61.121	-1.4497	-10.774
21	-56.010	56.010	10.774	-21.976
22	-50.666	50.666	21.976	-32.110
23	-45.089	45.089	32.110	-41.127
24	-39.296	39.296	41.127	-48.987
25	-33.269	33.269	48.987	-55.640
26	-27.010	27.010	55.640	-61.042
27	-20.516	20.516	61.042	-65.146

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
829 di 1221

28	-13.790	13.790	65.146	-67.904
29	-6.8314	6.8314	67.904	-69.270
30	0.36035	-0.36035	69.270	-69.198
31	7.7715	-7.7715	69.198	-67.644
32	15.416	-15.416	67.644	-64.561
33	23.292	-23.292	64.561	-59.902
34	31.402	-31.402	59.902	-53.622
35	39.744	-39.744	53.622	-45.673
36	48.319	-48.319	45.673	-36.009
37	57.127	-57.127	36.009	-24.584
38	66.166	-66.166	24.584	-11.350
39	75.428	-75.428	11.350	3.7352
40	84.922	-84.922	-3.7352	20.720
41	94.648	-94.648	-20.720	39.649
42	104.61	-104.61	-39.649	60.571
43	114.80	-114.80	-60.571	83.530
44	125.22	-125.22	-83.530	108.57
45	112.36	-112.36	-108.57	131.05
46	99.255	-99.255	-131.05	150.90
47	86.044	-86.044	-150.90	168.11
48	72.767	-72.767	-168.11	182.66
49	59.570	-59.570	-182.66	194.57
50	46.663	-46.663	-194.57	203.91
51	34.053	-34.053	-203.91	210.72
52	21.734	-21.734	-210.72	215.06
53	9.6966	-9.6966	-215.06	217.00
54	-2.0825	2.0825	-217.00	216.59
55	-13.205	13.205	-216.59	213.95
56	-22.933	22.933	-213.95	209.36
57	-31.351	31.351	-209.36	203.09
58	-38.540	38.540	-203.09	195.38
59	-44.581	44.581	-195.38	186.46
60	-49.550	49.550	-186.46	176.55
61	-53.532	53.532	-176.55	165.85
62	-56.585	56.585	-165.85	154.53
63	-58.773	58.773	-154.53	142.78
64	-60.157	60.157	-142.78	130.74
65	-60.791	60.791	-130.74	118.59
66	-60.726	60.726	-118.59	106.44
67	-60.008	60.008	-106.44	94.440
68	-58.676	58.676	-94.440	82.705
69	-56.777	56.777	-82.705	71.349
70	-54.330	54.330	-71.349	60.483
71	-51.363	51.363	-60.483	50.211
72	-47.898	47.898	-50.211	40.631
73	-43.952	43.952	-40.631	31.841
74	-39.541	39.541	-31.841	23.932
75	-34.674	34.674	-23.932	16.998
76	-29.369	29.369	-16.998	11.124
77	-23.622	23.622	-11.124	6.3996
78	-17.436	17.436	-6.3996	2.9124
79	-10.812	10.812	-2.9124	0.75006
80	-3.7501	3.7501	-0.75006	3.66790E-14

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019      18:01:11                             |
+-----+

```

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

```

Tirantel_429      :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
CURRENT TIME IS   5.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	118.49	-7.10410E-04	8.61081E-03	0.0000	2633.3	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019      18:01:11                             |
+-----+

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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	2
2	CONVERGENCE :YES	3
3	CONVERGENCE :YES	6
4	CONVERGENCE :YES	4
5	CONVERGENCE :YES	5

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME 0.06 [sec]

DATABASE CREATION CPU TIME..... 0.27 [sec]

3.7. 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:lunedì 29 luglio 2019 18:01:11

* 1: Defining general settings

UNIT m kN

TITLE New Project

DELTA 0.2

option param itemax 100

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)

WALL LeftWall_32 0 -16 0 1

* 3: Defining surfaces for wall(s)

SOIL 0_L LeftWall_32 -16 0 1 0

SOIL 0_R LeftWall_32 -16 0 2 180

* 4: Defining soil layers

*

* Soil Profile (Strato1_2_8_L_0)

*

LDATA Strato1_2_8_L_0 0 LeftWall_32

ATREST 0.53 1 1

WEIGHT 19 9 10

PERMEABILITY 1E-06

RESISTANCE 0 29

YOUNG 2E+04 6E+04

ENDL

*

* Soil Profile (Strato2_3095_82743_L_0)

*

LDATA Strato2_3095_82743_L_0 -8.7 LeftWall_32

ATREST 0.5 0.5 1

WEIGHT 20 10 10

PERMEABILITY 0.0001

RESISTANCE 20 35

YOUNG 5E+04 1.5E+05

ENDL

* 5: Defining structural materials

* Steel material: 108 Name=Fe360 E=206000200 kPa

MATERIAL Fe360_108 2.06E+08

* Concrete material: 104 Name=C25/30 E=31475800 kPa

MATERIAL C2530_104 3.148E+07

* Rebar material: 124 Name=acciaio armonico E=200100000 kPa

MATERIAL acciaioarmonico_124 2.001E+08

* Concrete material: 103 Name=C20/25 E=29962000 kPa

MATERIAL C2025_103 2.996E+07

* 6: Defining structural elements

* 6.1: Beams and combined Wall Elements

BEAM WallElement_33 LeftWall_32 -16 0 C2530_104 0.6848 00 00 0

* 6.2: Supports

WIRE Tirantel_429 LeftWall_32 -3.2 acciaioarmonico_124 1.316E-05 93.94 15 0 0

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 831 di 1221
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* 6.3: Strips
STRIP LeftWall_32 2 5 0 40 0 13 30

* 7: Defining Steps
STEP Stage1_31
CHANGE Strato1_2_8_L_0 U-FRICT=23.91 LeftWall_32
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato1_2_8_L_0 U-KA=0.375 LeftWall_32
CHANGE Strato1_2_8_L_0 U-KP=3.038 LeftWall_32
CHANGE Strato1_2_8_L_0 D-KA=0.375 LeftWall_32
CHANGE Strato1_2_8_L_0 D-KP=3.038 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-FRICT=29.26 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-KA=0.3 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-KP=4.102 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-KA=0.3 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-KP=4.102 LeftWall_32
CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-COHE=16 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -26 0 -16 0 0
ADD WallElement_33
ENDSTEP

STEP Stage2_755438
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -26 0 -16 0 0
ENDSTEP

STEP Stage3_158
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -3.7
WATER -26 0 -16 0 0
ENDSTEP

STEP Stage4_617
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -3.7
WATER -26 0 -16 0 0
ADD Tirantel_429
ENDSTEP

STEP Stage5_714
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -8.7
WATER -26 0 -16 0 0
ENDSTEP

```

3.8. Design Assumption : A2+M2+R1 - File di Paratie - File di output (.out)

```

+-----+
|          PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION   *Build date:Jul 11, 2017*          |
|          |
|          NewProject.BaseDesignSection_28.A2M2R1_3514          |
|          Exe Time :29 July 2019          18:01:11          |
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 832 di 1221
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```

* PARATIE PLUS Non-Linear Spring Engine *
*
* AN ELASTOPLASTIC FINITE ELEMENT PROGRAM *
* FOR FLEXIBLE EARTH-RETAINING STRUCTURES *
*
* Written by Ce.A.S. s.r.l. (ITALY) *
* with the scientific supervision of *
* Roberto Nova - full professor SOIL MECHANICS *
* at Politecnico di Milano (ITALY) *
*
*****
*
* RELEASE 2017.1 *Build date:Jul 11, 2017* *
*
* Ce.A.S. S.R.L CENTRO DI ANALISI STRUTTURALE *
* VIALE GIUSTINIANO 10 *
* 20129 M I L A N O (ITALIA) *
* TEL. +39 02 2020221 (+39 035 23 67 19) *
* FAX +39 02 29512533 (+39 035 42285 49) *
* email bruno.becci@ceas.it *
* Web Page www.ceas.it *
*****

```

```

JOB : NewProject.BaseDesignSection_28.A2M2R1_3514
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL STRESS >
ACCEPTED <PARAM ITEMAX 100 >
ACCEPTED <CONTROL HINGES 0 0.0001 0.001 >

```

```

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

```

PRELIMINARY OPERATIONS CPU TIME 0.01 [sec]

```

-----
| PARATIEPLUS(TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| |
| NewProject.BaseDesignSection_28.A2M2R1_3514 |
| Exe Time :29 July 2019 18:01:11 |
|-----

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 81
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 162
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 4
NO. OF SOLUTION STEPS (NSTE)..... 5
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 88
NO. OF LONG NAMES (LASTNAME) ..... 21
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH..... 1
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

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
833 di 1221

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.

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-----+-----  
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |  
|  
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |  
|          Exe Time :29 July 2019  18:01:11  |  
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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 88

```
1 : UNIT m kN  
2 : TITLE New Project  
3 : DELTA 0.2  
4 : option param itemax 100  
5 : option control hinges 0 0.0001 0.001  
6 : WALL LeftWall_32 0 -16 0 1  
7 : SOIL 0_L LeftWall_32 -16 0 1 0  
8 : SOIL 0_R LeftWall_32 -16 0 2 180  
9 : LDATA Strato1_2_8_L_0 0 LeftWall_32  
10 : ATREST 0.53 1 1  
11 : WEIGHT 19 9 10  
12 : PERMEABILITY 1E-06  
13 : RESISTANCE 0 29  
14 : YOUNG 2E+04 6E+04  
15 : ENDL  
16 : LDATA Strato2_3095_82743_L_0 -8.7 LeftWall_32  
17 : ATREST 0.5 0.5 1  
18 : WEIGHT 20 10 10  
19 : PERMEABILITY 0.0001  
20 : RESISTANCE 20 35  
21 : YOUNG 5E+04 1.5E+05  
22 : ENDL  
23 : MATERIAL Fe360_108 2.06E+08  
24 : MATERIAL C2530_104 3.148E+07  
25 : MATERIAL acciaioarmonico_124 2.001E+08  
26 : MATERIAL C2025_103 2.996E+07  
27 : BEAM WallElement_33 LeftWall_32 -16 0 C2530_104 0.6848 00 00 0  
28 : WIRE Tirantel_429 LeftWall_32 -3.2 acciaioarmonico_124 1.316E-05 93.94 15 0 0  
29 : STRIP LeftWall_32 2 5 0 40 0 13 30  
30 : STEP Stage1_31  
31 : CHANGE Strato1_2_8_L_0 U-FRICT=23.91 LeftWall_32  
32 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32  
33 : CHANGE Strato1_2_8_L_0 U-KA=0.375 LeftWall_32  
34 : CHANGE Strato1_2_8_L_0 U-KP=3.038 LeftWall_32  
35 : CHANGE Strato1_2_8_L_0 D-KA=0.375 LeftWall_32  
36 : CHANGE Strato1_2_8_L_0 D-KP=3.038 LeftWall_32  
37 : CHANGE Strato2_3095_82743_L_0 U-FRICT=29.26 LeftWall_32  
38 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32  
39 : CHANGE Strato2_3095_82743_L_0 U-KA=0.3 LeftWall_32  
40 : CHANGE Strato2_3095_82743_L_0 U-KP=4.102 LeftWall_32  
41 : CHANGE Strato2_3095_82743_L_0 D-KA=0.3 LeftWall_32  
42 : CHANGE Strato2_3095_82743_L_0 D-KP=4.102 LeftWall_32  
43 : CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32  
44 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32  
45 : CHANGE Strato2_3095_82743_L_0 U-COHE=16 LeftWall_32  
46 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32  
47 : SETWALL LeftWall_32  
48 : GEOM 0 0  
49 : WATER -26 0 -16 0 0  
50 : ADD WallElement_33  
51 : ENDSTEP  
52 : STEP Stage2_755438  
53 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32  
54 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32  
55 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32  
56 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32  
57 : SETWALL LeftWall_32  
58 : GEOM 0 0  
59 : WATER -26 0 -16 0 0  
60 : ENDSTEP  
61 : STEP Stage3_158  
62 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
```



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 834 di 1221
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63 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
64 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
65 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
66 : SETWALL LeftWall_32
67 : GEOM 0 -3.7
68 : WATER -26 0 -16 0 0
69 : ENDSTEP
70 : STEP Stage4_617
71 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
72 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
73 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
74 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
75 : SETWALL LeftWall_32
76 : GEOM 0 -3.7
77 : WATER -26 0 -16 0 0
78 : ADD Tirante1_429
79 : ENDSTEP
80 : STEP Stage5_714
81 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
82 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
83 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
84 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
85 : SETWALL LeftWall_32
86 : GEOM 0 -8.7
87 : WATER -26 0 -16 0 0
88 : ENDSTEP
    
```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      18:01:11
|
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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 / NODE	Y-COORD	Z-COORD / NODE	
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	-10.2000 /
53	0.0000	-10.4000 /	54	0.0000	-10.6000 /	55	0.0000	-10.8000 /	56	0.0000	-11.0000 /
57	0.0000	-11.2000 /	58	0.0000	-11.4000 /	59	0.0000	-11.6000 /	60	0.0000	-11.8000 /
61	0.0000	-12.0000 /	62	0.0000	-12.2000 /	63	0.0000	-12.4000 /	64	0.0000	-12.6000 /
65	0.0000	-12.8000 /	66	0.0000	-13.0000 /	67	0.0000	-13.2000 /	68	0.0000	-13.4000 /
69	0.0000	-13.6000 /	70	0.0000	-13.8000 /	71	0.0000	-14.0000 /	72	0.0000	-14.2000 /
73	0.0000	-14.4000 /	74	0.0000	-14.6000 /	75	0.0000	-14.8000 /	76	0.0000	-15.0000 /
77	0.0000	-15.2000 /	78	0.0000	-15.4000 /	79	0.0000	-15.6000 /	80	0.0000	-15.8000 /
81	0.0000	-16.0000 /									

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      18:01:11
|
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```

```

ELEMENT GROUP NO. 1
0_L :
_5 81 0 1 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0
    
```

.....2D PLASTIC SOIL

element group behaviour throughout stage analysis

stage	status
1	active
2	active

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 835 di 1221
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3 active
4 active
5 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

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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	0.2000	0.000	0.000	0.000	1.000
28	28	1	0.2000	0.000	0.000	0.000	1.000
29	29	1	0.2000	0.000	0.000	0.000	1.000
30	30	1	0.2000	0.000	0.000	0.000	1.000
31	31	1	0.2000	0.000	0.000	0.000	1.000
32	32	1	0.2000	0.000	0.000	0.000	1.000
33	33	1	0.2000	0.000	0.000	0.000	1.000
34	34	1	0.2000	0.000	0.000	0.000	1.000
35	35	1	0.2000	0.000	0.000	0.000	1.000
36	36	1	0.2000	0.000	0.000	0.000	1.000
37	37	1	0.2000	0.000	0.000	0.000	1.000
38	38	1	0.2000	0.000	0.000	0.000	1.000
39	39	1	0.2000	0.000	0.000	0.000	1.000
40	40	1	0.2000	0.000	0.000	0.000	1.000
41	41	1	0.2000	0.000	0.000	0.000	1.000
42	42	1	0.2000	0.000	0.000	0.000	1.000
43	43	1	0.2000	0.000	0.000	0.000	1.000
44	44	1	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	2	0.2000	0.000	0.000	0.000	1.000
63	63	2	0.2000	0.000	0.000	0.000	1.000
64	64	2	0.2000	0.000	0.000	0.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 836 di 1221
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65	65	2	0.2000	0.000	0.000	0.000	1.000
66	66	2	0.2000	0.000	0.000	0.000	1.000
67	67	2	0.2000	0.000	0.000	0.000	1.000
68	68	2	0.2000	0.000	0.000	0.000	1.000
69	69	2	0.2000	0.000	0.000	0.000	1.000
70	70	2	0.2000	0.000	0.000	0.000	1.000
71	71	2	0.2000	0.000	0.000	0.000	1.000
72	72	2	0.2000	0.000	0.000	0.000	1.000
73	73	2	0.2000	0.000	0.000	0.000	1.000
74	74	2	0.2000	0.000	0.000	0.000	1.000
75	75	2	0.2000	0.000	0.000	0.000	1.000
76	76	2	0.2000	0.000	0.000	0.000	1.000
77	77	2	0.2000	0.000	0.000	0.000	1.000
78	78	2	0.2000	0.000	0.000	0.000	1.000
79	79	2	0.2000	0.000	0.000	0.000	1.000
80	80	2	0.2000	0.000	0.000	0.000	1.000
81	81	2	0.1000	0.000	0.000	0.000	1.000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                    |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:01:12  |
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```

```

ELEMENT GROUP NO.  2

0_R      :
  5 81  0  1  0  0  0  0  0  0  0  0  0  0  0  2  0  0  0  0
.....
.....2D PLASTIC SOIL .....
.....

```

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	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

```

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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
837 di 1221

24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	0.2000	0.000	0.000	0.000	2.000
28	28	1	0.2000	0.000	0.000	0.000	2.000
29	29	1	0.2000	0.000	0.000	0.000	2.000
30	30	1	0.2000	0.000	0.000	0.000	2.000
31	31	1	0.2000	0.000	0.000	0.000	2.000
32	32	1	0.2000	0.000	0.000	0.000	2.000
33	33	1	0.2000	0.000	0.000	0.000	2.000
34	34	1	0.2000	0.000	0.000	0.000	2.000
35	35	1	0.2000	0.000	0.000	0.000	2.000
36	36	1	0.2000	0.000	0.000	0.000	2.000
37	37	1	0.2000	0.000	0.000	0.000	2.000
38	38	1	0.2000	0.000	0.000	0.000	2.000
39	39	1	0.2000	0.000	0.000	0.000	2.000
40	40	1	0.2000	0.000	0.000	0.000	2.000
41	41	1	0.2000	0.000	0.000	0.000	2.000
42	42	1	0.2000	0.000	0.000	0.000	2.000
43	43	1	0.2000	0.000	0.000	0.000	2.000
44	44	1	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	2	0.2000	0.000	0.000	0.000	2.000
63	63	2	0.2000	0.000	0.000	0.000	2.000
64	64	2	0.2000	0.000	0.000	0.000	2.000
65	65	2	0.2000	0.000	0.000	0.000	2.000
66	66	2	0.2000	0.000	0.000	0.000	2.000
67	67	2	0.2000	0.000	0.000	0.000	2.000
68	68	2	0.2000	0.000	0.000	0.000	2.000
69	69	2	0.2000	0.000	0.000	0.000	2.000
70	70	2	0.2000	0.000	0.000	0.000	2.000
71	71	2	0.2000	0.000	0.000	0.000	2.000
72	72	2	0.2000	0.000	0.000	0.000	2.000
73	73	2	0.2000	0.000	0.000	0.000	2.000
74	74	2	0.2000	0.000	0.000	0.000	2.000
75	75	2	0.2000	0.000	0.000	0.000	2.000
76	76	2	0.2000	0.000	0.000	0.000	2.000
77	77	2	0.2000	0.000	0.000	0.000	2.000
78	78	2	0.2000	0.000	0.000	0.000	2.000
79	79	2	0.2000	0.000	0.000	0.000	2.000
80	80	2	0.2000	0.000	0.000	0.000	2.000
81	81	2	0.1000	0.000	0.000	0.000	2.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514 |
|          Exe Time :29 July 2019      18:01:12 |
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```

```

ELEMENT GROUP NO. 3

Wallelement_33
2 80 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
4  active
5  active

```

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
838 di 1221

material set no. 1

prop(1) young modulus 0.314800E+08
 prop(2) modification time 0.00000
 prop(3) new young modulus 0.00000
 prop(4) poisson ratio 0.00000
 prop(5) future0.252200E-43

no. of step variable items: 1
 step inertia multiplier

 1 1.000
 2 1.000
 3 1.000
 4 1.000
 5 1.000

element data

el	na	nb	mat	erc1	erc2	thick	by-i	by-j
1	1	2	1	0.000	0.000	0.6848	0.000	0.000
2	2	3	1	0.000	0.000	0.6848	0.000	0.000
3	3	4	1	0.000	0.000	0.6848	0.000	0.000
4	4	5	1	0.000	0.000	0.6848	0.000	0.000
5	5	6	1	0.000	0.000	0.6848	0.000	0.000
6	6	7	1	0.000	0.000	0.6848	0.000	0.000
7	7	8	1	0.000	0.000	0.6848	0.000	0.000
8	8	9	1	0.000	0.000	0.6848	0.000	0.000
9	9	10	1	0.000	0.000	0.6848	0.000	0.000
10	10	11	1	0.000	0.000	0.6848	0.000	0.000
11	11	12	1	0.000	0.000	0.6848	0.000	0.000
12	12	13	1	0.000	0.000	0.6848	0.000	0.000
13	13	14	1	0.000	0.000	0.6848	0.000	0.000
14	14	15	1	0.000	0.000	0.6848	0.000	0.000
15	15	16	1	0.000	0.000	0.6848	0.000	0.000
16	16	17	1	0.000	0.000	0.6848	0.000	0.000
17	17	18	1	0.000	0.000	0.6848	0.000	0.000
18	18	19	1	0.000	0.000	0.6848	0.000	0.000
19	19	20	1	0.000	0.000	0.6848	0.000	0.000
20	20	21	1	0.000	0.000	0.6848	0.000	0.000
21	21	22	1	0.000	0.000	0.6848	0.000	0.000
22	22	23	1	0.000	0.000	0.6848	0.000	0.000
23	23	24	1	0.000	0.000	0.6848	0.000	0.000
24	24	25	1	0.000	0.000	0.6848	0.000	0.000
25	25	26	1	0.000	0.000	0.6848	0.000	0.000
26	26	27	1	0.000	0.000	0.6848	0.000	0.000
27	27	28	1	0.000	0.000	0.6848	0.000	0.000
28	28	29	1	0.000	0.000	0.6848	0.000	0.000
29	29	30	1	0.000	0.000	0.6848	0.000	0.000
30	30	31	1	0.000	0.000	0.6848	0.000	0.000
31	31	32	1	0.000	0.000	0.6848	0.000	0.000
32	32	33	1	0.000	0.000	0.6848	0.000	0.000
33	33	34	1	0.000	0.000	0.6848	0.000	0.000
34	34	35	1	0.000	0.000	0.6848	0.000	0.000
35	35	36	1	0.000	0.000	0.6848	0.000	0.000
36	36	37	1	0.000	0.000	0.6848	0.000	0.000
37	37	38	1	0.000	0.000	0.6848	0.000	0.000
38	38	39	1	0.000	0.000	0.6848	0.000	0.000
39	39	40	1	0.000	0.000	0.6848	0.000	0.000
40	40	41	1	0.000	0.000	0.6848	0.000	0.000
41	41	42	1	0.000	0.000	0.6848	0.000	0.000
42	42	43	1	0.000	0.000	0.6848	0.000	0.000
43	43	44	1	0.000	0.000	0.6848	0.000	0.000
44	44	45	1	0.000	0.000	0.6848	0.000	0.000
45	45	46	1	0.000	0.000	0.6848	0.000	0.000
46	46	47	1	0.000	0.000	0.6848	0.000	0.000
47	47	48	1	0.000	0.000	0.6848	0.000	0.000
48	48	49	1	0.000	0.000	0.6848	0.000	0.000
49	49	50	1	0.000	0.000	0.6848	0.000	0.000
50	50	51	1	0.000	0.000	0.6848	0.000	0.000
51	51	52	1	0.000	0.000	0.6848	0.000	0.000
52	52	53	1	0.000	0.000	0.6848	0.000	0.000
53	53	54	1	0.000	0.000	0.6848	0.000	0.000
54	54	55	1	0.000	0.000	0.6848	0.000	0.000
55	55	56	1	0.000	0.000	0.6848	0.000	0.000
56	56	57	1	0.000	0.000	0.6848	0.000	0.000
57	57	58	1	0.000	0.000	0.6848	0.000	0.000
58	58	59	1	0.000	0.000	0.6848	0.000	0.000
59	59	60	1	0.000	0.000	0.6848	0.000	0.000
60	60	61	1	0.000	0.000	0.6848	0.000	0.000
61	61	62	1	0.000	0.000	0.6848	0.000	0.000
62	62	63	1	0.000	0.000	0.6848	0.000	0.000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 839 di 1221
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63	63	64	1	0.000	0.000	0.6848	0.000	0.000
64	64	65	1	0.000	0.000	0.6848	0.000	0.000
65	65	66	1	0.000	0.000	0.6848	0.000	0.000
66	66	67	1	0.000	0.000	0.6848	0.000	0.000
67	67	68	1	0.000	0.000	0.6848	0.000	0.000
68	68	69	1	0.000	0.000	0.6848	0.000	0.000
69	69	70	1	0.000	0.000	0.6848	0.000	0.000
70	70	71	1	0.000	0.000	0.6848	0.000	0.000
71	71	72	1	0.000	0.000	0.6848	0.000	0.000
72	72	73	1	0.000	0.000	0.6848	0.000	0.000
73	73	74	1	0.000	0.000	0.6848	0.000	0.000
74	74	75	1	0.000	0.000	0.6848	0.000	0.000
75	75	76	1	0.000	0.000	0.6848	0.000	0.000
76	76	77	1	0.000	0.000	0.6848	0.000	0.000
77	77	78	1	0.000	0.000	0.6848	0.000	0.000
78	78	79	1	0.000	0.000	0.6848	0.000	0.000
79	79	80	1	0.000	0.000	0.6848	0.000	0.000
80	80	81	1	0.000	0.000	0.6848	0.000	0.000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      18:01:12
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ELEMENT GROUP NO.  4

Tirante1_429      :
6  1  0  1  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  2  0

```

```

.....2D POST-TENSION ANCHOR....
.....

element group behaviour throughout stage analysis

stage  status
-----
1  inactive
2  inactive
3  inactive
4  active
5  active

```

```

material set no.  1

prop( 1) angle      15.0000
prop( 2) young modulus 0.200100E+09
prop( 3) modification time 0.00000
prop( 4) new young modulus 0.00000

```

```

no. of step variable items:  2
step  -ve lim  +ve lim
-----
1  0.000  0.000
2  0.000  0.000
3  0.000  0.000
4  0.000  0.000
5  0.000  0.000

```

```

element data

el  n  mat      a/l  pinit  yieldc  yieldt
-----
1  17  1  0.1316E-04  93.94  0.000  0.000

```

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      18:01:12
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NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 10
MAXIMUM POINTS/LCURVE (NPTM)..... 5

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GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
840 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      18:01:12        |
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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
6.00000	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
6.00000	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
6.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
4.20000	0.0000E+00
6.00000	0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
5.20000	0.0000E+00
6.00000	0.0000E+00

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
6.00000	0.1000E+01

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
841 di 1221

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
6.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A2M2R1_3514          |
|          Exe Time :29 July 2019          18:01:12          |
|                                                                                                                                            |
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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
STEP	4	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	4	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 842 di 1221
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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      18:01:12
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NO. OF LAYERS 2
NO. OF DATA PER LAYER..... 100

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      18:01:12
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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 >= 14.000 (BOTH WALLS)
- ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
- ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 23.910 WALL NO. 1
- ITEM NO. 9<U-FRICT >= 29.000 WALL NO. 2
- ITEM NO. 10<U-KA >= 0.37500 WALL NO. 1
- ITEM NO. 11<U-KP >= 3.0380 WALL NO. 1
- ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
- ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
- ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
- ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
- ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
- ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
- ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
- ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
- ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
- ITEM NO. 59<D-FRICT >= 23.910 WALL NO. 1
- ITEM NO. 59<D-FRICT >= 29.000 WALL NO. 2
- ITEM NO. 60<D-KA >= 0.37500 WALL NO. 1
- ITEM NO. 61<D-KP >= 3.0380 WALL NO. 1
- ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

- ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
- ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
- ITEM NO. 3<LEVEL >= -8.7000 (BOTH WALLS)
- ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
- ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
- ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
- ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
- ITEM NO. 8<U-COHE >= 16.000 WALL NO. 1
- ITEM NO. 8<U-COHE >= 20.000 WALL NO. 2
- ITEM NO. 9<U-FRICT >= 29.260 WALL NO. 1
- ITEM NO. 9<U-FRICT >= 35.000 WALL NO. 2
- ITEM NO. 10<U-KA >= 0.30000 WALL NO. 1
- ITEM NO. 11<U-KP >= 4.1020 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 >= 50000. (BOTH WALLS)
- ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
- ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
- ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
- ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
- ITEM NO. 58<D-COHE >= 16.000 WALL NO. 1
- ITEM NO. 58<D-COHE >= 20.000 WALL NO. 2
- ITEM NO. 59<D-FRICT >= 29.260 WALL NO. 1
- ITEM NO. 59<D-FRICT >= 35.000 WALL NO. 2
- ITEM NO. 60<D-KA >= 0.30000 WALL NO. 1

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 843 di 1221
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ITEM NO. 61<D-KP >= 4.1020 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

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

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.37500 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.0380 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.37500 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.0380 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -8.7000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 16.000 WALL NO. 1
 ITEM NO. 8<U-COHE >= 20.000 WALL NO. 2
 ITEM NO. 9<U-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.30000 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.1020 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 16.000 WALL NO. 1
 ITEM NO. 58<D-COHE >= 20.000 WALL NO. 2
 ITEM NO. 59<D-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.30000 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.1020 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.37500 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.0380 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 844 di 1221
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ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.37500 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.0380 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -8.7000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 16.000 WALL NO. 1
 ITEM NO. 8<U-COHE >= 20.000 WALL NO. 2
 ITEM NO. 9<U-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.30000 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.1020 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 16.000 WALL NO. 1
 ITEM NO. 58<D-COHE >= 20.000 WALL NO. 2
 ITEM NO. 59<D-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.30000 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.1020 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.37500 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.0380 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.37500 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.0380 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -8.7000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 16.000 WALL NO. 1

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 845 di 1221
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ITEM NO.	8<U-COHE >=	20.000	WALL NO.	2
ITEM NO.	9<U-FRICT >=	29.260	WALL NO.	1
ITEM NO.	9<U-FRICT >=	35.000	WALL NO.	2
ITEM NO.	10<U-KA >=	0.30000	WALL NO.	1
ITEM NO.	11<U-KP >=	4.1020	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 >=	50000.	(BOTH WALLS)	
ITEM NO.	18<EUR >=	0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM >=	0.10000E-03	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>=	1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL >=	0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE >=	16.000	WALL NO.	1
ITEM NO.	58<D-COHE >=	20.000	WALL NO.	2
ITEM NO.	59<D-FRICT >=	29.260	WALL NO.	1
ITEM NO.	59<D-FRICT >=	35.000	WALL NO.	2
ITEM NO.	60<D-KA >=	0.30000	WALL NO.	1
ITEM NO.	61<D-KP >=	4.1020	WALL NO.	1
ITEM NO.	77<D-PERM >=	0.10000E-03	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 5

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 5

ITEM NO.	1<NAME >=	14.000	(BOTH WALLS)	
ITEM NO.	2<NATURE >=	1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL >=	0.0000	(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.	9<U-FRICT >=	23.910	WALL NO.	1
ITEM NO.	9<U-FRICT >=	29.000	WALL NO.	2
ITEM NO.	10<U-KA >=	0.37500	WALL NO.	1
ITEM NO.	11<U-KP >=	3.0380	WALL NO.	1
ITEM NO.	12<K0-NC >=	0.53000	(BOTH WALLS)	
ITEM NO.	13<NEXP >=	1.0000	(BOTH WALLS)	
ITEM NO.	14<OCR >=	1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL >=	1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC >=	20000.	(BOTH WALLS)	
ITEM NO.	18<EUR >=	60000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM >=	0.10000E-05	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>=	1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL >=	0.0000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT >=	23.910	WALL NO.	1
ITEM NO.	59<D-FRICT >=	29.000	WALL NO.	2
ITEM NO.	60<D-KA >=	0.37500	WALL NO.	1
ITEM NO.	61<D-KP >=	3.0380	WALL NO.	1
ITEM NO.	77<D-PERM >=	0.10000E-05	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 5

ITEM NO.	1<NAME >=	15.000	(BOTH WALLS)	
ITEM NO.	2<NATURE >=	1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL >=	-8.7000	(BOTH WALLS)	
ITEM NO.	4<WALL >=	1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD >=	20.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB >=	10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW >=	10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE >=	16.000	WALL NO.	1
ITEM NO.	8<U-COHE >=	20.000	WALL NO.	2
ITEM NO.	9<U-FRICT >=	29.260	WALL NO.	1
ITEM NO.	9<U-FRICT >=	35.000	WALL NO.	2
ITEM NO.	10<U-KA >=	0.30000	WALL NO.	1
ITEM NO.	11<U-KP >=	4.1020	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 >=	50000.	(BOTH WALLS)	
ITEM NO.	18<EUR >=	0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM >=	0.10000E-03	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>=	1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL >=	0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE >=	16.000	WALL NO.	1
ITEM NO.	58<D-COHE >=	20.000	WALL NO.	2
ITEM NO.	59<D-FRICT >=	29.260	WALL NO.	1
ITEM NO.	59<D-FRICT >=	35.000	WALL NO.	2
ITEM NO.	60<D-KA >=	0.30000	WALL NO.	1
ITEM NO.	61<D-KP >=	4.1020	WALL NO.	1
ITEM NO.	77<D-PERM >=	0.10000E-03	(BOTH WALLS)	

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
846 di 1221

DEFAULT WATER UNIT WEIGHT = 10.000
AVERAGED ON 10 VALUES



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 847 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:01:12  |
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PHASE DESCRIPTORS

STEP NO.	1	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-16.00	-16.00
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	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-16.00	-16.00
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

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
848 di 1221

=====end of step 2

STEP NO.	3	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-3.700	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-16.00	-16.00
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

STEP NO.	4	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-3.700	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-16.00	-16.00
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 4

STEP NO.	5	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-8.700	0.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 849 di 1221
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Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-16.00	-16.00
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 5

LEFT-HAND WALL

LOWER LEVEL	-16.00000
UPPER LEVEL	0.00000

RIGHT-HAND WALL

LOWER LEVEL	-16.00000
UPPER LEVEL	0.00000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019    18:01:12                               |
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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 2.0000

END TIME (TIME BEYOND WHICH IT IS REMOVED) 5.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY)	0.0000000000000000E+000
FOUNDATION WIDTH (B)	40.000000000000000
ZETA-F.....	0.0000000000000000E+000
Q-F	13.000000000000000
BETA	30.000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING)	0.0000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT POSITION 3781

NO. OF D.P.W FOR THIS AREA 9608

MAX NO. OF D.P.W. AVAILABLE 81920

** MAX NO OF ITERATIONS SET TO 100

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
850 di 1221

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.5117E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 30.73 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.5117E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 162 NODE 81 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000
RINORM=0.5117E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 30.73 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.5117E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 162 NODE 81 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.5117E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 30.73 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.5117E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 162 NODE 81 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 851 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      18:01:12        |
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New Project
 SOLUTION REACHED USING 2 ITERATIONS ON 100
 PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)
 PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

Y-DISPL.F X-ROT. F
 (02) (04) (

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      18:01:12        |
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New Project
 STRESS RESULTS FOR GROUP NO. 1
 0_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
 CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	1.4411E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_2_8_L_0									
2 D	0.4028	0.000	3.800	2.014	3.800	2.014	V-C	1.4411E+04	-0.2000	0.000	1.000	1.000
2.014	0.000	0.000	Strato1_2_8_L_0									
3 D	0.8056	0.000	7.600	4.028	7.600	4.028	V-C	1.4411E+04	-0.4000	0.000	1.000	1.000
4.028	0.000	0.000	Strato1_2_8_L_0									
4 D	1.208	0.000	11.40	6.042	11.40	6.042	V-C	1.4411E+04	-0.6000	0.000	1.000	1.000
6.042	0.000	0.000	Strato1_2_8_L_0									
5 D	1.611	0.000	15.20	8.056	15.20	8.056	V-C	1.4411E+04	-0.8000	0.000	1.000	1.000
8.056	0.000	0.000	Strato1_2_8_L_0									
6 D	2.014	0.000	19.00	10.07	19.00	10.07	V-C	1.4411E+04	-1.000	0.000	1.000	1.000
10.07	0.000	0.000	Strato1_2_8_L_0									
7 D	2.417	0.000	22.80	12.08	22.80	12.08	V-C	1.4411E+04	-1.200	0.000	1.000	1.000
12.08	0.000	0.000	Strato1_2_8_L_0									
8 D	2.820	0.000	26.60	14.10	26.60	14.10	V-C	1.4411E+04	-1.400	0.000	1.000	1.000
14.10	0.000	0.000	Strato1_2_8_L_0									
9 D	3.222	0.000	30.40	16.11	30.40	16.11	V-C	1.4411E+04	-1.600	0.000	1.000	1.000
16.11	0.000	0.000	Strato1_2_8_L_0									
10 D	3.625	0.000	34.20	18.13	34.20	18.13	V-C	1.4411E+04	-1.800	0.000	1.000	1.000
18.13	0.000	0.000	Strato1_2_8_L_0									
11 D	4.028	0.000	38.00	20.14	38.00	20.14	V-C	1.4411E+04	-2.000	0.000	1.000	1.000
20.14	0.000	0.000	Strato1_2_8_L_0									
12 D	4.431	0.000	41.80	22.15	41.80	22.15	V-C	1.4411E+04	-2.200	0.000	1.000	1.000
22.15	0.000	0.000	Strato1_2_8_L_0									
13 D	4.834	0.000	45.60	24.17	45.60	24.17	V-C	1.4411E+04	-2.400	0.000	1.000	1.000
24.17	0.000	0.000	Strato1_2_8_L_0									
14 D	5.236	0.000	49.40	26.18	49.40	26.18	V-C	1.4411E+04	-2.600	0.000	1.000	1.000
26.18	0.000	0.000	Strato1_2_8_L_0									
15 D	5.639	0.000	53.20	28.20	53.20	28.20	V-C	1.4411E+04	-2.800	0.000	1.000	1.000
28.20	0.000	0.000	Strato1_2_8_L_0									
16 D	6.042	0.000	57.00	30.21	57.00	30.21	V-C	1.4411E+04	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Strato1_2_8_L_0									
17 D	6.445	0.000	60.80	32.22	60.80	32.22	V-C	1.4411E+04	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Strato1_2_8_L_0									
18 D	6.848	0.000	64.60	34.24	64.60	34.24	V-C	1.4411E+04	-3.400	0.000	1.000	1.000

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Doc. N.				Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 852 di 1221
34.24	0.000	0.000	Strato1_2_8_L_0					
19 D	7.250	0.000	68.40 36.25	68.40	36.25	V-C 1.4411E+04 -3.600	0.000	1.000
36.25	0.000	0.000	Strato1_2_8_L_0					
20 D	7.653	0.000	72.20 38.27	72.20	38.27	V-C 1.4411E+04 -3.800	0.000	1.000
38.27	0.000	0.000	Strato1_2_8_L_0					
21 D	8.056	0.000	76.00 40.28	76.00	40.28	V-C 1.4411E+04 -4.000	0.000	1.000
40.28	0.000	0.000	Strato1_2_8_L_0					
22 D	8.459	0.000	79.80 42.29	79.80	42.29	V-C 1.4411E+04 -4.200	0.000	1.000
42.29	0.000	0.000	Strato1_2_8_L_0					
23 D	8.862	0.000	83.60 44.31	83.60	44.31	V-C 1.4411E+04 -4.400	0.000	1.000
44.31	0.000	0.000	Strato1_2_8_L_0					
24 D	9.264	0.000	87.40 46.32	87.40	46.32	V-C 1.4411E+04 -4.600	0.000	1.000
46.32	0.000	0.000	Strato1_2_8_L_0					
25 D	9.667	0.000	91.20 48.34	91.20	48.34	V-C 1.4411E+04 -4.800	0.000	1.000
48.34	0.000	0.000	Strato1_2_8_L_0					
26 D	10.07	0.000	95.00 50.35	95.00	50.35	V-C 1.4411E+04 -5.000	0.000	1.000
50.35	0.000	0.000	Strato1_2_8_L_0					
27 D	10.47	0.000	98.80 52.36	98.80	52.36	V-C 1.4411E+04 -5.200	0.000	1.000
52.36	0.000	0.000	Strato1_2_8_L_0					
28 D	10.88	0.000	102.6 54.38	102.6	54.38	V-C 1.4411E+04 -5.400	0.000	1.000
54.38	0.000	0.000	Strato1_2_8_L_0					
29 D	11.28	0.000	106.4 56.39	106.4	56.39	V-C 1.4411E+04 -5.600	0.000	1.000
56.39	0.000	0.000	Strato1_2_8_L_0					
30 D	11.68	0.000	110.2 58.41	110.2	58.41	V-C 1.4411E+04 -5.800	0.000	1.000
58.41	0.000	0.000	Strato1_2_8_L_0					
31 D	12.08	0.000	114.0 60.42	114.0	60.42	V-C 1.4411E+04 -6.000	0.000	1.000
60.42	0.000	0.000	Strato1_2_8_L_0					
32 D	12.49	0.000	117.8 62.43	117.8	62.43	V-C 1.4411E+04 -6.200	0.000	1.000
62.43	0.000	0.000	Strato1_2_8_L_0					
33 D	12.89	0.000	121.6 64.45	121.6	64.45	V-C 1.4411E+04 -6.400	0.000	1.000
64.45	0.000	0.000	Strato1_2_8_L_0					
34 D	13.29	0.000	125.4 66.46	125.4	66.46	V-C 1.4411E+04 -6.600	0.000	1.000
66.46	0.000	0.000	Strato1_2_8_L_0					
35 D	13.70	0.000	129.2 68.48	129.2	68.48	V-C 1.4411E+04 -6.800	0.000	1.000
68.48	0.000	0.000	Strato1_2_8_L_0					
36 D	14.10	0.000	133.0 70.49	133.0	70.49	V-C 1.4411E+04 -7.000	0.000	1.000
70.49	0.000	0.000	Strato1_2_8_L_0					
37 D	14.50	0.000	136.8 72.50	136.8	72.50	V-C 1.4411E+04 -7.200	0.000	1.000
72.50	0.000	0.000	Strato1_2_8_L_0					
38 D	14.90	0.000	140.6 74.52	140.6	74.52	V-C 1.4411E+04 -7.400	0.000	1.000
74.52	0.000	0.000	Strato1_2_8_L_0					
39 D	15.31	0.000	144.4 76.53	144.4	76.53	V-C 1.4411E+04 -7.600	0.000	1.000
76.53	0.000	0.000	Strato1_2_8_L_0					
40 D	15.71	0.000	148.2 78.55	148.2	78.55	V-C 1.4411E+04 -7.800	0.000	1.000
78.55	0.000	0.000	Strato1_2_8_L_0					
41 D	16.11	0.000	152.0 80.56	152.0	80.56	V-C 1.4411E+04 -8.000	0.000	1.000
80.56	0.000	0.000	Strato1_2_8_L_0					
42 D	16.51	0.000	155.8 82.57	155.8	82.57	V-C 1.4411E+04 -8.200	0.000	1.000
82.57	0.000	0.000	Strato1_2_8_L_0					
43 D	16.92	0.000	159.6 84.59	159.6	84.59	V-C 1.4411E+04 -8.400	0.000	1.000
84.59	0.000	0.000	Strato1_2_8_L_0					
44 D	17.32	0.000	163.4 86.60	163.4	86.60	V-C 1.4411E+04 -8.600	0.000	1.000
86.60	0.000	0.000	Strato1_2_8_L_0					
45 D	16.73	0.000	167.3 83.65	167.3	83.65	V-C 3.9996E+04 -8.800	0.000	1.000
83.65	0.000	0.000	Strato2_3095_82743_L_0					
46 D	17.13	0.000	171.3 85.65	171.3	85.65	V-C 3.9996E+04 -9.000	0.000	1.000
85.65	0.000	0.000	Strato2_3095_82743_L_0					
47 D	17.53	0.000	175.3 87.65	175.3	87.65	V-C 3.9996E+04 -9.200	0.000	1.000
87.65	0.000	0.000	Strato2_3095_82743_L_0					
48 D	17.93	0.000	179.3 89.65	179.3	89.65	V-C 3.9996E+04 -9.400	0.000	1.000
89.65	0.000	0.000	Strato2_3095_82743_L_0					
49 D	18.33	0.000	183.3 91.65	183.3	91.65	V-C 3.9996E+04 -9.600	0.000	1.000
91.65	0.000	0.000	Strato2_3095_82743_L_0					
50 D	18.73	0.000	187.3 93.65	187.3	93.65	V-C 3.9996E+04 -9.800	0.000	1.000
93.65	0.000	0.000	Strato2_3095_82743_L_0					
51 D	19.13	0.000	191.3 95.65	191.3	95.65	V-C 3.9996E+04 -10.00	0.000	1.000
95.65	0.000	0.000	Strato2_3095_82743_L_0					
52 D	19.53	0.000	195.3 97.65	195.3	97.65	V-C 3.9996E+04 -10.20	0.000	1.000
97.65	0.000	0.000	Strato2_3095_82743_L_0					
53 D	19.93	0.000	199.3 99.65	199.3	99.65	V-C 3.9996E+04 -10.40	0.000	1.000
99.65	0.000	0.000	Strato2_3095_82743_L_0					
54 D	20.33	0.000	203.3 101.6	203.3	101.6	V-C 3.9996E+04 -10.60	0.000	1.000
101.6	0.000	0.000	Strato2_3095_82743_L_0					
55 D	20.73	0.000	207.3 103.6	207.3	103.6	V-C 3.9996E+04 -10.80	0.000	1.000
103.6	0.000	0.000	Strato2_3095_82743_L_0					
56 D	21.13	0.000	211.3 105.6	211.3	105.6	V-C 3.9996E+04 -11.00	0.000	1.000
105.6	0.000	0.000	Strato2_3095_82743_L_0					
57 D	21.53	0.000	215.3 107.6	215.3	107.6	V-C 3.9996E+04 -11.20	0.000	1.000
107.6	0.000	0.000	Strato2_3095_82743_L_0					
58 D	21.93	0.000	219.3 109.6	219.3	109.6	V-C 3.9996E+04 -11.40	0.000	1.000
109.6	0.000	0.000	Strato2_3095_82743_L_0					
59 D	22.33	0.000	223.3 111.6	223.3	111.6	V-C 3.9996E+04 -11.60	0.000	1.000
111.6	0.000	0.000	Strato2_3095_82743_L_0					
60 D	22.73	0.000	227.3 113.6	227.3	113.6	V-C 3.9996E+04 -11.80	0.000	1.000
113.6	0.000	0.000	Strato2_3095_82743_L_0					

GENERAL CONTRACTOR

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 854 di 1221						
9 D	3.222	0.000	30.40 16.11	30.40	16.11	V-C	1.2197E+04	-1.600	0.000	1.000	1.000
16.11	0.000	0.000	Strato1_2_8_L_0								
10 D	3.625	0.000	34.20 18.13	34.20	18.13	V-C	1.2197E+04	-1.800	0.000	1.000	1.000
18.13	0.000	0.000	Strato1_2_8_L_0								
11 D	4.028	0.000	38.00 20.14	38.00	20.14	V-C	1.2197E+04	-2.000	0.000	1.000	1.000
20.14	0.000	0.000	Strato1_2_8_L_0								
12 D	4.431	0.000	41.80 22.15	41.80	22.15	V-C	1.2197E+04	-2.200	0.000	1.000	1.000
22.15	0.000	0.000	Strato1_2_8_L_0								
13 D	4.834	0.000	45.60 24.17	45.60	24.17	V-C	1.2197E+04	-2.400	0.000	1.000	1.000
24.17	0.000	0.000	Strato1_2_8_L_0								
14 D	5.236	0.000	49.40 26.18	49.40	26.18	V-C	1.2197E+04	-2.600	0.000	1.000	1.000
26.18	0.000	0.000	Strato1_2_8_L_0								
15 D	5.639	0.000	53.20 28.20	53.20	28.20	V-C	1.2197E+04	-2.800	0.000	1.000	1.000
28.20	0.000	0.000	Strato1_2_8_L_0								
16 D	6.042	0.000	57.00 30.21	57.00	30.21	V-C	1.2197E+04	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Strato1_2_8_L_0								
17 D	6.445	0.000	60.80 32.22	60.80	32.22	V-C	1.2197E+04	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Strato1_2_8_L_0								
18 D	6.848	0.000	64.60 34.24	64.60	34.24	V-C	1.2197E+04	-3.400	0.000	1.000	1.000
34.24	0.000	0.000	Strato1_2_8_L_0								
19 D	7.250	0.000	68.40 36.25	68.40	36.25	V-C	1.2197E+04	-3.600	0.000	1.000	1.000
36.25	0.000	0.000	Strato1_2_8_L_0								
20 D	7.653	0.000	72.20 38.27	72.20	38.27	V-C	1.2197E+04	-3.800	0.000	1.000	1.000
38.27	0.000	0.000	Strato1_2_8_L_0								
21 D	8.056	0.000	76.00 40.28	76.00	40.28	V-C	1.2197E+04	-4.000	0.000	1.000	1.000
40.28	0.000	0.000	Strato1_2_8_L_0								
22 D	8.459	0.000	79.80 42.29	79.80	42.29	V-C	1.2197E+04	-4.200	0.000	1.000	1.000
42.29	0.000	0.000	Strato1_2_8_L_0								
23 D	8.862	0.000	83.60 44.31	83.60	44.31	V-C	1.2197E+04	-4.400	0.000	1.000	1.000
44.31	0.000	0.000	Strato1_2_8_L_0								
24 D	9.264	0.000	87.40 46.32	87.40	46.32	V-C	1.2197E+04	-4.600	0.000	1.000	1.000
46.32	0.000	0.000	Strato1_2_8_L_0								
25 D	9.667	0.000	91.20 48.34	91.20	48.34	V-C	1.2197E+04	-4.800	0.000	1.000	1.000
48.34	0.000	0.000	Strato1_2_8_L_0								
26 D	10.07	0.000	95.00 50.35	95.00	50.35	V-C	1.2197E+04	-5.000	0.000	1.000	1.000
50.35	0.000	0.000	Strato1_2_8_L_0								
27 D	10.47	0.000	98.80 52.36	98.80	52.36	V-C	1.2197E+04	-5.200	0.000	1.000	1.000
52.36	0.000	0.000	Strato1_2_8_L_0								
28 D	10.88	0.000	102.6 54.38	102.6	54.38	V-C	1.2197E+04	-5.400	0.000	1.000	1.000
54.38	0.000	0.000	Strato1_2_8_L_0								
29 D	11.28	0.000	106.4 56.39	106.4	56.39	V-C	1.2197E+04	-5.600	0.000	1.000	1.000
56.39	0.000	0.000	Strato1_2_8_L_0								
30 D	11.68	0.000	110.2 58.41	110.2	58.41	V-C	1.2197E+04	-5.800	0.000	1.000	1.000
58.41	0.000	0.000	Strato1_2_8_L_0								
31 D	12.08	0.000	114.0 60.42	114.0	60.42	V-C	1.2197E+04	-6.000	0.000	1.000	1.000
60.42	0.000	0.000	Strato1_2_8_L_0								
32 D	12.49	0.000	117.8 62.43	117.8	62.43	V-C	1.2197E+04	-6.200	0.000	1.000	1.000
62.43	0.000	0.000	Strato1_2_8_L_0								
33 D	12.89	0.000	121.6 64.45	121.6	64.45	V-C	1.2197E+04	-6.400	0.000	1.000	1.000
64.45	0.000	0.000	Strato1_2_8_L_0								
34 D	13.29	0.000	125.4 66.46	125.4	66.46	V-C	1.2197E+04	-6.600	0.000	1.000	1.000
66.46	0.000	0.000	Strato1_2_8_L_0								
35 D	13.70	0.000	129.2 68.48	129.2	68.48	V-C	1.2197E+04	-6.800	0.000	1.000	1.000
68.48	0.000	0.000	Strato1_2_8_L_0								
36 D	14.10	0.000	133.0 70.49	133.0	70.49	V-C	1.2197E+04	-7.000	0.000	1.000	1.000
70.49	0.000	0.000	Strato1_2_8_L_0								
37 D	14.50	0.000	136.8 72.50	136.8	72.50	V-C	1.2197E+04	-7.200	0.000	1.000	1.000
72.50	0.000	0.000	Strato1_2_8_L_0								
38 D	14.90	0.000	140.6 74.52	140.6	74.52	V-C	1.2197E+04	-7.400	0.000	1.000	1.000
74.52	0.000	0.000	Strato1_2_8_L_0								
39 D	15.31	0.000	144.4 76.53	144.4	76.53	V-C	1.2197E+04	-7.600	0.000	1.000	1.000
76.53	0.000	0.000	Strato1_2_8_L_0								
40 D	15.71	0.000	148.2 78.55	148.2	78.55	V-C	1.2197E+04	-7.800	0.000	1.000	1.000
78.55	0.000	0.000	Strato1_2_8_L_0								
41 D	16.11	0.000	152.0 80.56	152.0	80.56	V-C	1.2197E+04	-8.000	0.000	1.000	1.000
80.56	0.000	0.000	Strato1_2_8_L_0								
42 D	16.51	0.000	155.8 82.57	155.8	82.57	V-C	1.2197E+04	-8.200	0.000	1.000	1.000
82.57	0.000	0.000	Strato1_2_8_L_0								
43 D	16.92	0.000	159.6 84.59	159.6	84.59	V-C	1.2197E+04	-8.400	0.000	1.000	1.000
84.59	0.000	0.000	Strato1_2_8_L_0								
44 D	17.32	0.000	163.4 86.60	163.4	86.60	V-C	1.2197E+04	-8.600	0.000	1.000	1.000
86.60	0.000	0.000	Strato1_2_8_L_0								
45 D	16.73	0.000	167.3 83.65	167.3	83.65	V-C	2.7468E+04	-8.800	0.000	1.000	1.000
83.65	0.000	0.000	Strato2_3095_82743_L_0								
46 D	17.13	0.000	171.3 85.65	171.3	85.65	V-C	2.7468E+04	-9.000	0.000	1.000	1.000
85.65	0.000	0.000	Strato2_3095_82743_L_0								
47 D	17.53	0.000	175.3 87.65	175.3	87.65	V-C	2.7468E+04	-9.200	0.000	1.000	1.000
87.65	0.000	0.000	Strato2_3095_82743_L_0								
48 D	17.93	0.000	179.3 89.65	179.3	89.65	V-C	2.7468E+04	-9.400	0.000	1.000	1.000
89.65	0.000	0.000	Strato2_3095_82743_L_0								
49 D	18.33	0.000	183.3 91.65	183.3	91.65	V-C	2.7468E+04	-9.600	0.000	1.000	1.000
91.65	0.000	0.000	Strato2_3095_82743_L_0								
50 D	18.73	0.000	187.3 93.65	187.3	93.65	V-C	2.7468E+04	-9.800	0.000	1.000	1.000
93.65	0.000	0.000	Strato2_3095_82743_L_0								
51 D	19.13	0.000	191.3 95.65	191.3	95.65	V-C	2.7468E+04	-10.00	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 855 di 1221
95.65	0.000	0.000	Strato2_3095_82743_L_0		
52 D	19.53	0.000	195.3 97.65	195.3	97.65
97.65	0.000	0.000	Strato2_3095_82743_L_0		
53 D	19.93	0.000	199.3 99.65	199.3	99.65
99.65	0.000	0.000	Strato2_3095_82743_L_0		
54 D	20.33	0.000	203.3 101.6	203.3	101.6
101.6	0.000	0.000	Strato2_3095_82743_L_0		
55 D	20.73	0.000	207.3 103.6	207.3	103.6
103.6	0.000	0.000	Strato2_3095_82743_L_0		
56 D	21.13	0.000	211.3 105.6	211.3	105.6
105.6	0.000	0.000	Strato2_3095_82743_L_0		
57 D	21.53	0.000	215.3 107.6	215.3	107.6
107.6	0.000	0.000	Strato2_3095_82743_L_0		
58 D	21.93	0.000	219.3 109.6	219.3	109.6
109.6	0.000	0.000	Strato2_3095_82743_L_0		
59 D	22.33	0.000	223.3 111.6	223.3	111.6
111.6	0.000	0.000	Strato2_3095_82743_L_0		
60 D	22.73	0.000	227.3 113.6	227.3	113.6
113.6	0.000	0.000	Strato2_3095_82743_L_0		
61 D	23.13	0.000	231.3 115.6	231.3	115.6
115.6	0.000	0.000	Strato2_3095_82743_L_0		
62 D	23.53	0.000	235.3 117.6	235.3	117.6
117.6	0.000	0.000	Strato2_3095_82743_L_0		
63 D	23.93	0.000	239.3 119.6	239.3	119.6
119.6	0.000	0.000	Strato2_3095_82743_L_0		
64 D	24.33	0.000	243.3 121.6	243.3	121.6
121.6	0.000	0.000	Strato2_3095_82743_L_0		
65 D	24.73	0.000	247.3 123.6	247.3	123.6
123.6	0.000	0.000	Strato2_3095_82743_L_0		
66 D	25.13	0.000	251.3 125.6	251.3	125.6
125.6	0.000	0.000	Strato2_3095_82743_L_0		
67 D	25.53	0.000	255.3 127.6	255.3	127.6
127.6	0.000	0.000	Strato2_3095_82743_L_0		
68 D	25.93	0.000	259.3 129.6	259.3	129.6
129.6	0.000	0.000	Strato2_3095_82743_L_0		
69 D	26.33	0.000	263.3 131.6	263.3	131.6
131.6	0.000	0.000	Strato2_3095_82743_L_0		
70 D	26.73	0.000	267.3 133.6	267.3	133.6
133.6	0.000	0.000	Strato2_3095_82743_L_0		
71 D	27.13	0.000	271.3 135.6	271.3	135.6
135.6	0.000	0.000	Strato2_3095_82743_L_0		
72 D	27.53	0.000	275.3 137.6	275.3	137.6
137.6	0.000	0.000	Strato2_3095_82743_L_0		
73 D	27.93	0.000	279.3 139.6	279.3	139.6
139.6	0.000	0.000	Strato2_3095_82743_L_0		
74 D	28.33	0.000	283.3 141.6	283.3	141.6
141.6	0.000	0.000	Strato2_3095_82743_L_0		
75 D	28.73	0.000	287.3 143.6	287.3	143.6
143.6	0.000	0.000	Strato2_3095_82743_L_0		
76 D	29.13	0.000	291.3 145.6	291.3	145.6
145.6	0.000	0.000	Strato2_3095_82743_L_0		
77 D	29.53	0.000	295.3 147.6	295.3	147.6
147.6	0.000	0.000	Strato2_3095_82743_L_0		
78 D	29.93	0.000	299.3 149.6	299.3	149.6
149.6	0.000	0.000	Strato2_3095_82743_L_0		
79 D	30.33	0.000	303.3 151.6	303.3	151.6
151.6	0.000	0.000	Strato2_3095_82743_L_0		
80 D	30.73	0.000	307.3 153.6	307.3	153.6
153.6	0.000	0.000	Strato2_3095_82743_L_0		
81 D	15.56	0.000	311.3 155.6	311.3	155.6
155.6	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A2M2R1_3514                                                                                       |
|          Exe Time :29 July 2019  18:01:12                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 856 di 1221
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2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000
31	0.0000	0.0000	0.0000	0.0000
32	0.0000	0.0000	0.0000	0.0000
33	0.0000	0.0000	0.0000	0.0000
34	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000
36	0.0000	0.0000	0.0000	0.0000
37	0.0000	0.0000	0.0000	0.0000
38	0.0000	0.0000	0.0000	0.0000
39	0.0000	0.0000	0.0000	0.0000
40	0.0000	0.0000	0.0000	0.0000
41	0.0000	0.0000	0.0000	0.0000
42	0.0000	0.0000	0.0000	0.0000
43	0.0000	0.0000	0.0000	0.0000
44	0.0000	0.0000	0.0000	0.0000
45	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000
47	0.0000	0.0000	0.0000	0.0000
48	0.0000	0.0000	0.0000	0.0000
49	0.0000	0.0000	0.0000	0.0000
50	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	0.0000	0.0000
52	0.0000	0.0000	0.0000	0.0000
53	0.0000	0.0000	0.0000	0.0000
54	0.0000	0.0000	0.0000	0.0000
55	0.0000	0.0000	0.0000	0.0000
56	0.0000	0.0000	0.0000	0.0000
57	0.0000	0.0000	0.0000	0.0000
58	0.0000	0.0000	0.0000	0.0000
59	0.0000	0.0000	0.0000	0.0000
60	0.0000	0.0000	0.0000	0.0000
61	0.0000	0.0000	0.0000	0.0000
62	0.0000	0.0000	0.0000	0.0000
63	0.0000	0.0000	0.0000	0.0000
64	0.0000	0.0000	0.0000	0.0000
65	0.0000	0.0000	0.0000	0.0000
66	0.0000	0.0000	0.0000	0.0000
67	0.0000	0.0000	0.0000	0.0000
68	0.0000	0.0000	0.0000	0.0000
69	0.0000	0.0000	0.0000	0.0000
70	0.0000	0.0000	0.0000	0.0000
71	0.0000	0.0000	0.0000	0.0000
72	0.0000	0.0000	0.0000	0.0000
73	0.0000	0.0000	0.0000	0.0000
74	0.0000	0.0000	0.0000	0.0000
75	0.0000	0.0000	0.0000	0.0000
76	0.0000	0.0000	0.0000	0.0000
77	0.0000	0.0000	0.0000	0.0000
78	0.0000	0.0000	0.0000	0.0000
79	0.0000	0.0000	0.0000	0.0000
80	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
857 di 1221

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|
|                               NewProject.BaseDesignSection_28.A2M2R1_3514
|                               Exe Time :29 July 2019       18:01:12
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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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Tirante1_429
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP    1
C U R R E N T   T I M E   I S   1.0000

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POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER      0 RNORM = 0.000      RMNORM= 0.000
          RINORM=0.5352E+05 RIMNOR= 0.000
          RENORM= 68.61      REMNOR= 0.000      RATIO =0.3580E-01 TOLER =0.1000E-03 NOT CONVERGED
          RFMAX = 31.63      RMMAX = 0.000
          RTSMAL=0.1000E-03 RMSMAL= 0.000
          RDT   =0.5352E+05 RDR   = 0.000
          RATIOT=0.3580E-01 RATIOR= 0.000
          MAX UN=0.9994      IEQ=   15 NODE      8 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=0.5352E+05 RIMNOR= 0.000
          RENORM=0.3423      REMNOR=0.1679E-21 RATIO =0.2529E-02 TOLER =0.1000E-03 NOT CONVERGED
          RFMAX = 31.63      RMMAX = 0.000
          RTSMAL=0.1000E-03 RMSMAL= 0.000
          RDT   =0.5352E+05 RDR   = 0.000
          RATIOT=0.2529E-02 RATIOR= 0.000
          MAX UN=0.4466      IEQ=   3 NODE      2 DOF   1  Y-DISPL.F
          MIN UN=-.6628E-10 IEQ=  65 NODE     33 DOF   1  Y-DISPL.F
          NO. OF CONTACT CONSTRAINT VIOLATIONS      0

ITER      3 RNORM = 0.000      RMNORM= 0.000
          RINORM=0.5352E+05 RIMNOR= 0.000
          RENORM=0.1136E-02 REMNOR=0.2927E-22 RATIO =0.1457E-03 TOLER =0.1000E-03 NOT CONVERGED
          RFMAX = 31.63      RMMAX = 0.000
          RTSMAL=0.1000E-03 RMSMAL= 0.000
          RDT   =0.5352E+05 RDR   = 0.000
          RATIOT=0.1457E-03 RATIOR= 0.000
          MAX UN=0.2351E-01 IEQ=   11 NODE      6 DOF   1  Y-DISPL.F
          MIN UN=-.2832E-10 IEQ=   13 NODE      7 DOF   1  Y-DISPL.F
          NO. OF CONTACT CONSTRAINT VIOLATIONS      0

ITER      4 RNORM = 0.000      RMNORM= 0.000
          RINORM=0.5352E+05 RIMNOR= 0.000
          RENORM=0.8063E-06 REMNOR=0.2203E-22 RATIO =0.3881E-05 TOLER =0.1000E-03 CONVERGED !
          RFMAX = 31.63      RMMAX = 0.000
          RTSMAL=0.1000E-03 RMSMAL= 0.000
          RDT   =0.5352E+05 RDR   = 0.000
          RATIOT=0.3881E-05 RATIOR= 0.000
          MAX UN=0.7637E-03 IEQ=   49 NODE     25 DOF   1  Y-DISPL.F
          MIN UN=-.1766E-10 IEQ=   37 NODE     19 DOF   1  Y-DISPL.F
          NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
858 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:01:12  |
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New Project

SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	1.1131608E-04	-7.3130492E-06	
2	1.0985425E-04	-7.3014759E-06	
3	1.0839725E-04	-7.2635101E-06	
4	1.0695100E-04	-7.1931027E-06	
5	1.0552243E-04	-7.0864320E-06	
6	1.0411884E-04	-6.9436743E-06	
7	1.0274705E-04	-6.7696205E-06	
8	1.0141260E-04	-6.5714042E-06	
9	1.0011966E-04	-6.3555287E-06	
10	9.8871058E-05	-6.1296099E-06	
11	9.7667914E-05	-5.9022442E-06	
12	9.6509772E-05	-5.6807075E-06	
13	9.5394836E-05	-5.4711070E-06	
14	9.4320196E-05	-5.2784996E-06	
15	9.3282029E-05	-5.1069857E-06	
16	9.2275781E-05	-4.9597858E-06	
17	9.1296253E-05	-4.8405149E-06	
18	9.0337447E-05	-4.7531555E-06	
19	8.9392656E-05	-4.7008187E-06	
20	8.8454632E-05	-4.6857951E-06	
21	8.7515750E-05	-4.7095950E-06	
22	8.6568155E-05	-4.7729797E-06	
23	8.5603917E-05	-4.8759841E-06	
24	8.4615171E-05	-5.0179305E-06	
25	8.3594192E-05	-5.1982394E-06	
26	8.2533351E-05	-5.4164096E-06	
27	8.1425190E-05	-5.6711575E-06	
28	8.0262590E-05	-5.9603708E-06	
29	7.9038946E-05	-6.2811037E-06	
30	7.7748305E-05	-6.6295748E-06	
31	7.6385576E-05	-7.0011436E-06	
32	7.4946635E-05	-7.3909145E-06	
33	7.3428343E-05	-7.7936915E-06	
34	7.1828702E-05	-8.2033140E-06	
35	7.0147047E-05	-8.6126279E-06	
36	6.8384224E-05	-9.0134648E-06	
37	6.6542841E-05	-9.3965990E-06	
38	6.4627452E-05	-9.7517249E-06	
39	6.2644780E-05	-1.0067425E-05	
40	6.0603925E-05	-1.0331629E-05	
41	5.8516422E-05	-1.0531581E-05	
42	5.6396508E-05	-1.0653309E-05	
43	5.4261326E-05	-1.0681620E-05	
44	5.2131182E-05	-1.0600090E-05	
45	5.0029800E-05	-1.0391069E-05	
46	4.7982983E-05	-1.0058774E-05	
47	4.6012800E-05	-9.6288291E-06	
48	4.4136420E-05	-9.1243574E-06	
49	4.2366669E-05	-8.5657080E-06	
50	4.0712576E-05	-7.9706009E-06	
51	3.9179852E-05	-7.3542737E-06	
52	3.7771445E-05	-6.7296810E-06	
53	3.6487840E-05	-6.1076060E-06	
54	3.5327644E-05	-5.4969152E-06	
55	3.4287821E-05	-4.9050160E-06	
56	3.3363976E-05	-4.3380346E-06	
57	3.2550634E-05	-3.8006447E-06	
58	3.1841520E-05	-3.2962275E-06	
59	3.1229796E-05	-2.8270238E-06	
60	3.0708280E-05	-2.3942771E-06	
61	3.0269629E-05	-1.9983659E-06	
62	2.9906482E-05	-1.6392209E-06	
63	2.9611518E-05	-1.3164254E-06	
64	2.9377553E-05	-1.0290163E-06	
65	2.9197646E-05	-7.7558214E-07	
66	2.9065174E-05	-5.5434585E-07	
67	2.8973899E-05	-3.6323846E-07	

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 860 di 1221							
23 D	9.092	-8.5604E-05	92.76	45.46	92.76	49.16	UL-RL	4.3234E+04	-4.400	0.000	1.000	1.000
45.46	0.000	0.000	Strato1_2_8_L_0									
24 D	9.474	-8.4615E-05	96.28	47.37	96.28	51.03	UL-RL	4.3234E+04	-4.600	0.000	1.000	1.000
47.37	0.000	0.000	Strato1_2_8_L_0									
25 D	9.890	-8.3594E-05	100.1	49.45	100.1	53.07	UL-RL	4.3234E+04	-4.800	0.000	1.000	1.000
49.45	0.000	0.000	Strato1_2_8_L_0									
26 D	10.31	-8.2533E-05	104.0	51.53	104.0	55.10	UL-RL	4.3234E+04	-5.000	0.000	1.000	1.000
51.53	0.000	0.000	Strato1_2_8_L_0									
27 D	10.72	-8.1425E-05	107.8	53.62	107.8	57.14	UL-RL	4.3234E+04	-5.200	0.000	1.000	1.000
53.62	0.000	0.000	Strato1_2_8_L_0									
28 D	11.14	-8.0263E-05	111.6	55.70	111.6	59.17	UL-RL	4.3234E+04	-5.400	0.000	1.000	1.000
55.70	0.000	0.000	Strato1_2_8_L_0									
29 D	11.56	-7.9039E-05	115.5	57.79	115.5	61.20	UL-RL	4.3234E+04	-5.600	0.000	1.000	1.000
57.79	0.000	0.000	Strato1_2_8_L_0									
30 D	11.97	-7.7748E-05	119.3	59.87	119.3	63.23	UL-RL	4.3234E+04	-5.800	0.000	1.000	1.000
59.87	0.000	0.000	Strato1_2_8_L_0									
31 D	12.37	-7.6386E-05	122.9	61.83	122.9	65.13	UL-RL	4.3234E+04	-6.000	0.000	1.000	1.000
61.83	0.000	0.000	Strato1_2_8_L_0									
32 D	12.79	-7.4947E-05	126.7	63.93	126.7	67.17	UL-RL	4.3234E+04	-6.200	0.000	1.000	1.000
63.93	0.000	0.000	Strato1_2_8_L_0									
33 D	13.20	-7.3428E-05	130.6	66.02	130.6	69.20	UL-RL	4.3234E+04	-6.400	0.000	1.000	1.000
66.02	0.000	0.000	Strato1_2_8_L_0									
34 D	13.62	-7.1829E-05	134.4	68.12	134.4	71.23	UL-RL	4.3234E+04	-6.600	0.000	1.000	1.000
68.12	0.000	0.000	Strato1_2_8_L_0									
35 D	14.05	-7.0147E-05	138.2	70.23	138.2	73.26	UL-RL	4.3234E+04	-6.800	0.000	1.000	1.000
70.23	0.000	0.000	Strato1_2_8_L_0									
36 D	14.47	-6.8384E-05	142.1	72.33	142.1	75.29	UL-RL	4.3234E+04	-7.000	0.000	1.000	1.000
72.33	0.000	0.000	Strato1_2_8_L_0									
37 D	14.89	-6.6543E-05	145.9	74.44	145.9	77.31	UL-RL	4.3234E+04	-7.200	0.000	1.000	1.000
74.44	0.000	0.000	Strato1_2_8_L_0									
38 D	15.31	-6.4627E-05	149.7	76.55	149.7	79.34	UL-RL	4.3234E+04	-7.400	0.000	1.000	1.000
76.55	0.000	0.000	Strato1_2_8_L_0									
39 D	15.71	-6.2645E-05	153.3	78.56	153.3	81.27	UL-RL	4.3234E+04	-7.600	0.000	1.000	1.000
78.56	0.000	0.000	Strato1_2_8_L_0									
40 D	16.13	-6.0604E-05	157.2	80.67	157.2	83.29	UL-RL	4.3234E+04	-7.800	0.000	1.000	1.000
80.67	0.000	0.000	Strato1_2_8_L_0									
41 D	16.56	-5.8516E-05	161.0	82.79	161.0	85.32	UL-RL	4.3234E+04	-8.000	0.000	1.000	1.000
82.79	0.000	0.000	Strato1_2_8_L_0									
42 D	16.98	-5.6397E-05	164.8	84.91	164.8	87.35	UL-RL	4.3234E+04	-8.200	0.000	1.000	1.000
84.91	0.000	0.000	Strato1_2_8_L_0									
43 D	17.41	-5.4261E-05	168.6	87.03	168.6	89.38	UL-RL	4.3234E+04	-8.400	0.000	1.000	1.000
87.03	0.000	0.000	Strato1_2_8_L_0									
44 D	17.83	-5.2131E-05	172.5	89.15	172.5	91.40	UL-RL	4.3234E+04	-8.600	0.000	1.000	1.000
89.15	0.000	0.000	Strato1_2_8_L_0									
45 D	16.44	-5.0030E-05	176.4	82.19	176.4	88.19	UL-RL	1.1999E+05	-8.800	0.000	1.000	1.000
82.19	0.000	0.000	Strato2_3095_82743_L_0									
46 D	16.87	-4.7983E-05	180.2	84.36	180.2	90.12	UL-RL	1.1999E+05	-9.000	0.000	1.000	1.000
84.36	0.000	0.000	Strato2_3095_82743_L_0									
47 D	17.32	-4.6013E-05	184.3	86.61	184.3	92.13	UL-RL	1.1999E+05	-9.200	0.000	1.000	1.000
86.61	0.000	0.000	Strato2_3095_82743_L_0									
48 D	17.77	-4.4136E-05	188.3	88.84	188.3	94.14	UL-RL	1.1999E+05	-9.400	0.000	1.000	1.000
88.84	0.000	0.000	Strato2_3095_82743_L_0									
49 D	18.21	-4.2367E-05	192.3	91.07	192.3	96.15	UL-RL	1.1999E+05	-9.600	0.000	1.000	1.000
91.07	0.000	0.000	Strato2_3095_82743_L_0									
50 D	18.66	-4.0713E-05	196.3	93.28	196.3	98.16	UL-RL	1.1999E+05	-9.800	0.000	1.000	1.000
93.28	0.000	0.000	Strato2_3095_82743_L_0									
51 D	19.09	-3.9180E-05	200.3	95.47	200.3	100.2	UL-RL	1.1999E+05	-10.000	0.000	1.000	1.000
95.47	0.000	0.000	Strato2_3095_82743_L_0									
52 D	19.53	-3.7771E-05	204.4	97.65	204.4	102.2	UL-RL	1.1999E+05	-10.200	0.000	1.000	1.000
97.65	0.000	0.000	Strato2_3095_82743_L_0									
53 D	19.96	-3.6488E-05	208.4	99.81	208.4	104.2	UL-RL	1.1999E+05	-10.400	0.000	1.000	1.000
99.81	0.000	0.000	Strato2_3095_82743_L_0									
54 D	20.38	-3.5328E-05	212.3	101.9	212.3	106.1	UL-RL	1.1999E+05	-10.600	0.000	1.000	1.000
101.9	0.000	0.000	Strato2_3095_82743_L_0									
55 D	20.80	-3.4288E-05	216.3	104.0	216.3	108.1	UL-RL	1.1999E+05	-10.800	0.000	1.000	1.000
104.0	0.000	0.000	Strato2_3095_82743_L_0									
56 D	21.23	-3.3364E-05	220.3	106.1	220.3	110.1	UL-RL	1.1999E+05	-11.000	0.000	1.000	1.000
106.1	0.000	0.000	Strato2_3095_82743_L_0									
57 D	21.65	-3.2551E-05	224.3	108.2	224.3	112.2	UL-RL	1.1999E+05	-11.200	0.000	1.000	1.000
108.2	0.000	0.000	Strato2_3095_82743_L_0									
58 D	22.07	-3.1842E-05	228.3	110.3	228.3	114.2	UL-RL	1.1999E+05	-11.400	0.000	1.000	1.000
110.3	0.000	0.000	Strato2_3095_82743_L_0									
59 D	22.49	-3.1230E-05	232.3	112.4	232.3	116.2	UL-RL	1.1999E+05	-11.600	0.000	1.000	1.000
112.4	0.000	0.000	Strato2_3095_82743_L_0									
60 D	22.90	-3.0708E-05	236.4	114.5	236.4	118.2	UL-RL	1.1999E+05	-11.800	0.000	1.000	1.000
114.5	0.000	0.000	Strato2_3095_82743_L_0									
61 D	23.30	-3.0270E-05	240.3	116.5	240.3	120.1	UL-RL	1.1999E+05	-12.000	0.000	1.000	1.000
116.5	0.000	0.000	Strato2_3095_82743_L_0									
62 D	23.71	-2.9906E-05	244.3	118.5	244.3	122.1	UL-RL	1.1999E+05	-12.200	0.000	1.000	1.000
118.5	0.000	0.000	Strato2_3095_82743_L_0									
63 D	24.12	-2.9612E-05	248.3	120.6	248.3	124.1	UL-RL	1.1999E+05	-12.400	0.000	1.000	1.000
120.6	0.000	0.000	Strato2_3095_82743_L_0									
64 D	24.53	-2.9378E-05	252.3	122.6	252.3	126.2	UL-RL	1.1999E+05	-12.600	0.000	1.000	1.000
122.6	0.000	0.000	Strato2_3095_82743_L_0									
65 D	24.93	-2.9198E-05	256.3	124.7	256.3	128.2	UL-RL	1.1999E+05	-12.800	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 861 di 1221
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124.7	0.000	0.000	Strato2_3095_82743_L_0									
66 D	25.34	-2.9065E-05	260.3	126.7	260.3	130.2	UL-RL	1.1999E+05	-13.00	0.000	1.000	1.000
126.7	0.000	0.000	Strato2_3095_82743_L_0									
67 D	25.74	-2.8974E-05	264.3	128.7	264.3	132.2	UL-RL	1.1999E+05	-13.20	0.000	1.000	1.000
128.7	0.000	0.000	Strato2_3095_82743_L_0									
68 D	26.14	-2.8918E-05	268.4	130.7	268.4	134.2	UL-RL	1.1999E+05	-13.40	0.000	1.000	1.000
130.7	0.000	0.000	Strato2_3095_82743_L_0									
69 D	26.53	-2.8892E-05	272.3	132.7	272.3	136.1	UL-RL	1.1999E+05	-13.60	0.000	1.000	1.000
132.7	0.000	0.000	Strato2_3095_82743_L_0									
70 D	26.93	-2.8892E-05	276.3	134.7	276.3	138.1	UL-RL	1.1999E+05	-13.80	0.000	1.000	1.000
134.7	0.000	0.000	Strato2_3095_82743_L_0									
71 D	27.34	-2.8912E-05	280.3	136.7	280.3	140.1	UL-RL	1.1999E+05	-14.00	0.000	1.000	1.000
136.7	0.000	0.000	Strato2_3095_82743_L_0									
72 D	27.74	-2.8949E-05	284.3	138.7	284.3	142.2	UL-RL	1.1999E+05	-14.20	0.000	1.000	1.000
138.7	0.000	0.000	Strato2_3095_82743_L_0									
73 D	28.14	-2.9000E-05	288.3	140.7	288.3	144.2	UL-RL	1.1999E+05	-14.40	0.000	1.000	1.000
140.7	0.000	0.000	Strato2_3095_82743_L_0									
74 D	28.54	-2.9061E-05	292.3	142.7	292.3	146.2	UL-RL	1.1999E+05	-14.60	0.000	1.000	1.000
142.7	0.000	0.000	Strato2_3095_82743_L_0									
75 D	28.94	-2.9129E-05	296.4	144.7	296.4	148.2	UL-RL	1.1999E+05	-14.80	0.000	1.000	1.000
144.7	0.000	0.000	Strato2_3095_82743_L_0									
76 D	29.33	-2.9204E-05	300.3	146.6	300.3	150.1	UL-RL	1.1999E+05	-15.00	0.000	1.000	1.000
146.6	0.000	0.000	Strato2_3095_82743_L_0									
77 D	29.73	-2.9282E-05	304.3	148.6	304.3	152.1	UL-RL	1.1999E+05	-15.20	0.000	1.000	1.000
148.6	0.000	0.000	Strato2_3095_82743_L_0									
78 D	30.12	-2.9362E-05	308.3	150.6	308.3	154.1	UL-RL	1.1999E+05	-15.40	0.000	1.000	1.000
150.6	0.000	0.000	Strato2_3095_82743_L_0									
79 D	30.52	-2.9444E-05	312.3	152.6	312.3	156.2	UL-RL	1.1999E+05	-15.60	0.000	1.000	1.000
152.6	0.000	0.000	Strato2_3095_82743_L_0									
80 D	30.92	-2.9526E-05	316.3	154.6	316.3	158.2	UL-RL	1.1999E+05	-15.80	0.000	1.000	1.000
154.6	0.000	0.000	Strato2_3095_82743_L_0									
81 D	15.66	-2.9609E-05	320.3	156.6	320.3	160.2	UL-RL	1.1999E+05	-16.00	0.000	1.000	1.000
156.6	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A2M2R1_3514          |
|          Exe Time :29 July 2019          18:01:12          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

0_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
CURRENT TIME IS 2.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1 D	0.000	1.1132E-04	0.000	0.000	0.000	0.000	PASSIVE	0.000	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_2_8_L_0									
2 D	0.6708	1.0985E-04	3.800	3.354	3.800	3.354	V-C	1.2197E+04	-0.2000	0.000	1.000	1.000
3.354	0.000	0.000	Strato1_2_8_L_0									
3 D	1.070	1.0840E-04	7.600	5.350	7.600	5.350	V-C	1.2197E+04	-0.4000	0.000	1.000	1.000
5.350	0.000	0.000	Strato1_2_8_L_0									
4 D	1.469	1.0695E-04	11.40	7.347	11.40	7.347	V-C	1.2197E+04	-0.6000	0.000	1.000	1.000
7.347	0.000	0.000	Strato1_2_8_L_0									
5 D	1.869	1.0552E-04	15.20	9.343	15.20	9.343	V-C	1.2197E+04	-0.8000	0.000	1.000	1.000
9.343	0.000	0.000	Strato1_2_8_L_0									
6 D	2.268	1.0412E-04	19.00	11.34	19.00	11.34	V-C	1.2197E+04	-1.000	0.000	1.000	1.000
11.34	0.000	0.000	Strato1_2_8_L_0									
7 D	2.667	1.0275E-04	22.80	13.34	22.80	13.34	V-C	1.2197E+04	-1.200	0.000	1.000	1.000
13.34	0.000	0.000	Strato1_2_8_L_0									
8 D	3.067	1.0141E-04	26.60	15.33	26.60	15.33	V-C	1.2197E+04	-1.400	0.000	1.000	1.000
15.33	0.000	0.000	Strato1_2_8_L_0									
9 D	3.467	1.0012E-04	30.40	17.33	30.40	17.33	V-C	1.2197E+04	-1.600	0.000	1.000	1.000
17.33	0.000	0.000	Strato1_2_8_L_0									
10 D	3.866	9.8871E-05	34.20	19.33	34.20	19.33	V-C	1.2197E+04	-1.800	0.000	1.000	1.000
19.33	0.000	0.000	Strato1_2_8_L_0									
11 D	4.266	9.7668E-05	38.00	21.33	38.00	21.33	V-C	1.2197E+04	-2.000	0.000	1.000	1.000
21.33	0.000	0.000	Strato1_2_8_L_0									
12 D	4.666	9.6510E-05	41.80	23.33	41.80	23.33	V-C	1.2197E+04	-2.200	0.000	1.000	1.000
23.33	0.000	0.000	Strato1_2_8_L_0									
13 D	5.066	9.5395E-05	45.60	25.33	45.60	25.33	V-C	1.2197E+04	-2.400	0.000	1.000	1.000

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 862 di 1221
25.33	0.000	0.000	Strato1_2_8_L_0		
14 D	5.466	9.4320E-05	49.40 27.33	49.40	27.33
27.33	0.000	0.000	Strato1_2_8_L_0		
15 D	5.867	9.3282E-05	53.20 29.33	53.20	29.33
29.33	0.000	0.000	Strato1_2_8_L_0		
16 D	6.267	9.2276E-05	57.00 31.34	57.00	31.34
31.34	0.000	0.000	Strato1_2_8_L_0		
17 D	6.668	9.1296E-05	60.80 33.34	60.80	33.34
33.34	0.000	0.000	Strato1_2_8_L_0		
18 D	7.068	9.0337E-05	64.60 35.34	64.60	35.34
35.34	0.000	0.000	Strato1_2_8_L_0		
19 D	7.468	8.9393E-05	68.40 37.34	68.40	37.34
37.34	0.000	0.000	Strato1_2_8_L_0		
20 D	7.869	8.8455E-05	72.20 39.34	72.20	39.34
39.34	0.000	0.000	Strato1_2_8_L_0		
21 D	8.269	8.7516E-05	76.00 41.35	76.00	41.35
41.35	0.000	0.000	Strato1_2_8_L_0		
22 D	8.670	8.6568E-05	79.80 43.35	79.80	43.35
43.35	0.000	0.000	Strato1_2_8_L_0		
23 D	9.070	8.5604E-05	83.60 45.35	83.60	45.35
45.35	0.000	0.000	Strato1_2_8_L_0		
24 D	9.471	8.4615E-05	87.40 47.35	87.40	47.35
47.35	0.000	0.000	Strato1_2_8_L_0		
25 D	9.871	8.3594E-05	91.20 49.36	91.20	49.36
49.36	0.000	0.000	Strato1_2_8_L_0		
26 D	10.27	8.2533E-05	95.00 51.35	95.00	51.36
51.35	0.000	0.000	Strato1_2_8_L_0		
27 D	10.67	8.1425E-05	98.80 53.35	98.80	53.36
53.35	0.000	0.000	Strato1_2_8_L_0		
28 D	11.07	8.0263E-05	102.6 55.35	102.6	55.36
55.35	0.000	0.000	Strato1_2_8_L_0		
29 D	11.47	7.9039E-05	106.4 57.34	106.4	57.36
57.34	0.000	0.000	Strato1_2_8_L_0		
30 D	11.87	7.7748E-05	110.2 59.34	110.2	59.36
59.34	0.000	0.000	Strato1_2_8_L_0		
31 D	12.27	7.6386E-05	114.0 61.33	114.0	61.36
61.33	0.000	0.000	Strato1_2_8_L_0		
32 D	12.67	7.4947E-05	117.8 63.33	117.8	63.36
63.33	0.000	0.000	Strato1_2_8_L_0		
33 D	13.06	7.3428E-05	121.6 65.32	121.6	65.35
65.32	0.000	0.000	Strato1_2_8_L_0		
34 D	13.46	7.1829E-05	125.4 67.32	125.4	67.35
67.32	0.000	0.000	Strato1_2_8_L_0		
35 D	13.86	7.0147E-05	129.2 69.31	129.2	69.34
69.31	0.000	0.000	Strato1_2_8_L_0		
36 D	14.26	6.8384E-05	133.0 71.30	133.0	71.33
71.30	0.000	0.000	Strato1_2_8_L_0		
37 D	14.66	6.6543E-05	136.8 73.29	136.8	73.33
73.29	0.000	0.000	Strato1_2_8_L_0		
38 D	15.06	6.4627E-05	140.6 75.29	140.6	75.32
75.29	0.000	0.000	Strato1_2_8_L_0		
39 D	15.46	6.2645E-05	144.4 77.28	144.4	77.31
77.28	0.000	0.000	Strato1_2_8_L_0		
40 D	15.85	6.0604E-05	148.2 79.27	148.2	79.29
79.27	0.000	0.000	Strato1_2_8_L_0		
41 D	16.25	5.8516E-05	152.0 81.26	152.0	81.28
81.26	0.000	0.000	Strato1_2_8_L_0		
42 D	16.65	5.6397E-05	155.8 83.25	155.8	83.27
83.25	0.000	0.000	Strato1_2_8_L_0		
43 D	17.05	5.4261E-05	159.6 85.24	159.6	85.26
85.24	0.000	0.000	Strato1_2_8_L_0		
44 D	17.44	5.2131E-05	163.4 87.22	163.4	87.24
87.22	0.000	0.000	Strato1_2_8_L_0		
45 D	17.00	5.0030E-05	167.3 85.00	167.3	85.04
85.00	0.000	0.000	Strato2_3095_82743_L_0		
46 D	17.39	4.7983E-05	171.3 86.94	171.3	86.98
86.94	0.000	0.000	Strato2_3095_82743_L_0		
47 D	17.78	4.6013E-05	175.3 88.89	175.3	88.92
88.89	0.000	0.000	Strato2_3095_82743_L_0		
48 D	18.17	4.4136E-05	179.3 90.84	179.3	90.87
90.84	0.000	0.000	Strato2_3095_82743_L_0		
49 D	18.56	4.2367E-05	183.3 92.80	183.3	92.82
92.80	0.000	0.000	Strato2_3095_82743_L_0		
50 D	18.95	4.0713E-05	187.3 94.75	187.3	94.78
94.75	0.000	0.000	Strato2_3095_82743_L_0		
51 D	19.34	3.9180E-05	191.3 96.71	191.3	96.73
96.71	0.000	0.000	Strato2_3095_82743_L_0		
52 D	19.74	3.7771E-05	195.3 98.68	195.3	98.69
98.68	0.000	0.000	Strato2_3095_82743_L_0		
53 D	20.13	3.6488E-05	199.3 100.6	199.3	100.7
100.6	0.000	0.000	Strato2_3095_82743_L_0		
54 D	20.52	3.5328E-05	203.3 102.6	203.3	102.6
102.6	0.000	0.000	Strato2_3095_82743_L_0		
55 D	20.92	3.4288E-05	207.3 104.6	207.3	104.6
104.6	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 863 di 1221							
56 D	21.31	3.3364E-05	211.3	106.6	211.3	106.6	UL-RL	8.2405E+04	-11.00	0.000	1.000	1.000
106.6	0.000	0.000	Strato2_3095_82743_L_0									
57 D	21.71	3.2551E-05	215.3	108.5	215.3	108.5	UL-RL	8.2405E+04	-11.20	0.000	1.000	1.000
108.5	0.000	0.000	Strato2_3095_82743_L_0									
58 D	22.10	3.1842E-05	219.3	110.5	219.3	110.5	UL-RL	8.2405E+04	-11.40	0.000	1.000	1.000
110.5	0.000	0.000	Strato2_3095_82743_L_0									
59 D	22.50	3.1230E-05	223.3	112.5	223.3	112.5	UL-RL	8.2405E+04	-11.60	0.000	1.000	1.000
112.5	0.000	0.000	Strato2_3095_82743_L_0									
60 D	22.90	3.0708E-05	227.3	114.5	227.3	114.5	V-C	2.7468E+04	-11.80	0.000	1.000	1.000
114.5	0.000	0.000	Strato2_3095_82743_L_0									
61 D	23.30	3.0270E-05	231.3	116.5	231.3	116.5	V-C	2.7468E+04	-12.00	0.000	1.000	1.000
116.5	0.000	0.000	Strato2_3095_82743_L_0									
62 D	23.69	2.9906E-05	235.3	118.5	235.3	118.5	V-C	2.7468E+04	-12.20	0.000	1.000	1.000
118.5	0.000	0.000	Strato2_3095_82743_L_0									
63 D	24.09	2.9612E-05	239.3	120.5	239.3	120.5	V-C	2.7468E+04	-12.40	0.000	1.000	1.000
120.5	0.000	0.000	Strato2_3095_82743_L_0									
64 D	24.49	2.9378E-05	243.3	122.5	243.3	122.5	V-C	2.7468E+04	-12.60	0.000	1.000	1.000
122.5	0.000	0.000	Strato2_3095_82743_L_0									
65 D	24.89	2.9198E-05	247.3	124.5	247.3	124.5	V-C	2.7468E+04	-12.80	0.000	1.000	1.000
124.5	0.000	0.000	Strato2_3095_82743_L_0									
66 D	25.29	2.9065E-05	251.3	126.4	251.3	126.4	V-C	2.7468E+04	-13.00	0.000	1.000	1.000
126.4	0.000	0.000	Strato2_3095_82743_L_0									
67 D	25.69	2.8974E-05	255.3	128.4	255.3	128.4	V-C	2.7468E+04	-13.20	0.000	1.000	1.000
128.4	0.000	0.000	Strato2_3095_82743_L_0									
68 D	26.09	2.8918E-05	259.3	130.4	259.3	130.4	V-C	2.7468E+04	-13.40	0.000	1.000	1.000
130.4	0.000	0.000	Strato2_3095_82743_L_0									
69 D	26.49	2.8892E-05	263.3	132.4	263.3	132.4	UL-RL	8.2405E+04	-13.60	0.000	1.000	1.000
132.4	0.000	0.000	Strato2_3095_82743_L_0									
70 D	26.89	2.8892E-05	267.3	134.4	267.3	134.4	UL-RL	8.2405E+04	-13.80	0.000	1.000	1.000
134.4	0.000	0.000	Strato2_3095_82743_L_0									
71 D	27.29	2.8912E-05	271.3	136.4	271.3	136.4	UL-RL	8.2405E+04	-14.00	0.000	1.000	1.000
136.4	0.000	0.000	Strato2_3095_82743_L_0									
72 D	27.69	2.8949E-05	275.3	138.4	275.3	138.4	UL-RL	8.2405E+04	-14.20	0.000	1.000	1.000
138.4	0.000	0.000	Strato2_3095_82743_L_0									
73 D	28.09	2.9000E-05	279.3	140.4	279.3	140.4	UL-RL	8.2405E+04	-14.40	0.000	1.000	1.000
140.4	0.000	0.000	Strato2_3095_82743_L_0									
74 D	28.49	2.9061E-05	283.3	142.4	283.3	142.4	UL-RL	8.2405E+04	-14.60	0.000	1.000	1.000
142.4	0.000	0.000	Strato2_3095_82743_L_0									
75 D	28.89	2.9129E-05	287.3	144.4	287.3	144.5	UL-RL	8.2405E+04	-14.80	0.000	1.000	1.000
144.4	0.000	0.000	Strato2_3095_82743_L_0									
76 D	29.29	2.9204E-05	291.3	146.5	291.3	146.5	UL-RL	8.2405E+04	-15.00	0.000	1.000	1.000
146.5	0.000	0.000	Strato2_3095_82743_L_0									
77 D	29.69	2.9282E-05	295.3	148.5	295.3	148.5	UL-RL	8.2405E+04	-15.20	0.000	1.000	1.000
148.5	0.000	0.000	Strato2_3095_82743_L_0									
78 D	30.09	2.9362E-05	299.3	150.5	299.3	150.5	UL-RL	8.2405E+04	-15.40	0.000	1.000	1.000
150.5	0.000	0.000	Strato2_3095_82743_L_0									
79 D	30.49	2.9444E-05	303.3	152.5	303.3	152.5	UL-RL	8.2405E+04	-15.60	0.000	1.000	1.000
152.5	0.000	0.000	Strato2_3095_82743_L_0									
80 D	30.89	2.9526E-05	307.3	154.5	307.3	154.5	UL-RL	8.2405E+04	-15.80	0.000	1.000	1.000
154.5	0.000	0.000	Strato2_3095_82743_L_0									
81 D	15.65	2.9609E-05	311.3	156.5	311.3	156.5	UL-RL	8.2405E+04	-16.00	0.000	1.000	1.000
156.5	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.A2M2R1_3514                                                                                   |
|          Exe Time :29 July 2019          18:01:12                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.48750	-0.48750	3.20410E-13	9.75000E-02
2	0.62422	-0.62422	-9.75000E-02	0.22234
3	0.74231	-0.74231	-0.22234	0.37080
4	0.78520	-0.78520	-0.37080	0.52784
5	0.73488	-0.73488	-0.52784	0.67482
6	0.58339	-0.58339	-0.67482	0.79150
7	0.43439	-0.43439	-0.79150	0.87838
8	0.30946	-0.30946	-0.87838	0.94027
9	0.11359	-0.11359	-0.94027	0.96299
10	-5.26461E-02	5.26461E-02	-0.96299	0.95246

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 864 di 1221
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11-0.19288	0.19288	-0.95246	0.91388
12-0.30990	0.30990	-0.91388	0.85190
13-0.40589	0.40589	-0.85190	0.77072
14-0.48262	0.48262	-0.77072	0.67420
15-0.54154	0.54154	-0.67420	0.56589
16-0.63490	0.63490	-0.56589	0.43891
17-0.70930	0.70930	-0.43891	0.29705
18-0.76594	0.76594	-0.29705	0.14386
19-0.80578	0.80578	-0.14386	-1.72949E-02
20-0.82956	0.82956	1.72949E-02	-0.18321
21-0.83785	0.83785	0.18321	-0.35078
22-0.83103	0.83103	0.35078	-0.51698
23-0.80934	0.80934	0.51698	-0.67885
24-0.80656	0.80656	0.67885	-0.84016
25-0.78826	0.78826	0.84016	-0.99781
26-0.75249	0.75249	0.99781	-1.1483
27-0.69928	0.69928	1.1483	-1.2882
28-0.62848	0.62848	1.2882	-1.4139
29-0.53986	0.53986	1.4139	-1.5218
30-0.43307	0.43307	1.5218	-1.6084
31-0.33365	0.33365	1.6084	-1.6752
32-0.21420	0.21420	1.6752	-1.7180
33-7.41542E-02	7.41542E-02	1.7180	-1.7329
34 8.70647E-02	-8.70647E-02	1.7329	-1.7154
35 0.27010	-0.27010	1.7154	-1.6614
36 0.47559	-0.47559	1.6614	-1.5663
37 0.70419	-0.70419	1.5663	-1.4255
38 0.95653	-0.95653	1.4255	-1.2342
39 1.2126	-1.2126	1.2342	-0.99164
40 1.4939	-1.4939	0.99164	-0.69285
41 1.8010	-1.8010	0.69285	-0.33265
42 2.1340	-2.1340	0.33265	9.41426E-02
43 2.4928	-2.4928	-9.41426E-02	0.59271
44 2.8775	-2.8775	-0.59271	1.1682
45 2.3151	-2.3151	-1.1682	1.6312
46 1.7982	-1.7982	-1.6312	1.9909
47 1.3411	-1.3411	-1.9909	2.2591
48 0.94103	-0.94103	-2.2591	2.4473
49 0.59480	-0.59480	-2.4473	2.5662
50 0.29892	-0.29892	-2.5662	2.6260
51 4.97743E-02	-4.97743E-02	-2.6260	2.6360
52-0.15635	0.15635	-2.6360	2.6047
53-0.32318	0.32318	-2.6047	2.5401
54-0.46837	0.46837	-2.5401	2.4464
55-0.58123	0.58123	-2.4464	2.3301
56-0.66523	0.66523	-2.3301	2.1971
57-0.72366	0.72366	-2.1971	2.0524
58-0.75963	0.75963	-2.0524	1.9004
59-0.77603	0.77603	-1.9004	1.7452
60-0.77557	0.77557	-1.7452	1.5901
61-0.77311	0.77311	-1.5901	1.4355
62-0.75802	0.75802	-1.4355	1.2839
63-0.73255	0.73255	-1.2839	1.1374
64-0.69856	0.69856	-1.1374	0.99767
65-0.65770	0.65770	-0.99767	0.86613
66-0.61141	0.61141	-0.86613	0.74385
67-0.56096	0.56096	-0.74385	0.63166
68-0.50743	0.50743	-0.63166	0.53017
69-0.46270	0.46270	-0.53017	0.43764
70-0.41643	0.41643	-0.43764	0.35435
71-0.36930	0.36930	-0.35435	0.28049
72-0.32185	0.32185	-0.28049	0.21612
73-0.27450	0.27450	-0.21612	0.16122
74-0.22760	0.22760	-0.16122	0.11570
75-0.18142	0.18142	-0.11570	7.94156E-02
76-0.14609	0.14609	-7.94156E-02	5.01978E-02
77-0.11168	0.11168	-5.01978E-02	2.78613E-02
78-7.83097E-02	7.83097E-02	-2.78613E-02	1.21994E-02
79-4.60476E-02	4.60476E-02	-1.21994E-02	2.98986E-03
80-1.49485E-02	1.49485E-02	-2.98986E-03	2.48385E-13

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                    |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:01:12  |
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New Project

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



Doc. N.

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Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
865 di 1221

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL FORCE d0 EDISPL pl. eps K -ve limit +ve limit

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.4553E+05 RIMNOR= 268.0
RENORM= 986.7 REMNOR=0.2203E-22 RATIO =0.1472 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 30.92 RMMAX = 2.636
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
RDT =0.4553E+05 RDR = 268.0
RATIOT=0.1472 RATOR= 0.000
MAX UN= 7.468 IEQ= 37 NODE 19 DOF 1 Y-DISPL.F
MIN UN=-.1476E-10 IEQ= 61 NODE 31 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.4553E+05 RIMNOR= 268.0
RENORM= 176.3 REMNOR=0.2063E-19 RATIO =0.6222E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 30.92 RMMAX = 2.636
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
RDT =0.4553E+05 RDR = 268.0
RATIOT=0.6222E-01 RATOR= 0.000
MAX UN= 5.303 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F
MIN UN=-.3803E-03 IEQ= 51 NODE 26 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM=0.4553E+05 RIMNOR= 268.0
RENORM= 203.6 REMNOR=0.2522E-18 RATIO =0.6686E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 30.92 RMMAX = 2.636
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
RDT =0.4553E+05 RDR = 268.0
RATIOT=0.6686E-01 RATOR= 0.000
MAX UN= 8.778 IEQ= 47 NODE 24 DOF 1 Y-DISPL.F
MIN UN=-.3654E-08 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
RINORM=0.4553E+05 RIMNOR= 268.0
RENORM= 11.90 REMNOR=0.1923E-18 RATIO =0.1617E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 30.92 RMMAX = 2.636
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
RDT =0.4553E+05 RDR = 268.0
RATIOT=0.1617E-01 RATOR= 0.000
MAX UN= 2.486 IEQ= 69 NODE 35 DOF 1 Y-DISPL.F
MIN UN=-.4795E-08 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
RINORM=0.4553E+05 RIMNOR= 268.0
RENORM=0.5637E-02 REMNOR=0.1562E-18 RATIO =0.3519E-03 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 30.92 RMMAX = 2.636
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
RDT =0.4553E+05 RDR = 268.0
RATIOT=0.3519E-03 RATOR= 0.000
MAX UN=0.7508E-01 IEQ= 77 NODE 39 DOF 1 Y-DISPL.F
MIN UN=-.2700E-08 IEQ= 17 NODE 9 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
RINORM=0.4553E+05 RIMNOR= 268.0
RENORM=0.5227E-16 REMNOR=0.2293E-18 RATIO =0.3388E-10 TOLER =0.1000E-03 CONVERGED !
RFMAX = 30.92 RMMAX = 2.636
RTSMAL=0.1000E-03 RMSMAL=0.1000E-04
RDT =0.4553E+05 RDR = 268.0
RATIOT=0.3388E-10 RATOR= 0.000
MAX UN=0.3327E-08 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F
MIN UN=-.2231E-08 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 866 di 1221
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|           PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION   *Build date:Jul 11, 2017*   |
|                                                                           |
|                                                                           |
|                                                                           |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514   |
|                               Exe Time :29 July 2019   18:01:12   |
|                                                                           |
|-----+-----+-----+-----+-----+
  
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New Project
 SOLUTION REACHED USING 6 ITERATIONS ON 100

P R I N T O U T F O R T I M E S T E P 3 (AT TIME 3.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)
1	1.1708003E-02	-1.6308263E-03
2	1.1381839E-02	-1.6308147E-03
3	1.1055680E-02	-1.6307608E-03
4	1.0729540E-02	-1.6306173E-03
5	1.0403444E-02	-1.6303199E-03
6	1.0077428E-02	-1.6297896E-03
7	9.7515494E-03	-1.6289331E-03
8	9.4258837E-03	-1.6276428E-03
9	9.1005293E-03	-1.6257974E-03
10	8.7756106E-03	-1.6232632E-03
11	8.4512797E-03	-1.6198943E-03
12	8.1277192E-03	-1.6155306E-03
13	7.8051453E-03	-1.6099983E-03
14	7.4838103E-03	-1.6031094E-03
15	7.1640054E-03	-1.5946626E-03
16	6.8460635E-03	-1.5844423E-03
17	6.5303619E-03	-1.5722205E-03
18	6.2173249E-03	-1.5577560E-03
19	5.9074261E-03	-1.5407939E-03
20	5.6011917E-03	-1.5210655E-03
21	5.2992013E-03	-1.4983159E-03
22	5.0020792E-03	-1.4723586E-03
23	4.7104777E-03	-1.4431030E-03
24	4.4250589E-03	-1.4105547E-03
25	4.1464700E-03	-1.3748154E-03
26	3.8753323E-03	-1.3360835E-03
27	3.6122176E-03	-1.2946361E-03
28	3.3576386E-03	-1.2507767E-03
29	3.1120492E-03	-1.2048014E-03
30	2.8758411E-03	-1.1569986E-03
31	2.6493528E-03	-1.1076507E-03
32	2.4328654E-03	-1.0570341E-03
33	2.2266056E-03	-1.0054198E-03
34	2.0307463E-03	-9.5307383E-04
35	1.8454084E-03	-9.0025760E-04
36	1.6706584E-03	-8.4722763E-04
37	1.5065147E-03	-7.9423758E-04
38	1.3529440E-03	-7.4153773E-04
39	1.2098637E-03	-6.8937580E-04
40	1.0771421E-03	-6.3799804E-04
41	9.5459747E-04	-5.8763576E-04
42	8.4200649E-04	-5.3849312E-04
43	7.3910716E-04	-4.9074646E-04
44	6.4560477E-04	-4.4454687E-04
45	5.6117714E-04	-4.0002254E-04
46	4.8547190E-04	-3.5736251E-04
47	4.1809246E-04	-3.1679769E-04
48	3.5860174E-04	-2.7849914E-04
49	3.0653387E-04	-2.4258465E-04
50	2.6140442E-04	-2.0912530E-04
51	2.2271832E-04	-1.7815075E-04
52	1.8997940E-04	-1.4965649E-04
53	1.6269348E-04	-1.2360600E-04
54	1.4037809E-04	-9.993252E-05
55	1.2256428E-04	-7.8574983E-05
56	1.0880112E-04	-5.9415338E-05
57	9.8658588E-05	-4.2349110E-05
58	9.1730001E-05	-2.7254975E-05
59	8.7633695E-05	-1.4004383E-05
60	8.6014227E-05	-2.4641050E-06
61	8.6543076E-05	7.5015139E-06
62	8.8918911E-05	1.6028311E-05
63	9.2867435E-05	2.3250618E-05
64	9.8140970E-05	2.9300102E-05
65	1.0451781E-04	3.4304545E-05
66	1.1180131E-04	3.8386798E-05
67	1.1981885E-04	4.1663935E-05
68	1.2842058E-04	4.4246549E-05
69	1.3747807E-04	4.6238191E-05

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 868 di 1221							
24 D	7.221	-4.4251E-03	96.28	36.10	96.28	51.03	ACTIVE	0.000	-4.600	0.000	1.000	1.000
36.10	0.000	0.000	Strato1_2_8_L_0									
25 D	7.509	-4.1465E-03	100.1	37.55	100.1	53.07	ACTIVE	0.000	-4.800	0.000	1.000	1.000
37.55	0.000	0.000	Strato1_2_8_L_0									
26 D	7.797	-3.8753E-03	104.0	38.99	104.0	55.10	ACTIVE	0.000	-5.000	0.000	1.000	1.000
38.99	0.000	0.000	Strato1_2_8_L_0									
27 D	8.085	-3.6122E-03	107.8	40.43	107.8	57.14	ACTIVE	0.000	-5.200	0.000	1.000	1.000
40.43	0.000	0.000	Strato1_2_8_L_0									
28 D	8.373	-3.3576E-03	111.6	41.87	111.6	59.17	ACTIVE	0.000	-5.400	0.000	1.000	1.000
41.87	0.000	0.000	Strato1_2_8_L_0									
29 D	8.661	-3.1120E-03	115.5	43.30	115.5	61.20	ACTIVE	0.000	-5.600	0.000	1.000	1.000
43.30	0.000	0.000	Strato1_2_8_L_0									
30 D	8.948	-2.8758E-03	119.3	44.74	119.3	63.23	ACTIVE	0.000	-5.800	0.000	1.000	1.000
44.74	0.000	0.000	Strato1_2_8_L_0									
31 D	9.217	-2.6494E-03	122.9	46.08	122.9	65.13	ACTIVE	0.000	-6.000	0.000	1.000	1.000
46.08	0.000	0.000	Strato1_2_8_L_0									
32 D	9.505	-2.4329E-03	126.7	47.52	126.7	67.17	ACTIVE	0.000	-6.200	0.000	1.000	1.000
47.52	0.000	0.000	Strato1_2_8_L_0									
33 D	9.792	-2.2266E-03	130.6	48.96	130.6	69.20	ACTIVE	0.000	-6.400	0.000	1.000	1.000
48.96	0.000	0.000	Strato1_2_8_L_0									
34 D	10.08	-2.0307E-03	134.4	50.40	134.4	71.23	ACTIVE	0.000	-6.600	0.000	1.000	1.000
50.40	0.000	0.000	Strato1_2_8_L_0									
35 D	10.37	-1.8454E-03	138.2	51.83	138.2	73.26	ACTIVE	0.000	-6.800	0.000	1.000	1.000
51.83	0.000	0.000	Strato1_2_8_L_0									
36 D	10.65	-1.6707E-03	142.1	53.27	142.1	75.29	ACTIVE	0.000	-7.000	0.000	1.000	1.000
53.27	0.000	0.000	Strato1_2_8_L_0									
37 D	10.94	-1.5065E-03	145.9	54.70	145.9	77.31	ACTIVE	0.000	-7.200	0.000	1.000	1.000
54.70	0.000	0.000	Strato1_2_8_L_0									
38 D	11.23	-1.3529E-03	149.7	56.14	149.7	79.34	ACTIVE	0.000	-7.400	0.000	1.000	1.000
56.14	0.000	0.000	Strato1_2_8_L_0									
39 D	11.50	-1.2099E-03	153.3	57.50	153.3	81.27	ACTIVE	0.000	-7.600	0.000	1.000	1.000
57.50	0.000	0.000	Strato1_2_8_L_0									
40 D	12.33	-1.0771E-03	157.2	61.67	157.2	83.29	UL-RL	1.8696E+04	-7.800	0.000	1.000	1.000
61.67	0.000	0.000	Strato1_2_8_L_0									
41 D	13.21	-9.5460E-04	161.0	66.04	161.0	85.32	UL-RL	1.8696E+04	-8.000	0.000	1.000	1.000
66.04	0.000	0.000	Strato1_2_8_L_0									
42 D	14.04	-8.4201E-04	164.8	70.22	164.8	87.35	UL-RL	1.8696E+04	-8.200	0.000	1.000	1.000
70.22	0.000	0.000	Strato1_2_8_L_0									
43 D	14.85	-7.3911E-04	168.6	74.23	168.6	89.38	UL-RL	1.8696E+04	-8.400	0.000	1.000	1.000
74.23	0.000	0.000	Strato1_2_8_L_0									
44 D	15.61	-6.4560E-04	172.5	78.05	172.5	91.40	UL-RL	1.8696E+04	-8.600	0.000	1.000	1.000
78.05	0.000	0.000	Strato1_2_8_L_0									
45 D	11.13	-5.6118E-04	176.4	55.66	176.4	88.19	UL-RL	5.1887E+04	-8.800	0.000	1.000	1.000
55.66	0.000	0.000	Strato2_3095_82743_L_0									
46 D	12.33	-4.8547E-04	180.2	61.66	180.2	90.12	UL-RL	5.1887E+04	-9.000	0.000	1.000	1.000
61.66	0.000	0.000	Strato2_3095_82743_L_0									
47 D	13.46	-4.1809E-04	184.3	67.30	184.3	92.13	UL-RL	5.1887E+04	-9.200	0.000	1.000	1.000
67.30	0.000	0.000	Strato2_3095_82743_L_0									
48 D	14.51	-3.5860E-04	188.3	72.53	188.3	94.14	UL-RL	5.1887E+04	-9.400	0.000	1.000	1.000
72.53	0.000	0.000	Strato2_3095_82743_L_0									
49 D	15.47	-3.0653E-04	192.3	77.36	192.3	96.15	UL-RL	5.1887E+04	-9.600	0.000	1.000	1.000
77.36	0.000	0.000	Strato2_3095_82743_L_0									
50 D	16.36	-2.6140E-04	196.3	81.82	196.3	98.16	UL-RL	5.1887E+04	-9.800	0.000	1.000	1.000
81.82	0.000	0.000	Strato2_3095_82743_L_0									
51 D	17.19	-2.2272E-04	200.3	85.95	200.3	100.2	UL-RL	5.1887E+04	-10.00	0.000	1.000	1.000
85.95	0.000	0.000	Strato2_3095_82743_L_0									
52 D	17.95	-1.8998E-04	204.4	89.75	204.4	102.2	UL-RL	5.1887E+04	-10.20	0.000	1.000	1.000
89.75	0.000	0.000	Strato2_3095_82743_L_0									
53 D	18.65	-1.6269E-04	208.4	93.26	208.4	104.2	UL-RL	5.1887E+04	-10.40	0.000	1.000	1.000
93.26	0.000	0.000	Strato2_3095_82743_L_0									
54 D	19.29	-1.4038E-04	212.3	96.44	212.3	106.1	UL-RL	5.1887E+04	-10.60	0.000	1.000	1.000
96.44	0.000	0.000	Strato2_3095_82743_L_0									
55 D	19.89	-1.2256E-04	216.3	99.44	216.3	108.1	UL-RL	5.1887E+04	-10.80	0.000	1.000	1.000
99.44	0.000	0.000	Strato2_3095_82743_L_0									
56 D	20.45	-1.0880E-04	220.3	102.2	220.3	110.1	UL-RL	5.1887E+04	-11.00	0.000	1.000	1.000
102.2	0.000	0.000	Strato2_3095_82743_L_0									
57 D	20.96	-9.8659E-05	224.3	104.8	224.3	112.2	UL-RL	5.1887E+04	-11.20	0.000	1.000	1.000
104.8	0.000	0.000	Strato2_3095_82743_L_0									
58 D	21.45	-9.1730E-05	228.3	107.2	228.3	114.2	UL-RL	5.1887E+04	-11.40	0.000	1.000	1.000
107.2	0.000	0.000	Strato2_3095_82743_L_0									
59 D	21.90	-8.7634E-05	232.3	109.5	232.3	116.2	UL-RL	5.1887E+04	-11.60	0.000	1.000	1.000
109.5	0.000	0.000	Strato2_3095_82743_L_0									
60 D	22.33	-8.6014E-05	236.4	111.6	236.4	118.2	UL-RL	5.1887E+04	-11.80	0.000	1.000	1.000
111.6	0.000	0.000	Strato2_3095_82743_L_0									
61 D	22.71	-8.6543E-05	240.3	113.6	240.3	120.1	UL-RL	5.1887E+04	-12.00	0.000	1.000	1.000
113.6	0.000	0.000	Strato2_3095_82743_L_0									
62 D	23.10	-8.8919E-05	244.3	115.5	244.3	122.1	UL-RL	5.1887E+04	-12.20	0.000	1.000	1.000
115.5	0.000	0.000	Strato2_3095_82743_L_0									
63 D	23.46	-9.2867E-05	248.3	117.3	248.3	124.1	UL-RL	5.1887E+04	-12.40	0.000	1.000	1.000
117.3	0.000	0.000	Strato2_3095_82743_L_0									
64 D	23.81	-9.8141E-05	252.3	119.1	252.3	126.2	UL-RL	5.1887E+04	-12.60	0.000	1.000	1.000
119.1	0.000	0.000	Strato2_3095_82743_L_0									
65 D	24.15	-1.0452E-04	256.3	120.7	256.3	128.2	UL-RL	5.1887E+04	-12.80	0.000	1.000	1.000
120.7	0.000	0.000	Strato2_3095_82743_L_0									
66 D	24.48	-1.1180E-04	260.3	122.4	260.3	130.2	UL-RL	5.1887E+04	-13.00	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 869 di 1221
122.4	0.000	0.000	Strato2_3095_82743_L_0		
67 D	24.80	-1.1982E-04	264.3 124.0 264.3	132.2	UL-RL 5.1887E+04 -13.20 0.000 1.000 1.000
124.0	0.000	0.000	Strato2_3095_82743_L_0		
68 D	25.11	-1.2842E-04	268.4 125.5 268.4	134.2	UL-RL 5.1887E+04 -13.40 0.000 1.000 1.000
125.5	0.000	0.000	Strato2_3095_82743_L_0		
69 D	25.41	-1.3748E-04	272.3 127.0 272.3	136.1	UL-RL 5.1887E+04 -13.60 0.000 1.000 1.000
127.0	0.000	0.000	Strato2_3095_82743_L_0		
70 D	25.71	-1.4688E-04	276.3 128.6 276.3	138.1	UL-RL 5.1887E+04 -13.80 0.000 1.000 1.000
128.6	0.000	0.000	Strato2_3095_82743_L_0		
71 D	26.01	-1.5654E-04	280.3 130.1 280.3	140.1	UL-RL 5.1887E+04 -14.00 0.000 1.000 1.000
130.1	0.000	0.000	Strato2_3095_82743_L_0		
72 D	26.31	-1.6639E-04	284.3 131.6 284.3	142.2	UL-RL 5.1887E+04 -14.20 0.000 1.000 1.000
131.6	0.000	0.000	Strato2_3095_82743_L_0		
73 D	26.61	-1.7636E-04	288.3 133.0 288.3	144.2	UL-RL 5.1887E+04 -14.40 0.000 1.000 1.000
133.0	0.000	0.000	Strato2_3095_82743_L_0		
74 D	26.90	-1.8641E-04	292.3 134.5 292.3	146.2	UL-RL 5.1887E+04 -14.60 0.000 1.000 1.000
134.5	0.000	0.000	Strato2_3095_82743_L_0		
75 D	27.20	-1.9651E-04	296.4 136.0 296.4	148.2	UL-RL 5.1887E+04 -14.80 0.000 1.000 1.000
136.0	0.000	0.000	Strato2_3095_82743_L_0		
76 D	27.48	-2.0664E-04	300.3 137.4 300.3	150.1	UL-RL 5.1887E+04 -15.00 0.000 1.000 1.000
137.4	0.000	0.000	Strato2_3095_82743_L_0		
77 D	27.78	-2.1677E-04	304.3 138.9 304.3	152.1	UL-RL 5.1887E+04 -15.20 0.000 1.000 1.000
138.9	0.000	0.000	Strato2_3095_82743_L_0		
78 D	28.07	-2.2691E-04	308.3 140.4 308.3	154.1	UL-RL 5.1887E+04 -15.40 0.000 1.000 1.000
140.4	0.000	0.000	Strato2_3095_82743_L_0		
79 D	28.37	-2.3704E-04	312.3 141.8 312.3	156.2	UL-RL 5.1887E+04 -15.60 0.000 1.000 1.000
141.8	0.000	0.000	Strato2_3095_82743_L_0		
80 D	28.66	-2.4717E-04	316.3 143.3 316.3	158.2	UL-RL 5.1887E+04 -15.80 0.000 1.000 1.000
143.3	0.000	0.000	Strato2_3095_82743_L_0		
81 D	14.48	-2.5730E-04	320.3 144.8 320.3	160.2	UL-RL 5.1887E+04 -16.00 0.000 1.000 1.000
144.8	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A2M2R1_3514          |
|          Exe Time :29 July 2019          18:01:12          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
CURRENT TIME IS 3.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
0.000	0.000	0.000	not available									
14	0.000	--	--	--	--	--	REMOVED	--	-2.600	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 870 di 1221
0.000	0.000	0.000	not available		
15	0.000	--	--	--	--
0.000	0.000	0.000	not available		
16	0.000	--	--	--	--
0.000	0.000	0.000	not available		
17	0.000	--	--	--	--
0.000	0.000	0.000	not available		
18	0.000	--	--	--	--
0.000	0.000	0.000	not available		
19	0.000	--	--	--	--
0.000	0.000	0.000	not available		
20 D	1.154	5.6012E-03	1.900 5.772	72.20	39.34
5.772	0.000	0.000	Strato1_2_8_L_0		
21 D	3.463	5.2992E-03	5.700 17.32	76.00	41.35
17.32	0.000	0.000	Strato1_2_8_L_0		
22 D	5.772	5.0021E-03	9.500 28.86	79.80	43.35
28.86	0.000	0.000	Strato1_2_8_L_0		
23 D	8.081	4.7105E-03	13.30 40.41	83.60	45.35
40.41	0.000	0.000	Strato1_2_8_L_0		
24 D	10.39	4.4251E-03	17.10 51.95	87.40	51.95
51.95	0.000	0.000	Strato1_2_8_L_0		
25 D	12.70	4.1465E-03	20.90 63.49	91.20	63.49
63.49	0.000	0.000	Strato1_2_8_L_0		
26 D	14.27	3.8753E-03	24.70 71.36	95.00	71.36
71.36	0.000	0.000	Strato1_2_8_L_0		
27 D	14.40	3.6122E-03	28.50 71.98	98.80	71.98
71.98	0.000	0.000	Strato1_2_8_L_0		
28 D	14.53	3.3576E-03	32.30 72.64	102.6	72.64
72.64	0.000	0.000	Strato1_2_8_L_0		
29 D	14.67	3.1120E-03	36.10 73.35	106.4	73.35
73.35	0.000	0.000	Strato1_2_8_L_0		
30 D	14.82	2.8758E-03	39.90 74.11	110.2	74.11
74.11	0.000	0.000	Strato1_2_8_L_0		
31 D	14.98	2.6494E-03	43.70 74.92	114.0	74.92
74.92	0.000	0.000	Strato1_2_8_L_0		
32 D	15.16	2.4329E-03	47.50 75.79	117.8	75.79
75.79	0.000	0.000	Strato1_2_8_L_0		
33 D	15.34	2.2266E-03	51.30 76.70	121.6	76.70
76.70	0.000	0.000	Strato1_2_8_L_0		
34 D	15.53	2.0307E-03	55.10 77.67	125.4	77.67
77.67	0.000	0.000	Strato1_2_8_L_0		
35 D	15.74	1.8454E-03	58.90 78.70	129.2	78.70
78.70	0.000	0.000	Strato1_2_8_L_0		
36 D	15.96	1.6707E-03	62.70 79.78	133.0	79.78
79.78	0.000	0.000	Strato1_2_8_L_0		
37 D	16.18	1.5065E-03	66.50 80.91	136.8	80.91
80.91	0.000	0.000	Strato1_2_8_L_0		
38 D	16.42	1.3529E-03	70.30 82.10	140.6	82.10
82.10	0.000	0.000	Strato1_2_8_L_0		
39 D	16.67	1.2099E-03	74.10 83.35	144.4	83.35
83.35	0.000	0.000	Strato1_2_8_L_0		
40 D	16.93	1.0771E-03	77.90 84.65	148.2	84.65
84.65	0.000	0.000	Strato1_2_8_L_0		
41 D	17.20	9.5460E-04	81.70 86.00	152.0	86.00
86.00	0.000	0.000	Strato1_2_8_L_0		
42 D	17.48	8.4201E-04	85.50 87.41	155.8	87.41
87.41	0.000	0.000	Strato1_2_8_L_0		
43 D	17.77	7.3911E-04	89.30 88.86	159.6	88.86
88.86	0.000	0.000	Strato1_2_8_L_0		
44 D	18.07	6.4560E-04	93.10 90.37	163.4	90.37
90.37	0.000	0.000	Strato1_2_8_L_0		
45 D	16.65	5.6118E-04	97.00 83.26	167.3	85.04
83.26	0.000	0.000	Strato2_3095_82743_L_0		
46 D	16.53	4.8547E-04	101.0 82.65	171.3	86.98
82.65	0.000	0.000	Strato2_3095_82743_L_0		
47 D	16.47	4.1809E-04	105.0 82.34	175.3	88.92
82.34	0.000	0.000	Strato2_3095_82743_L_0		
48 D	16.46	3.5860E-04	109.0 82.30	179.3	90.87
82.30	0.000	0.000	Strato2_3095_82743_L_0		
49 D	16.50	3.0653E-04	113.0 82.52	183.3	92.82
82.52	0.000	0.000	Strato2_3095_82743_L_0		
50 D	16.60	2.6140E-04	117.0 82.99	187.3	94.78
82.99	0.000	0.000	Strato2_3095_82743_L_0		
51 D	16.74	2.2272E-04	121.0 83.68	191.3	96.73
83.68	0.000	0.000	Strato2_3095_82743_L_0		
52 D	16.91	1.8998E-04	125.0 84.57	195.3	98.69
84.57	0.000	0.000	Strato2_3095_82743_L_0		
53 D	17.13	1.6269E-04	129.0 85.66	199.3	100.7
85.66	0.000	0.000	Strato2_3095_82743_L_0		
54 D	17.39	1.4038E-04	133.0 86.93	203.3	102.6
86.93	0.000	0.000	Strato2_3095_82743_L_0		
55 D	17.67	1.2256E-04	137.0 88.34	207.3	104.6
88.34	0.000	0.000	Strato2_3095_82743_L_0		
56 D	17.98	1.0880E-04	141.0 89.90	211.3	106.6
89.90	0.000	0.000	Strato2_3095_82743_L_0		



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 871 di 1221
57 D	18.32	9.8659E-05	145.0	91.59	215.3
91.59	0.000	0.000	Strato2_3095_82743_L_0		
58 D	18.68	9.1730E-05	149.0	93.39	219.3
93.39	0.000	0.000	Strato2_3095_82743_L_0		
59 D	19.06	8.7634E-05	153.0	95.29	223.3
95.29	0.000	0.000	Strato2_3095_82743_L_0		
60 D	19.45	8.6014E-05	157.0	97.27	227.3
97.27	0.000	0.000	Strato2_3095_82743_L_0		
61 D	19.86	8.6543E-05	161.0	99.32	231.3
99.32	0.000	0.000	Strato2_3095_82743_L_0		
62 D	20.29	8.8919E-05	165.0	101.4	235.3
101.4	0.000	0.000	Strato2_3095_82743_L_0		
63 D	20.72	9.2867E-05	169.0	103.6	239.3
103.6	0.000	0.000	Strato2_3095_82743_L_0		
64 D	21.17	9.8141E-05	173.0	105.8	243.3
105.8	0.000	0.000	Strato2_3095_82743_L_0		
65 D	21.62	1.0452E-04	177.0	108.1	247.3
108.1	0.000	0.000	Strato2_3095_82743_L_0		
66 D	22.08	1.1180E-04	181.0	110.4	251.3
110.4	0.000	0.000	Strato2_3095_82743_L_0		
67 D	22.54	1.1982E-04	185.0	112.7	255.3
112.7	0.000	0.000	Strato2_3095_82743_L_0		
68 D	23.01	1.2842E-04	189.0	115.0	259.3
115.0	0.000	0.000	Strato2_3095_82743_L_0		
69 D	23.48	1.3748E-04	193.0	117.4	263.3
117.4	0.000	0.000	Strato2_3095_82743_L_0		
70 D	23.95	1.4688E-04	197.0	119.7	267.3
119.7	0.000	0.000	Strato2_3095_82743_L_0		
71 D	24.42	1.5654E-04	201.0	122.1	271.3
122.1	0.000	0.000	Strato2_3095_82743_L_0		
72 D	24.89	1.6639E-04	205.0	124.5	275.3
124.5	0.000	0.000	Strato2_3095_82743_L_0		
73 D	25.37	1.7636E-04	209.0	126.9	279.3
126.9	0.000	0.000	Strato2_3095_82743_L_0		
74 D	25.85	1.8641E-04	213.0	129.2	283.3
129.2	0.000	0.000	Strato2_3095_82743_L_0		
75 D	26.32	1.9651E-04	217.0	131.6	287.3
131.6	0.000	0.000	Strato2_3095_82743_L_0		
76 D	26.80	2.0664E-04	221.0	134.0	291.3
134.0	0.000	0.000	Strato2_3095_82743_L_0		
77 D	27.27	2.1677E-04	225.0	136.4	295.3
136.4	0.000	0.000	Strato2_3095_82743_L_0		
78 D	27.75	2.2691E-04	229.0	138.7	299.3
138.7	0.000	0.000	Strato2_3095_82743_L_0		
79 D	28.22	2.3704E-04	233.0	141.1	303.3
141.1	0.000	0.000	Strato2_3095_82743_L_0		
80 D	28.70	2.4717E-04	237.0	143.5	307.3
143.5	0.000	0.000	Strato2_3095_82743_L_0		
81 D	14.59	2.5730E-04	241.0	145.9	311.3
145.9	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.A2M2R1_3514                                         |
|          Exe Time :29 July 2019          18:01:12                                           |
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New Project

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.48750	-0.48750	1.40146E-11	9.75000E-02
2	1.2950	-1.2950	-9.75000E-02	0.35650
3	2.4831	-2.4831	-0.35650	0.85313
4	3.9953	-3.9953	-0.85313	1.6522
5	5.8136	-5.8136	-1.6522	2.8149
6	7.9301	-7.9301	-2.8149	4.4009
7	10.341	-10.341	-4.4009	6.4691
8	13.043	-13.043	-6.4691	9.0776
9	15.970	-15.970	-9.0776	12.272
10	19.192	-19.192	-12.272	16.110
11	22.709	-22.709	-16.110	20.652
12	26.519	-26.519	-20.652	25.956

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 872 di 1221
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13	30.619	-30.619	-25.956	32.079
14	35.010	-35.010	-32.079	39.081
15	39.690	-39.690	-39.081	47.019
16	44.622	-44.622	-47.019	55.944
17	49.846	-49.846	-55.944	65.913
18	55.359	-55.359	-65.913	76.985
19	61.162	-61.162	-76.985	89.217
20	66.100	-66.100	-89.217	102.44
21	69.017	-69.017	-102.44	116.24
22	69.914	-69.914	-116.24	130.22
23	68.790	-68.790	-130.22	143.98
24	65.620	-65.620	-143.98	157.11
25	60.431	-60.431	-157.11	169.19
26	53.956	-53.956	-169.19	179.98
27	47.645	-47.645	-179.98	189.51
28	41.490	-41.490	-189.51	197.81
29	35.480	-35.480	-197.81	204.91
30	29.605	-29.605	-204.91	210.83
31	23.837	-23.837	-210.83	215.59
32	18.185	-18.185	-215.59	219.23
33	12.637	-12.637	-219.23	221.76
34	7.1823	-7.1823	-221.76	223.19
35	1.8099	-1.8099	-223.19	223.56
36	-3.4914	3.4914	-223.56	222.86
37	-8.7328	8.7328	-222.86	221.11
38	-13.925	13.925	-221.11	218.33
39	-19.095	19.095	-218.33	214.51
40	-23.691	23.691	-214.51	209.77
41	-27.683	27.683	-209.77	204.23
42	-31.120	31.120	-204.23	198.01
43	-34.047	34.047	-198.01	191.20
44	-36.510	36.510	-191.20	183.90
45	-42.029	42.029	-183.90	175.49
46	-46.227	46.227	-175.49	166.25
47	-49.234	49.234	-166.25	156.40
48	-51.189	51.189	-156.40	146.16
49	-52.221	52.221	-146.16	135.72
50	-52.453	52.453	-135.72	125.23
51	-51.999	51.999	-125.23	114.83
52	-50.964	50.964	-114.83	104.63
53	-49.444	49.444	-104.63	94.746
54	-47.542	47.542	-94.746	85.238
55	-45.322	45.322	-85.238	76.173
56	-42.858	42.858	-76.173	67.602
57	-40.212	40.212	-67.602	59.559
58	-37.443	37.443	-59.559	52.071
59	-34.600	34.600	-52.071	45.151
60	-31.728	31.728	-45.151	38.805
61	-28.878	28.878	-38.805	33.029
62	-26.070	26.070	-33.029	27.815
63	-23.332	23.332	-27.815	23.149
64	-20.688	20.688	-23.149	19.011
65	-18.157	18.157	-19.011	15.380
66	-15.756	15.756	-15.380	12.229
67	-13.499	13.499	-12.229	9.5288
68	-11.395	11.395	-9.5288	7.2498
69	-9.4632	9.4632	-7.2498	5.3572
70	-7.6996	7.6996	-5.3572	3.8173
71	-6.1084	6.1084	-3.8173	2.5956
72	-4.6931	4.6931	-2.5956	1.6570
73	-3.4558	3.4558	-1.6570	0.96583
74	-2.3979	2.3979	-0.96583	0.48625
75	-1.5204	1.5204	-0.48625	0.18217
76	-0.83343	0.83343	-0.18217	1.54876E-02
77	-0.32718	0.32718	-1.54876E-02	4.99488E-02
78	-1.60068E-03	1.60068E-03	4.99488E-02	5.02689E-02
79	0.14340	-0.14340	5.02689E-02	2.15880E-02
80	0.10793	-0.10793	2.15880E-02	1.58688E-12

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                    |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:01:12  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 873 di 1221
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CURRENT TIME IS 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL FORCE d0 EDISPL pl. eps K -ve limit +ve limit

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2454E+06 RIMNOR=0.2340E+07
 RENORM= 8234. REMNOR=0.2293E-18 RATIO =0.1832 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 223.6
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.2454E+06 RDR =0.2340E+07
 RATIOT=0.1832 RATIO= 0.000
 MAX UN=0.3327E-08 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F
 MIN UN=-90.74 IEQ= 33 NODE 17 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2454E+06 RIMNOR=0.2340E+07
 RENORM= 14.55 REMNOR=0.9393E-19 RATIO =0.7699E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 223.6
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.2454E+06 RDR =0.2340E+07
 RATIOT=0.7699E-02 RATIO= 0.000
 MAX UN=0.1071E-08 IEQ= 43 NODE 22 DOF 1 Y-DISPL.F
 MIN UN=-1.471 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2454E+06 RIMNOR=0.2340E+07
 RENORM=0.1908 REMNOR=0.9081E-19 RATIO =0.8817E-03 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 223.6
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.2454E+06 RDR =0.2340E+07
 RATIOT=0.8817E-03 RATIO= 0.000
 MAX UN=0.2984E-08 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
 MIN UN=-.3843 IEQ= 37 NODE 19 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2454E+06 RIMNOR=0.2340E+07
 RENORM=0.1158E-16 REMNOR=0.9990E-19 RATIO =0.6870E-11 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 90.74 RMMAX = 223.6
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.2454E+06 RDR =0.2340E+07
 RATIOT=0.6870E-11 RATIO= 0.000
 MAX UN=0.1147E-08 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F
 MIN UN=-.1545E-08 IEQ= 35 NODE 18 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
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|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:01:12  |
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New Project
 SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 4 (AT TIME 4.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	1.0423081E-02	-1.5191932E-03	
2	1.0119244E-02	-1.5191594E-03	
3	9.8154254E-03	-1.5189963E-03	
4	9.5116633E-03	-1.5185693E-03	
5	9.2080256E-03	-1.5177240E-03	
6	8.9046131E-03	-1.5162880E-03	
7	8.6015624E-03	-1.5140722E-03	
8	8.2990499E-03	-1.5108707E-03	
9	7.9972946E-03	-1.5064614E-03	
10	7.6965616E-03	-1.5006078E-03	

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 874 di 1221
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- 11 7.3971645E-03 -1.4930591E-03
- 12 7.0994688E-03 -1.4835481E-03
- 13 6.8038950E-03 -1.4717913E-03
- 14 6.5109220E-03 -1.4574891E-03
- 15 6.2210901E-03 -1.4403261E-03
- 16 5.9350043E-03 -1.4199708E-03
- 17 5.6533376E-03 -1.3960773E-03
- 18 5.3766897E-03 -1.3704393E-03
- 19 5.1051596E-03 -1.3448351E-03
- 20 4.8387795E-03 -1.3188732E-03
- 21 4.5776611E-03 -1.2921506E-03
- 22 4.3219960E-03 -1.2642771E-03
- 23 4.0720482E-03 -1.2349334E-03
- 24 3.8281359E-03 -1.2039089E-03
- 25 3.5906047E-03 -1.1711027E-03
- 26 3.3598130E-03 -1.1365246E-03
- 27 3.1361062E-03 -1.1002758E-03
- 28 2.9198046E-03 -1.0624973E-03
- 29 2.7112006E-03 -1.0233355E-03
- 30 2.5105536E-03 -9.8294140E-04
- 31 2.3180957E-03 -9.4147170E-04
- 32 2.1340258E-03 -8.9908865E-04
- 33 1.9585100E-03 -8.5596008E-04
- 34 1.7916800E-03 -8.1225898E-04
- 35 1.6336334E-03 -7.6816366E-04
- 36 1.4844294E-03 -7.2385681E-04
- 37 1.3440922E-03 -6.7952682E-04
- 38 1.2126073E-03 -6.3536683E-04
- 39 1.0899210E-03 -5.9157492E-04
- 40 9.7593983E-04 -5.4835466E-04
- 41 8.7052857E-04 -5.0590119E-04
- 42 7.7351665E-04 -4.6438825E-04
- 43 6.8470048E-04 -4.2396720E-04
- 44 6.0384825E-04 -3.8476896E-04
- 45 5.3070424E-04 -3.4690594E-04
- 46 4.6498593E-04 -3.1054775E-04
- 47 4.0637084E-04 -2.7590407E-04
- 48 3.5449949E-04 -2.4313259E-04
- 49 3.0898558E-04 -2.1234452E-04
- 50 2.6942495E-04 -1.8361021E-04
- 51 2.3540250E-04 -1.5696377E-04
- 52 2.0650055E-04 -1.3240914E-04
- 53 1.8230160E-04 -1.0992213E-04
- 54 1.6239687E-04 -8.9457623E-05
- 55 1.4638798E-04 -7.0951665E-05
- 56 1.3389089E-04 -5.4325449E-05
- 57 1.2453855E-04 -3.9488094E-05
- 58 1.1798307E-04 -2.6339457E-05
- 59 1.1389731E-04 -1.4772650E-05
- 60 1.1197598E-04 -4.6762714E-06
- 61 1.1193637E-04 4.0636337E-06
- 62 1.1351863E-04 1.1561561E-05
- 63 1.1648576E-04 1.7931066E-05
- 64 1.2062328E-04 2.3283782E-05
- 65 1.2573873E-04 2.7728328E-05
- 66 1.3166104E-04 3.1369399E-05
- 67 1.3823959E-04 3.4306995E-05
- 68 1.4534325E-04 3.6635802E-05
- 69 1.5285925E-04 3.8444683E-05
- 70 1.6069196E-04 3.9816019E-05
- 71 1.6876153E-04 4.0825399E-05
- 72 1.7700258E-04 4.1541651E-05
- 73 1.8536277E-04 4.2026661E-05
- 74 1.9380148E-04 4.2335255E-05
- 75 2.0228829E-04 4.2515109E-05
- 76 2.1080164E-04 4.2606701E-05
- 77 2.1932729E-04 4.2643041E-05
- 78 2.2785687E-04 4.2649663E-05
- 79 2.3638639E-04 4.2644856E-05
- 80 2.4491479E-04 4.2639668E-05
- 81 2.5344292E-04 4.2637907E-05

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A2M2R1_3514                                                                                       |
|          Exe Time :29 July 2019  18:01:12                                                                                               |
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New Project

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 876 di 1221							
37 D	11.55	-1.3441E-03	145.9	57.74	145.9	77.31	UL-RL	1.8696E+04	-7.200	0.000	1.000	1.000
57.74	0.000	0.000	Strato1_2_8_L_0									
38 D	11.75	-1.2126E-03	149.7	58.76	149.7	79.34	UL-RL	1.8696E+04	-7.400	0.000	1.000	1.000
58.76	0.000	0.000	Strato1_2_8_L_0									
39 D	11.95	-1.0899E-03	153.3	59.74	153.3	81.27	UL-RL	1.8696E+04	-7.600	0.000	1.000	1.000
59.74	0.000	0.000	Strato1_2_8_L_0									
40 D	12.71	-9.7594E-04	157.2	63.56	157.2	83.29	UL-RL	1.8696E+04	-7.800	0.000	1.000	1.000
63.56	0.000	0.000	Strato1_2_8_L_0									
41 D	13.52	-8.7053E-04	161.0	67.61	161.0	85.32	UL-RL	1.8696E+04	-8.000	0.000	1.000	1.000
67.61	0.000	0.000	Strato1_2_8_L_0									
42 D	14.30	-7.7352E-04	164.8	71.50	164.8	87.35	UL-RL	1.8696E+04	-8.200	0.000	1.000	1.000
71.50	0.000	0.000	Strato1_2_8_L_0									
43 D	15.05	-6.8470E-04	168.6	75.24	168.6	89.38	UL-RL	1.8696E+04	-8.400	0.000	1.000	1.000
75.24	0.000	0.000	Strato1_2_8_L_0									
44 D	15.77	-6.0385E-04	172.5	78.83	172.5	91.40	UL-RL	1.8696E+04	-8.600	0.000	1.000	1.000
78.83	0.000	0.000	Strato1_2_8_L_0									
45 D	11.45	-5.3070E-04	176.4	57.24	176.4	88.19	UL-RL	5.1887E+04	-8.800	0.000	1.000	1.000
57.24	0.000	0.000	Strato2_3095_82743_L_0									
46 D	12.54	-4.6499E-04	180.2	62.72	180.2	90.12	UL-RL	5.1887E+04	-9.000	0.000	1.000	1.000
62.72	0.000	0.000	Strato2_3095_82743_L_0									
47 D	13.58	-4.0637E-04	184.3	67.91	184.3	92.13	UL-RL	5.1887E+04	-9.200	0.000	1.000	1.000
67.91	0.000	0.000	Strato2_3095_82743_L_0									
48 D	14.55	-3.5450E-04	188.3	72.74	188.3	94.14	UL-RL	5.1887E+04	-9.400	0.000	1.000	1.000
72.74	0.000	0.000	Strato2_3095_82743_L_0									
49 D	15.45	-3.0899E-04	192.3	77.23	192.3	96.15	UL-RL	5.1887E+04	-9.600	0.000	1.000	1.000
77.23	0.000	0.000	Strato2_3095_82743_L_0									
50 D	16.28	-2.6942E-04	196.3	81.41	196.3	98.16	UL-RL	5.1887E+04	-9.800	0.000	1.000	1.000
81.41	0.000	0.000	Strato2_3095_82743_L_0									
51 D	17.06	-2.3540E-04	200.3	85.29	200.3	100.2	UL-RL	5.1887E+04	-10.00	0.000	1.000	1.000
85.29	0.000	0.000	Strato2_3095_82743_L_0									
52 D	17.78	-2.0650E-04	204.4	88.89	204.4	102.2	UL-RL	5.1887E+04	-10.20	0.000	1.000	1.000
88.89	0.000	0.000	Strato2_3095_82743_L_0									
53 D	18.45	-1.8230E-04	208.4	92.24	208.4	104.2	UL-RL	5.1887E+04	-10.40	0.000	1.000	1.000
92.24	0.000	0.000	Strato2_3095_82743_L_0									
54 D	19.06	-1.6240E-04	212.3	95.30	212.3	106.1	UL-RL	5.1887E+04	-10.60	0.000	1.000	1.000
95.30	0.000	0.000	Strato2_3095_82743_L_0									
55 D	19.64	-1.4639E-04	216.3	98.21	216.3	108.1	UL-RL	5.1887E+04	-10.80	0.000	1.000	1.000
98.21	0.000	0.000	Strato2_3095_82743_L_0									
56 D	20.19	-1.3389E-04	220.3	100.9	220.3	110.1	UL-RL	5.1887E+04	-11.00	0.000	1.000	1.000
100.9	0.000	0.000	Strato2_3095_82743_L_0									
57 D	20.70	-1.2454E-04	224.3	103.5	224.3	112.2	UL-RL	5.1887E+04	-11.20	0.000	1.000	1.000
103.5	0.000	0.000	Strato2_3095_82743_L_0									
58 D	21.17	-1.1798E-04	228.3	105.9	228.3	114.2	UL-RL	5.1887E+04	-11.40	0.000	1.000	1.000
105.9	0.000	0.000	Strato2_3095_82743_L_0									
59 D	21.63	-1.1390E-04	232.3	108.1	232.3	116.2	UL-RL	5.1887E+04	-11.60	0.000	1.000	1.000
108.1	0.000	0.000	Strato2_3095_82743_L_0									
60 D	22.06	-1.1198E-04	236.4	110.3	236.4	118.2	UL-RL	5.1887E+04	-11.80	0.000	1.000	1.000
110.3	0.000	0.000	Strato2_3095_82743_L_0									
61 D	22.45	-1.1194E-04	240.3	112.3	240.3	120.1	UL-RL	5.1887E+04	-12.00	0.000	1.000	1.000
112.3	0.000	0.000	Strato2_3095_82743_L_0									
62 D	22.84	-1.1352E-04	244.3	114.2	244.3	122.1	UL-RL	5.1887E+04	-12.20	0.000	1.000	1.000
114.2	0.000	0.000	Strato2_3095_82743_L_0									
63 D	23.22	-1.1649E-04	248.3	116.1	248.3	124.1	UL-RL	5.1887E+04	-12.40	0.000	1.000	1.000
116.1	0.000	0.000	Strato2_3095_82743_L_0									
64 D	23.58	-1.2062E-04	252.3	117.9	252.3	126.2	UL-RL	5.1887E+04	-12.60	0.000	1.000	1.000
117.9	0.000	0.000	Strato2_3095_82743_L_0									
65 D	23.93	-1.2574E-04	256.3	119.6	256.3	128.2	UL-RL	5.1887E+04	-12.80	0.000	1.000	1.000
119.6	0.000	0.000	Strato2_3095_82743_L_0									
66 D	24.27	-1.3166E-04	260.3	121.4	260.3	130.2	UL-RL	5.1887E+04	-13.00	0.000	1.000	1.000
121.4	0.000	0.000	Strato2_3095_82743_L_0									
67 D	24.61	-1.3824E-04	264.3	123.0	264.3	132.2	UL-RL	5.1887E+04	-13.20	0.000	1.000	1.000
123.0	0.000	0.000	Strato2_3095_82743_L_0									
68 D	24.93	-1.4534E-04	268.4	124.7	268.4	134.2	UL-RL	5.1887E+04	-13.40	0.000	1.000	1.000
124.7	0.000	0.000	Strato2_3095_82743_L_0									
69 D	25.25	-1.5286E-04	272.3	126.2	272.3	136.1	UL-RL	5.1887E+04	-13.60	0.000	1.000	1.000
126.2	0.000	0.000	Strato2_3095_82743_L_0									
70 D	25.57	-1.6069E-04	276.3	127.8	276.3	138.1	UL-RL	5.1887E+04	-13.80	0.000	1.000	1.000
127.8	0.000	0.000	Strato2_3095_82743_L_0									
71 D	25.88	-1.6876E-04	280.3	129.4	280.3	140.1	UL-RL	5.1887E+04	-14.00	0.000	1.000	1.000
129.4	0.000	0.000	Strato2_3095_82743_L_0									
72 D	26.20	-1.7700E-04	284.3	131.0	284.3	142.2	UL-RL	5.1887E+04	-14.20	0.000	1.000	1.000
131.0	0.000	0.000	Strato2_3095_82743_L_0									
73 D	26.51	-1.8536E-04	288.3	132.6	288.3	144.2	UL-RL	5.1887E+04	-14.40	0.000	1.000	1.000
132.6	0.000	0.000	Strato2_3095_82743_L_0									
74 D	26.83	-1.9380E-04	292.3	134.1	292.3	146.2	UL-RL	5.1887E+04	-14.60	0.000	1.000	1.000
134.1	0.000	0.000	Strato2_3095_82743_L_0									
75 D	27.14	-2.0229E-04	296.4	135.7	296.4	148.2	UL-RL	5.1887E+04	-14.80	0.000	1.000	1.000
135.7	0.000	0.000	Strato2_3095_82743_L_0									
76 D	27.44	-2.1080E-04	300.3	137.2	300.3	150.1	UL-RL	5.1887E+04	-15.00	0.000	1.000	1.000
137.2	0.000	0.000	Strato2_3095_82743_L_0									
77 D	27.75	-2.1933E-04	304.3	138.8	304.3	152.1	UL-RL	5.1887E+04	-15.20	0.000	1.000	1.000
138.8	0.000	0.000	Strato2_3095_82743_L_0									
78 D	28.06	-2.2786E-04	308.3	140.3	308.3	154.1	UL-RL	5.1887E+04	-15.40	0.000	1.000	1.000
140.3	0.000	0.000	Strato2_3095_82743_L_0									
79 D	28.38	-2.3639E-04	312.3	141.9	312.3	156.2	UL-RL	5.1887E+04	-15.60	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 877 di 1221
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141.9	0.000	0.000	Strato2_3095_82743_L_0									
80 D	28.69	-2.4491E-04	316.3	143.4	316.3	158.2	UL-RL	5.1887E+04	-15.80	0.000	1.000	1.000
143.4	0.000	0.000	Strato2_3095_82743_L_0									
81 D	14.50	-2.5344E-04	320.3	145.0	320.3	160.2	UL-RL	5.1887E+04	-16.00	0.000	1.000	1.000
145.0	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      18:01:12
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81
 CURRENT TIME IS 4.0000

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 FACTOR	UFACTOR
Peg	Su_a	Su_p	LAYER									
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
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	not available									
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
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	not available									
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
0.000	0.000	0.000	not available									
20 D	0.1425	4.8388E-03	1.900	0.7125	72.20	39.34	ACTIVE	0.000	-3.800	0.000	1.000	1.000
0.7125	0.000	0.000	Strato1_2_8_L_0									
21 D	1.180	4.5777E-03	5.700	5.899	76.00	41.35	UL-RL	1.5824E+04	-4.000	0.000	1.000	1.000
5.899	0.000	0.000	Strato1_2_8_L_0									
22 D	3.620	4.3220E-03	9.500	18.10	79.80	43.35	UL-RL	1.5824E+04	-4.200	0.000	1.000	1.000
18.10	0.000	0.000	Strato1_2_8_L_0									
23 D	6.061	4.0720E-03	13.30	30.30	83.60	45.35	UL-RL	1.5824E+04	-4.400	0.000	1.000	1.000
30.30	0.000	0.000	Strato1_2_8_L_0									
24 D	8.501	3.8281E-03	17.10	42.50	87.40	51.95	UL-RL	1.5824E+04	-4.600	0.000	1.000	1.000
42.50	0.000	0.000	Strato1_2_8_L_0									
25 D	10.94	3.5906E-03	20.90	54.70	91.20	63.49	UL-RL	1.5824E+04	-4.800	0.000	1.000	1.000
54.70	0.000	0.000	Strato1_2_8_L_0									
26 D	12.64	3.3598E-03	24.70	63.20	95.00	71.36	UL-RL	1.5824E+04	-5.000	0.000	1.000	1.000
63.20	0.000	0.000	Strato1_2_8_L_0									
27 D	12.89	3.1361E-03	28.50	64.45	98.80	71.98	UL-RL	1.5824E+04	-5.200	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.				Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 878 di 1221		
64.45	0.000	0.000	Strato1_2_8_L_0							
28 D	13.14	2.9198E-03	32.30 65.72	102.6	72.64	UL-RL 1.5824E+04	-5.400	0.000	1.000	1.000
65.72	0.000	0.000	Strato1_2_8_L_0							
29 D	13.40	2.7112E-03	36.10 67.01	106.4	73.35	UL-RL 1.5824E+04	-5.600	0.000	1.000	1.000
67.01	0.000	0.000	Strato1_2_8_L_0							
30 D	13.67	2.5106E-03	39.90 68.33	110.2	74.11	UL-RL 1.5824E+04	-5.800	0.000	1.000	1.000
68.33	0.000	0.000	Strato1_2_8_L_0							
31 D	13.94	2.3181E-03	43.70 69.68	114.0	74.92	UL-RL 1.5824E+04	-6.000	0.000	1.000	1.000
69.68	0.000	0.000	Strato1_2_8_L_0							
32 D	14.21	2.1340E-03	47.50 71.06	117.8	75.79	UL-RL 1.5824E+04	-6.200	0.000	1.000	1.000
71.06	0.000	0.000	Strato1_2_8_L_0							
33 D	14.49	1.9585E-03	51.30 72.46	121.6	76.70	UL-RL 1.5824E+04	-6.400	0.000	1.000	1.000
72.46	0.000	0.000	Strato1_2_8_L_0							
34 D	14.78	1.7917E-03	55.10 73.89	125.4	77.67	UL-RL 1.5824E+04	-6.600	0.000	1.000	1.000
73.89	0.000	0.000	Strato1_2_8_L_0							
35 D	15.07	1.6336E-03	58.90 75.34	129.2	78.70	UL-RL 1.5824E+04	-6.800	0.000	1.000	1.000
75.34	0.000	0.000	Strato1_2_8_L_0							
36 D	15.37	1.4844E-03	62.70 76.83	133.0	79.78	UL-RL 1.5824E+04	-7.000	0.000	1.000	1.000
76.83	0.000	0.000	Strato1_2_8_L_0							
37 D	15.67	1.3441E-03	66.50 78.34	136.8	80.91	UL-RL 1.5824E+04	-7.200	0.000	1.000	1.000
78.34	0.000	0.000	Strato1_2_8_L_0							
38 D	15.98	1.2126E-03	70.30 79.88	140.6	82.10	UL-RL 1.5824E+04	-7.400	0.000	1.000	1.000
79.88	0.000	0.000	Strato1_2_8_L_0							
39 D	16.29	1.0899E-03	74.10 81.45	144.4	83.35	UL-RL 1.5824E+04	-7.600	0.000	1.000	1.000
81.45	0.000	0.000	Strato1_2_8_L_0							
40 D	16.61	9.7594E-04	77.90 83.05	148.2	84.65	UL-RL 1.5824E+04	-7.800	0.000	1.000	1.000
83.05	0.000	0.000	Strato1_2_8_L_0							
41 D	16.93	8.7053E-04	81.70 84.67	152.0	86.00	UL-RL 1.5824E+04	-8.000	0.000	1.000	1.000
84.67	0.000	0.000	Strato1_2_8_L_0							
42 D	17.26	7.7352E-04	85.50 86.32	155.8	87.41	UL-RL 1.5824E+04	-8.200	0.000	1.000	1.000
86.32	0.000	0.000	Strato1_2_8_L_0							
43 D	17.60	6.8470E-04	89.30 88.00	159.6	88.86	UL-RL 1.5824E+04	-8.400	0.000	1.000	1.000
88.00	0.000	0.000	Strato1_2_8_L_0							
44 D	17.94	6.0385E-04	93.10 89.71	163.4	90.37	UL-RL 1.5824E+04	-8.600	0.000	1.000	1.000
89.71	0.000	0.000	Strato1_2_8_L_0							
45 D	16.43	5.3070E-04	97.00 82.17	167.3	85.04	UL-RL 3.5635E+04	-8.800	0.000	1.000	1.000
82.17	0.000	0.000	Strato2_3095_82743_L_0							
46 D	16.38	4.6499E-04	101.0 81.92	171.3	86.98	UL-RL 3.5635E+04	-9.000	0.000	1.000	1.000
81.92	0.000	0.000	Strato2_3095_82743_L_0							
47 D	16.38	4.0637E-04	105.0 81.92	175.3	88.92	UL-RL 3.5635E+04	-9.200	0.000	1.000	1.000
81.92	0.000	0.000	Strato2_3095_82743_L_0							
48 D	16.43	3.5450E-04	109.0 82.15	179.3	90.87	UL-RL 3.5635E+04	-9.400	0.000	1.000	1.000
82.15	0.000	0.000	Strato2_3095_82743_L_0							
49 D	16.52	3.0899E-04	113.0 82.61	183.3	92.82	UL-RL 3.5635E+04	-9.600	0.000	1.000	1.000
82.61	0.000	0.000	Strato2_3095_82743_L_0							
50 D	16.65	2.6942E-04	117.0 83.27	187.3	94.78	UL-RL 3.5635E+04	-9.800	0.000	1.000	1.000
83.27	0.000	0.000	Strato2_3095_82743_L_0							
51 D	16.83	2.3540E-04	121.0 84.13	191.3	96.73	UL-RL 3.5635E+04	-10.000	0.000	1.000	1.000
84.13	0.000	0.000	Strato2_3095_82743_L_0							
52 D	17.03	2.0650E-04	125.0 85.16	195.3	98.69	UL-RL 3.5635E+04	-10.200	0.000	1.000	1.000
85.16	0.000	0.000	Strato2_3095_82743_L_0							
53 D	17.27	1.8230E-04	129.0 86.36	199.3	100.7	UL-RL 3.5635E+04	-10.400	0.000	1.000	1.000
86.36	0.000	0.000	Strato2_3095_82743_L_0							
54 D	17.54	1.6240E-04	133.0 87.71	203.3	102.6	UL-RL 3.5635E+04	-10.600	0.000	1.000	1.000
87.71	0.000	0.000	Strato2_3095_82743_L_0							
55 D	17.84	1.4639E-04	137.0 89.19	207.3	104.6	UL-RL 3.5635E+04	-10.800	0.000	1.000	1.000
89.19	0.000	0.000	Strato2_3095_82743_L_0							
56 D	18.16	1.3389E-04	141.0 90.80	211.3	106.6	UL-RL 3.5635E+04	-11.000	0.000	1.000	1.000
90.80	0.000	0.000	Strato2_3095_82743_L_0							
57 D	18.50	1.2454E-04	145.0 92.51	215.3	108.5	UL-RL 3.5635E+04	-11.200	0.000	1.000	1.000
92.51	0.000	0.000	Strato2_3095_82743_L_0							
58 D	18.87	1.1798E-04	149.0 94.33	219.3	110.5	UL-RL 3.5635E+04	-11.400	0.000	1.000	1.000
94.33	0.000	0.000	Strato2_3095_82743_L_0							
59 D	19.24	1.1390E-04	153.0 96.22	223.3	112.5	UL-RL 3.5635E+04	-11.600	0.000	1.000	1.000
96.22	0.000	0.000	Strato2_3095_82743_L_0							
60 D	19.64	1.1198E-04	157.0 98.19	227.3	114.5	UL-RL 3.5635E+04	-11.800	0.000	1.000	1.000
98.19	0.000	0.000	Strato2_3095_82743_L_0							
61 D	20.05	1.1194E-04	161.0 100.2	231.3	116.5	UL-RL 3.5635E+04	-12.000	0.000	1.000	1.000
100.2	0.000	0.000	Strato2_3095_82743_L_0							
62 D	20.46	1.1352E-04	165.0 102.3	235.3	118.5	UL-RL 3.5635E+04	-12.200	0.000	1.000	1.000
102.3	0.000	0.000	Strato2_3095_82743_L_0							
63 D	20.89	1.1649E-04	169.0 104.5	239.3	120.5	UL-RL 3.5635E+04	-12.400	0.000	1.000	1.000
104.5	0.000	0.000	Strato2_3095_82743_L_0							
64 D	21.33	1.2062E-04	173.0 106.6	243.3	122.5	UL-RL 3.5635E+04	-12.600	0.000	1.000	1.000
106.6	0.000	0.000	Strato2_3095_82743_L_0							
65 D	21.77	1.2574E-04	177.0 108.9	247.3	124.5	UL-RL 3.5635E+04	-12.800	0.000	1.000	1.000
108.9	0.000	0.000	Strato2_3095_82743_L_0							
66 D	22.22	1.3166E-04	181.0 111.1	251.3	126.4	UL-RL 3.5635E+04	-13.000	0.000	1.000	1.000
111.1	0.000	0.000	Strato2_3095_82743_L_0							
67 D	22.67	1.3824E-04	185.0 113.4	255.3	128.4	UL-RL 3.5635E+04	-13.200	0.000	1.000	1.000
113.4	0.000	0.000	Strato2_3095_82743_L_0							
68 D	23.13	1.4534E-04	189.0 115.6	259.3	130.4	UL-RL 3.5635E+04	-13.400	0.000	1.000	1.000
115.6	0.000	0.000	Strato2_3095_82743_L_0							
69 D	23.58	1.5286E-04	193.0 117.9	263.3	132.4	UL-RL 3.5635E+04	-13.600	0.000	1.000	1.000
117.9	0.000	0.000	Strato2_3095_82743_L_0							

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 879 di 1221							
70 D	24.05	1.6069E-04	197.0	120.2	267.3	134.4	UL-RL	3.5635E+04	-13.80	0.000	1.000	1.000
120.2	0.000	0.000	Strato2_3095_82743_L_0									
71 D	24.51	1.6876E-04	201.0	122.5	271.3	136.4	UL-RL	3.5635E+04	-14.00	0.000	1.000	1.000
122.5	0.000	0.000	Strato2_3095_82743_L_0									
72 D	24.97	1.7700E-04	205.0	124.9	275.3	138.4	UL-RL	3.5635E+04	-14.20	0.000	1.000	1.000
124.9	0.000	0.000	Strato2_3095_82743_L_0									
73 D	25.43	1.8536E-04	209.0	127.2	279.3	140.4	UL-RL	3.5635E+04	-14.40	0.000	1.000	1.000
127.2	0.000	0.000	Strato2_3095_82743_L_0									
74 D	25.90	1.9380E-04	213.0	129.5	283.3	142.4	UL-RL	3.5635E+04	-14.60	0.000	1.000	1.000
129.5	0.000	0.000	Strato2_3095_82743_L_0									
75 D	26.36	2.0229E-04	217.0	131.8	287.3	144.5	UL-RL	3.5635E+04	-14.80	0.000	1.000	1.000
131.8	0.000	0.000	Strato2_3095_82743_L_0									
76 D	26.83	2.1080E-04	221.0	134.1	291.3	146.5	UL-RL	3.5635E+04	-15.00	0.000	1.000	1.000
134.1	0.000	0.000	Strato2_3095_82743_L_0									
77 D	27.29	2.1933E-04	225.0	136.5	295.3	148.5	UL-RL	3.5635E+04	-15.20	0.000	1.000	1.000
136.5	0.000	0.000	Strato2_3095_82743_L_0									
78 D	27.76	2.2786E-04	229.0	138.8	299.3	150.5	UL-RL	3.5635E+04	-15.40	0.000	1.000	1.000
138.8	0.000	0.000	Strato2_3095_82743_L_0									
79 D	28.22	2.3639E-04	233.0	141.1	303.3	152.5	UL-RL	3.5635E+04	-15.60	0.000	1.000	1.000
141.1	0.000	0.000	Strato2_3095_82743_L_0									
80 D	28.68	2.4491E-04	237.0	143.4	307.3	154.5	UL-RL	3.5635E+04	-15.80	0.000	1.000	1.000
143.4	0.000	0.000	Strato2_3095_82743_L_0									
81 D	14.57	2.5344E-04	241.0	145.7	311.3	156.5	UL-RL	3.5635E+04	-16.00	0.000	1.000	1.000
145.7	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
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|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:01:12  |
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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_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
C U R R E N T T I M E I S 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.4226	-1.4226	5.53646E-11	0.28452
2	4.0263	-4.0263	-0.28452	1.0898
3	7.0877	-7.0877	-1.0898	2.5073
4	10.535	-10.535	-2.5073	4.6142
5	14.344	-14.344	-4.6142	7.4830
6	18.505	-18.505	-7.4830	11.184
7	23.013	-23.013	-11.184	15.787
8	27.865	-27.865	-15.787	21.360
9	32.973	-32.973	-21.360	27.954
10	38.429	-38.429	-27.954	35.640
11	44.229	-44.229	-35.640	44.486
12	50.369	-50.369	-44.486	54.560
13	56.847	-56.847	-54.560	65.929
14	63.660	-63.660	-65.929	78.661
15	70.805	-70.805	-78.661	92.822
16	78.233	-78.233	-92.822	108.47
17	-4.7503	4.7503	-108.47	107.52
18	3.3303	-3.3303	-107.52	108.18
19	11.732	-11.732	-108.18	110.53
20	20.311	-20.311	-110.53	114.59
21	28.169	-28.169	-114.59	120.23
22	33.761	-33.761	-120.23	126.98
23	37.044	-37.044	-126.98	134.39
24	37.996	-37.996	-134.39	141.99
25	36.644	-36.644	-141.99	149.32
26	33.728	-33.728	-149.32	156.06
27	30.705	-30.705	-156.06	162.20
28	27.572	-27.572	-162.20	167.72
29	24.329	-24.329	-167.72	172.58
30	20.977	-20.977	-172.58	176.78
31	17.496	-17.496	-176.78	180.28
32	13.907	-13.907	-180.28	183.06
33	10.210	-10.210	-183.06	185.10
34	6.4055	-6.4055	-185.10	186.38
35	2.4952	-2.4952	-186.38	186.88
36	-1.5204	1.5204	-186.88	186.58
37	-5.6404	5.6404	-186.58	185.45
38	-9.8643	9.8643	-185.45	183.48

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 880 di 1221
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39	-14.206	14.206	-183.48	180.64
40	-18.103	18.103	-180.64	177.01
41	-21.515	21.515	-177.01	172.71
42	-24.478	24.478	-172.71	167.82
43	-27.030	27.030	-167.82	162.41
44	-29.205	29.205	-162.41	156.57
45	-34.190	34.190	-156.57	149.73
46	-38.030	38.030	-149.73	142.13
47	-40.832	40.832	-142.13	133.96
48	-42.714	42.714	-133.96	125.42
49	-43.790	43.790	-125.42	116.66
50	-44.162	44.162	-116.66	107.83
51	-43.931	43.931	-107.83	99.039
52	-43.185	43.185	-99.039	90.403
53	-42.008	42.008	-90.403	82.001
54	-40.491	40.491	-82.001	73.903
55	-38.688	38.688	-73.903	66.165
56	-36.663	36.663	-66.165	58.832
57	-34.470	34.470	-58.832	51.938
58	-32.160	32.160	-51.938	45.506
59	-29.778	29.778	-45.506	39.551
60	-27.360	27.360	-39.551	34.079
61	-24.955	24.955	-34.079	29.088
62	-22.577	22.577	-29.088	24.572
63	-20.253	20.253	-24.572	20.522
64	-18.002	18.002	-20.522	16.921
65	-15.843	15.843	-16.921	13.753
66	-13.790	13.790	-13.753	10.995
67	-11.854	11.854	-10.995	8.6241
68	-10.046	10.046	-8.6241	6.6148
69	-8.3842	8.3842	-6.6148	4.9380
70	-6.8623	6.8623	-4.9380	3.5655
71	-5.4850	5.4850	-3.5655	2.4685
72	-4.2554	4.2554	-2.4685	1.6174
73	-3.1757	3.1757	-1.6174	0.98231
74	-2.2471	2.2471	-0.98231	0.53288
75	-1.4707	1.4707	-0.53288	0.23874
76	-0.85665	0.85665	-0.23874	6.74099E-02
77	-0.39517	0.39517	-6.74099E-02	1.16232E-02
78	-8.62418E-02	8.62418E-02	1.16232E-02	2.88716E-02
79	7.01778E-02	7.01778E-02	2.88716E-02	1.48360E-02
80	7.41764E-02	7.41764E-02	1.48360E-02	2.53116E-12

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019    18:01:12                             |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	93.940	-8.47140E-04	-8.47140E-04	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

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ITER 0 RNORM = 0.000  RMNORM= 0.000
RINORM=0.1760E+06 RIMNOR=0.1827E+07
RENORM= 6595.  REMNOR=0.9990E-19 RATIO =0.1936  TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 90.74  RMMAX = 186.9
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.1760E+06 RDR =0.1827E+07
RATIOT=0.1936  RATIO= 0.000
MAX UN= 17.94  IEQ= 87 NODE 44 DOF 1 Y-DISPL.F
MIN UN=-.1545E-08 IEQ= 35 NODE 18 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 2 RNORM = 0.000  RMNORM= 0.000
RINORM=0.1760E+06 RIMNOR=0.1827E+07
RENORM= 628.0  REMNOR=0.4281E-18 RATIO =0.5974E-01 TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 90.74  RMMAX = 186.9
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.1760E+06 RDR =0.1827E+07

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
881 di 1221

RATIOT=0.5974E-01 RATIO= 0.000
 MAX UN= 9.117 IEQ= 89 NODE 45 DOF 1 Y-DISPL.F
 MIN UN=-.1571E-08 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1760E+06 RIMNOR=0.1827E+07
 RENORM= 394.4 REMNOR=0.1493E-17 RATIO =0.4734E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 186.9
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1760E+06 RDR =0.1827E+07
 RATIOT=0.4734E-01 RATIO= 0.000
 MAX UN= 7.334 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
 MIN UN=-.4159E-08 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1760E+06 RIMNOR=0.1827E+07
 RENORM= 101.5 REMNOR=0.3754E-17 RATIO =0.2401E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 186.9
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1760E+06 RDR =0.1827E+07
 RATIOT=0.2401E-01 RATIO= 0.000
 MAX UN= 6.677 IEQ= 115 NODE 58 DOF 1 Y-DISPL.F
 MIN UN=-1.357 IEQ= 159 NODE 80 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1760E+06 RIMNOR=0.1827E+07
 RENORM=0.8006 REMNOR=0.1384E-17 RATIO =0.2133E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 186.9
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1760E+06 RDR =0.1827E+07
 RATIOT=0.2133E-02 RATIO= 0.000
 MAX UN=0.7197 IEQ= 119 NODE 60 DOF 1 Y-DISPL.F
 MIN UN=-.5518E-08 IEQ= 51 NODE 26 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1760E+06 RIMNOR=0.1827E+07
 RENORM=0.8391E-06 REMNOR=0.2206E-17 RATIO =0.2184E-05 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 90.74 RMMAX = 186.9
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1760E+06 RDR =0.1827E+07
 RATIOT=0.2184E-05 RATIO= 0.000
 MAX UN=0.1066E-07 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
 MIN UN=-.9160E-03 IEQ= 153 NODE 77 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019    18:01:12                             |
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New Project
SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 5 (AT TIME 5.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	3.3208468E-02	-2.6573023E-03	
2	3.2677008E-02	-2.6572907E-03	
3	3.2145554E-02	-2.6572368E-03	
4	3.1614119E-02	-2.6570933E-03	
5	3.1082727E-02	-2.6567959E-03	
6	3.0551417E-02	-2.6562656E-03	
7	3.0020243E-02	-2.6554091E-03	
8	2.9489282E-02	-2.6541188E-03	
9	2.8958632E-02	-2.6522734E-03	
10	2.8428418E-02	-2.6497392E-03	
11	2.7898792E-02	-2.6463703E-03	
12	2.7369937E-02	-2.6420066E-03	
13	2.6842067E-02	-2.6364743E-03	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 882 di 1221
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- 14 2.6315437E-02 -2.6295854E-03
- 15 2.5790337E-02 -2.6211386E-03
- 16 2.5267100E-02 -2.6109183E-03
- 17 2.4746103E-02 -2.5986965E-03
- 18 2.4227553E-02 -2.5874998E-03
- 19 2.3710834E-02 -2.5803411E-03
- 20 2.3195165E-02 -2.5769518E-03
- 21 2.2679821E-02 -2.5770494E-03
- 22 2.2164133E-02 -2.5803379E-03
- 23 2.1647494E-02 -2.5865075E-03
- 24 2.1129362E-02 -2.5952346E-03
- 25 2.0609254E-02 -2.6061828E-03
- 26 2.0086764E-02 -2.6190023E-03
- 27 1.9561553E-02 -2.6333297E-03
- 28 1.9033357E-02 -2.6487880E-03
- 29 1.8501991E-02 -2.6649864E-03
- 30 1.7967343E-02 -2.6815205E-03
- 31 1.7429388E-02 -2.6979725E-03
- 32 1.6888188E-02 -2.7139109E-03
- 33 1.6343888E-02 -2.7288913E-03
- 34 1.5796726E-02 -2.7424556E-03
- 35 1.5247034E-02 -2.7541321E-03
- 36 1.4695234E-02 -2.7634353E-03
- 37 1.4141852E-02 -2.7698664E-03
- 38 1.3587513E-02 -2.7729125E-03
- 39 1.3032947E-02 -2.7720474E-03
- 40 1.2478993E-02 -2.7667315E-03
- 41 1.1926591E-02 -2.7564121E-03
- 42 1.1376800E-02 -2.7405226E-03
- 43 1.0830792E-02 -2.7184830E-03
- 44 1.0289856E-02 -2.6896995E-03
- 45 9.7554050E-03 -2.6535652E-03
- 46 9.2289317E-03 -2.6099511E-03
- 47 8.7118945E-03 -2.5592872E-03
- 48 8.2056485E-03 -2.5021478E-03
- 49 7.7114198E-03 -2.4392423E-03
- 50 7.2302875E-03 -2.3713343E-03
- 51 6.7631724E-03 -2.2991681E-03
- 52 6.3108645E-03 -2.2234727E-03
- 53 5.8739806E-03 -2.1449552E-03
- 54 5.4530243E-03 -2.0643102E-03
- 55 5.0483531E-03 -1.9822159E-03
- 56 4.6601903E-03 -1.8993352E-03
- 57 4.2886281E-03 -1.8163176E-03
- 58 3.9336300E-03 -1.7337993E-03
- 59 3.5950335E-03 -1.6524046E-03
- 60 3.2725524E-03 -1.5727467E-03
- 61 2.9657788E-03 -1.4954289E-03
- 62 2.6741852E-03 -1.4210452E-03
- 63 2.3971270E-03 -1.3501682E-03
- 64 2.1338498E-03 -1.2833143E-03
- 65 1.8835046E-03 -1.2209108E-03
- 66 1.6451667E-03 -1.1632875E-03
- 67 1.4178551E-03 -1.1106817E-03
- 68 1.2005496E-03 -1.0632430E-03
- 69 9.9220894E-04 -1.0210380E-03
- 70 7.9178634E-04 -9.8405379E-04
- 71 5.9824527E-04 -9.5220188E-04
- 72 4.1057421E-04 -9.2532066E-04
- 73 2.2780110E-04 -9.0317801E-04
- 74 4.9007140E-05 -8.8547341E-04
- 75 -1.2665966E-04 -8.7183967E-04
- 76 -2.9997129E-04 -8.6184428E-04
- 77 -4.7160682E-04 -8.5499071E-04
- 78 -6.4214038E-04 -8.5072926E-04
- 79 -8.1203197E-04 -8.4846952E-04
- 80 -9.8161971E-04 -8.4758266E-04
- 81 -1.1511206E-03 -8.4740143E-04

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A2M2R1_3514                                                                                       |
|          Exe Time :29 July 2019  18:01:12                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 81



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 883 di 1221
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CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.4875	-3.3208E-02	13.00	4.875	13.00	14.23	ACTIVE	0.000	0.000	0.000	1.000	1.000
4.875	0.000	0.000	Stratol_2_8_L_0									
2 D	0.8075	-3.2677E-02	10.77	4.038	10.77	13.02	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
4.038	0.000	0.000	Stratol_2_8_L_0									
3 D	1.188	-3.2146E-02	15.84	5.941	15.84	15.31	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
5.941	0.000	0.000	Stratol_2_8_L_0									
4 D	1.512	-3.1614E-02	20.16	7.561	20.16	17.23	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
7.561	0.000	0.000	Stratol_2_8_L_0									
5 D	1.818	-3.1083E-02	24.24	9.092	24.24	19.05	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
9.092	0.000	0.000	Stratol_2_8_L_0									
6 D	2.117	-3.0551E-02	28.22	10.58	28.22	20.81	ACTIVE	0.000	-1.000	0.000	1.000	1.000
10.58	0.000	0.000	Stratol_2_8_L_0									
7 D	2.411	-3.0020E-02	32.14	12.05	32.14	22.54	ACTIVE	0.000	-1.200	0.000	1.000	1.000
12.05	0.000	0.000	Stratol_2_8_L_0									
8 D	2.702	-2.9489E-02	36.03	13.51	36.03	24.26	ACTIVE	0.000	-1.400	0.000	1.000	1.000
13.51	0.000	0.000	Stratol_2_8_L_0									
9 D	2.927	-2.8959E-02	39.02	14.63	39.02	25.54	ACTIVE	0.000	-1.600	0.000	1.000	1.000
14.63	0.000	0.000	Stratol_2_8_L_0									
10 D	3.223	-2.8428E-02	42.97	16.11	42.97	27.28	ACTIVE	0.000	-1.800	0.000	1.000	1.000
16.11	0.000	0.000	Stratol_2_8_L_0									
11 D	3.517	-2.7899E-02	46.89	17.58	46.89	29.00	ACTIVE	0.000	-2.000	0.000	1.000	1.000
17.58	0.000	0.000	Stratol_2_8_L_0									
12 D	3.809	-2.7370E-02	50.79	19.05	50.79	30.70	ACTIVE	0.000	-2.200	0.000	1.000	1.000
19.05	0.000	0.000	Stratol_2_8_L_0									
13 D	4.100	-2.6842E-02	54.67	20.50	54.67	32.39	ACTIVE	0.000	-2.400	0.000	1.000	1.000
20.50	0.000	0.000	Stratol_2_8_L_0									
14 D	4.391	-2.6315E-02	58.54	21.95	58.54	34.07	ACTIVE	0.000	-2.600	0.000	1.000	1.000
21.95	0.000	0.000	Stratol_2_8_L_0									
15 D	4.680	-2.5790E-02	62.40	23.40	62.40	35.72	ACTIVE	0.000	-2.800	0.000	1.000	1.000
23.40	0.000	0.000	Stratol_2_8_L_0									
16 D	4.933	-2.5267E-02	65.77	24.66	65.77	37.14	ACTIVE	0.000	-3.000	0.000	1.000	1.000
24.66	0.000	0.000	Stratol_2_8_L_0									
17 D	5.223	-2.4746E-02	69.65	26.12	69.65	38.78	ACTIVE	0.000	-3.200	0.000	1.000	1.000
26.12	0.000	0.000	Stratol_2_8_L_0									
18 D	5.514	-2.4228E-02	73.51	27.57	73.51	40.40	ACTIVE	0.000	-3.400	0.000	1.000	1.000
27.57	0.000	0.000	Stratol_2_8_L_0									
19 D	5.803	-2.3711E-02	77.37	29.02	77.37	42.01	ACTIVE	0.000	-3.600	0.000	1.000	1.000
29.02	0.000	0.000	Stratol_2_8_L_0									
20 D	6.092	-2.3195E-02	81.23	30.46	81.23	43.60	ACTIVE	0.000	-3.800	0.000	1.000	1.000
30.46	0.000	0.000	Stratol_2_8_L_0									
21 D	6.381	-2.2680E-02	85.07	31.90	85.07	45.19	ACTIVE	0.000	-4.000	0.000	1.000	1.000
31.90	0.000	0.000	Stratol_2_8_L_0									
22 D	6.669	-2.2164E-02	88.92	33.34	88.92	47.13	ACTIVE	0.000	-4.200	0.000	1.000	1.000
33.34	0.000	0.000	Stratol_2_8_L_0									
23 D	6.957	-2.1647E-02	92.76	34.78	92.76	49.16	ACTIVE	0.000	-4.400	0.000	1.000	1.000
34.78	0.000	0.000	Stratol_2_8_L_0									
24 D	7.221	-2.1129E-02	96.28	36.10	96.28	51.03	ACTIVE	0.000	-4.600	0.000	1.000	1.000
36.10	0.000	0.000	Stratol_2_8_L_0									
25 D	7.509	-2.0609E-02	100.1	37.55	100.1	53.07	ACTIVE	0.000	-4.800	0.000	1.000	1.000
37.55	0.000	0.000	Stratol_2_8_L_0									
26 D	7.797	-2.0087E-02	104.0	38.99	104.0	55.10	ACTIVE	0.000	-5.000	0.000	1.000	1.000
38.99	0.000	0.000	Stratol_2_8_L_0									
27 D	8.085	-1.9562E-02	107.8	40.43	107.8	57.14	ACTIVE	0.000	-5.200	0.000	1.000	1.000
40.43	0.000	0.000	Stratol_2_8_L_0									
28 D	8.373	-1.9033E-02	111.6	41.87	111.6	59.17	ACTIVE	0.000	-5.400	0.000	1.000	1.000
41.87	0.000	0.000	Stratol_2_8_L_0									
29 D	8.661	-1.8502E-02	115.5	43.30	115.5	61.20	ACTIVE	0.000	-5.600	0.000	1.000	1.000
43.30	0.000	0.000	Stratol_2_8_L_0									
30 D	8.948	-1.7967E-02	119.3	44.74	119.3	63.23	ACTIVE	0.000	-5.800	0.000	1.000	1.000
44.74	0.000	0.000	Stratol_2_8_L_0									
31 D	9.217	-1.7429E-02	122.9	46.08	122.9	65.13	ACTIVE	0.000	-6.000	0.000	1.000	1.000
46.08	0.000	0.000	Stratol_2_8_L_0									
32 D	9.505	-1.6888E-02	126.7	47.52	126.7	67.17	ACTIVE	0.000	-6.200	0.000	1.000	1.000
47.52	0.000	0.000	Stratol_2_8_L_0									
33 D	9.792	-1.6344E-02	130.6	48.96	130.6	69.20	ACTIVE	0.000	-6.400	0.000	1.000	1.000
48.96	0.000	0.000	Stratol_2_8_L_0									
34 D	10.08	-1.5797E-02	134.4	50.40	134.4	71.23	ACTIVE	0.000	-6.600	0.000	1.000	1.000
50.40	0.000	0.000	Stratol_2_8_L_0									
35 D	10.37	-1.5247E-02	138.2	51.83	138.2	73.26	ACTIVE	0.000	-6.800	0.000	1.000	1.000
51.83	0.000	0.000	Stratol_2_8_L_0									
36 D	10.65	-1.4695E-02	142.1	53.27	142.1	75.29	ACTIVE	0.000	-7.000	0.000	1.000	1.000
53.27	0.000	0.000	Stratol_2_8_L_0									
37 D	10.94	-1.4142E-02	145.9	54.70	145.9	77.31	ACTIVE	0.000	-7.200	0.000	1.000	1.000
54.70	0.000	0.000	Stratol_2_8_L_0									
38 D	11.23	-1.3588E-02	149.7	56.14	149.7	79.34	ACTIVE	0.000	-7.400	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 884 di 1221
56.14	0.000	0.000	Strato1_2_8_L_0				
39 D	11.50	-1.3033E-02	153.3 57.50	153.3	81.27	ACTIVE	0.000 -7.600 0.000 1.000 1.000
57.50	0.000	0.000	Strato1_2_8_L_0				
40 D	11.79	-1.2479E-02	157.2 58.93	157.2	83.29	ACTIVE	0.000 -7.800 0.000 1.000 1.000
58.93	0.000	0.000	Strato1_2_8_L_0				
41 D	12.07	-1.1927E-02	161.0 60.37	161.0	85.32	ACTIVE	0.000 -8.000 0.000 1.000 1.000
60.37	0.000	0.000	Strato1_2_8_L_0				
42 D	12.36	-1.1377E-02	164.8 61.80	164.8	87.35	ACTIVE	0.000 -8.200 0.000 1.000 1.000
61.80	0.000	0.000	Strato1_2_8_L_0				
43 D	12.65	-1.0831E-02	168.6 63.24	168.6	89.38	ACTIVE	0.000 -8.400 0.000 1.000 1.000
63.24	0.000	0.000	Strato1_2_8_L_0				
44 D	12.93	-1.0290E-02	172.5 64.67	172.5	91.40	ACTIVE	0.000 -8.600 0.000 1.000 1.000
64.67	0.000	0.000	Strato1_2_8_L_0				
45 D	7.077	-9.7554E-03	176.4 35.39	176.4	88.19	ACTIVE	0.000 -8.800 0.000 1.000 1.000
35.39	0.000	0.000	Strato2_3095_82743_L_0				
46 D	7.309	-9.2289E-03	180.2 36.54	180.2	90.12	ACTIVE	0.000 -9.000 0.000 1.000 1.000
36.54	0.000	0.000	Strato2_3095_82743_L_0				
47 D	7.550	-8.7119E-03	184.3 37.75	184.3	92.13	ACTIVE	0.000 -9.200 0.000 1.000 1.000
37.75	0.000	0.000	Strato2_3095_82743_L_0				
48 D	7.791	-8.2056E-03	188.3 38.96	188.3	94.14	ACTIVE	0.000 -9.400 0.000 1.000 1.000
38.96	0.000	0.000	Strato2_3095_82743_L_0				
49 D	8.033	-7.7114E-03	192.3 40.16	192.3	96.15	ACTIVE	0.000 -9.600 0.000 1.000 1.000
40.16	0.000	0.000	Strato2_3095_82743_L_0				
50 D	8.274	-7.2303E-03	196.3 41.37	196.3	98.16	ACTIVE	0.000 -9.800 0.000 1.000 1.000
41.37	0.000	0.000	Strato2_3095_82743_L_0				
51 D	8.515	-6.7632E-03	200.3 42.57	200.3	100.2	ACTIVE	0.000 -10.00 0.000 1.000 1.000
42.57	0.000	0.000	Strato2_3095_82743_L_0				
52 D	8.756	-6.3109E-03	204.4 43.78	204.4	102.2	ACTIVE	0.000 -10.20 0.000 1.000 1.000
43.78	0.000	0.000	Strato2_3095_82743_L_0				
53 D	8.997	-5.8740E-03	208.4 44.99	208.4	104.2	ACTIVE	0.000 -10.40 0.000 1.000 1.000
44.99	0.000	0.000	Strato2_3095_82743_L_0				
54 D	9.230	-5.4530E-03	212.3 46.15	212.3	106.1	ACTIVE	0.000 -10.60 0.000 1.000 1.000
46.15	0.000	0.000	Strato2_3095_82743_L_0				
55 D	9.471	-5.0484E-03	216.3 47.36	216.3	108.1	ACTIVE	0.000 -10.80 0.000 1.000 1.000
47.36	0.000	0.000	Strato2_3095_82743_L_0				
56 D	9.712	-4.6602E-03	220.3 48.56	220.3	110.1	ACTIVE	0.000 -11.00 0.000 1.000 1.000
48.56	0.000	0.000	Strato2_3095_82743_L_0				
57 D	9.953	-4.2886E-03	224.3 49.77	224.3	112.2	ACTIVE	0.000 -11.20 0.000 1.000 1.000
49.77	0.000	0.000	Strato2_3095_82743_L_0				
58 D	10.19	-3.9336E-03	228.3 50.97	228.3	114.2	ACTIVE	0.000 -11.40 0.000 1.000 1.000
50.97	0.000	0.000	Strato2_3095_82743_L_0				
59 D	10.44	-3.5950E-03	232.3 52.18	232.3	116.2	ACTIVE	0.000 -11.60 0.000 1.000 1.000
52.18	0.000	0.000	Strato2_3095_82743_L_0				
60 D	10.68	-3.2726E-03	236.4 53.38	236.4	118.2	ACTIVE	0.000 -11.80 0.000 1.000 1.000
53.38	0.000	0.000	Strato2_3095_82743_L_0				
61 D	10.91	-2.9658E-03	240.3 54.55	240.3	120.1	ACTIVE	0.000 -12.00 0.000 1.000 1.000
54.55	0.000	0.000	Strato2_3095_82743_L_0				
62 D	11.15	-2.6742E-03	244.3 55.75	244.3	122.1	ACTIVE	0.000 -12.20 0.000 1.000 1.000
55.75	0.000	0.000	Strato2_3095_82743_L_0				
63 D	12.27	-2.3971E-03	248.3 61.35	248.3	124.1	UL-RL	2.3998E+04 -12.40 0.000 1.000 1.000
61.35	0.000	0.000	Strato2_3095_82743_L_0				
64 D	13.92	-2.1338E-03	252.3 69.58	252.3	126.2	UL-RL	2.3998E+04 -12.60 0.000 1.000 1.000
69.58	0.000	0.000	Strato2_3095_82743_L_0				
65 D	15.49	-1.8835E-03	256.3 77.46	256.3	128.2	UL-RL	2.3998E+04 -12.80 0.000 1.000 1.000
77.46	0.000	0.000	Strato2_3095_82743_L_0				
66 D	17.01	-1.6452E-03	260.3 85.04	260.3	130.2	UL-RL	2.3998E+04 -13.00 0.000 1.000 1.000
85.04	0.000	0.000	Strato2_3095_82743_L_0				
67 D	18.46	-1.4179E-03	264.3 92.32	264.3	132.2	UL-RL	2.3998E+04 -13.20 0.000 1.000 1.000
92.32	0.000	0.000	Strato2_3095_82743_L_0				
68 D	19.87	-1.2005E-03	268.4 99.35	268.4	134.2	UL-RL	2.3998E+04 -13.40 0.000 1.000 1.000
99.35	0.000	0.000	Strato2_3095_82743_L_0				
69 D	21.22	-9.9221E-04	272.3 106.1	272.3	136.1	UL-RL	2.3998E+04 -13.60 0.000 1.000 1.000
106.1	0.000	0.000	Strato2_3095_82743_L_0				
70 D	22.54	-7.9179E-04	276.3 112.7	276.3	138.1	UL-RL	2.3998E+04 -13.80 0.000 1.000 1.000
112.7	0.000	0.000	Strato2_3095_82743_L_0				
71 D	23.82	-5.9825E-04	280.3 119.1	280.3	140.1	UL-RL	2.3998E+04 -14.00 0.000 1.000 1.000
119.1	0.000	0.000	Strato2_3095_82743_L_0				
72 D	25.08	-4.1057E-04	284.3 125.4	284.3	142.2	UL-RL	2.3998E+04 -14.20 0.000 1.000 1.000
125.4	0.000	0.000	Strato2_3095_82743_L_0				
73 D	26.31	-2.2780E-04	288.3 131.6	288.3	144.2	UL-RL	2.3998E+04 -14.40 0.000 1.000 1.000
131.6	0.000	0.000	Strato2_3095_82743_L_0				
74 D	27.52	-4.9007E-05	292.3 137.6	292.3	146.2	UL-RL	2.3998E+04 -14.60 0.000 1.000 1.000
137.6	0.000	0.000	Strato2_3095_82743_L_0				
75 D	28.72	1.2666E-04	296.4 143.6	296.4	148.2	UL-RL	2.3998E+04 -14.80 0.000 1.000 1.000
143.6	0.000	0.000	Strato2_3095_82743_L_0				
76 D	29.89	2.9997E-04	300.3 149.5	300.3	150.1	UL-RL	2.3998E+04 -15.00 0.000 1.000 1.000
149.5	0.000	0.000	Strato2_3095_82743_L_0				
77 D	30.64	4.7161E-04	304.3 153.2	304.3	153.2	UL-RL	2.3998E+04 -15.20 0.000 1.000 1.000
153.2	0.000	0.000	Strato2_3095_82743_L_0				
78 D	31.30	6.4214E-04	308.3 156.5	308.3	156.5	V-C	7999. -15.40 0.000 1.000 1.000
156.5	0.000	0.000	Strato2_3095_82743_L_0				
79 D	31.96	8.1203E-04	312.3 159.8	312.3	159.8	V-C	7999. -15.60 0.000 1.000 1.000
159.8	0.000	0.000	Strato2_3095_82743_L_0				
80 D	32.61	9.8162E-04	316.3 163.1	316.3	163.1	V-C	7999. -15.80 0.000 1.000 1.000
163.1	0.000	0.000	Strato2_3095_82743_L_0				

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 886 di 1221
29	0.000	--	--	--	--
0.000	0.000	0.000	not available		
30	0.000	--	--	--	--
0.000	0.000	0.000	not available		
31	0.000	--	--	--	--
0.000	0.000	0.000	not available		
32	0.000	--	--	--	--
0.000	0.000	0.000	not available		
33	0.000	--	--	--	--
0.000	0.000	0.000	not available		
34	0.000	--	--	--	--
0.000	0.000	0.000	not available		
35	0.000	--	--	--	--
0.000	0.000	0.000	not available		
36	0.000	--	--	--	--
0.000	0.000	0.000	not available		
37	0.000	--	--	--	--
0.000	0.000	0.000	not available		
38	0.000	--	--	--	--
0.000	0.000	0.000	not available		
39	0.000	--	--	--	--
0.000	0.000	0.000	not available		
40	0.000	--	--	--	--
0.000	0.000	0.000	not available		
41	0.000	--	--	--	--
0.000	0.000	0.000	not available		
42	0.000	--	--	--	--
0.000	0.000	0.000	not available		
43	0.000	--	--	--	--
0.000	0.000	0.000	not available		
44	0.000	--	--	--	--
0.000	0.000	0.000	not available		
45 D	14.60	9.7554E-03	2.000 73.01 167.3	85.04	PASSIVE 0.000
73.01	0.000	0.000	Strato2_3095_82743_L_0		
46 D	17.88	9.2289E-03	6.000 89.42 171.3	89.42	PASSIVE 0.000
89.42	0.000	0.000	Strato2_3095_82743_L_0		
47 D	21.17	8.7119E-03	10.000 105.8 175.3	105.8	PASSIVE 0.000
105.8	0.000	0.000	Strato2_3095_82743_L_0		
48 D	24.06	8.2056E-03	14.000 120.3 179.3	120.3	V-C 6020.
120.3	0.000	0.000	Strato2_3095_82743_L_0		
49 D	23.91	7.7114E-03	18.000 119.6 183.3	119.6	V-C 6020.
119.6	0.000	0.000	Strato2_3095_82743_L_0		
50 D	23.77	7.2303E-03	22.000 118.9 187.3	118.9	V-C 6020.
118.9	0.000	0.000	Strato2_3095_82743_L_0		
51 D	23.65	6.7632E-03	26.000 118.2 191.3	118.2	V-C 6020.
118.2	0.000	0.000	Strato2_3095_82743_L_0		
52 D	23.53	6.3109E-03	30.000 117.7 195.3	117.7	V-C 6020.
117.7	0.000	0.000	Strato2_3095_82743_L_0		
53 D	23.43	5.8740E-03	34.000 117.2 199.3	117.2	V-C 6020.
117.2	0.000	0.000	Strato2_3095_82743_L_0		
54 D	23.35	5.4530E-03	38.000 116.7 203.3	116.7	V-C 6020.
116.7	0.000	0.000	Strato2_3095_82743_L_0		
55 D	23.29	5.0484E-03	42.000 116.4 207.3	116.4	V-C 6020.
116.4	0.000	0.000	Strato2_3095_82743_L_0		
56 D	23.25	4.6602E-03	46.000 116.2 211.3	116.2	V-C 6020.
116.2	0.000	0.000	Strato2_3095_82743_L_0		
57 D	23.22	4.2886E-03	50.000 116.1 215.3	116.1	V-C 6020.
116.1	0.000	0.000	Strato2_3095_82743_L_0		
58 D	23.22	3.9336E-03	54.000 116.1 219.3	116.1	V-C 6020.
116.1	0.000	0.000	Strato2_3095_82743_L_0		
59 D	23.24	3.5950E-03	58.000 116.2 223.3	116.2	V-C 6020.
116.2	0.000	0.000	Strato2_3095_82743_L_0		
60 D	23.28	3.2726E-03	62.000 116.4 227.3	116.4	V-C 6020.
116.4	0.000	0.000	Strato2_3095_82743_L_0		
61 D	23.34	2.9658E-03	66.000 116.7 231.3	116.7	V-C 6020.
116.7	0.000	0.000	Strato2_3095_82743_L_0		
62 D	22.84	2.6742E-03	70.000 114.2 235.3	118.5	UL-RL 1.8061E+04
114.2	0.000	0.000	Strato2_3095_82743_L_0		
63 D	22.33	2.3971E-03	74.000 111.6 239.3	120.5	UL-RL 1.8061E+04
111.6	0.000	0.000	Strato2_3095_82743_L_0		
64 D	21.86	2.1338E-03	78.000 109.3 243.3	122.5	UL-RL 1.8061E+04
109.3	0.000	0.000	Strato2_3095_82743_L_0		
65 D	21.44	1.8835E-03	82.000 107.2 247.3	124.5	UL-RL 1.8061E+04
107.2	0.000	0.000	Strato2_3095_82743_L_0		
66 D	21.06	1.6452E-03	86.000 105.3 251.3	126.4	UL-RL 1.8061E+04
105.3	0.000	0.000	Strato2_3095_82743_L_0		
67 D	20.72	1.4179E-03	90.000 103.6 255.3	128.4	UL-RL 1.8061E+04
103.6	0.000	0.000	Strato2_3095_82743_L_0		
68 D	20.41	1.2005E-03	94.000 102.1 259.3	130.4	UL-RL 1.8061E+04
102.1	0.000	0.000	Strato2_3095_82743_L_0		
69 D	20.14	9.9221E-04	98.000 100.7 263.3	132.4	UL-RL 1.8061E+04
100.7	0.000	0.000	Strato2_3095_82743_L_0		
70 D	19.89	7.9179E-04	102.0 99.45 267.3	134.4	UL-RL 1.8061E+04
99.45	0.000	0.000	Strato2_3095_82743_L_0		
71 D	19.66	5.9825E-04	106.0 98.32 271.3	136.4	UL-RL 1.8061E+04

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 887 di 1221
98.32	0.000	0.000	Strato2_3095_82743_L_0		
72 D	19.46	4.1057E-04	110.0 97.30 275.3	138.4	
97.30	0.000	0.000	Strato2_3095_82743_L_0		
73 D	19.27	2.2780E-04	114.0 96.35 279.3	140.4	
96.35	0.000	0.000	Strato2_3095_82743_L_0		
74 D	19.09	4.9007E-05	118.0 95.47 283.3	142.4	
95.47	0.000	0.000	Strato2_3095_82743_L_0		
75 D	18.93	-1.2666E-04	122.0 94.64 287.3	144.5	
94.64	0.000	0.000	Strato2_3095_82743_L_0		
76 D	18.77	-2.9997E-04	126.0 93.84 291.3	146.5	
93.84	0.000	0.000	Strato2_3095_82743_L_0		
77 D	18.61	-4.7161E-04	130.0 93.06 295.3	148.5	
93.06	0.000	0.000	Strato2_3095_82743_L_0		
78 D	18.46	-6.4214E-04	134.0 92.30 299.3	150.5	
92.30	0.000	0.000	Strato2_3095_82743_L_0		
79 D	18.31	-8.1203E-04	138.0 91.54 303.3	152.5	
91.54	0.000	0.000	Strato2_3095_82743_L_0		
80 D	18.16	-9.8162E-04	142.0 90.78 307.3	154.5	
90.78	0.000	0.000	Strato2_3095_82743_L_0		
81 D	9.001	-1.1511E-03	146.0 90.01 311.3	156.5	
90.01	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:01:12  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 80
CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.48750	-0.48750	4.28030E-10	9.75000E-02
2	1.2950	-1.2950	-9.75000E-02	0.35650
3	2.4831	-2.4831	-0.35650	0.85313
4	3.9953	-3.9953	-0.85313	1.6522
5	5.8136	-5.8136	-1.6522	2.8149
6	7.9301	-7.9301	-2.8149	4.4009
7	10.341	-10.341	-4.4009	6.4691
8	13.043	-13.043	-6.4691	9.0776
9	15.970	-15.970	-9.0776	12.272
10	19.192	-19.192	-12.272	16.110
11	22.709	-22.709	-16.110	20.652
12	26.519	-26.519	-20.652	25.956
13	30.619	-30.619	-25.956	32.079
14	35.010	-35.010	-32.079	39.081
15	39.690	-39.690	-39.081	47.019
16	44.622	-44.622	-47.019	55.944
17	-87.803	87.803	-55.944	38.383
18	-82.289	82.289	-38.383	21.925
19	-76.486	76.486	-21.925	6.6281
20	-70.394	70.394	-6.6281	-7.4507
21	-64.013	64.013	7.4507	-20.253
22	-57.345	57.345	20.253	-31.722
23	-50.388	50.388	31.722	-41.800
24	-43.167	43.167	41.800	-50.433
25	-35.658	35.658	50.433	-57.565
26	-27.860	27.860	57.565	-63.137
27	-19.775	19.775	63.137	-67.092
28	-11.402	11.402	67.092	-69.372
29	-2.7411	2.7411	69.372	-69.920
30	6.2070	-6.2070	69.920	-68.679
31	15.424	-15.424	68.679	-65.594
32	24.928	-24.928	65.594	-60.609
33	34.721	-34.721	60.609	-53.664
34	44.800	-44.800	53.664	-44.704
35	55.167	-55.167	44.704	-33.671
36	65.820	-65.820	33.671	-20.507
37	76.761	-76.761	20.507	-5.1548
38	87.989	-87.989	5.1548	12.443
39	99.489	-99.489	-12.443	32.341
40	111.28	-111.28	-32.341	54.596
41	123.35	-123.35	-54.596	79.265

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 888 di 1221
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42	135.71	-135.71	-79.265	106.41
43	148.36	-148.36	-106.41	136.08
44	161.29	-161.29	-136.08	168.34
45	153.77	-153.77	-168.34	199.09
46	143.19	-143.19	-199.09	227.73
47	129.57	-129.57	-227.73	253.64
48	113.31	-113.31	-253.64	276.30
49	97.427	-97.427	-276.30	295.79
50	81.926	-81.926	-295.79	312.18
51	66.795	-66.795	-312.18	325.53
52	52.021	-52.021	-325.53	335.94
53	37.588	-37.588	-335.94	343.46
54	23.468	-23.468	-343.46	348.15
55	9.6517	-9.6517	-348.15	350.08
56	-3.8813	3.8813	-350.08	349.30
57	-17.151	17.151	-349.30	345.87
58	-30.178	30.178	-345.87	339.84
59	-42.983	42.983	-339.84	331.24
60	-55.584	55.584	-331.24	320.12
61	-68.010	68.010	-320.12	306.52
62	-79.703	79.703	-306.52	290.58
63	-89.759	89.759	-290.58	272.63
64	-97.703	97.703	-272.63	253.09
65	-103.65	103.65	-253.09	232.36
66	-107.70	107.70	-232.36	210.82
67	-109.95	109.95	-210.82	188.83
68	-110.50	110.50	-188.83	166.73
69	-109.42	109.42	-166.73	144.85
70	-106.77	106.77	-144.85	123.49
71	-102.61	102.61	-123.49	102.97
72	-96.991	96.991	-102.97	83.571
73	-89.951	89.951	-83.571	65.581
74	-81.524	81.524	-65.581	49.276
75	-71.733	71.733	-49.276	34.930
76	-60.608	60.608	-34.930	22.808
77	-48.579	48.579	-22.808	13.092
78	-35.739	35.739	-13.092	5.9447
79	-22.090	22.090	-5.9447	1.5267
80	-7.6330	7.6330	-1.5267	1.00345E-11

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019      18:01:12                             |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	142.50	-8.47140E-04	1.75951E-02	0.0000	2633.3	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019      18:01:12                             |
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FINAL INCREMENTAL ANALYSIS

SUMMARY

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	2
2	CONVERGENCE :YES	4
3	CONVERGENCE :YES	6
4	CONVERGENCE :YES	4
5	CONVERGENCE :YES	6

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
889 di 1221

END OF PROCESS FOR PROBLEM
New Project
NONLINEAR SOLUTION CPU TIME 0.06 [sec]
DATABASE CREATION CPU TIME..... 0.26 [sec]

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
890 di 1221

4. PARATIA DI PALI – SEZIONE 4

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

* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: Nominal

* Time:lunedì 29 luglio 2019 18:02:24

* 1: Defining general settings

UNIT m kN

TITLE New Project

DELTA 0.2

option param itemax 100

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)

WALL LeftWall_32 0 -12 0 1

* 3: Defining surfaces for wall(s)

SOIL 0_L LeftWall_32 -12 0 1 0

SOIL 0_R LeftWall_32 -12 0 2 180

* 4: Defining soil layers

*

* Soil Profile (Strato1_2_8_L_0)

*

LDATA Strato1_2_8_L_0 0 LeftWall_32

ATREST 0.53 1 1

WEIGHT 19 9 10

PERMEABILITY 1E-06

RESISTANCE 0 29

YOUNG 2E+04 6E+04

ENDL

*

* Soil Profile (Strato2_3095_82743_L_0)

*

LDATA Strato2_3095_82743_L_0 -6.1 LeftWall_32

ATREST 0.5 0.5 1

WEIGHT 20 10 10

PERMEABILITY 0.0001

RESISTANCE 20 35

YOUNG 5E+04 1.5E+05

ENDL

* 5: Defining structural materials

* Steel material: 108 Name=Fe360 E=206000200 kPa

MATERIAL Fe360_108 2.06E+08

* Concrete material: 104 Name=C25/30 E=31475800 kPa

MATERIAL C2530_104 3.148E+07

* Rebar material: 124 Name=acciaio armonico E=200100000 kPa

MATERIAL acciaioarmonico_124 2.001E+08

* Concrete material: 103 Name=C20/25 E=29962000 kPa

MATERIAL C2025_103 2.996E+07

* 6: Defining structural elements

* 6.1: Beams and combined Wall Elements

BEAM WallElement_33 LeftWall_32 -12 0 C2530_104 0.6848 00 00 0

* 6.2: Supports

WIRE Tirante1_429 LeftWall_32 -2.4 acciaioarmonico_124 1.316E-05 93.94 15 0 0

* 6.3: Strips

STRIP LeftWall_32 2 5 0 40 0 10 30

STRIP LeftWall_32 2 5 0 40 0 41.8 45

* 7: Defining Steps

STEP Stage1_31

CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32

CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32

CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32

CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32

CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32

CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32

CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32

CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32

CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32

CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32

CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32

CHANGE Strato2_3095_82743_L_0 U-COHE=20 LeftWall_32

CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32

SETWALL LeftWall_32

GEOM 0 0

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 892 di 1221
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JOB : NewProject.BaseDesignSection_28.Nominal_63
 STARTING
 ACCEPTED <FILE,GENW >
 ACCEPTED <FILE,PLOTTER,BINARY >
 ACCEPTED <SOLVE TOTAL_STRESS >
 ACCEPTED <PARAM ITEMAX 100 >
 ACCEPTED <CONTROL HINGES 0 0.0001 0.001 >

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

PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019    18:02:24                             |
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INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

NO. OF NODAL POINTS (NUMNP) 61
 NO. OF COORDINATES (NCOORD) 2
 NO. OF NODE DOFS (NDOF) 2
 NO. OF EQUATIONS (NEQ) 122
 NO. OF CONSTRAINTS CARDS (NVINC) 0
 NO. OF ELEMENT GROUPS (NEG) 4
 NO. OF SOLUTION STEPS (NSTE) 5
 NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
 NO. OF RECORD FROM WALGEN 89
 NO. OF LONG NAMES (LASTNAME) 21
 LENGTH UNIT CHOICE 3 (M)
 FORCE UNIT CHOICE 3 (KN)
 MAX PORE PRESSURE TABLE LENGTH..... 1
 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.

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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019    18:02:24                             |
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PREPROCESSOR DATA

NO. OF COMMANDS 89

1 : UNIT m kN
 2 : TITLE New Project
 3 : DELTA 0.2

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 893 di 1221
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4 : option param itemax 100
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -12 0 1
7 : SOIL 0_L LeftWall_32 -12 0 1 0
8 : SOIL 0_R LeftWall_32 -12 0 2 180
9 : LDATA Strato1_2_8_L_0 0 LeftWall_32
10 : ATREST 0.53 1 1
11 : WEIGHT 19 9 10
12 : PERMEABILITY 1E-06
13 : RESISTANCE 0 29
14 : YOUNG 2E+04 6E+04
15 : ENDL
16 : LDATA Strato2_3095_82743_L_0 -6.1 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 20 10 10
19 : PERMEABILITY 0.0001
20 : RESISTANCE 20 35
21 : YOUNG 5E+04 1.5E+05
22 : ENDL
23 : MATERIAL Fe360_108 2.06E+08
24 : MATERIAL C2530_104 3.148E+07
25 : MATERIAL acciaioarmonico_124 2.001E+08
26 : MATERIAL C2025_103 2.996E+07
27 : BEAM WallElement_33 LeftWall_32 -12 0 C2530_104 0.6848 00 00 0
28 : WIRE Tirante1_429 LeftWall_32 -2.4 acciaioarmonico_124 1.316E-05 93.94 15 0 0
29 : STRIP LeftWall_32 2 5 0 40 0 10 30
30 : STRIP LeftWall_32 2 5 0 40 0 41.8 45
31 : STEP Stage1_31
32 : CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32
33 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
34 : CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32
35 : CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32
36 : CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32
37 : CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32
38 : CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32
39 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
40 : CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32
41 : CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32
42 : CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32
43 : CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32
44 : CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
45 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
46 : CHANGE Strato2_3095_82743_L_0 U-COHE=20 LeftWall_32
47 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
48 : SETWALL LeftWall_32
49 : GEOM 0 0
50 : WATER -26 0 -12 0 0
51 : ADD WallElement_33
52 : ENDSTEP
53 : STEP Stage2_755438
54 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
55 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
56 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
57 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
58 : SETWALL LeftWall_32
59 : GEOM 0 0
60 : WATER -26 0 -12 0 0
61 : ENDSTEP
62 : STEP Stage3_158
63 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
64 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
65 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
66 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
67 : SETWALL LeftWall_32
68 : GEOM 0 -2.9
69 : WATER -26 0 -12 0 0
70 : ENDSTEP
71 : STEP Stage4_617
72 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
73 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
74 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
75 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
76 : SETWALL LeftWall_32
77 : GEOM 0 -2.9
78 : WATER -26 0 -12 0 0
79 : ADD Tirante1_429
80 : ENDSTEP
81 : STEP Stage5_714
82 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
83 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
84 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
85 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
86 : SETWALL LeftWall_32
87 : GEOM 0 -6.1
88 : WATER -26 0 -12 0 0

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 894 di 1221
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89 : ENDSTEP

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019      18:02:24        |
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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 / NODE
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 -10.2000 /	
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 /							

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019      18:02:24        |
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```

ELEMENT GROUP NO. 1

0_L :
5 61 0 1 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0

.....2D PLASTIC SOIL

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	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

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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 895 di 1221
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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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	0.2000	0.000	0.000	0.000	1.000
28	28	1	0.2000	0.000	0.000	0.000	1.000
29	29	1	0.2000	0.000	0.000	0.000	1.000
30	30	1	0.2000	0.000	0.000	0.000	1.000
31	31	1	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	0.1000	0.000	0.000	0.000	1.000

```

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|          PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION   *Build date:Jul 11, 2017*   |
|                                                                    |
|          NewProject.BaseDesignSection_28.Nominal_63           |
|          Exe Time :29 July 2019           18:02:24           |
|                                                                    |
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```

```

ELEMENT GROUP NO. 2

0_R
 5 61 0 1 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0

```

```

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

```

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	active

```

material set no. 1

prop( 1) angle           180.000
prop( 2) layer as foreseen 1.00000

```


GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
896 di 1221

material set no. 2

prop(1) angle 180.000
prop(2) layer as foreseen 2.00000

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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000
24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	0.2000	0.000	0.000	0.000	2.000
28	28	1	0.2000	0.000	0.000	0.000	2.000
29	29	1	0.2000	0.000	0.000	0.000	2.000
30	30	1	0.2000	0.000	0.000	0.000	2.000
31	31	1	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	0.1000	0.000	0.000	0.000	2.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
897 di 1221

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      18:02:24                             |
|-----+-----

```

```

ELEMENT GROUP NO. 3

WallElement_33      :
  2 60 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
 4  active
 5  active

```

```

material set no. 1

prop( 1) young modulus      0.314800E+08
prop( 2) modification time  0.00000
prop( 3) new young modulus   0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future .....0.252200E-43

```

```

no. of step variable items: 1
step inertia multiplier
-----
 1  1.000
 2  1.000
 3  1.000
 4  1.000
 5  1.000

```

element data

el	na	nb	mat	erc1	erc2	thick	by-i	by-j
1	1	2	1	0.000	0.000	0.6848	0.000	0.000
2	2	3	1	0.000	0.000	0.6848	0.000	0.000
3	3	4	1	0.000	0.000	0.6848	0.000	0.000
4	4	5	1	0.000	0.000	0.6848	0.000	0.000
5	5	6	1	0.000	0.000	0.6848	0.000	0.000
6	6	7	1	0.000	0.000	0.6848	0.000	0.000
7	7	8	1	0.000	0.000	0.6848	0.000	0.000
8	8	9	1	0.000	0.000	0.6848	0.000	0.000
9	9	10	1	0.000	0.000	0.6848	0.000	0.000
10	10	11	1	0.000	0.000	0.6848	0.000	0.000
11	11	12	1	0.000	0.000	0.6848	0.000	0.000
12	12	13	1	0.000	0.000	0.6848	0.000	0.000
13	13	14	1	0.000	0.000	0.6848	0.000	0.000
14	14	15	1	0.000	0.000	0.6848	0.000	0.000
15	15	16	1	0.000	0.000	0.6848	0.000	0.000
16	16	17	1	0.000	0.000	0.6848	0.000	0.000
17	17	18	1	0.000	0.000	0.6848	0.000	0.000
18	18	19	1	0.000	0.000	0.6848	0.000	0.000
19	19	20	1	0.000	0.000	0.6848	0.000	0.000
20	20	21	1	0.000	0.000	0.6848	0.000	0.000
21	21	22	1	0.000	0.000	0.6848	0.000	0.000
22	22	23	1	0.000	0.000	0.6848	0.000	0.000
23	23	24	1	0.000	0.000	0.6848	0.000	0.000
24	24	25	1	0.000	0.000	0.6848	0.000	0.000
25	25	26	1	0.000	0.000	0.6848	0.000	0.000
26	26	27	1	0.000	0.000	0.6848	0.000	0.000
27	27	28	1	0.000	0.000	0.6848	0.000	0.000
28	28	29	1	0.000	0.000	0.6848	0.000	0.000
29	29	30	1	0.000	0.000	0.6848	0.000	0.000
30	30	31	1	0.000	0.000	0.6848	0.000	0.000
31	31	32	1	0.000	0.000	0.6848	0.000	0.000
32	32	33	1	0.000	0.000	0.6848	0.000	0.000
33	33	34	1	0.000	0.000	0.6848	0.000	0.000
34	34	35	1	0.000	0.000	0.6848	0.000	0.000
35	35	36	1	0.000	0.000	0.6848	0.000	0.000
36	36	37	1	0.000	0.000	0.6848	0.000	0.000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 898 di 1221
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37	37	38	1	0.000	0.000	0.6848	0.000	0.000
38	38	39	1	0.000	0.000	0.6848	0.000	0.000
39	39	40	1	0.000	0.000	0.6848	0.000	0.000
40	40	41	1	0.000	0.000	0.6848	0.000	0.000
41	41	42	1	0.000	0.000	0.6848	0.000	0.000
42	42	43	1	0.000	0.000	0.6848	0.000	0.000
43	43	44	1	0.000	0.000	0.6848	0.000	0.000
44	44	45	1	0.000	0.000	0.6848	0.000	0.000
45	45	46	1	0.000	0.000	0.6848	0.000	0.000
46	46	47	1	0.000	0.000	0.6848	0.000	0.000
47	47	48	1	0.000	0.000	0.6848	0.000	0.000
48	48	49	1	0.000	0.000	0.6848	0.000	0.000
49	49	50	1	0.000	0.000	0.6848	0.000	0.000
50	50	51	1	0.000	0.000	0.6848	0.000	0.000
51	51	52	1	0.000	0.000	0.6848	0.000	0.000
52	52	53	1	0.000	0.000	0.6848	0.000	0.000
53	53	54	1	0.000	0.000	0.6848	0.000	0.000
54	54	55	1	0.000	0.000	0.6848	0.000	0.000
55	55	56	1	0.000	0.000	0.6848	0.000	0.000
56	56	57	1	0.000	0.000	0.6848	0.000	0.000
57	57	58	1	0.000	0.000	0.6848	0.000	0.000
58	58	59	1	0.000	0.000	0.6848	0.000	0.000
59	59	60	1	0.000	0.000	0.6848	0.000	0.000
60	60	61	1	0.000	0.000	0.6848	0.000	0.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63 |
|          Exe Time :29 July 2019      18:02:24      |
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```

```

ELEMENT GROUP NO.  4

Tirantel_429      :
 6  1  0  1  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  2  0
.....
.....2D POST-TENSION ANCHOR.....
.....

```

```

element group behaviour throughout stage analysis

stage  status
-----
 1  inactive
 2  inactive
 3  inactive
 4  active
 5  active

```

```

material set no.  1

prop( 1) angle      15.0000
prop( 2) young modulus 0.200100E+09
prop( 3) modification time  0.00000
prop( 4) new young modulus  0.00000

no. of step variable items:  2
step  -ve lim  +ve lim
-----
 1  0.000  0.000
 2  0.000  0.000
 3  0.000  0.000
 4  0.000  0.000
 5  0.000  0.000

```

```

element data

el  n  mat      a/l  pinit  yieldc  yieldt
-----
 1  13  1  0.1316E-04  93.94  0.000  0.000

```

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
899 di 1221

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
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|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019      18:02:24        |
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```

```

NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 10
MAXIMUM POINTS/LCURVE (NPTM)..... 5

```

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019      18:02:24        |
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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
6.00000        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
6.00000        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
6.00000        0.0000E+00

```

```

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

```

```

TIME VALUE        FUNCTION
0.00000        0.0000E+00
3.80000        0.0000E+00
4.00000        0.1000E+01
4.20000        0.0000E+00
6.00000        0.0000E+00

```

```

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 5

```

```

TIME VALUE        FUNCTION

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 900 di 1221
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0.00000 0.0000E+00
 4.80000 0.0000E+00
 5.00000 0.1000E+01
 5.20000 0.0000E+00
 6.00000 0.0000E+00

LOAD FUNCTION NUMBER = 6
 NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 7
 NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 8
 NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9
 NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10
 NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
6.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                           |
|                                                                                                                                           |
|                                                                                                                                           |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                   |
|          Exe Time :29 July 2019  18:02:24                                                                                             |
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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

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 901 di 1221
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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
STEP	4	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	4	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      18:02:24
|
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NO. OF LAYERS 2
NO. OF DATA PER LAYER..... 100

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      18:02:24
|
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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	>= 14.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(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.	9<U-FRICT	>= 29.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.30400	WALL NO.	1
ITEM NO.	11<U-KP	>= 4.0410	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.53000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 1.0000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 20000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 60000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-05	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 29.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.30400	WALL NO.	1
ITEM NO.	61<D-KP	>= 4.0410	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-05	(BOTH WALLS)	

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

ITEM NO.	1<NAME	>= 15.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -6.1000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 20.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 20.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.23500	WALL NO.	1
ITEM NO.	11<U-KP	>= 5.8790	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 0.50000	(BOTH WALLS)	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 902 di 1221
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ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

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

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -6.1000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 903 di 1221
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ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -6.1000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -6.1000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 904 di 1221
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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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 5

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 5

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -6.1000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 10 VALUES



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 905 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019  18:02:24  |
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PHASE DESCRIPTORS

STEP NO.	1	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-12.00	-12.00
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	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-12.00	-12.00
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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
906 di 1221

=====end of step 2

STEP NO.	3	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-2.900	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-12.00	-12.00
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

STEP NO.	4	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-2.900	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-12.00	-12.00
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 4

STEP NO.	5	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-6.100	0.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 907 di 1221
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z-WATER_TABLE          -26.00      -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL  0.000      0.000
ZQ                     0.000      0.000
DZW_OF_THE_WATER_TABLE  0.000      0.000
QS_ON_THE_EXCAVATION_SIDE 0.000      0.000
ZQS                    -0.9990E+30 -0.9990E+30
ZCUT                   0.000      0.000
BALANCE LEVEL FOR PORE PRESSURES -12.00     -12.00
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 5

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LEFT-HAND WALL

LOWER LEVEL      -12.00000
UPPER LEVEL      0.00000

RIGHT-HAND WALL

LOWER LEVEL      -12.00000
UPPER LEVEL      0.00000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019    18:02:24                             |
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INITIAL STRESS TABLES

SECTION

```

NUMBER OF DEFINED TABLES          2

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

ACTIVATION TIME                     2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 5.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY)             0.000000000000000E+000
FOUNDATION WIDTH (B)                 40.0000000000000
ZETA-F.....                          0.000000000000000E+000
Q-F .....                             10.0000000000000
BETA .....                            30.0000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING)    0.000000000000000E+000

INPUT DATA FOR INITIAL STRESS SET NO.  2
PERTAINING SOIL ELEMENTS AT Y-COORD    0.0000

ACTIVATION TIME                     2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 5.0000

TYPE BOUSSINESQ

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 908 di 1221
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HORIZONTAL DISTANCE (DY) 0.000000000000000E+000
 FOUNDATION WIDTH (B) 40.000000000000000
 ZETA-F..... 0.000000000000000E+000
 Q-F 41.800000000000000
 BETA 45.000000000000000
 BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
 POSITION 3530

NO. OF D.P.W FOR THIS AREA 7258
 MAX NO. OF D.P.W. AVAILABLE 81920
 ** MAX NO OF ITERATIONS SET TO 100

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2153E+05 RIMNOR= 0.000
 RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 22.99 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.2153E+05 RDR = 0.000
 RATIO= 0.000 RATIO= 0.000
 MAX UN= 0.000 IEQ= 122 NODE 61 DOF 2 X-ROT. F
 MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2153E+05 RIMNOR= 0.000
 RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 22.99 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.2153E+05 RDR = 0.000
 RATIO= 0.000 RATIO= 0.000
 MAX UN= 0.000 IEQ= 122 NODE 61 DOF 2 X-ROT. F
 MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2153E+05 RIMNOR= 0.000
 RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 22.99 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.2153E+05 RDR = 0.000
 RATIO= 0.000 RATIO= 0.000
 MAX UN= 0.000 IEQ= 122 NODE 61 DOF 2 X-ROT. F
 MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                           |
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|                                                                                                                                           |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                   |
|          Exe Time :29 July 2019  18:02:24                                                                                             |
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New Project
 SOLUTION REACHED USING 2 ITERATIONS ON 100
 PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)
 Y-DISPL.F X-ROT. F
 (02) (04) (

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 909 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      18:02:24                             |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
 CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	2.1221E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Stratol_2_8_L_0									
2 D	0.4028	0.000	3.800	2.014	3.800	2.014	V-C	2.1221E+04	-0.2000	0.000	1.000	1.000
2.014	0.000	0.000	Stratol_2_8_L_0									
3 D	0.8056	0.000	7.600	4.028	7.600	4.028	V-C	2.1221E+04	-0.4000	0.000	1.000	1.000
4.028	0.000	0.000	Stratol_2_8_L_0									
4 D	1.208	0.000	11.40	6.042	11.40	6.042	V-C	2.1221E+04	-0.6000	0.000	1.000	1.000
6.042	0.000	0.000	Stratol_2_8_L_0									
5 D	1.611	0.000	15.20	8.056	15.20	8.056	V-C	2.1221E+04	-0.8000	0.000	1.000	1.000
8.056	0.000	0.000	Stratol_2_8_L_0									
6 D	2.014	0.000	19.00	10.07	19.00	10.07	V-C	2.1221E+04	-1.000	0.000	1.000	1.000
10.07	0.000	0.000	Stratol_2_8_L_0									
7 D	2.417	0.000	22.80	12.08	22.80	12.08	V-C	2.1221E+04	-1.200	0.000	1.000	1.000
12.08	0.000	0.000	Stratol_2_8_L_0									
8 D	2.820	0.000	26.60	14.10	26.60	14.10	V-C	2.1221E+04	-1.400	0.000	1.000	1.000
14.10	0.000	0.000	Stratol_2_8_L_0									
9 D	3.222	0.000	30.40	16.11	30.40	16.11	V-C	2.1221E+04	-1.600	0.000	1.000	1.000
16.11	0.000	0.000	Stratol_2_8_L_0									
10 D	3.625	0.000	34.20	18.13	34.20	18.13	V-C	2.1221E+04	-1.800	0.000	1.000	1.000
18.13	0.000	0.000	Stratol_2_8_L_0									
11 D	4.028	0.000	38.00	20.14	38.00	20.14	V-C	2.1221E+04	-2.000	0.000	1.000	1.000
20.14	0.000	0.000	Stratol_2_8_L_0									
12 D	4.431	0.000	41.80	22.15	41.80	22.15	V-C	2.1221E+04	-2.200	0.000	1.000	1.000
22.15	0.000	0.000	Stratol_2_8_L_0									
13 D	4.834	0.000	45.60	24.17	45.60	24.17	V-C	2.1221E+04	-2.400	0.000	1.000	1.000
24.17	0.000	0.000	Stratol_2_8_L_0									
14 D	5.236	0.000	49.40	26.18	49.40	26.18	V-C	2.1221E+04	-2.600	0.000	1.000	1.000
26.18	0.000	0.000	Stratol_2_8_L_0									
15 D	5.639	0.000	53.20	28.20	53.20	28.20	V-C	2.1221E+04	-2.800	0.000	1.000	1.000
28.20	0.000	0.000	Stratol_2_8_L_0									
16 D	6.042	0.000	57.00	30.21	57.00	30.21	V-C	2.1221E+04	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Stratol_2_8_L_0									
17 D	6.445	0.000	60.80	32.22	60.80	32.22	V-C	2.1221E+04	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Stratol_2_8_L_0									
18 D	6.848	0.000	64.60	34.24	64.60	34.24	V-C	2.1221E+04	-3.400	0.000	1.000	1.000
34.24	0.000	0.000	Stratol_2_8_L_0									
19 D	7.250	0.000	68.40	36.25	68.40	36.25	V-C	2.1221E+04	-3.600	0.000	1.000	1.000
36.25	0.000	0.000	Stratol_2_8_L_0									
20 D	7.653	0.000	72.20	38.27	72.20	38.27	V-C	2.1221E+04	-3.800	0.000	1.000	1.000
38.27	0.000	0.000	Stratol_2_8_L_0									
21 D	8.056	0.000	76.00	40.28	76.00	40.28	V-C	2.1221E+04	-4.000	0.000	1.000	1.000
40.28	0.000	0.000	Stratol_2_8_L_0									
22 D	8.459	0.000	79.80	42.29	79.80	42.29	V-C	2.1221E+04	-4.200	0.000	1.000	1.000
42.29	0.000	0.000	Stratol_2_8_L_0									
23 D	8.862	0.000	83.60	44.31	83.60	44.31	V-C	2.1221E+04	-4.400	0.000	1.000	1.000
44.31	0.000	0.000	Stratol_2_8_L_0									
24 D	9.264	0.000	87.40	46.32	87.40	46.32	V-C	2.1221E+04	-4.600	0.000	1.000	1.000
46.32	0.000	0.000	Stratol_2_8_L_0									
25 D	9.667	0.000	91.20	48.34	91.20	48.34	V-C	2.1221E+04	-4.800	0.000	1.000	1.000
48.34	0.000	0.000	Stratol_2_8_L_0									
26 D	10.07	0.000	95.00	50.35	95.00	50.35	V-C	2.1221E+04	-5.000	0.000	1.000	1.000
50.35	0.000	0.000	Stratol_2_8_L_0									
27 D	10.47	0.000	98.80	52.36	98.80	52.36	V-C	2.1221E+04	-5.200	0.000	1.000	1.000
52.36	0.000	0.000	Stratol_2_8_L_0									
28 D	10.88	0.000	102.6	54.38	102.6	54.38	V-C	2.1221E+04	-5.400	0.000	1.000	1.000
54.38	0.000	0.000	Stratol_2_8_L_0									
29 D	11.28	0.000	106.4	56.39	106.4	56.39	V-C	2.1221E+04	-5.600	0.000	1.000	1.000
56.39	0.000	0.000	Stratol_2_8_L_0									
30 D	11.68	0.000	110.2	58.41	110.2	58.41	V-C	2.1221E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 910 di 1221
58.41	0.000	0.000	Strato1_2_8_L_0		
31 D	12.08	0.000	114.0 60.42 114.0	60.42	V-C 2.1221E+04 -6.000 0.000 1.000 1.000
60.42	0.000	0.000	Strato1_2_8_L_0		
32 D	11.79	0.000	117.9 58.95 117.9	58.95	V-C 6.0031E+04 -6.200 0.000 1.000 1.000
58.95	0.000	0.000	Strato2_3095_82743_L_0		
33 D	12.19	0.000	121.9 60.95 121.9	60.95	V-C 6.0031E+04 -6.400 0.000 1.000 1.000
60.95	0.000	0.000	Strato2_3095_82743_L_0		
34 D	12.59	0.000	125.9 62.95 125.9	62.95	V-C 6.0031E+04 -6.600 0.000 1.000 1.000
62.95	0.000	0.000	Strato2_3095_82743_L_0		
35 D	12.99	0.000	129.9 64.95 129.9	64.95	V-C 6.0031E+04 -6.800 0.000 1.000 1.000
64.95	0.000	0.000	Strato2_3095_82743_L_0		
36 D	13.39	0.000	133.9 66.95 133.9	66.95	V-C 6.0031E+04 -7.000 0.000 1.000 1.000
66.95	0.000	0.000	Strato2_3095_82743_L_0		
37 D	13.79	0.000	137.9 68.95 137.9	68.95	V-C 6.0031E+04 -7.200 0.000 1.000 1.000
68.95	0.000	0.000	Strato2_3095_82743_L_0		
38 D	14.19	0.000	141.9 70.95 141.9	70.95	V-C 6.0031E+04 -7.400 0.000 1.000 1.000
70.95	0.000	0.000	Strato2_3095_82743_L_0		
39 D	14.59	0.000	145.9 72.95 145.9	72.95	V-C 6.0031E+04 -7.600 0.000 1.000 1.000
72.95	0.000	0.000	Strato2_3095_82743_L_0		
40 D	14.99	0.000	149.9 74.95 149.9	74.95	V-C 6.0031E+04 -7.800 0.000 1.000 1.000
74.95	0.000	0.000	Strato2_3095_82743_L_0		
41 D	15.39	0.000	153.9 76.95 153.9	76.95	V-C 6.0031E+04 -8.000 0.000 1.000 1.000
76.95	0.000	0.000	Strato2_3095_82743_L_0		
42 D	15.79	0.000	157.9 78.95 157.9	78.95	V-C 6.0031E+04 -8.200 0.000 1.000 1.000
78.95	0.000	0.000	Strato2_3095_82743_L_0		
43 D	16.19	0.000	161.9 80.95 161.9	80.95	V-C 6.0031E+04 -8.400 0.000 1.000 1.000
80.95	0.000	0.000	Strato2_3095_82743_L_0		
44 D	16.59	0.000	165.9 82.95 165.9	82.95	V-C 6.0031E+04 -8.600 0.000 1.000 1.000
82.95	0.000	0.000	Strato2_3095_82743_L_0		
45 D	16.99	0.000	169.9 84.95 169.9	84.95	V-C 6.0031E+04 -8.800 0.000 1.000 1.000
84.95	0.000	0.000	Strato2_3095_82743_L_0		
46 D	17.39	0.000	173.9 86.95 173.9	86.95	V-C 6.0031E+04 -9.000 0.000 1.000 1.000
86.95	0.000	0.000	Strato2_3095_82743_L_0		
47 D	17.79	0.000	177.9 88.95 177.9	88.95	V-C 6.0031E+04 -9.200 0.000 1.000 1.000
88.95	0.000	0.000	Strato2_3095_82743_L_0		
48 D	18.19	0.000	181.9 90.95 181.9	90.95	V-C 6.0031E+04 -9.400 0.000 1.000 1.000
90.95	0.000	0.000	Strato2_3095_82743_L_0		
49 D	18.59	0.000	185.9 92.95 185.9	92.95	V-C 6.0031E+04 -9.600 0.000 1.000 1.000
92.95	0.000	0.000	Strato2_3095_82743_L_0		
50 D	18.99	0.000	189.9 94.95 189.9	94.95	V-C 6.0031E+04 -9.800 0.000 1.000 1.000
94.95	0.000	0.000	Strato2_3095_82743_L_0		
51 D	19.39	0.000	193.9 96.95 193.9	96.95	V-C 6.0031E+04 -10.000 0.000 1.000 1.000
96.95	0.000	0.000	Strato2_3095_82743_L_0		
52 D	19.79	0.000	197.9 98.95 197.9	98.95	V-C 6.0031E+04 -10.200 0.000 1.000 1.000
98.95	0.000	0.000	Strato2_3095_82743_L_0		
53 D	20.19	0.000	201.9 100.9 201.9	100.9	V-C 6.0031E+04 -10.400 0.000 1.000 1.000
100.9	0.000	0.000	Strato2_3095_82743_L_0		
54 D	20.59	0.000	205.9 102.9 205.9	102.9	V-C 6.0031E+04 -10.600 0.000 1.000 1.000
102.9	0.000	0.000	Strato2_3095_82743_L_0		
55 D	20.99	0.000	209.9 104.9 209.9	104.9	V-C 6.0031E+04 -10.800 0.000 1.000 1.000
104.9	0.000	0.000	Strato2_3095_82743_L_0		
56 D	21.39	0.000	213.9 106.9 213.9	106.9	V-C 6.0031E+04 -11.000 0.000 1.000 1.000
106.9	0.000	0.000	Strato2_3095_82743_L_0		
57 D	21.79	0.000	217.9 108.9 217.9	108.9	V-C 6.0031E+04 -11.200 0.000 1.000 1.000
108.9	0.000	0.000	Strato2_3095_82743_L_0		
58 D	22.19	0.000	221.9 110.9 221.9	110.9	V-C 6.0031E+04 -11.400 0.000 1.000 1.000
110.9	0.000	0.000	Strato2_3095_82743_L_0		
59 D	22.59	0.000	225.9 112.9 225.9	112.9	V-C 6.0031E+04 -11.600 0.000 1.000 1.000
112.9	0.000	0.000	Strato2_3095_82743_L_0		
60 D	22.99	0.000	229.9 114.9 229.9	114.9	V-C 6.0031E+04 -11.800 0.000 1.000 1.000
114.9	0.000	0.000	Strato2_3095_82743_L_0		
61 D	11.70	0.000	233.9 116.9 233.9	116.9	V-C 6.0031E+04 -12.000 0.000 1.000 1.000
117.0	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 912 di 1221
58.41	0.000	0.000	Strato1_2_8_L_0		
31 D	12.08	0.000	114.0 60.42 114.0	60.42	V-C 1.4726E+04 -6.000 0.000 1.000 1.000
60.42	0.000	0.000	Strato1_2_8_L_0		
32 D	11.79	0.000	117.9 58.95 117.9	58.95	V-C 3.2535E+04 -6.200 0.000 1.000 1.000
58.95	0.000	0.000	Strato2_3095_82743_L_0		
33 D	12.19	0.000	121.9 60.95 121.9	60.95	V-C 3.2535E+04 -6.400 0.000 1.000 1.000
60.95	0.000	0.000	Strato2_3095_82743_L_0		
34 D	12.59	0.000	125.9 62.95 125.9	62.95	V-C 3.2535E+04 -6.600 0.000 1.000 1.000
62.95	0.000	0.000	Strato2_3095_82743_L_0		
35 D	12.99	0.000	129.9 64.95 129.9	64.95	V-C 3.2535E+04 -6.800 0.000 1.000 1.000
64.95	0.000	0.000	Strato2_3095_82743_L_0		
36 D	13.39	0.000	133.9 66.95 133.9	66.95	V-C 3.2535E+04 -7.000 0.000 1.000 1.000
66.95	0.000	0.000	Strato2_3095_82743_L_0		
37 D	13.79	0.000	137.9 68.95 137.9	68.95	V-C 3.2535E+04 -7.200 0.000 1.000 1.000
68.95	0.000	0.000	Strato2_3095_82743_L_0		
38 D	14.19	0.000	141.9 70.95 141.9	70.95	V-C 3.2535E+04 -7.400 0.000 1.000 1.000
70.95	0.000	0.000	Strato2_3095_82743_L_0		
39 D	14.59	0.000	145.9 72.95 145.9	72.95	V-C 3.2535E+04 -7.600 0.000 1.000 1.000
72.95	0.000	0.000	Strato2_3095_82743_L_0		
40 D	14.99	0.000	149.9 74.95 149.9	74.95	V-C 3.2535E+04 -7.800 0.000 1.000 1.000
74.95	0.000	0.000	Strato2_3095_82743_L_0		
41 D	15.39	0.000	153.9 76.95 153.9	76.95	V-C 3.2535E+04 -8.000 0.000 1.000 1.000
76.95	0.000	0.000	Strato2_3095_82743_L_0		
42 D	15.79	0.000	157.9 78.95 157.9	78.95	V-C 3.2535E+04 -8.200 0.000 1.000 1.000
78.95	0.000	0.000	Strato2_3095_82743_L_0		
43 D	16.19	0.000	161.9 80.95 161.9	80.95	V-C 3.2535E+04 -8.400 0.000 1.000 1.000
80.95	0.000	0.000	Strato2_3095_82743_L_0		
44 D	16.59	0.000	165.9 82.95 165.9	82.95	V-C 3.2535E+04 -8.600 0.000 1.000 1.000
82.95	0.000	0.000	Strato2_3095_82743_L_0		
45 D	16.99	0.000	169.9 84.95 169.9	84.95	V-C 3.2535E+04 -8.800 0.000 1.000 1.000
84.95	0.000	0.000	Strato2_3095_82743_L_0		
46 D	17.39	0.000	173.9 86.95 173.9	86.95	V-C 3.2535E+04 -9.000 0.000 1.000 1.000
86.95	0.000	0.000	Strato2_3095_82743_L_0		
47 D	17.79	0.000	177.9 88.95 177.9	88.95	V-C 3.2535E+04 -9.200 0.000 1.000 1.000
88.95	0.000	0.000	Strato2_3095_82743_L_0		
48 D	18.19	0.000	181.9 90.95 181.9	90.95	V-C 3.2535E+04 -9.400 0.000 1.000 1.000
90.95	0.000	0.000	Strato2_3095_82743_L_0		
49 D	18.59	0.000	185.9 92.95 185.9	92.95	V-C 3.2535E+04 -9.600 0.000 1.000 1.000
92.95	0.000	0.000	Strato2_3095_82743_L_0		
50 D	18.99	0.000	189.9 94.95 189.9	94.95	V-C 3.2535E+04 -9.800 0.000 1.000 1.000
94.95	0.000	0.000	Strato2_3095_82743_L_0		
51 D	19.39	0.000	193.9 96.95 193.9	96.95	V-C 3.2535E+04 -10.000 0.000 1.000 1.000
96.95	0.000	0.000	Strato2_3095_82743_L_0		
52 D	19.79	0.000	197.9 98.95 197.9	98.95	V-C 3.2535E+04 -10.200 0.000 1.000 1.000
98.95	0.000	0.000	Strato2_3095_82743_L_0		
53 D	20.19	0.000	201.9 100.9 201.9	100.9	V-C 3.2535E+04 -10.400 0.000 1.000 1.000
100.9	0.000	0.000	Strato2_3095_82743_L_0		
54 D	20.59	0.000	205.9 102.9 205.9	102.9	V-C 3.2535E+04 -10.600 0.000 1.000 1.000
102.9	0.000	0.000	Strato2_3095_82743_L_0		
55 D	20.99	0.000	209.9 104.9 209.9	104.9	V-C 3.2535E+04 -10.800 0.000 1.000 1.000
104.9	0.000	0.000	Strato2_3095_82743_L_0		
56 D	21.39	0.000	213.9 106.9 213.9	106.9	V-C 3.2535E+04 -11.000 0.000 1.000 1.000
106.9	0.000	0.000	Strato2_3095_82743_L_0		
57 D	21.79	0.000	217.9 108.9 217.9	108.9	V-C 3.2535E+04 -11.200 0.000 1.000 1.000
108.9	0.000	0.000	Strato2_3095_82743_L_0		
58 D	22.19	0.000	221.9 110.9 221.9	110.9	V-C 3.2535E+04 -11.400 0.000 1.000 1.000
110.9	0.000	0.000	Strato2_3095_82743_L_0		
59 D	22.59	0.000	225.9 112.9 225.9	112.9	V-C 3.2535E+04 -11.600 0.000 1.000 1.000
112.9	0.000	0.000	Strato2_3095_82743_L_0		
60 D	22.99	0.000	229.9 114.9 229.9	114.9	V-C 3.2535E+04 -11.800 0.000 1.000 1.000
114.9	0.000	0.000	Strato2_3095_82743_L_0		
61 D	11.70	0.000	233.9 116.9 233.9	116.9	V-C 3.2535E+04 -12.000 0.000 1.000 1.000
117.0	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
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Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
913 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      18:02:24                             |
+-----+

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New Project

STRESS RESULTS FOR GROUP NO. 3

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WallElement_33      :
ELEMENT TYPE      2 NO.OF ELEMENTS. IN THIS GROUP    60
CURRENT TIME IS    1.0000

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000
31	0.0000	0.0000	0.0000	0.0000
32	0.0000	0.0000	0.0000	0.0000
33	0.0000	0.0000	0.0000	0.0000
34	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000
36	0.0000	0.0000	0.0000	0.0000
37	0.0000	0.0000	0.0000	0.0000
38	0.0000	0.0000	0.0000	0.0000
39	0.0000	0.0000	0.0000	0.0000
40	0.0000	0.0000	0.0000	0.0000
41	0.0000	0.0000	0.0000	0.0000
42	0.0000	0.0000	0.0000	0.0000
43	0.0000	0.0000	0.0000	0.0000
44	0.0000	0.0000	0.0000	0.0000
45	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000
47	0.0000	0.0000	0.0000	0.0000
48	0.0000	0.0000	0.0000	0.0000
49	0.0000	0.0000	0.0000	0.0000
50	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	0.0000	0.0000
52	0.0000	0.0000	0.0000	0.0000
53	0.0000	0.0000	0.0000	0.0000
54	0.0000	0.0000	0.0000	0.0000
55	0.0000	0.0000	0.0000	0.0000
56	0.0000	0.0000	0.0000	0.0000
57	0.0000	0.0000	0.0000	0.0000
58	0.0000	0.0000	0.0000	0.0000
59	0.0000	0.0000	0.0000	0.0000
60	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
914 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :29 July 2019          18:02:24                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

CURRENT TIME IS 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2736E+05 RIMNOR= 0.000
            RENORM= 787.7      REMNOR= 0.000      RATIO =0.1697      TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 26.58      RMMAX = 0.000
            RTSMAL=0.1000E-03 RMSMAL= 0.000
            RDT  =0.2736E+05 RDR  = 0.000
            RATIOT=0.1697      RATIO= 0.000
            MAX UN= 3.831      IEQ=   15 NODE      8 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=0.2736E+05 RIMNOR= 0.000
            RENORM= 9.438      REMNOR=0.6185E-21 RATIO =0.1857E-01 TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 26.58      RMMAX = 0.000
            RTSMAL=0.1000E-03 RMSMAL= 0.000
            RDT  =0.2736E+05 RDR  = 0.000
            RATIOT=0.1857E-01 RATIO= 0.000
            MAX UN= 1.705      IEQ=    5 NODE      3 DOF   1  Y-DISPL.F
            MIN UN=-.9334E-10 IEQ=   41 NODE     21 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

```

```

ITER      3  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2736E+05 RIMNOR= 0.000
            RENORM= 1.231      REMNOR=0.1635E-21 RATIO =0.6708E-02 TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 26.58      RMMAX = 0.000
            RTSMAL=0.1000E-03 RMSMAL= 0.000
            RDT  =0.2736E+05 RDR  = 0.000
            RATIOT=0.6708E-02 RATIO= 0.000
            MAX UN=0.8541      IEQ=   19 NODE     10 DOF   1  Y-DISPL.F
            MIN UN=-.7552E-10 IEQ=   11 NODE      6 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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```

ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2736E+05 RIMNOR= 0.000
            RENORM=0.2267E-03 REMNOR=0.1414E-21 RATIO =0.9102E-04 TOLER =0.1000E-03  CONVERGED !
            RFMAX = 26.58      RMMAX = 0.000
            RTSMAL=0.1000E-03 RMSMAL= 0.000
            RDT  =0.2736E+05 RDR  = 0.000
            RATIOT=0.9102E-04 RATIO= 0.000
            MAX UN=0.1413E-01 IEQ=   53 NODE     27 DOF   1  Y-DISPL.F
            MIN UN=-.1059E-09 IEQ=   11 NODE      6 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INORLotto
12Codifica Documento
E E2 CL GA 2701 002Rev.
AFoglio
915 di 1221

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|          PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION   *Build date:Jul 11, 2017*   |
|                                                                    |
|                          NewProject.BaseDesignSection_28.Nominal_63   |
|                                                                    |
|          Exe Time :29 July 2019   18:02:24   |
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New Project

SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	4.3611515E-04	-6.0171801E-05	
2	4.2408328E-04	-6.0134417E-05	
3	4.1206731E-04	-6.0008036E-05	
4	4.0008710E-04	-5.9776078E-05	
5	3.8816480E-04	-5.9425300E-05	
6	3.7632575E-04	-5.8943019E-05	
7	3.6459683E-04	-5.8322300E-05	
8	3.5300624E-04	-5.7560371E-05	
9	3.4158186E-04	-5.6660667E-05	
10	3.3035052E-04	-5.5632887E-05	
11	3.1933612E-04	-5.4493989E-05	
12	3.0855882E-04	-5.3266561E-05	
13	2.9803346E-04	-5.1979558E-05	
14	2.8776864E-04	-5.0667946E-05	
15	2.7776547E-04	-4.9368578E-05	
16	2.6801820E-04	-4.8114306E-05	
17	2.5851499E-04	-4.6931332E-05	
18	2.4923963E-04	-4.5838940E-05	
19	2.4017258E-04	-4.4849135E-05	
20	2.3129283E-04	-4.3966507E-05	
21	2.2257898E-04	-4.3188740E-05	
22	2.1401097E-04	-4.2506496E-05	
23	2.0557108E-04	-4.1903821E-05	
24	1.9724565E-04	-4.1358044E-05	
25	1.8902597E-04	-4.0840721E-05	
26	1.8090975E-04	-4.0317510E-05	
27	1.7290210E-04	-3.9747817E-05	
28	1.6501687E-04	-3.9085052E-05	
29	1.5727779E-04	-3.8276691E-05	
30	1.4971983E-04	-3.7263728E-05	
31	1.4239028E-04	-3.5981017E-05	
32	1.3535016E-04	-3.4357871E-05	
33	1.2866886E-04	-3.2409287E-05	
34	1.2240174E-04	-3.0231289E-05	
35	1.1658613E-04	-2.7906486E-05	
36	1.1124426E-04	-2.5504953E-05	
37	1.0638538E-04	-2.3085344E-05	
38	1.0200814E-04	-2.0695792E-05	
39	9.8102474E-05	-1.8375090E-05	
40	9.4651468E-05	-1.6153924E-05	
41	9.1632693E-05	-1.4055922E-05	
42	8.9019751E-05	-1.2098142E-05	
43	8.6783327E-05	-1.0292004E-05	
44	8.4892405E-05	-8.6440347E-06	
45	8.3315014E-05	-7.1566688E-06	
46	8.2019109E-05	-5.8288418E-06	
47	8.0973079E-05	-4.6569881E-06	
48	8.0146290E-05	-3.6354930E-06	
49	7.9509354E-05	-2.7569128E-06	
50	7.9034593E-05	-2.0123452E-06	
51	7.8696149E-05	-1.3918111E-06	
52	7.8470314E-05	-8.8452369E-07	
53	7.8335540E-05	-4.7922709E-07	
54	7.8272611E-05	-1.6421336E-07	
55	7.8264605E-05	7.2047784E-08	
56	7.8296939E-05	2.4094505E-07	
57	7.8357252E-05	3.5388408E-07	
58	7.8435523E-05	4.2227657E-07	
59	7.8523949E-05	4.5745951E-07	
60	7.8617044E-05	4.7069423E-07	
61	7.8711511E-05	4.7311945E-07	



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 916 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      18:02:24                             |
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New Project

STRESS RESULTS FOR GROUP NO. 1

O_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	1.575	-4.3612E-04	51.80	15.75	51.80	27.45	ACTIVE	0.000	0.000	0.000	1.000	1.000
15.75	0.000	0.000	Stratol_2_8_L_0									
2 D	2.251	-4.2408E-04	37.03	11.26	37.03	19.62	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
11.26	0.000	0.000	Stratol_2_8_L_0									
3 D	2.118	-4.1207E-04	34.84	10.59	34.84	18.47	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
10.59	0.000	0.000	Stratol_2_8_L_0									
4 D	2.846	-4.0009E-04	46.80	14.23	46.80	24.81	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
14.23	0.000	0.000	Stratol_2_8_L_0									
5 D	2.830	-3.8816E-04	46.54	14.15	46.54	24.67	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
14.15	0.000	0.000	Stratol_2_8_L_0									
6 D	3.339	-3.7633E-04	54.92	16.70	54.92	29.11	ACTIVE	0.000	-1.000	0.000	1.000	1.000
16.70	0.000	0.000	Stratol_2_8_L_0									
7 D	3.390	-3.6460E-04	55.76	16.95	55.76	29.55	ACTIVE	0.000	-1.200	0.000	1.000	1.000
16.95	0.000	0.000	Stratol_2_8_L_0									
8 D	3.815	-3.5301E-04	62.75	19.07	62.75	33.25	ACTIVE	0.000	-1.400	0.000	1.000	1.000
19.07	0.000	0.000	Stratol_2_8_L_0									
9 D	3.864	-3.4158E-04	63.56	19.32	63.56	33.68	ACTIVE	0.000	-1.600	0.000	1.000	1.000
19.32	0.000	0.000	Stratol_2_8_L_0									
10 D	4.248	-3.3035E-04	69.87	21.24	69.87	37.03	ACTIVE	0.000	-1.800	0.000	1.000	1.000
21.24	0.000	0.000	Stratol_2_8_L_0									
11 D	4.367	-3.1934E-04	71.83	21.84	71.83	38.07	ACTIVE	0.000	-2.000	0.000	1.000	1.000
21.84	0.000	0.000	Stratol_2_8_L_0									
12 D	4.721	-3.0856E-04	77.65	23.61	77.65	41.16	ACTIVE	0.000	-2.200	0.000	1.000	1.000
23.61	0.000	0.000	Stratol_2_8_L_0									
13 D	4.857	-2.9803E-04	79.88	24.28	79.88	42.34	ACTIVE	0.000	-2.400	0.000	1.000	1.000
24.28	0.000	0.000	Stratol_2_8_L_0									
14 D	5.386	-2.8777E-04	85.38	26.93	85.38	45.25	UL-RL	6.3662E+04	-2.600	0.000	1.000	1.000
26.93	0.000	0.000	Stratol_2_8_L_0									
15 D	5.771	-2.7777E-04	87.81	28.86	87.81	46.54	UL-RL	6.3662E+04	-2.800	0.000	1.000	1.000
28.86	0.000	0.000	Stratol_2_8_L_0									
16 D	6.414	-2.6802E-04	92.70	32.07	92.70	49.13	UL-RL	6.3662E+04	-3.000	0.000	1.000	1.000
32.07	0.000	0.000	Stratol_2_8_L_0									
17 D	6.812	-2.5851E-04	95.31	34.06	95.31	50.52	UL-RL	6.3662E+04	-3.200	0.000	1.000	1.000
34.06	0.000	0.000	Stratol_2_8_L_0									
18 D	7.470	-2.4924E-04	100.4	37.35	100.4	53.22	UL-RL	6.3662E+04	-3.400	0.000	1.000	1.000
37.35	0.000	0.000	Stratol_2_8_L_0									
19 D	7.876	-2.4017E-04	103.1	39.38	103.1	54.67	UL-RL	6.3662E+04	-3.600	0.000	1.000	1.000
39.38	0.000	0.000	Stratol_2_8_L_0									
20 D	8.514	-2.3129E-04	108.1	42.57	108.1	57.30	UL-RL	6.3662E+04	-3.800	0.000	1.000	1.000
42.57	0.000	0.000	Stratol_2_8_L_0									
21 D	8.925	-2.2258E-04	110.9	44.63	110.9	58.80	UL-RL	6.3662E+04	-4.000	0.000	1.000	1.000
44.63	0.000	0.000	Stratol_2_8_L_0									
22 D	9.547	-2.1401E-04	115.8	47.74	115.8	61.36	UL-RL	6.3662E+04	-4.200	0.000	1.000	1.000
47.74	0.000	0.000	Stratol_2_8_L_0									
23 D	9.964	-2.0557E-04	118.7	49.82	118.7	62.91	UL-RL	6.3662E+04	-4.400	0.000	1.000	1.000
49.82	0.000	0.000	Stratol_2_8_L_0									
24 D	10.55	-1.9725E-04	123.2	52.73	123.2	65.29	UL-RL	6.3662E+04	-4.600	0.000	1.000	1.000
52.73	0.000	0.000	Stratol_2_8_L_0									
25 D	10.97	-1.8903E-04	126.2	54.84	126.2	66.88	UL-RL	6.3662E+04	-4.800	0.000	1.000	1.000
54.84	0.000	0.000	Stratol_2_8_L_0									
26 D	11.57	-1.8091E-04	130.9	57.84	130.9	69.36	UL-RL	6.3662E+04	-5.000	0.000	1.000	1.000
57.84	0.000	0.000	Stratol_2_8_L_0									
27 D	11.99	-1.7290E-04	133.9	59.97	133.9	70.97	UL-RL	6.3662E+04	-5.200	0.000	1.000	1.000
59.97	0.000	0.000	Stratol_2_8_L_0									
28 D	12.58	-1.6502E-04	138.5	62.91	138.5	73.42	UL-RL	6.3662E+04	-5.400	0.000	1.000	1.000
62.91	0.000	0.000	Stratol_2_8_L_0									
29 D	13.01	-1.5728E-04	141.6	65.05	141.6	75.06	UL-RL	6.3662E+04	-5.600	0.000	1.000	1.000
65.05	0.000	0.000	Stratol_2_8_L_0									
30 D	13.59	-1.4972E-04	146.2	67.94	146.2	77.47	UL-RL	6.3662E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 917 di 1221
67.94	0.000	0.000	Strato1_2_8_L_0		
31 D	13.99	-1.4239E-04	149.1 69.97	149.1	79.04
69.97	0.000	0.000	Strato1_2_8_L_0		
32 D	10.50	-1.3535E-04	153.7 52.49	153.7	76.87
52.49	0.000	0.000	Strato2_3095_82743_L_0		
33 D	11.08	-1.2867E-04	157.1 55.39	157.1	78.56
55.39	0.000	0.000	Strato2_3095_82743_L_0		
34 D	11.77	-1.2240E-04	161.8 58.85	161.8	80.89
58.85	0.000	0.000	Strato2_3095_82743_L_0		
35 D	12.32	-1.1659E-04	165.2 61.61	165.2	82.60
61.61	0.000	0.000	Strato2_3095_82743_L_0		
36 D	12.98	-1.1124E-04	169.8 64.88	169.8	84.92
64.88	0.000	0.000	Strato2_3095_82743_L_0		
37 D	13.50	-1.0639E-04	173.3 67.48	173.3	86.64
67.48	0.000	0.000	Strato2_3095_82743_L_0		
38 D	14.11	-1.0201E-04	177.9 70.56	177.9	88.94
70.56	0.000	0.000	Strato2_3095_82743_L_0		
39 D	14.59	-9.8102E-05	181.2 72.93	181.2	90.60
72.93	0.000	0.000	Strato2_3095_82743_L_0		
40 D	15.17	-9.4651E-05	185.8 75.83	185.8	92.88
75.83	0.000	0.000	Strato2_3095_82743_L_0		
41 D	15.63	-9.1633E-05	189.3 78.13	189.3	94.63
78.13	0.000	0.000	Strato2_3095_82743_L_0		
42 D	16.17	-8.9020E-05	193.8 80.87	193.8	96.90
80.87	0.000	0.000	Strato2_3095_82743_L_0		
43 D	16.61	-8.6783E-05	197.3 83.04	197.3	98.67
83.04	0.000	0.000	Strato2_3095_82743_L_0		
44 D	17.13	-8.4892E-05	201.8 85.63	201.8	100.9
85.63	0.000	0.000	Strato2_3095_82743_L_0		
45 D	17.54	-8.3315E-05	205.4 87.69	205.4	102.7
87.69	0.000	0.000	Strato2_3095_82743_L_0		
46 D	18.02	-8.2019E-05	209.7 90.10	209.7	104.9
90.10	0.000	0.000	Strato2_3095_82743_L_0		
47 D	18.41	-8.0973E-05	213.3 92.07	213.3	106.7
92.07	0.000	0.000	Strato2_3095_82743_L_0		
48 D	18.89	-8.0146E-05	217.8 94.46	217.8	108.9
94.46	0.000	0.000	Strato2_3095_82743_L_0		
49 D	19.27	-7.9509E-05	221.4 96.36	221.4	110.7
96.36	0.000	0.000	Strato2_3095_82743_L_0		
50 D	19.73	-7.9035E-05	225.8 98.67	225.8	112.9
98.67	0.000	0.000	Strato2_3095_82743_L_0		
51 D	20.11	-7.8696E-05	229.4 100.5	229.4	114.7
100.5	0.000	0.000	Strato2_3095_82743_L_0		
52 D	20.56	-7.8470E-05	233.8 102.8	233.8	116.9
102.8	0.000	0.000	Strato2_3095_82743_L_0		
53 D	20.92	-7.8336E-05	237.5 104.6	237.5	118.7
104.6	0.000	0.000	Strato2_3095_82743_L_0		
54 D	21.36	-7.8273E-05	241.8 106.8	241.8	120.9
106.8	0.000	0.000	Strato2_3095_82743_L_0		
55 D	21.72	-7.8265E-05	245.4 108.6	245.4	122.7
108.6	0.000	0.000	Strato2_3095_82743_L_0		
56 D	22.16	-7.8297E-05	249.8 110.8	249.8	124.9
110.8	0.000	0.000	Strato2_3095_82743_L_0		
57 D	22.52	-7.8357E-05	253.4 112.6	253.4	126.7
112.6	0.000	0.000	Strato2_3095_82743_L_0		
58 D	22.96	-7.8436E-05	257.8 114.8	257.8	128.9
114.8	0.000	0.000	Strato2_3095_82743_L_0		
59 D	23.32	-7.8524E-05	261.5 116.6	261.5	130.7
116.6	0.000	0.000	Strato2_3095_82743_L_0		
60 D	23.75	-7.8617E-05	265.8 118.8	265.8	132.9
118.8	0.000	0.000	Strato2_3095_82743_L_0		
61 D	12.05	-7.8712E-05	269.4 120.5	269.4	134.7
120.5	0.000	0.000	Strato2_3095_82743_L_0		



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 918 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :29 July 2019          18:02:24                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
 CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.000	4.3612E-04	0.000	0.000	0.000	0.000	PASSIVE	0.000	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Stratol_2_8_L_0									
2 D	1.652	4.2408E-04	3.800	8.259	3.800	8.259	V-C	1.4726E+04	-0.2000	0.000	1.000	1.000
8.259	0.000	0.000	Stratol_2_8_L_0									
3 D	2.019	4.1207E-04	7.600	10.10	7.600	10.10	V-C	1.4726E+04	-0.4000	0.000	1.000	1.000
10.10	0.000	0.000	Stratol_2_8_L_0									
4 D	2.387	4.0009E-04	11.40	11.93	11.40	11.93	V-C	1.4726E+04	-0.6000	0.000	1.000	1.000
11.93	0.000	0.000	Stratol_2_8_L_0									
5 D	2.754	3.8816E-04	15.20	13.77	15.20	13.77	V-C	1.4726E+04	-0.8000	0.000	1.000	1.000
13.77	0.000	0.000	Stratol_2_8_L_0									
6 D	3.122	3.7633E-04	19.00	15.61	19.00	15.61	V-C	1.4726E+04	-1.000	0.000	1.000	1.000
15.61	0.000	0.000	Stratol_2_8_L_0									
7 D	3.491	3.6460E-04	22.80	17.45	22.80	17.45	V-C	1.4726E+04	-1.200	0.000	1.000	1.000
17.45	0.000	0.000	Stratol_2_8_L_0									
8 D	3.859	3.5301E-04	26.60	19.30	26.60	19.30	V-C	1.4726E+04	-1.400	0.000	1.000	1.000
19.30	0.000	0.000	Stratol_2_8_L_0									
9 D	4.228	3.4158E-04	30.40	21.14	30.40	21.14	V-C	1.4726E+04	-1.600	0.000	1.000	1.000
21.14	0.000	0.000	Stratol_2_8_L_0									
10 D	4.598	3.3035E-04	34.20	22.99	34.20	22.99	V-C	1.4726E+04	-1.800	0.000	1.000	1.000
22.99	0.000	0.000	Stratol_2_8_L_0									
11 D	4.969	3.1934E-04	38.00	24.84	38.00	24.84	V-C	1.4726E+04	-2.000	0.000	1.000	1.000
24.84	0.000	0.000	Stratol_2_8_L_0									
12 D	5.340	3.0856E-04	41.80	26.70	41.80	26.70	V-C	1.4726E+04	-2.200	0.000	1.000	1.000
26.70	0.000	0.000	Stratol_2_8_L_0									
13 D	5.711	2.9803E-04	45.60	28.56	45.60	28.56	V-C	1.4726E+04	-2.400	0.000	1.000	1.000
28.56	0.000	0.000	Stratol_2_8_L_0									
14 D	6.084	2.8777E-04	49.40	30.42	49.40	30.42	V-C	1.4726E+04	-2.600	0.000	1.000	1.000
30.42	0.000	0.000	Stratol_2_8_L_0									
15 D	6.457	2.7777E-04	53.20	32.29	53.20	32.29	V-C	1.4726E+04	-2.800	0.000	1.000	1.000
32.29	0.000	0.000	Stratol_2_8_L_0									
16 D	6.831	2.6802E-04	57.00	34.16	57.00	34.16	V-C	1.4726E+04	-3.000	0.000	1.000	1.000
34.16	0.000	0.000	Stratol_2_8_L_0									
17 D	7.206	2.5851E-04	60.80	36.03	60.80	36.03	V-C	1.4726E+04	-3.200	0.000	1.000	1.000
36.03	0.000	0.000	Stratol_2_8_L_0									
18 D	7.582	2.4924E-04	64.60	37.91	64.60	37.91	V-C	1.4726E+04	-3.400	0.000	1.000	1.000
37.91	0.000	0.000	Stratol_2_8_L_0									
19 D	7.958	2.4017E-04	68.40	39.79	68.40	39.79	V-C	1.4726E+04	-3.600	0.000	1.000	1.000
39.79	0.000	0.000	Stratol_2_8_L_0									
20 D	8.334	2.3129E-04	72.20	41.67	72.20	41.67	V-C	1.4726E+04	-3.800	0.000	1.000	1.000
41.67	0.000	0.000	Stratol_2_8_L_0									
21 D	8.712	2.2258E-04	76.00	43.56	76.00	43.56	V-C	1.4726E+04	-4.000	0.000	1.000	1.000
43.56	0.000	0.000	Stratol_2_8_L_0									
22 D	9.089	2.1401E-04	79.80	45.45	79.80	45.45	V-C	1.4726E+04	-4.200	0.000	1.000	1.000
45.45	0.000	0.000	Stratol_2_8_L_0									
23 D	9.467	2.0557E-04	83.60	47.34	83.60	47.34	V-C	1.4726E+04	-4.400	0.000	1.000	1.000
47.34	0.000	0.000	Stratol_2_8_L_0									
24 D	9.845	1.9725E-04	87.40	49.23	87.40	49.23	V-C	1.4726E+04	-4.600	0.000	1.000	1.000
49.23	0.000	0.000	Stratol_2_8_L_0									
25 D	10.22	1.8903E-04	91.20	51.12	91.20	51.12	V-C	1.4726E+04	-4.800	0.000	1.000	1.000
51.12	0.000	0.000	Stratol_2_8_L_0									
26 D	10.60	1.8091E-04	95.00	53.01	95.00	53.01	V-C	1.4726E+04	-5.000	0.000	1.000	1.000
53.01	0.000	0.000	Stratol_2_8_L_0									
27 D	10.98	1.7290E-04	98.80	54.91	98.80	54.91	V-C	1.4726E+04	-5.200	0.000	1.000	1.000
54.91	0.000	0.000	Stratol_2_8_L_0									
28 D	11.36	1.6502E-04	102.6	56.81	102.6	56.81	V-C	1.4726E+04	-5.400	0.000	1.000	1.000
56.81	0.000	0.000	Stratol_2_8_L_0									
29 D	11.74	1.5728E-04	106.4	58.70	106.4	58.71	UL-RL	4.4178E+04	-5.600	0.000	1.000	1.000
58.70	0.000	0.000	Stratol_2_8_L_0									
30 D	12.11	1.4972E-04	110.2	60.57	110.2	60.63	UL-RL	4.4178E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 919 di 1221
60.57	0.000	0.000	Strato1_2_8_L_0		
31 D	12.49	1.4239E-04	114.0 62.45	114.0	62.55
62.45	0.000	0.000	Strato1_2_8_L_0		
32 D	12.63	1.3535E-04	117.9 63.17	117.9	63.44
63.17	0.000	0.000	Strato2_3095_82743_L_0		
33 D	12.99	1.2867E-04	121.9 64.93	121.9	65.24
64.93	0.000	0.000	Strato2_3095_82743_L_0		
34 D	13.34	1.2240E-04	125.9 66.71	125.9	67.04
66.71	0.000	0.000	Strato2_3095_82743_L_0		
35 D	13.70	1.1659E-04	129.9 68.51	129.9	68.86
68.51	0.000	0.000	Strato2_3095_82743_L_0		
36 D	14.07	1.1124E-04	133.9 70.33	133.9	70.69
70.33	0.000	0.000	Strato2_3095_82743_L_0		
37 D	14.44	1.0639E-04	137.9 72.18	137.9	72.53
72.18	0.000	0.000	Strato2_3095_82743_L_0		
38 D	14.81	1.0201E-04	141.9 74.04	141.9	74.38
74.04	0.000	0.000	Strato2_3095_82743_L_0		
39 D	15.18	9.8102E-05	145.9 75.92	145.9	76.25
75.92	0.000	0.000	Strato2_3095_82743_L_0		
40 D	15.56	9.4651E-05	149.9 77.82	149.9	78.13
77.82	0.000	0.000	Strato2_3095_82743_L_0		
41 D	15.95	9.1633E-05	153.9 79.74	153.9	80.03
79.74	0.000	0.000	Strato2_3095_82743_L_0		
42 D	16.33	8.9020E-05	157.9 81.67	157.9	81.94
81.67	0.000	0.000	Strato2_3095_82743_L_0		
43 D	16.72	8.6783E-05	161.9 83.61	161.9	83.85
83.61	0.000	0.000	Strato2_3095_82743_L_0		
44 D	17.11	8.4892E-05	165.9 85.57	165.9	85.78
85.57	0.000	0.000	Strato2_3095_82743_L_0		
45 D	17.51	8.3315E-05	169.9 87.53	169.9	87.73
87.53	0.000	0.000	Strato2_3095_82743_L_0		
46 D	17.90	8.2019E-05	173.9 89.51	173.9	89.68
89.51	0.000	0.000	Strato2_3095_82743_L_0		
47 D	18.30	8.0973E-05	177.9 91.49	177.9	91.63
91.49	0.000	0.000	Strato2_3095_82743_L_0		
48 D	18.69	8.0146E-05	181.9 93.47	181.9	93.60
93.47	0.000	0.000	Strato2_3095_82743_L_0		
49 D	19.09	7.9509E-05	185.9 95.47	185.9	95.57
95.47	0.000	0.000	Strato2_3095_82743_L_0		
50 D	19.49	7.9035E-05	189.9 97.47	189.9	97.55
97.47	0.000	0.000	Strato2_3095_82743_L_0		
51 D	19.89	7.8696E-05	193.9 99.47	193.9	99.53
99.47	0.000	0.000	Strato2_3095_82743_L_0		
52 D	20.29	7.8470E-05	197.9 101.5	197.9	101.5
101.5	0.000	0.000	Strato2_3095_82743_L_0		
53 D	20.70	7.8336E-05	201.9 103.5	201.9	103.5
103.5	0.000	0.000	Strato2_3095_82743_L_0		
54 D	21.10	7.8273E-05	205.9 105.5	205.9	105.5
105.5	0.000	0.000	Strato2_3095_82743_L_0		
55 D	21.50	7.8265E-05	209.9 107.5	209.9	107.5
107.5	0.000	0.000	Strato2_3095_82743_L_0		
56 D	21.90	7.8297E-05	213.9 109.5	213.9	109.5
109.5	0.000	0.000	Strato2_3095_82743_L_0		
57 D	22.30	7.8357E-05	217.9 111.5	217.9	111.5
111.5	0.000	0.000	Strato2_3095_82743_L_0		
58 D	22.70	7.8436E-05	221.9 113.5	221.9	113.5
113.5	0.000	0.000	Strato2_3095_82743_L_0		
59 D	23.10	7.8524E-05	225.9 115.5	225.9	115.5
115.5	0.000	0.000	Strato2_3095_82743_L_0		
60 D	23.50	7.8617E-05	229.9 117.5	229.9	117.5
117.5	0.000	0.000	Strato2_3095_82743_L_0		
61 D	11.95	7.8712E-05	233.9 119.5	233.9	119.5
119.5	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 920 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      18:02:24                             |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60
 CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.5747	-1.5747	-2.07478E-12	0.31494
2	2.1741	-2.1741	-0.31494	0.74976
3	2.2731	-2.2731	-0.74976	1.2044
4	2.7320	-2.7320	-1.2044	1.7508
5	2.8072	-2.8072	-1.7508	2.3122
6	3.0242	-3.0242	-2.3122	2.9171
7	2.9239	-2.9239	-2.9171	3.5018
8	2.8795	-2.8795	-3.5018	4.0777
9	2.5153	-2.5153	-4.0777	4.5808
10	2.1653	-2.1653	-4.5808	5.0139
11	1.5639	-1.5639	-5.0139	5.3266
12	0.94557	-0.94557	-5.3266	5.5157
13	9.10382E-02	-9.10382E-02	-5.5157	5.5339
14	-0.60680	0.60680	-5.5339	5.4126
15	-1.2927	1.2927	-5.4126	5.1540
16	-1.7105	1.7105	-5.1540	4.8119
17	-2.1050	2.1050	-4.8119	4.3909
18	-2.2162	2.2162	-4.3909	3.9477
19	-2.2984	2.2984	-3.9477	3.4880
20	-2.1186	2.1186	-3.4880	3.0643
21	-1.9050	1.9050	-3.0643	2.6833
22	-1.4467	1.4467	-2.6833	2.3940
23	-0.95005	0.95005	-2.3940	2.2039
24	-0.24844	0.24844	-2.2039	2.1543
25	0.49643	-0.49643	-2.1543	2.2535
26	1.4616	-1.4616	-2.2535	2.5459
27	2.4587	-2.4587	-2.5459	3.0376
28	3.6742	-3.6742	-3.0376	3.7724
29	4.9442	-4.9442	-3.7724	4.7613
30	6.4182	-6.4182	-4.7613	6.0449
31	7.9222	-7.9222	-6.0449	7.6294
32	5.7858	-5.7858	-7.6294	8.7865
33	3.8777	-3.8777	-8.7865	9.5621
34	2.3061	-2.3061	-9.5621	10.023
35	0.92595	-0.92595	-10.023	10.208
36	-0.16402	0.16402	-10.208	10.176
37	-1.1026	1.1026	-10.176	9.9551
38	-1.7975	1.7975	-9.9551	9.5956
39	-2.3953	2.3953	-9.5956	9.1166
40	-2.7927	2.7927	-9.1166	8.5581
41	-3.1138	3.1138	-8.5581	7.9353
42	-3.2737	3.2737	-7.9353	7.2805
43	-3.3887	3.3887	-7.2805	6.6028
44	-3.3760	3.3760	-6.6028	5.9276
45	-3.3445	3.3445	-5.9276	5.2587
46	-3.2255	3.2255	-5.2587	4.6136
47	-3.1080	3.1080	-4.6136	3.9920
48	-2.9119	2.9119	-3.9920	3.4096
49	-2.7329	2.7329	-3.4096	2.8630
50	-2.4919	2.4919	-2.8630	2.3647
51	-2.2788	2.2788	-2.3647	1.9089
52	-2.0160	2.0160	-1.9089	1.5057
53	-1.7879	1.7879	-1.5057	1.1481
54	-1.5293	1.5293	-1.1481	0.84226
55	-1.3082	1.3082	-0.84226	0.58062
56	-1.0489	1.0489	-0.58062	0.37084
57	-0.82753	0.82753	-0.37084	0.20533
58	-0.57134	0.57134	-0.20533	9.10657E-02
59	-0.35318	0.35318	-9.10657E-02	2.04303E-02
60	-0.10215	0.10215	-2.04303E-02	7.22755E-14

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 921 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
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|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019  18:02:24          |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 CURRENT TIME IS 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER 0 RNORM = 0.000  RMNORM= 0.000
      RINORM=0.2088E+05 RIMNOR= 3223.
      RENORM= 564.3  REMNOR=0.1414E-21 RATIO =0.1644  TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 23.75  RMMAX = 10.21
      RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
      RDT =0.2088E+05 RDR = 3223.
      RATIOT=0.1644  RATIOR= 0.000
      MAX UN= 6.457  IEQ= 29 NODE 15 DOF 1 Y-DISPL.F
      MIN UN=-.5436E-10 IEQ= 49 NODE 25 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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ITER 2 RNORM = 0.000  RMNORM= 0.000
      RINORM=0.2088E+05 RIMNOR= 3223.
      RENORM= 224.3  REMNOR=0.6370E-19 RATIO =0.1036  TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 23.75  RMMAX = 10.21
      RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
      RDT =0.2088E+05 RDR = 3223.
      RATIOT=0.1036  RATIOR= 0.000
      MAX UN= 7.542  IEQ= 27 NODE 14 DOF 1 Y-DISPL.F
      MIN UN=-.1057E-08 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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ITER 3 RNORM = 0.000  RMNORM= 0.000
      RINORM=0.2088E+05 RIMNOR= 3223.
      RENORM= 28.87  REMNOR=0.5980E-19 RATIO =0.3719E-01 TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 23.75  RMMAX = 10.21
      RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
      RDT =0.2088E+05 RDR = 3223.
      RATIOT=0.3719E-01 RATIOR= 0.000
      MAX UN= 3.701  IEQ= 49 NODE 25 DOF 1 Y-DISPL.F
      MIN UN=-.1951E-08 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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ITER 4 RNORM = 0.000  RMNORM= 0.000
      RINORM=0.2088E+05 RIMNOR= 3223.
      RENORM=0.7112  REMNOR=0.2280E-19 RATIO =0.5837E-02 TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 23.75  RMMAX = 10.21
      RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
      RDT =0.2088E+05 RDR = 3223.
      RATIOT=0.5837E-02 RATIOR= 0.000
      MAX UN=0.7996  IEQ= 65 NODE 33 DOF 1 Y-DISPL.F
      MIN UN=-.1434E-08 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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ITER 5 RNORM = 0.000  RMNORM= 0.000
      RINORM=0.2088E+05 RIMNOR= 3223.
      RENORM=0.5718E-17 REMNOR=0.2415E-19 RATIO =0.1655E-10 TOLER =0.1000E-03 CONVERGED !
      RFMAX = 23.75  RMMAX = 10.21
      RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
      RDT =0.2088E+05 RDR = 3223.
      RATIOT=0.1655E-10 RATIOR= 0.000
      MAX UN=0.1056E-08 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
      MIN UN=-.6797E-09 IEQ= 39 NODE 20 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
922 di 1221

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|          PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017* |
|                                                                    |
|                               NewProject.BaseDesignSection_28.Nominal_63 |
|                               Exe Time :29 July 2019       18:02:25 |
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New Project

SOLUTION REACHED USING 5 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	6.6899239E-03	-1.1249299E-03	
2	6.4649404E-03	-1.1248925E-03	
3	6.2399754E-03	-1.1247269E-03	
4	6.0150651E-03	-1.1243294E-03	
5	5.7902670E-03	-1.1235821E-03	
6	5.5656646E-03	-1.1223502E-03	
7	5.3413690E-03	-1.1204874E-03	
8	5.1175223E-03	-1.1178338E-03	
9	4.8942996E-03	-1.1142185E-03	
10	4.6719112E-03	-1.1094590E-03	
11	4.4506051E-03	-1.1033629E-03	
12	4.2306688E-03	-1.0957256E-03	
13	4.0124320E-03	-1.0863312E-03	
14	3.7962686E-03	-1.0749526E-03	
15	3.5825991E-03	-1.0613510E-03	
16	3.3718931E-03	-1.0452765E-03	
17	3.1646683E-03	-1.0265051E-03	
18	2.9614792E-03	-1.0049111E-03	
19	2.7628914E-03	-9.8050373E-04	
20	2.5694557E-03	-9.5342658E-04	
21	2.3816844E-03	-9.2389542E-04	
22	2.2000465E-03	-8.9212890E-04	
23	2.0249675E-03	-8.5834229E-04	
24	1.8568301E-03	-8.2274780E-04	
25	1.6959749E-03	-7.8555542E-04	
26	1.5427006E-03	-7.4697326E-04	
27	1.3972652E-03	-7.0720795E-04	
28	1.2598834E-03	-6.6646415E-04	
29	1.1307312E-03	-6.2494638E-04	
30	1.0099429E-03	-5.8285859E-04	
31	8.9761238E-04	-5.4040095E-04	
32	7.9379574E-04	-4.9775227E-04	
33	6.9850349E-04	-4.5523125E-04	
34	6.1166300E-04	-4.1331373E-04	
35	5.3310741E-04	-3.7245493E-04	
36	4.6258372E-04	-3.3305580E-04	
37	3.9976630E-04	-2.9544316E-04	
38	3.4427089E-04	-2.5986881E-04	
39	2.9567062E-04	-2.2651688E-04	
40	2.5350770E-04	-1.9551151E-04	
41	2.1730477E-04	-1.6692479E-04	
42	1.8657475E-04	-1.4078353E-04	
43	1.6082911E-04	-1.1707594E-04	
44	1.3958510E-04	-9.5757583E-05	
45	1.2237164E-04	-7.6757052E-05	
46	1.0873410E-04	-5.9980481E-05	
47	9.8238582E-05	-4.5316873E-05	
48	9.0474798E-05	-3.2641545E-05	
49	8.5058421E-05	-2.1819370E-05	
50	8.1633030E-05	-1.2707723E-05	
51	7.9871165E-05	-5.1588524E-06	
52	7.9475344E-05	9.7790104E-07	
53	8.0178204E-05	5.8537124E-06	
54	8.1742878E-05	9.6206719E-06	
55	8.3962514E-05	1.2428251E-05	
56	8.6660036E-05	1.4423697E-05	
57	8.9687475E-05	1.5751383E-05	
58	9.2925478E-05	1.6552404E-05	
59	9.6282491E-05	1.6964236E-05	
60	9.9694140E-05	1.7120583E-05	
61	1.0312252E-04	1.7151253E-05	



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 923 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      18:02:25                             |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	1.575	-6.6899E-03	51.80	15.75	51.80	27.45	ACTIVE	0.000	0.000	0.000	1.000	1.000
15.75	0.000	0.000	Stratol_2_8_L_0									
2 D	2.251	-6.4649E-03	37.03	11.26	37.03	19.62	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
11.26	0.000	0.000	Stratol_2_8_L_0									
3 D	2.118	-6.2400E-03	34.84	10.59	34.84	18.47	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
10.59	0.000	0.000	Stratol_2_8_L_0									
4 D	2.846	-6.0151E-03	46.80	14.23	46.80	24.81	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
14.23	0.000	0.000	Stratol_2_8_L_0									
5 D	2.830	-5.7903E-03	46.54	14.15	46.54	24.67	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
14.15	0.000	0.000	Stratol_2_8_L_0									
6 D	3.339	-5.5657E-03	54.92	16.70	54.92	29.11	ACTIVE	0.000	-1.000	0.000	1.000	1.000
16.70	0.000	0.000	Stratol_2_8_L_0									
7 D	3.390	-5.3414E-03	55.76	16.95	55.76	29.55	ACTIVE	0.000	-1.200	0.000	1.000	1.000
16.95	0.000	0.000	Stratol_2_8_L_0									
8 D	3.815	-5.1175E-03	62.75	19.07	62.75	33.25	ACTIVE	0.000	-1.400	0.000	1.000	1.000
19.07	0.000	0.000	Stratol_2_8_L_0									
9 D	3.864	-4.8943E-03	63.56	19.32	63.56	33.68	ACTIVE	0.000	-1.600	0.000	1.000	1.000
19.32	0.000	0.000	Stratol_2_8_L_0									
10 D	4.248	-4.6719E-03	69.87	21.24	69.87	37.03	ACTIVE	0.000	-1.800	0.000	1.000	1.000
21.24	0.000	0.000	Stratol_2_8_L_0									
11 D	4.367	-4.4506E-03	71.83	21.84	71.83	38.07	ACTIVE	0.000	-2.000	0.000	1.000	1.000
21.84	0.000	0.000	Stratol_2_8_L_0									
12 D	4.721	-4.2307E-03	77.65	23.61	77.65	41.16	ACTIVE	0.000	-2.200	0.000	1.000	1.000
23.61	0.000	0.000	Stratol_2_8_L_0									
13 D	4.857	-4.0124E-03	79.88	24.28	79.88	42.34	ACTIVE	0.000	-2.400	0.000	1.000	1.000
24.28	0.000	0.000	Stratol_2_8_L_0									
14 D	5.191	-3.7963E-03	85.38	25.96	85.38	45.25	ACTIVE	0.000	-2.600	0.000	1.000	1.000
25.96	0.000	0.000	Stratol_2_8_L_0									
15 D	5.339	-3.5826E-03	87.81	26.69	87.81	46.54	ACTIVE	0.000	-2.800	0.000	1.000	1.000
26.69	0.000	0.000	Stratol_2_8_L_0									
16 D	5.636	-3.3719E-03	92.70	28.18	92.70	49.13	ACTIVE	0.000	-3.000	0.000	1.000	1.000
28.18	0.000	0.000	Stratol_2_8_L_0									
17 D	5.795	-3.1647E-03	95.31	28.98	95.31	50.52	ACTIVE	0.000	-3.200	0.000	1.000	1.000
28.98	0.000	0.000	Stratol_2_8_L_0									
18 D	6.105	-2.9615E-03	100.4	30.53	100.4	53.22	ACTIVE	0.000	-3.400	0.000	1.000	1.000
30.53	0.000	0.000	Stratol_2_8_L_0									
19 D	6.271	-2.7629E-03	103.1	31.36	103.1	54.67	ACTIVE	0.000	-3.600	0.000	1.000	1.000
31.36	0.000	0.000	Stratol_2_8_L_0									
20 D	6.573	-2.5695E-03	108.1	32.86	108.1	57.30	ACTIVE	0.000	-3.800	0.000	1.000	1.000
32.86	0.000	0.000	Stratol_2_8_L_0									
21 D	6.745	-2.3817E-03	110.9	33.72	110.9	58.80	ACTIVE	0.000	-4.000	0.000	1.000	1.000
33.72	0.000	0.000	Stratol_2_8_L_0									
22 D	7.039	-2.2000E-03	115.8	35.20	115.8	61.36	ACTIVE	0.000	-4.200	0.000	1.000	1.000
35.20	0.000	0.000	Stratol_2_8_L_0									
23 D	7.216	-2.0250E-03	118.7	36.08	118.7	62.91	ACTIVE	0.000	-4.400	0.000	1.000	1.000
36.08	0.000	0.000	Stratol_2_8_L_0									
24 D	7.490	-1.8568E-03	123.2	37.45	123.2	65.29	ACTIVE	0.000	-4.600	0.000	1.000	1.000
37.45	0.000	0.000	Stratol_2_8_L_0									
25 D	7.672	-1.6960E-03	126.2	38.36	126.2	66.88	ACTIVE	0.000	-4.800	0.000	1.000	1.000
38.36	0.000	0.000	Stratol_2_8_L_0									
26 D	7.956	-1.5427E-03	130.9	39.78	130.9	69.36	ACTIVE	0.000	-5.000	0.000	1.000	1.000
39.78	0.000	0.000	Stratol_2_8_L_0									
27 D	8.142	-1.3973E-03	133.9	40.71	133.9	70.97	ACTIVE	0.000	-5.200	0.000	1.000	1.000
40.71	0.000	0.000	Stratol_2_8_L_0									
28 D	8.422	-1.2599E-03	138.5	42.11	138.5	73.42	ACTIVE	0.000	-5.400	0.000	1.000	1.000
42.11	0.000	0.000	Stratol_2_8_L_0									
29 D	8.611	-1.1307E-03	141.6	43.05	141.6	75.06	ACTIVE	0.000	-5.600	0.000	1.000	1.000
43.05	0.000	0.000	Stratol_2_8_L_0									
30 D	9.056	-1.0099E-03	146.2	45.28	146.2	77.47	UL-RL	2.6343E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 924 di 1221
45.28	0.000	0.000	Strato1_2_8_L_0		
31 D	10.02	-8.9761E-04	149.1 50.08	149.1	79.04
50.08	0.000	0.000	Strato1_2_8_L_0		
32 D	3.347	-7.9380E-04	153.7 16.74	153.7	76.87
16.74	0.000	0.000	Strato2_3095_82743_L_0		
33 D	3.507	-6.9850E-04	157.1 17.53	157.1	78.56
17.53	0.000	0.000	Strato2_3095_82743_L_0		
34 D	4.478	-6.1166E-04	161.8 22.39	161.8	80.89
22.39	0.000	0.000	Strato2_3095_82743_L_0		
35 D	6.114	-5.3311E-04	165.2 30.57	165.2	82.60
30.57	0.000	0.000	Strato2_3095_82743_L_0		
36 D	7.740	-4.6258E-04	169.8 38.70	169.8	84.92
38.70	0.000	0.000	Strato2_3095_82743_L_0		
37 D	9.124	-3.9977E-04	173.3 45.62	173.3	86.64
45.62	0.000	0.000	Strato2_3095_82743_L_0		
38 D	10.50	-3.4427E-04	177.9 52.51	177.9	88.94
52.51	0.000	0.000	Strato2_3095_82743_L_0		
39 D	11.64	-2.9567E-04	181.2 58.21	181.2	90.60
58.21	0.000	0.000	Strato2_3095_82743_L_0		
40 D	12.80	-2.5351E-04	185.8 64.00	185.8	92.88
64.00	0.000	0.000	Strato2_3095_82743_L_0		
41 D	13.75	-2.1730E-04	189.3 68.77	189.3	94.63
68.77	0.000	0.000	Strato2_3095_82743_L_0		
42 D	14.72	-1.8657E-04	193.8 73.60	193.8	96.90
73.60	0.000	0.000	Strato2_3095_82743_L_0		
43 D	15.50	-1.6083E-04	197.3 77.52	197.3	98.67
77.52	0.000	0.000	Strato2_3095_82743_L_0		
44 D	16.31	-1.3959E-04	201.8 81.55	201.8	100.9
81.55	0.000	0.000	Strato2_3095_82743_L_0		
45 D	16.96	-1.2237E-04	205.4 84.78	205.4	102.7
84.78	0.000	0.000	Strato2_3095_82743_L_0		
46 D	17.62	-1.0873E-04	209.7 88.11	209.7	104.9
88.11	0.000	0.000	Strato2_3095_82743_L_0		
47 D	18.16	-9.8239E-05	213.3 90.79	213.3	106.7
90.79	0.000	0.000	Strato2_3095_82743_L_0		
48 D	18.74	-9.0475E-05	217.8 93.69	217.8	108.9
93.69	0.000	0.000	Strato2_3095_82743_L_0		
49 D	19.19	-8.5058E-05	221.4 95.95	221.4	110.7
95.95	0.000	0.000	Strato2_3095_82743_L_0		
50 D	19.70	-8.1633E-05	225.8 98.48	225.8	112.9
98.48	0.000	0.000	Strato2_3095_82743_L_0		
51 D	20.09	-7.9871E-05	229.4 100.4	229.4	114.7
100.4	0.000	0.000	Strato2_3095_82743_L_0		
52 D	20.54	-7.9475E-05	233.8 102.7	233.8	116.9
102.7	0.000	0.000	Strato2_3095_82743_L_0		
53 D	20.90	-8.0178E-05	237.5 104.5	237.5	118.7
104.5	0.000	0.000	Strato2_3095_82743_L_0		
54 D	21.31	-8.1743E-05	241.8 106.5	241.8	120.9
106.5	0.000	0.000	Strato2_3095_82743_L_0		
55 D	21.64	-8.3963E-05	245.4 108.2	245.4	122.7
108.2	0.000	0.000	Strato2_3095_82743_L_0		
56 D	22.03	-8.6660E-05	249.8 110.2	249.8	124.9
110.2	0.000	0.000	Strato2_3095_82743_L_0		
57 D	22.35	-8.9687E-05	253.4 111.8	253.4	126.7
111.8	0.000	0.000	Strato2_3095_82743_L_0		
58 D	22.74	-9.2925E-05	257.8 113.7	257.8	128.9
113.7	0.000	0.000	Strato2_3095_82743_L_0		
59 D	23.05	-9.6282E-05	261.5 115.3	261.5	130.7
115.3	0.000	0.000	Strato2_3095_82743_L_0		
60 D	23.44	-9.9694E-05	265.8 117.2	265.8	132.9
117.2	0.000	0.000	Strato2_3095_82743_L_0		
61 D	11.87	-1.0312E-04	269.4 118.7	269.4	134.7
118.7	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :29 July 2019          18:02:25                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
 CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 926 di 1221
41 D	13.90	2.1730E-04	98.80	69.52	153.9
69.52	0.000	0.000	Strato2_3095_82743_L_0		
42 D	14.07	1.8657E-04	102.8	70.36	157.9
70.36	0.000	0.000	Strato2_3095_82743_L_0		
43 D	14.28	1.6083E-04	106.8	71.40	161.9
71.40	0.000	0.000	Strato2_3095_82743_L_0		
44 D	14.52	1.3959E-04	110.8	72.61	165.9
72.61	0.000	0.000	Strato2_3095_82743_L_0		
45 D	14.80	1.2237E-04	114.8	73.99	169.9
73.99	0.000	0.000	Strato2_3095_82743_L_0		
46 D	15.10	1.0873E-04	118.8	75.50	173.9
75.50	0.000	0.000	Strato2_3095_82743_L_0		
47 D	15.43	9.8239E-05	122.8	77.14	177.9
77.14	0.000	0.000	Strato2_3095_82743_L_0		
48 D	15.78	9.0475E-05	126.8	78.88	181.9
78.88	0.000	0.000	Strato2_3095_82743_L_0		
49 D	16.14	8.5058E-05	130.8	80.71	185.9
80.71	0.000	0.000	Strato2_3095_82743_L_0		
50 D	16.52	8.1633E-05	134.8	82.62	189.9
82.62	0.000	0.000	Strato2_3095_82743_L_0		
51 D	16.92	7.9871E-05	138.8	84.59	193.9
84.59	0.000	0.000	Strato2_3095_82743_L_0		
52 D	17.32	7.9475E-05	142.8	86.62	197.9
86.62	0.000	0.000	Strato2_3095_82743_L_0		
53 D	17.74	8.0178E-05	146.8	88.69	201.9
88.69	0.000	0.000	Strato2_3095_82743_L_0		
54 D	18.16	8.1743E-05	150.8	90.79	205.9
90.79	0.000	0.000	Strato2_3095_82743_L_0		
55 D	18.58	8.3963E-05	154.8	92.90	209.9
92.90	0.000	0.000	Strato2_3095_82743_L_0		
56 D	19.01	8.6660E-05	158.8	95.04	213.9
95.04	0.000	0.000	Strato2_3095_82743_L_0		
57 D	19.44	8.9687E-05	162.8	97.18	217.9
97.18	0.000	0.000	Strato2_3095_82743_L_0		
58 D	19.87	9.2925E-05	166.8	99.33	221.9
99.33	0.000	0.000	Strato2_3095_82743_L_0		
59 D	20.30	9.6282E-05	170.8	101.5	225.9
101.5	0.000	0.000	Strato2_3095_82743_L_0		
60 D	20.73	9.9694E-05	174.8	103.6	229.9
103.6	0.000	0.000	Strato2_3095_82743_L_0		
61 D	10.58	1.0312E-04	178.8	105.8	233.9
105.8	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*
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|
|          NewProject.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      18:02:25
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60
CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.5747	-1.5747	5.70353E-11	0.31494
2	3.8259	-3.8259	-0.31494	1.0801
3	5.9441	-5.9441	-1.0801	2.2689
4	8.7898	-8.7898	-2.2689	4.0269
5	11.619	-11.619	-4.0269	6.3508
6	14.959	-14.959	-6.3508	9.3425
7	18.349	-18.349	-9.3425	13.012
8	22.164	-22.164	-13.012	17.445
9	26.028	-26.028	-17.445	22.651
10	30.276	-30.276	-22.651	28.706
11	34.643	-34.643	-28.706	35.635
12	39.365	-39.365	-35.635	43.508
13	44.222	-44.222	-43.508	52.352
14	49.413	-49.413	-52.352	62.235
15	54.752	-54.752	-62.235	73.185
16	58.852	-58.852	-73.185	84.955
17	60.040	-60.040	-84.955	96.963
18	58.468	-58.468	-96.963	108.66
19	53.990	-53.990	-108.66	119.45
20	49.379	-49.379	-119.45	129.33

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 927 di 1221
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21	44.781	-44.781	-129.33	138.29
22	40.310	-40.310	-138.29	146.35
23	35.842	-35.842	-146.35	153.52
24	31.465	-31.465	-153.52	159.81
25	27.076	-27.076	-159.81	165.23
26	22.770	-22.770	-165.23	169.78
27	18.438	-18.438	-169.78	173.47
28	14.164	-14.164	-173.47	176.30
29	9.8467	-9.8467	-176.30	178.27
30	5.7321	-5.7321	-178.27	179.42
31	2.3240	-2.3240	-179.42	179.88
32	-7.7105	7.7105	-179.88	178.34
33	-17.710	17.710	-178.34	174.80
34	-26.886	26.886	-174.80	169.42
35	-34.599	34.599	-169.42	162.50
36	-40.645	40.645	-162.50	154.37
37	-45.222	45.222	-154.37	145.33
38	-48.392	48.392	-145.33	135.65
39	-50.450	50.450	-135.65	125.56
40	-51.430	51.430	-125.56	115.27
41	-51.580	51.580	-115.27	104.96
42	-50.932	50.932	-104.96	94.769
43	-49.708	49.708	-94.769	84.828
44	-47.921	47.921	-84.828	75.243
45	-45.763	45.763	-75.243	66.091
46	-43.241	43.241	-66.091	57.443
47	-40.511	40.511	-57.443	49.341
48	-37.549	37.549	-49.341	41.831
49	-34.501	34.501	-41.831	34.931
50	-31.329	31.329	-34.931	28.665
51	-28.158	28.158	-28.665	23.033
52	-24.939	24.939	-23.033	18.045
53	-21.780	21.780	-18.045	13.689
54	-18.632	18.632	-13.689	9.9631
55	-15.577	15.577	-9.9631	6.8476
56	-12.550	12.550	-6.8476	4.3375
57	-9.6340	9.6340	-4.3375	2.4107
58	-6.7596	6.7596	-2.4107	1.0588
59	-4.0021	4.0021	-1.0588	0.25836
60	-1.2917	1.2917	-0.25836	4.23994E-13

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019  18:02:25                               |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER 0 RNORM = 0.000  RMNORM= 0.000
      RINORM=0.1720E+06 RIMNOR=0.1275E+07
      RENORM= 8234.  REMNOR=0.2415E-19 RATIO =0.2188  TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 90.74  RMMAX = 179.9
      RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
      RDT =0.1720E+06 RDR =0.1275E+07
      RATIOT=0.2188  RATIO= 0.000
      MAX UN=0.1056E-08 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
      MIN UN=-90.74 IEQ= 25 NODE 13 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 2 RNORM = 0.000  RMNORM= 0.000
      RINORM=0.1720E+06 RIMNOR=0.1275E+07
      RENORM= 7.076  REMNOR=0.2471E-19 RATIO =0.6415E-02 TOLER =0.1000E-03 NOT CONVERGED
      RFMAX = 90.74  RMMAX = 179.9
      RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
      RDT =0.1720E+06 RDR =0.1275E+07
      RATIOT=0.6415E-02 RATIO= 0.000

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 928 di 1221
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MAX UN=0.1053E-08 IEQ= 25 NODE 13 DOF 1 Y-DISPL.F
 MIN UN=-1.392 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1720E+06 RIMNOR=0.1275E+07
 RENORM=0.1179 REMNOR=0.4187E-19 RATIO =0.8281E-03 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 179.9
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1720E+06 RDR =0.1275E+07
 RATIOT=0.8281E-03 RATIO= 0.000
 MAX UN=0.9759E-09 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
 MIN UN=-.3370 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1720E+06 RIMNOR=0.1275E+07
 RENORM=0.9106E-17 REMNOR=0.2291E-19 RATIO =0.7277E-11 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 90.74 RMMAX = 179.9
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1720E+06 RDR =0.1275E+07
 RATIOT=0.7277E-11 RATIO= 0.000
 MAX UN=0.1244E-08 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F
 MIN UN=-.9754E-09 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019  18:02:25                               |
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New Project
 SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 4 (AT TIME 4.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	5.7401910E-03	-1.0144992E-03	
2	5.5372962E-03	-1.0144234E-03	
3	5.3344397E-03	-1.0140777E-03	
4	5.1316986E-03	-1.0132304E-03	
5	4.9291977E-03	-1.0116306E-03	
6	4.7271148E-03	-1.0090042E-03	
7	4.5256838E-03	-1.0050611E-03	
8	4.3251986E-03	-9.9949364E-04	
9	4.1260161E-03	-9.9197877E-04	
10	3.9285595E-03	-9.8217882E-04	
11	3.7333204E-03	-9.6974272E-04	
12	3.5408626E-03	-9.5430369E-04	
13	3.3518245E-03	-9.3548035E-04	
14	3.1667787E-03	-9.1503256E-04	
15	2.9858028E-03	-8.9471459E-04	
16	2.8089111E-03	-8.7412306E-04	
17	2.6361987E-03	-8.528510E-04	
18	2.4678370E-03	-8.3056906E-04	
19	2.3040528E-03	-8.0705751E-04	
20	2.1450996E-03	-7.8226227E-04	
21	1.9912315E-03	-7.5621199E-04	
22	1.8426954E-03	-7.2895265E-04	
23	1.6997273E-03	-7.0054112E-04	
24	1.5625512E-03	-6.7104494E-04	
25	1.4313764E-03	-6.4054288E-04	
26	1.3063951E-03	-6.0912462E-04	
27	1.1877815E-03	-5.7689062E-04	
28	1.0756865E-03	-5.4395116E-04	
29	9.7023998E-04	-5.1042732E-04	
30	8.7154583E-04	-4.7645001E-04	
31	7.7968109E-04	-4.4215609E-04	
32	6.9469663E-04	-4.0767000E-04	
33	6.1661035E-04	-3.7323148E-04	
34	5.4537573E-04	-3.3921757E-04	
35	4.8087005E-04	-3.0600265E-04	
36	4.2289898E-04	-2.7392301E-04	
37	3.7120698E-04	-2.4325526E-04	
38	3.2548871E-04	-2.1421406E-04	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 929 di 1221
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39 2.8540236E-04 -1.8695767E-04
40 2.5057943E-04 -1.6159437E-04
41 2.2063408E-04 -1.3818905E-04
42 1.9517148E-04 -1.1676876E-04
43 1.7379460E-04 -9.7328196E-05
44 1.5611039E-04 -7.9834689E-05
45 1.4173468E-04 -6.4232910E-05
46 1.3029614E-04 -5.0448606E-05
47 1.2143998E-04 -3.8393090E-05
48 1.1483033E-04 -2.7966102E-05
49 1.1015225E-04 -1.9058463E-05
50 1.0711338E-04 -1.1554519E-05
51 1.0544489E-04 -5.3341275E-06
52 1.0490234E-04 -2.7450006E-07
53 1.0526589E-04 3.7478041E-06
54 1.0634059E-04 6.8571992E-06
55 1.0795607E-04 9.1760968E-06
56 1.0996638E-04 1.0825232E-05
57 1.1224942E-04 1.1923173E-05
58 1.1470664E-04 1.2585987E-05
59 1.1726236E-04 1.2926959E-05
60 1.1986332E-04 1.3056461E-05
61 1.2247813E-04 1.3081849E-05
    
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019  18:02:25                               |
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New Project

STRESS RESULTS FOR GROUP NO. 1

O L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
 CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	3.189	-5.7402E-03	51.80	31.89	51.80	31.89	V-C	8781.	0.000	0.000	1.000	1.000
31.89	0.000	0.000	Strato1_2_8_L_0									
2 D	4.996	-5.5373E-03	37.03	24.98	37.03	24.98	V-C	8781.	-0.2000	0.000	1.000	1.000
24.98	0.000	0.000	Strato1_2_8_L_0									
3 D	4.758	-5.3344E-03	34.84	23.79	34.84	23.79	V-C	8781.	-0.4000	0.000	1.000	1.000
23.79	0.000	0.000	Strato1_2_8_L_0									
4 D	5.807	-5.1317E-03	46.80	29.04	46.80	29.04	V-C	8781.	-0.6000	0.000	1.000	1.000
29.04	0.000	0.000	Strato1_2_8_L_0									
5 D	5.744	-4.9292E-03	46.54	28.72	46.54	28.72	V-C	8781.	-0.8000	0.000	1.000	1.000
28.72	0.000	0.000	Strato1_2_8_L_0									
6 D	6.467	-4.7271E-03	54.92	32.34	54.92	32.34	V-C	8781.	-1.000	0.000	1.000	1.000
32.34	0.000	0.000	Strato1_2_8_L_0									
7 D	6.503	-4.5257E-03	55.76	32.52	55.76	32.52	V-C	8781.	-1.200	0.000	1.000	1.000
32.52	0.000	0.000	Strato1_2_8_L_0									
8 D	7.097	-4.3252E-03	62.75	35.49	62.75	35.49	V-C	8781.	-1.400	0.000	1.000	1.000
35.49	0.000	0.000	Strato1_2_8_L_0									
9 D	7.129	-4.1260E-03	63.56	35.64	63.56	35.64	V-C	8781.	-1.600	0.000	1.000	1.000
35.64	0.000	0.000	Strato1_2_8_L_0									
10 D	7.659	-3.9286E-03	69.87	38.29	69.87	38.29	V-C	8781.	-1.800	0.000	1.000	1.000
38.29	0.000	0.000	Strato1_2_8_L_0									
11 D	7.791	-3.7333E-03	71.83	38.96	71.83	38.96	V-C	8781.	-2.000	0.000	1.000	1.000
38.96	0.000	0.000	Strato1_2_8_L_0									
12 D	8.273	-3.5409E-03	77.65	41.36	77.65	41.36	V-C	8781.	-2.200	0.000	1.000	1.000
41.36	0.000	0.000	Strato1_2_8_L_0									
13 D	8.337	-3.3518E-03	79.88	41.69	79.88	42.34	UL-RL	2.6343E+04	-2.400	0.000	1.000	1.000
41.69	0.000	0.000	Strato1_2_8_L_0									
14 D	8.508	-3.1668E-03	85.38	42.54	85.38	45.25	UL-RL	2.6343E+04	-2.600	0.000	1.000	1.000
42.54	0.000	0.000	Strato1_2_8_L_0									
15 D	8.483	-2.9858E-03	87.81	42.42	87.81	46.54	UL-RL	2.6343E+04	-2.800	0.000	1.000	1.000
42.42	0.000	0.000	Strato1_2_8_L_0									
16 D	8.602	-2.8089E-03	92.70	43.01	92.70	49.13	UL-RL	2.6343E+04	-3.000	0.000	1.000	1.000
43.01	0.000	0.000	Strato1_2_8_L_0									
17 D	8.579	-2.6362E-03	95.31	42.90	95.31	50.52	UL-RL	2.6343E+04	-3.200	0.000	1.000	1.000
42.90	0.000	0.000	Strato1_2_8_L_0									
18 D	8.706	-2.4678E-03	100.4	43.53	100.4	53.22	UL-RL	2.6343E+04	-3.400	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 930 di 1221
43.53	0.000	0.000	Strato1_2_8_L_0				
19 D	8.689	-2.3041E-03	103.1	43.44	103.1	54.67	UL-RL 2.6343E+04 -3.600 0.000 1.000 1.000
43.44	0.000	0.000	Strato1_2_8_L_0				
20 D	8.809	-2.1451E-03	108.1	44.04	108.1	57.30	UL-RL 2.6343E+04 -3.800 0.000 1.000 1.000
44.04	0.000	0.000	Strato1_2_8_L_0				
21 D	8.802	-1.9912E-03	110.9	44.01	110.9	58.80	UL-RL 2.6343E+04 -4.000 0.000 1.000 1.000
44.01	0.000	0.000	Strato1_2_8_L_0				
22 D	8.922	-1.8427E-03	115.8	44.61	115.8	61.36	UL-RL 2.6343E+04 -4.200 0.000 1.000 1.000
44.61	0.000	0.000	Strato1_2_8_L_0				
23 D	8.930	-1.6997E-03	118.7	44.65	118.7	62.91	UL-RL 2.6343E+04 -4.400 0.000 1.000 1.000
44.65	0.000	0.000	Strato1_2_8_L_0				
24 D	9.041	-1.5626E-03	123.2	45.20	123.2	65.29	UL-RL 2.6343E+04 -4.600 0.000 1.000 1.000
45.20	0.000	0.000	Strato1_2_8_L_0				
25 D	9.066	-1.4314E-03	126.2	45.33	126.2	66.88	UL-RL 2.6343E+04 -4.800 0.000 1.000 1.000
45.33	0.000	0.000	Strato1_2_8_L_0				
26 D	9.201	-1.3064E-03	130.9	46.01	130.9	69.36	UL-RL 2.6343E+04 -5.000 0.000 1.000 1.000
46.01	0.000	0.000	Strato1_2_8_L_0				
27 D	9.246	-1.1878E-03	133.9	46.23	133.9	70.97	UL-RL 2.6343E+04 -5.200 0.000 1.000 1.000
46.23	0.000	0.000	Strato1_2_8_L_0				
28 D	9.393	-1.0757E-03	138.5	46.96	138.5	73.42	UL-RL 2.6343E+04 -5.400 0.000 1.000 1.000
46.96	0.000	0.000	Strato1_2_8_L_0				
29 D	9.456	-9.7024E-04	141.6	47.28	141.6	75.06	UL-RL 2.6343E+04 -5.600 0.000 1.000 1.000
47.28	0.000	0.000	Strato1_2_8_L_0				
30 D	9.785	-8.7155E-04	146.2	48.93	146.2	77.47	UL-RL 2.6343E+04 -5.800 0.000 1.000 1.000
48.93	0.000	0.000	Strato1_2_8_L_0				
31 D	10.64	-7.7968E-04	149.1	53.18	149.1	79.04	UL-RL 2.6343E+04 -6.000 0.000 1.000 1.000
53.18	0.000	0.000	Strato1_2_8_L_0				
32 D	4.824	-6.9470E-04	153.7	24.12	153.7	76.87	UL-RL 7.4521E+04 -6.200 0.000 1.000 1.000
24.12	0.000	0.000	Strato2_3095_82743_L_0				
33 D	4.727	-6.1661E-04	157.1	23.64	157.1	78.56	UL-RL 7.4521E+04 -6.400 0.000 1.000 1.000
23.64	0.000	0.000	Strato2_3095_82743_L_0				
34 D	5.466	-5.4538E-04	161.8	27.33	161.8	80.89	UL-RL 7.4521E+04 -6.600 0.000 1.000 1.000
27.33	0.000	0.000	Strato2_3095_82743_L_0				
35 D	6.892	-4.8087E-04	165.2	34.46	165.2	82.60	UL-RL 7.4521E+04 -6.800 0.000 1.000 1.000
34.46	0.000	0.000	Strato2_3095_82743_L_0				
36 D	8.331	-4.2290E-04	169.8	41.66	169.8	84.92	UL-RL 7.4521E+04 -7.000 0.000 1.000 1.000
41.66	0.000	0.000	Strato2_3095_82743_L_0				
37 D	9.550	-3.7121E-04	173.3	47.75	173.3	86.64	UL-RL 7.4521E+04 -7.200 0.000 1.000 1.000
47.75	0.000	0.000	Strato2_3095_82743_L_0				
38 D	10.78	-3.2549E-04	177.9	53.91	177.9	88.94	UL-RL 7.4521E+04 -7.400 0.000 1.000 1.000
53.91	0.000	0.000	Strato2_3095_82743_L_0				
39 D	11.80	-2.8540E-04	181.2	58.98	181.2	90.60	UL-RL 7.4521E+04 -7.600 0.000 1.000 1.000
58.98	0.000	0.000	Strato2_3095_82743_L_0				
40 D	12.84	-2.5058E-04	185.8	64.21	185.8	92.88	UL-RL 7.4521E+04 -7.800 0.000 1.000 1.000
64.21	0.000	0.000	Strato2_3095_82743_L_0				
41 D	13.70	-2.2063E-04	189.3	68.52	189.3	94.63	UL-RL 7.4521E+04 -8.000 0.000 1.000 1.000
68.52	0.000	0.000	Strato2_3095_82743_L_0				
42 D	14.59	-1.9517E-04	193.8	72.96	193.8	96.90	UL-RL 7.4521E+04 -8.200 0.000 1.000 1.000
72.96	0.000	0.000	Strato2_3095_82743_L_0				
43 D	15.31	-1.7379E-04	197.3	76.55	197.3	98.67	UL-RL 7.4521E+04 -8.400 0.000 1.000 1.000
76.55	0.000	0.000	Strato2_3095_82743_L_0				
44 D	16.06	-1.5611E-04	201.8	80.32	201.8	100.9	UL-RL 7.4521E+04 -8.600 0.000 1.000 1.000
80.32	0.000	0.000	Strato2_3095_82743_L_0				
45 D	16.67	-1.4173E-04	205.4	83.34	205.4	102.7	UL-RL 7.4521E+04 -8.800 0.000 1.000 1.000
83.34	0.000	0.000	Strato2_3095_82743_L_0				
46 D	17.30	-1.3030E-04	209.7	86.50	209.7	104.9	UL-RL 7.4521E+04 -9.000 0.000 1.000 1.000
86.50	0.000	0.000	Strato2_3095_82743_L_0				
47 D	17.81	-1.2144E-04	213.3	89.06	213.3	106.7	UL-RL 7.4521E+04 -9.200 0.000 1.000 1.000
89.06	0.000	0.000	Strato2_3095_82743_L_0				
48 D	18.37	-1.1483E-04	217.8	91.87	217.8	108.9	UL-RL 7.4521E+04 -9.400 0.000 1.000 1.000
91.87	0.000	0.000	Strato2_3095_82743_L_0				
49 D	18.82	-1.1015E-04	221.4	94.08	221.4	110.7	UL-RL 7.4521E+04 -9.600 0.000 1.000 1.000
94.08	0.000	0.000	Strato2_3095_82743_L_0				
50 D	19.32	-1.0711E-04	225.8	96.58	225.8	112.9	UL-RL 7.4521E+04 -9.800 0.000 1.000 1.000
96.58	0.000	0.000	Strato2_3095_82743_L_0				
51 D	19.71	-1.0544E-04	229.4	98.54	229.4	114.7	UL-RL 7.4521E+04 -10.00 0.000 1.000 1.000
98.54	0.000	0.000	Strato2_3095_82743_L_0				
52 D	20.16	-1.0490E-04	233.8	100.8	233.8	116.9	UL-RL 7.4521E+04 -10.20 0.000 1.000 1.000
100.8	0.000	0.000	Strato2_3095_82743_L_0				
53 D	20.52	-1.0527E-04	237.5	102.6	237.5	118.7	UL-RL 7.4521E+04 -10.40 0.000 1.000 1.000
102.6	0.000	0.000	Strato2_3095_82743_L_0				
54 D	20.94	-1.0634E-04	241.8	104.7	241.8	120.9	UL-RL 7.4521E+04 -10.60 0.000 1.000 1.000
104.7	0.000	0.000	Strato2_3095_82743_L_0				
55 D	21.28	-1.0796E-04	245.4	106.4	245.4	122.7	UL-RL 7.4521E+04 -10.80 0.000 1.000 1.000
106.4	0.000	0.000	Strato2_3095_82743_L_0				
56 D	21.69	-1.0997E-04	249.8	108.4	249.8	124.9	UL-RL 7.4521E+04 -11.00 0.000 1.000 1.000
108.4	0.000	0.000	Strato2_3095_82743_L_0				
57 D	22.02	-1.1225E-04	253.4	110.1	253.4	126.7	UL-RL 7.4521E+04 -11.20 0.000 1.000 1.000
110.1	0.000	0.000	Strato2_3095_82743_L_0				
58 D	22.42	-1.1471E-04	257.8	112.1	257.8	128.9	UL-RL 7.4521E+04 -11.40 0.000 1.000 1.000
112.1	0.000	0.000	Strato2_3095_82743_L_0				
59 D	22.74	-1.1726E-04	261.5	113.7	261.5	130.7	UL-RL 7.4521E+04 -11.60 0.000 1.000 1.000
113.7	0.000	0.000	Strato2_3095_82743_L_0				
60 D	23.14	-1.1986E-04	265.8	115.7	265.8	132.9	UL-RL 7.4521E+04 -11.80 0.000 1.000 1.000
115.7	0.000	0.000	Strato2_3095_82743_L_0				

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 932 di 1221							
29 D	12.34	9.7024E-04	51.30	61.71	106.4	64.64	UL-RL	1.8281E+04	-5.600	0.000	1.000	1.000
61.71	0.000	0.000	Strato1_2_8_L_0									
30 D	12.66	8.7155E-04	55.10	63.32	110.2	65.85	UL-RL	1.8281E+04	-5.800	0.000	1.000	1.000
63.32	0.000	0.000	Strato1_2_8_L_0									
31 D	12.99	7.7968E-04	58.90	64.96	114.0	67.12	UL-RL	1.8281E+04	-6.000	0.000	1.000	1.000
64.96	0.000	0.000	Strato1_2_8_L_0									
32 D	12.58	6.9470E-04	62.80	62.91	117.9	66.91	UL-RL	4.0389E+04	-6.200	0.000	1.000	1.000
62.91	0.000	0.000	Strato2_3095_82743_L_0									
33 D	12.84	6.1661E-04	66.80	64.22	121.9	67.53	UL-RL	4.0389E+04	-6.400	0.000	1.000	1.000
64.22	0.000	0.000	Strato2_3095_82743_L_0									
34 D	13.12	5.4538E-04	70.80	65.59	125.9	68.27	UL-RL	4.0389E+04	-6.600	0.000	1.000	1.000
65.59	0.000	0.000	Strato2_3095_82743_L_0									
35 D	13.40	4.8087E-04	74.80	67.02	129.9	69.13	UL-RL	4.0389E+04	-6.800	0.000	1.000	1.000
67.02	0.000	0.000	Strato2_3095_82743_L_0									
36 D	13.47	4.2290E-04	78.80	67.33	133.9	70.69	UL-RL	4.0389E+04	-7.000	0.000	1.000	1.000
67.33	0.000	0.000	Strato2_3095_82743_L_0									
37 D	13.47	3.7121E-04	82.80	67.35	137.9	72.53	UL-RL	4.0389E+04	-7.200	0.000	1.000	1.000
67.35	0.000	0.000	Strato2_3095_82743_L_0									
38 D	13.52	3.2549E-04	86.80	67.61	141.9	74.38	UL-RL	4.0389E+04	-7.400	0.000	1.000	1.000
67.61	0.000	0.000	Strato2_3095_82743_L_0									
39 D	13.62	2.8540E-04	90.80	68.09	145.9	76.25	UL-RL	4.0389E+04	-7.600	0.000	1.000	1.000
68.09	0.000	0.000	Strato2_3095_82743_L_0									
40 D	13.75	2.5058E-04	94.80	68.77	149.9	78.13	UL-RL	4.0389E+04	-7.800	0.000	1.000	1.000
68.77	0.000	0.000	Strato2_3095_82743_L_0									
41 D	13.93	2.2063E-04	98.80	69.65	153.9	80.03	UL-RL	4.0389E+04	-8.000	0.000	1.000	1.000
69.65	0.000	0.000	Strato2_3095_82743_L_0									
42 D	14.14	1.9517E-04	102.8	70.71	157.9	81.94	UL-RL	4.0389E+04	-8.200	0.000	1.000	1.000
70.71	0.000	0.000	Strato2_3095_82743_L_0									
43 D	14.38	1.7379E-04	106.8	71.92	161.9	83.85	UL-RL	4.0389E+04	-8.400	0.000	1.000	1.000
71.92	0.000	0.000	Strato2_3095_82743_L_0									
44 D	14.66	1.5611E-04	110.8	73.28	165.9	85.78	UL-RL	4.0389E+04	-8.600	0.000	1.000	1.000
73.28	0.000	0.000	Strato2_3095_82743_L_0									
45 D	14.95	1.4173E-04	114.8	74.77	169.9	87.73	UL-RL	4.0389E+04	-8.800	0.000	1.000	1.000
74.77	0.000	0.000	Strato2_3095_82743_L_0									
46 D	15.27	1.3030E-04	118.8	76.37	173.9	89.68	UL-RL	4.0389E+04	-9.000	0.000	1.000	1.000
76.37	0.000	0.000	Strato2_3095_82743_L_0									
47 D	15.61	1.2144E-04	122.8	78.07	177.9	91.63	UL-RL	4.0389E+04	-9.200	0.000	1.000	1.000
78.07	0.000	0.000	Strato2_3095_82743_L_0									
48 D	15.97	1.1483E-04	126.8	79.86	181.9	93.60	UL-RL	4.0389E+04	-9.400	0.000	1.000	1.000
79.86	0.000	0.000	Strato2_3095_82743_L_0									
49 D	16.34	1.1015E-04	130.8	81.72	185.9	95.57	UL-RL	4.0389E+04	-9.600	0.000	1.000	1.000
81.72	0.000	0.000	Strato2_3095_82743_L_0									
50 D	16.73	1.0711E-04	134.8	83.65	189.9	97.55	UL-RL	4.0389E+04	-9.800	0.000	1.000	1.000
83.65	0.000	0.000	Strato2_3095_82743_L_0									
51 D	17.13	1.0544E-04	138.8	85.63	193.9	99.53	UL-RL	4.0389E+04	-10.000	0.000	1.000	1.000
85.63	0.000	0.000	Strato2_3095_82743_L_0									
52 D	17.53	1.0490E-04	142.8	87.65	197.9	101.5	UL-RL	4.0389E+04	-10.200	0.000	1.000	1.000
87.65	0.000	0.000	Strato2_3095_82743_L_0									
53 D	17.94	1.0527E-04	146.8	89.70	201.9	103.5	UL-RL	4.0389E+04	-10.400	0.000	1.000	1.000
89.70	0.000	0.000	Strato2_3095_82743_L_0									
54 D	18.36	1.0634E-04	150.8	91.78	205.9	105.5	UL-RL	4.0389E+04	-10.600	0.000	1.000	1.000
91.78	0.000	0.000	Strato2_3095_82743_L_0									
55 D	18.77	1.0796E-04	154.8	93.87	209.9	107.5	UL-RL	4.0389E+04	-10.800	0.000	1.000	1.000
93.87	0.000	0.000	Strato2_3095_82743_L_0									
56 D	19.20	1.0997E-04	158.8	95.98	213.9	109.5	UL-RL	4.0389E+04	-11.000	0.000	1.000	1.000
95.98	0.000	0.000	Strato2_3095_82743_L_0									
57 D	19.62	1.1225E-04	162.8	98.09	217.9	111.5	UL-RL	4.0389E+04	-11.200	0.000	1.000	1.000
98.09	0.000	0.000	Strato2_3095_82743_L_0									
58 D	20.04	1.1471E-04	166.8	100.2	221.9	113.5	UL-RL	4.0389E+04	-11.400	0.000	1.000	1.000
100.2	0.000	0.000	Strato2_3095_82743_L_0									
59 D	20.47	1.1726E-04	170.8	102.3	225.9	115.5	UL-RL	4.0389E+04	-11.600	0.000	1.000	1.000
102.3	0.000	0.000	Strato2_3095_82743_L_0									
60 D	20.89	1.1986E-04	174.8	104.5	229.9	117.5	UL-RL	4.0389E+04	-11.800	0.000	1.000	1.000
104.5	0.000	0.000	Strato2_3095_82743_L_0									
61 D	10.66	1.2248E-04	178.8	106.6	233.9	119.5	UL-RL	4.0389E+04	-12.000	0.000	1.000	1.000
106.6	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.Nominal_63                                                                                       |
|          Exe Time :29 July 2019  18:02:25                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :

ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60

CURRENT TIME IS 4.0000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
933 di 1221

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	3.1891	-3.1891	-6.67910E-13	0.63783
2	8.1851	-8.1851	-0.63783	2.2749
3	12.944	-12.944	-2.2749	4.8636
4	18.751	-18.751	-4.8636	8.6137
5	24.495	-24.495	-8.6137	13.513
6	30.962	-30.962	-13.513	19.705
7	37.465	-37.465	-19.705	27.198
8	44.562	-44.562	-27.198	36.111
9	51.691	-51.691	-36.111	46.449
10	59.350	-59.350	-46.449	58.319
11	67.141	-67.141	-58.319	71.747
12	75.414	-75.414	-71.747	86.830
13	-6.9878	6.9878	-86.830	85.433
14	1.5198	-1.5198	-85.433	85.736
15	10.003	-10.003	-85.736	87.737
16	18.490	-18.490	-87.737	91.435
17	24.394	-24.394	-91.435	96.314
18	27.227	-27.227	-96.314	101.76
19	26.845	-26.845	-101.76	107.13
20	26.021	-26.021	-107.13	112.33
21	24.907	-24.907	-112.33	117.31
22	23.626	-23.626	-117.31	122.04
23	22.061	-22.061	-122.04	126.45
24	20.310	-20.310	-126.45	130.51
25	18.283	-18.283	-130.51	134.17
26	16.086	-16.086	-134.17	137.39
27	13.623	-13.623	-137.39	140.11
28	10.993	-10.993	-140.11	142.31
29	8.1080	-8.1080	-142.31	143.93
30	5.2286	-5.2286	-143.93	144.98
31	2.8730	-2.8730	-144.98	145.55
32	-4.8840	4.8840	-145.55	144.58
33	-13.001	13.001	-144.58	141.98
34	-20.654	20.654	-141.98	137.84
35	-27.166	27.166	-137.84	132.41
36	-32.300	32.300	-132.41	125.95
37	-36.221	36.221	-125.95	118.71
38	-38.960	38.960	-118.71	110.91
39	-40.782	40.782	-110.91	102.76
40	-41.694	41.694	-102.76	94.420
41	-41.921	41.921	-94.420	86.036
42	-41.470	41.470	-86.036	77.742
43	-40.545	40.545	-77.742	69.633
44	-39.137	39.137	-69.633	61.805
45	-37.424	37.424	-61.805	54.321
46	-35.397	35.397	-54.321	47.241
47	-33.200	33.200	-47.241	40.601
48	-30.799	30.799	-40.601	34.441
49	-28.327	28.327	-34.441	28.776
50	-25.741	25.741	-28.776	23.628
51	-23.158	23.158	-23.628	18.996
52	-20.523	20.523	-18.996	14.892
53	-17.940	17.940	-14.892	11.304
54	-15.358	15.358	-11.304	8.2320
55	-12.855	12.855	-8.2320	5.6611
56	-10.363	10.363	-5.6611	3.5885
57	-7.9654	7.9654	-3.5885	1.9954
58	-5.5915	5.5915	-1.9954	0.87711
59	-3.3162	3.3162	-0.87711	0.21388
60	-1.0693	1.0693	-0.21388	-1.78491E-12

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019    18:02:25                             |
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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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Tirantel_429      :
ELEMENT TYPE     6 NO.OF ELEMENTS. IN THIS GROUP      1
C U R R E N T   T I M E   I S   4.0000

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POST-TENSION 2D-BOUNDARY ELEMENT

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 934 di 1221
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EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit		
ANCHOR	1	93.940	-6.38098E-04	-6.38098E-04	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

```

ITER      0 RNORM = 0.000      RMNORM= 0.000
          RINORM=0.1258E+06 RIMNOR=0.9369E+06
          RENORM= 2299.      REMNOR=0.2291E-19 RATIO =0.1352      TOLER =0.1000E-03 NOT CONVERGED
          RFMAX = 90.74      RMMAX = 145.6
          RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
          RDT =0.1258E+06 RDR =0.9369E+06
          RATIOI=0.1352      RATIOR= 0.000
          MAX UN= 12.99      IEQ=   61 NODE      31 DOF   1 Y-DISPL.F
          MIN UN=-.9754E-09 IEQ=   13 NODE      7 DOF   1 Y-DISPL.F
          NO. OF CONTACT CONSTRAINT VIOLATIONS      0
    
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ITER      2 RNORM = 0.000      RMNORM= 0.000
          RINORM=0.1258E+06 RIMNOR=0.9369E+06
          RENORM= 193.6      REMNOR=0.3899E-19 RATIO =0.3923E-01 TOLER =0.1000E-03 NOT CONVERGED
          RFMAX = 90.74      RMMAX = 145.6
          RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
          RDT =0.1258E+06 RDR =0.9369E+06
          RATIOI=0.3923E-01 RATIOR= 0.000
          MAX UN= 6.686      IEQ=   63 NODE      32 DOF   1 Y-DISPL.F
          MIN UN=-.1542E-08 IEQ=   19 NODE      10 DOF  1 Y-DISPL.F
          NO. OF CONTACT CONSTRAINT VIOLATIONS      0
    
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ITER      3 RNORM = 0.000      RMNORM= 0.000
          RINORM=0.1258E+06 RIMNOR=0.9369E+06
          RENORM= 4.695      REMNOR=0.6085E-19 RATIO =0.6108E-02 TOLER =0.1000E-03 NOT CONVERGED
          RFMAX = 90.74      RMMAX = 145.6
          RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
          RDT =0.1258E+06 RDR =0.9369E+06
          RATIOI=0.6108E-02 RATIOR= 0.000
          MAX UN= 1.417      IEQ=   77 NODE      39 DOF   1 Y-DISPL.F
          MIN UN=-.1028E-08 IEQ=   61 NODE      31 DOF   1 Y-DISPL.F
          NO. OF CONTACT CONSTRAINT VIOLATIONS      0
    
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ITER      4 RNORM = 0.000      RMNORM= 0.000
          RINORM=0.1258E+06 RIMNOR=0.9369E+06
          RENORM=0.8029      REMNOR=0.5235E-19 RATIO =0.2526E-02 TOLER =0.1000E-03 NOT CONVERGED
          RFMAX = 90.74      RMMAX = 145.6
          RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
          RDT =0.1258E+06 RDR =0.9369E+06
          RATIOI=0.2526E-02 RATIOR= 0.000
          MAX UN=0.6453      IEQ=    7 NODE      4 DOF   1 Y-DISPL.F
          MIN UN=-.1117E-08 IEQ=   27 NODE      14 DOF   1 Y-DISPL.F
          NO. OF CONTACT CONSTRAINT VIOLATIONS      0
    
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ITER      5 RNORM = 0.000      RMNORM= 0.000
          RINORM=0.1258E+06 RIMNOR=0.9369E+06
          RENORM=0.3247E-02 REMNOR=0.8341E-19 RATIO =0.1606E-03 TOLER =0.1000E-03 NOT CONVERGED
          RFMAX = 90.74      RMMAX = 145.6
          RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
          RDT =0.1258E+06 RDR =0.9369E+06
          RATIOI=0.1606E-03 RATIOR= 0.000
          MAX UN=0.5698E-01 IEQ=   67 NODE      34 DOF   1 Y-DISPL.F
          MIN UN=-.1412E-08 IEQ=   25 NODE      13 DOF   1 Y-DISPL.F
          NO. OF CONTACT CONSTRAINT VIOLATIONS      0
    
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ITER      6 RNORM = 0.000      RMNORM= 0.000
          RINORM=0.1258E+06 RIMNOR=0.9369E+06
          RENORM=0.1909E-16 REMNOR=0.6286E-19 RATIO =0.1232E-10 TOLER =0.1000E-03      CONVERGED !
          RFMAX = 90.74      RMMAX = 145.6
          RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
          RDT =0.1258E+06 RDR =0.9369E+06
          RATIOI=0.1232E-10 RATIOR= 0.000
          MAX UN=0.1835E-08 IEQ=   39 NODE      20 DOF   1 Y-DISPL.F
          MIN UN=-.1715E-08 IEQ=   41 NODE      21 DOF   1 Y-DISPL.F
          NO. OF CONTACT CONSTRAINT VIOLATIONS      0
    
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
935 di 1221

New Project
SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 5 (AT TIME 5.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	7.3572664E-03	-8.2918717E-04	
2	7.1914314E-03	-8.2914978E-04	
3	7.0256150E-03	-8.2898419E-04	
4	6.8598532E-03	-8.2858665E-04	
5	6.6942037E-03	-8.2783932E-04	
6	6.5287498E-03	-8.2660748E-04	
7	6.3636028E-03	-8.2474466E-04	
8	6.1989047E-03	-8.2209110E-04	
9	6.0348304E-03	-8.1847575E-04	
10	5.8715906E-03	-8.1371631E-04	
11	5.7094330E-03	-8.0762018E-04	
12	5.5486453E-03	-7.9998283E-04	
13	5.3895570E-03	-7.9058851E-04	
14	5.2323907E-03	-7.8148286E-04	
15	5.0768090E-03	-7.7470036E-04	
16	4.9223723E-03	-7.6999102E-04	
17	4.7686918E-03	-7.6709430E-04	
18	4.6154318E-03	-7.6573882E-04	
19	4.4623123E-03	-7.6564206E-04	
20	4.3091107E-03	-7.6651020E-04	
21	4.1556642E-03	-7.6803832E-04	
22	4.0018724E-03	-7.6991026E-04	
23	3.8476990E-03	-7.7179878E-04	
24	3.6931744E-03	-7.7336544E-04	
25	3.5383976E-03	-7.7426112E-04	
26	3.3835387E-03	-7.7412585E-04	
27	3.2288415E-03	-7.7258864E-04	
28	3.0746229E-03	-7.6926728E-04	
29	2.9212797E-03	-7.6376855E-04	
30	2.7692876E-03	-7.5568808E-04	
31	2.6192043E-03	-7.4461046E-04	
32	2.4716724E-03	-7.3010955E-04	
33	2.3273892E-03	-7.1218882E-04	
34	2.1869947E-03	-6.9130015E-04	
35	2.0510357E-03	-6.6791287E-04	
36	1.9199645E-03	-6.4250109E-04	
37	1.7941393E-03	-6.1553869E-04	
38	1.6738220E-03	-5.8749118E-04	
39	1.5591850E-03	-5.5881078E-04	
40	1.4503106E-03	-5.2993698E-04	
41	1.3471946E-03	-5.0129770E-04	
42	1.2497490E-03	-4.7329690E-04	
43	1.1578097E-03	-4.4628756E-04	
44	1.0711484E-03	-4.2056138E-04	
45	9.8948433E-04	-3.9635389E-04	
46	9.1249379E-04	-3.7384857E-04	
47	8.3982230E-04	-3.5318219E-04	
48	7.7109208E-04	-3.3444821E-04	
49	7.0591063E-04	-3.1770011E-04	
50	6.4387884E-04	-3.0295459E-04	
51	5.8459677E-04	-2.9019410E-04	
52	5.2767074E-04	-2.7936932E-04	
53	4.7272648E-04	-2.7040242E-04	
54	4.1939588E-04	-2.6318540E-04	
55	3.6734450E-04	-2.5758562E-04	
56	3.1626438E-04	-2.5344457E-04	
57	2.6588165E-04	-2.5057894E-04	
58	2.1596161E-04	-2.4878111E-04	
59	1.6631345E-04	-2.4781957E-04	
60	1.1679505E-04	-2.4743909E-04	
61	6.7315191E-05	-2.4736083E-04	



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 936 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                              |
|          NewProject.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019  18:02:25  |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	1.575	-7.3573E-03	51.80	15.75	51.80	31.89	ACTIVE	0.000	0.000	0.000	1.000	1.000
15.75	0.000	0.000	Stratol_2_8_L_0									
2 D	2.251	-7.1914E-03	37.03	11.26	37.03	24.98	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
11.26	0.000	0.000	Stratol_2_8_L_0									
3 D	2.118	-7.0256E-03	34.84	10.59	34.84	23.79	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
10.59	0.000	0.000	Stratol_2_8_L_0									
4 D	2.846	-6.8599E-03	46.80	14.23	46.80	29.04	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
14.23	0.000	0.000	Stratol_2_8_L_0									
5 D	2.830	-6.6942E-03	46.54	14.15	46.54	28.72	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
14.15	0.000	0.000	Stratol_2_8_L_0									
6 D	3.339	-6.5287E-03	54.92	16.70	54.92	32.34	ACTIVE	0.000	-1.000	0.000	1.000	1.000
16.70	0.000	0.000	Stratol_2_8_L_0									
7 D	3.390	-6.3636E-03	55.76	16.95	55.76	32.52	ACTIVE	0.000	-1.200	0.000	1.000	1.000
16.95	0.000	0.000	Stratol_2_8_L_0									
8 D	3.815	-6.1989E-03	62.75	19.07	62.75	35.49	ACTIVE	0.000	-1.400	0.000	1.000	1.000
19.07	0.000	0.000	Stratol_2_8_L_0									
9 D	3.864	-6.0348E-03	63.56	19.32	63.56	35.64	ACTIVE	0.000	-1.600	0.000	1.000	1.000
19.32	0.000	0.000	Stratol_2_8_L_0									
10 D	4.248	-5.8716E-03	69.87	21.24	69.87	38.29	ACTIVE	0.000	-1.800	0.000	1.000	1.000
21.24	0.000	0.000	Stratol_2_8_L_0									
11 D	4.367	-5.7094E-03	71.83	21.84	71.83	38.96	ACTIVE	0.000	-2.000	0.000	1.000	1.000
21.84	0.000	0.000	Stratol_2_8_L_0									
12 D	4.721	-5.5486E-03	77.65	23.61	77.65	41.36	ACTIVE	0.000	-2.200	0.000	1.000	1.000
23.61	0.000	0.000	Stratol_2_8_L_0									
13 D	4.857	-5.3896E-03	79.88	24.28	79.88	42.34	ACTIVE	0.000	-2.400	0.000	1.000	1.000
24.28	0.000	0.000	Stratol_2_8_L_0									
14 D	5.191	-5.2324E-03	85.38	25.96	85.38	45.25	ACTIVE	0.000	-2.600	0.000	1.000	1.000
25.96	0.000	0.000	Stratol_2_8_L_0									
15 D	5.339	-5.0768E-03	87.81	26.69	87.81	46.54	ACTIVE	0.000	-2.800	0.000	1.000	1.000
26.69	0.000	0.000	Stratol_2_8_L_0									
16 D	5.636	-4.9224E-03	92.70	28.18	92.70	49.13	ACTIVE	0.000	-3.000	0.000	1.000	1.000
28.18	0.000	0.000	Stratol_2_8_L_0									
17 D	5.795	-4.7687E-03	95.31	28.98	95.31	50.52	ACTIVE	0.000	-3.200	0.000	1.000	1.000
28.98	0.000	0.000	Stratol_2_8_L_0									
18 D	6.105	-4.6154E-03	100.4	30.53	100.4	53.22	ACTIVE	0.000	-3.400	0.000	1.000	1.000
30.53	0.000	0.000	Stratol_2_8_L_0									
19 D	6.271	-4.4623E-03	103.1	31.36	103.1	54.67	ACTIVE	0.000	-3.600	0.000	1.000	1.000
31.36	0.000	0.000	Stratol_2_8_L_0									
20 D	6.573	-4.3091E-03	108.1	32.86	108.1	57.30	ACTIVE	0.000	-3.800	0.000	1.000	1.000
32.86	0.000	0.000	Stratol_2_8_L_0									
21 D	6.745	-4.1557E-03	110.9	33.72	110.9	58.80	ACTIVE	0.000	-4.000	0.000	1.000	1.000
33.72	0.000	0.000	Stratol_2_8_L_0									
22 D	7.039	-4.0019E-03	115.8	35.20	115.8	61.36	ACTIVE	0.000	-4.200	0.000	1.000	1.000
35.20	0.000	0.000	Stratol_2_8_L_0									
23 D	7.216	-3.8477E-03	118.7	36.08	118.7	62.91	ACTIVE	0.000	-4.400	0.000	1.000	1.000
36.08	0.000	0.000	Stratol_2_8_L_0									
24 D	7.490	-3.6932E-03	123.2	37.45	123.2	65.29	ACTIVE	0.000	-4.600	0.000	1.000	1.000
37.45	0.000	0.000	Stratol_2_8_L_0									
25 D	7.672	-3.5384E-03	126.2	38.36	126.2	66.88	ACTIVE	0.000	-4.800	0.000	1.000	1.000
38.36	0.000	0.000	Stratol_2_8_L_0									
26 D	7.956	-3.3835E-03	130.9	39.78	130.9	69.36	ACTIVE	0.000	-5.000	0.000	1.000	1.000
39.78	0.000	0.000	Stratol_2_8_L_0									
27 D	8.142	-3.2288E-03	133.9	40.71	133.9	70.97	ACTIVE	0.000	-5.200	0.000	1.000	1.000
40.71	0.000	0.000	Stratol_2_8_L_0									
28 D	8.422	-3.0746E-03	138.5	42.11	138.5	73.42	ACTIVE	0.000	-5.400	0.000	1.000	1.000
42.11	0.000	0.000	Stratol_2_8_L_0									
29 D	8.611	-2.9213E-03	141.6	43.05	141.6	75.06	ACTIVE	0.000	-5.600	0.000	1.000	1.000
43.05	0.000	0.000	Stratol_2_8_L_0									
30 D	8.887	-2.7693E-03	146.2	44.44	146.2	77.47	ACTIVE	0.000	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.				Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 937 di 1221
44.44	0.000	0.000	Strato1_2_8_L_0					
31 D	9.067	-2.6192E-03	149.1 45.34	149.1	79.04	ACTIVE	0.000	-6.000 0.000 1.000 1.000
45.34	0.000	0.000	Strato1_2_8_L_0					
32 D	3.347	-2.4717E-03	153.7 16.74	153.7	76.87	ACTIVE	0.000	-6.200 0.000 1.000 1.000
16.74	0.000	0.000	Strato2_3095_82743_L_0					
33 D	3.507	-2.3274E-03	157.1 17.53	157.1	78.56	ACTIVE	0.000	-6.400 0.000 1.000 1.000
17.53	0.000	0.000	Strato2_3095_82743_L_0					
34 D	3.726	-2.1870E-03	161.8 18.63	161.8	80.89	ACTIVE	0.000	-6.600 0.000 1.000 1.000
18.63	0.000	0.000	Strato2_3095_82743_L_0					
35 D	3.887	-2.0510E-03	165.2 19.43	165.2	82.60	ACTIVE	0.000	-6.800 0.000 1.000 1.000
19.43	0.000	0.000	Strato2_3095_82743_L_0					
36 D	4.104	-1.9200E-03	169.8 20.52	169.8	84.92	ACTIVE	0.000	-7.000 0.000 1.000 1.000
20.52	0.000	0.000	Strato2_3095_82743_L_0					
37 D	4.266	-1.7941E-03	173.3 21.33	173.3	86.64	ACTIVE	0.000	-7.200 0.000 1.000 1.000
21.33	0.000	0.000	Strato2_3095_82743_L_0					
38 D	4.482	-1.6738E-03	177.9 22.41	177.9	88.94	ACTIVE	0.000	-7.400 0.000 1.000 1.000
22.41	0.000	0.000	Strato2_3095_82743_L_0					
39 D	4.638	-1.5592E-03	181.2 23.19	181.2	90.60	ACTIVE	0.000	-7.600 0.000 1.000 1.000
23.19	0.000	0.000	Strato2_3095_82743_L_0					
40 D	4.853	-1.4503E-03	185.8 24.26	185.8	92.88	ACTIVE	0.000	-7.800 0.000 1.000 1.000
24.26	0.000	0.000	Strato2_3095_82743_L_0					
41 D	5.588	-1.3472E-03	189.3 27.94	189.3	94.63	UL-RL	3.6018E+04	-8.000 0.000 1.000 1.000
27.94	0.000	0.000	Strato2_3095_82743_L_0					
42 D	6.995	-1.2497E-03	193.8 34.97	193.8	96.90	UL-RL	3.6018E+04	-8.200 0.000 1.000 1.000
34.97	0.000	0.000	Strato2_3095_82743_L_0					
43 D	8.222	-1.1578E-03	197.3 41.11	197.3	98.67	UL-RL	3.6018E+04	-8.400 0.000 1.000 1.000
41.11	0.000	0.000	Strato2_3095_82743_L_0					
44 D	9.473	-1.0711E-03	201.8 47.36	201.8	100.9	UL-RL	3.6018E+04	-8.600 0.000 1.000 1.000
47.36	0.000	0.000	Strato2_3095_82743_L_0					
45 D	10.56	-9.8948E-04	205.4 52.80	205.4	102.7	UL-RL	3.6018E+04	-8.800 0.000 1.000 1.000
52.80	0.000	0.000	Strato2_3095_82743_L_0					
46 D	11.67	-9.1249E-04	209.7 58.33	209.7	104.9	UL-RL	3.6018E+04	-9.000 0.000 1.000 1.000
58.33	0.000	0.000	Strato2_3095_82743_L_0					
47 D	12.64	-8.3982E-04	213.3 63.18	213.3	106.7	UL-RL	3.6018E+04	-9.200 0.000 1.000 1.000
63.18	0.000	0.000	Strato2_3095_82743_L_0					
48 D	13.65	-7.7109E-04	217.8 68.23	217.8	108.9	UL-RL	3.6018E+04	-9.400 0.000 1.000 1.000
68.23	0.000	0.000	Strato2_3095_82743_L_0					
49 D	14.52	-7.0591E-04	221.4 72.62	221.4	110.7	UL-RL	3.6018E+04	-9.600 0.000 1.000 1.000
72.62	0.000	0.000	Strato2_3095_82743_L_0					
50 D	15.45	-6.4388E-04	225.8 77.25	225.8	112.9	UL-RL	3.6018E+04	-9.800 0.000 1.000 1.000
77.25	0.000	0.000	Strato2_3095_82743_L_0					
51 D	16.26	-5.8460E-04	229.4 81.28	229.4	114.7	UL-RL	3.6018E+04	-10.000 0.000 1.000 1.000
81.28	0.000	0.000	Strato2_3095_82743_L_0					
52 D	17.12	-5.2767E-04	233.8 85.59	233.8	116.9	UL-RL	3.6018E+04	-10.200 0.000 1.000 1.000
85.59	0.000	0.000	Strato2_3095_82743_L_0					
53 D	17.88	-4.7273E-04	237.5 89.38	237.5	118.7	UL-RL	3.6018E+04	-10.400 0.000 1.000 1.000
89.38	0.000	0.000	Strato2_3095_82743_L_0					
54 D	18.68	-4.1940E-04	241.8 93.42	241.8	120.9	UL-RL	3.6018E+04	-10.600 0.000 1.000 1.000
93.42	0.000	0.000	Strato2_3095_82743_L_0					
55 D	19.41	-3.6734E-04	245.4 97.05	245.4	122.7	UL-RL	3.6018E+04	-10.800 0.000 1.000 1.000
97.05	0.000	0.000	Strato2_3095_82743_L_0					
56 D	20.20	-3.1626E-04	249.8 101.0	249.8	124.9	UL-RL	3.6018E+04	-11.000 0.000 1.000 1.000
101.0	0.000	0.000	Strato2_3095_82743_L_0					
57 D	20.91	-2.6588E-04	253.4 104.5	253.4	126.7	UL-RL	3.6018E+04	-11.200 0.000 1.000 1.000
104.5	0.000	0.000	Strato2_3095_82743_L_0					
58 D	21.69	-2.1596E-04	257.8 108.4	257.8	128.9	UL-RL	3.6018E+04	-11.400 0.000 1.000 1.000
108.4	0.000	0.000	Strato2_3095_82743_L_0					
59 D	22.39	-1.6631E-04	261.5 111.9	261.5	130.7	UL-RL	3.6018E+04	-11.600 0.000 1.000 1.000
111.9	0.000	0.000	Strato2_3095_82743_L_0					
60 D	23.16	-1.1680E-04	265.8 115.8	265.8	132.9	UL-RL	3.6018E+04	-11.800 0.000 1.000 1.000
115.8	0.000	0.000	Strato2_3095_82743_L_0					
61 D	11.93	-6.7315E-05	269.4 119.3	269.4	134.7	UL-RL	3.6018E+04	-12.000 0.000 1.000 1.000
119.3	0.000	0.000	Strato2_3095_82743_L_0					



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 938 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                       |
|          NewProject.BaseDesignSection_28.Nominal_63          |
|          Exe Time :29 July 2019          18:02:25          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
 CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.2000	0.000	1.000	1.000
2	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.6000	0.000	1.000	1.000
3	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.000	0.000	1.000	1.000
4	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.400	0.000	1.000	1.000
5	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.800	0.000	1.000	1.000
6	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.200	0.000	1.000	1.000
7	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.600	0.000	1.000	1.000
8	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.000	0.000	1.000	1.000
9	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.400	0.000	1.000	1.000
10	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.800	0.000	1.000	1.000
11	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
12	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
13	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
14	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000
15	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.800	0.000	1.000	1.000
16	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
17	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
18	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
19	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
20	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
21	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
22	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
23	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
24	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
25	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
26	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
27	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
28	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
29	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
30	0.000	--	--	--	--	--	REMOVED	--				

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 939 di 1221
0.000	0.000	0.000	not available		
31	0.000	--	--		
0.000	0.000	0.000	not available		
32 D	12.57	2.4717E-03	2.000 62.84 117.9	66.91	UL-RL 1.9852E+04 -6.200 0.000 1.000 1.000
62.84	0.000	0.000	Strato2_3095_82743_L_0		
33 D	13.32	2.3274E-03	6.000 66.59 121.9	67.53	UL-RL 1.9852E+04 -6.400 0.000 1.000 1.000
66.59	0.000	0.000	Strato2_3095_82743_L_0		
34 D	13.68	2.1870E-03	10.00 68.42 125.9	68.42	V-C 6617. -6.600 0.000 1.000 1.000
68.42	0.000	0.000	Strato2_3095_82743_L_0		
35 D	13.90	2.0510E-03	14.00 69.50 129.9	69.50	V-C 6617. -6.800 0.000 1.000 1.000
69.50	0.000	0.000	Strato2_3095_82743_L_0		
36 D	14.05	1.9200E-03	18.00 70.24 133.9	70.69	UL-RL 1.9852E+04 -7.000 0.000 1.000 1.000
70.24	0.000	0.000	Strato2_3095_82743_L_0		
37 D	13.94	1.7941E-03	22.00 69.71 137.9	72.53	UL-RL 1.9852E+04 -7.200 0.000 1.000 1.000
69.71	0.000	0.000	Strato2_3095_82743_L_0		
38 D	13.85	1.6738E-03	26.00 69.25 141.9	74.38	UL-RL 1.9852E+04 -7.400 0.000 1.000 1.000
69.25	0.000	0.000	Strato2_3095_82743_L_0		
39 D	13.78	1.5592E-03	30.00 68.90 145.9	76.25	UL-RL 1.9852E+04 -7.600 0.000 1.000 1.000
68.90	0.000	0.000	Strato2_3095_82743_L_0		
40 D	13.74	1.4503E-03	34.00 68.68 149.9	78.13	UL-RL 1.9852E+04 -7.800 0.000 1.000 1.000
68.68	0.000	0.000	Strato2_3095_82743_L_0		
41 D	13.72	1.3472E-03	38.00 68.60 153.9	80.03	UL-RL 1.9852E+04 -8.000 0.000 1.000 1.000
68.60	0.000	0.000	Strato2_3095_82743_L_0		
42 D	13.73	1.2497E-03	42.00 68.66 157.9	81.94	UL-RL 1.9852E+04 -8.200 0.000 1.000 1.000
68.66	0.000	0.000	Strato2_3095_82743_L_0		
43 D	13.77	1.1578E-03	46.00 68.86 161.9	83.85	UL-RL 1.9852E+04 -8.400 0.000 1.000 1.000
68.86	0.000	0.000	Strato2_3095_82743_L_0		
44 D	13.84	1.0711E-03	50.00 69.20 165.9	85.78	UL-RL 1.9852E+04 -8.600 0.000 1.000 1.000
69.20	0.000	0.000	Strato2_3095_82743_L_0		
45 D	13.93	9.8948E-04	54.00 69.66 169.9	87.73	UL-RL 1.9852E+04 -8.800 0.000 1.000 1.000
69.66	0.000	0.000	Strato2_3095_82743_L_0		
46 D	14.05	9.1249E-04	58.00 70.25 173.9	89.68	UL-RL 1.9852E+04 -9.000 0.000 1.000 1.000
70.25	0.000	0.000	Strato2_3095_82743_L_0		
47 D	14.19	8.3982E-04	62.00 70.94 177.9	91.63	UL-RL 1.9852E+04 -9.200 0.000 1.000 1.000
70.94	0.000	0.000	Strato2_3095_82743_L_0		
48 D	14.35	7.7109E-04	66.00 71.74 181.9	93.60	UL-RL 1.9852E+04 -9.400 0.000 1.000 1.000
71.74	0.000	0.000	Strato2_3095_82743_L_0		
49 D	14.52	7.0591E-04	70.00 72.62 185.9	95.57	UL-RL 1.9852E+04 -9.600 0.000 1.000 1.000
72.62	0.000	0.000	Strato2_3095_82743_L_0		
50 D	14.72	6.4388E-04	74.00 73.58 189.9	97.55	UL-RL 1.9852E+04 -9.800 0.000 1.000 1.000
73.58	0.000	0.000	Strato2_3095_82743_L_0		
51 D	14.92	5.8460E-04	78.00 74.60 193.9	99.53	UL-RL 1.9852E+04 -10.00 0.000 1.000 1.000
74.60	0.000	0.000	Strato2_3095_82743_L_0		
52 D	15.14	5.2767E-04	82.00 75.68 197.9	101.5	UL-RL 1.9852E+04 -10.20 0.000 1.000 1.000
75.68	0.000	0.000	Strato2_3095_82743_L_0		
53 D	15.36	4.7273E-04	86.00 76.80 201.9	103.5	UL-RL 1.9852E+04 -10.40 0.000 1.000 1.000
76.80	0.000	0.000	Strato2_3095_82743_L_0		
54 D	15.59	4.1940E-04	90.00 77.95 205.9	105.5	UL-RL 1.9852E+04 -10.60 0.000 1.000 1.000
77.95	0.000	0.000	Strato2_3095_82743_L_0		
55 D	15.83	3.6734E-04	94.00 79.13 209.9	107.5	UL-RL 1.9852E+04 -10.80 0.000 1.000 1.000
79.13	0.000	0.000	Strato2_3095_82743_L_0		
56 D	16.06	3.1626E-04	98.00 80.31 213.9	109.5	UL-RL 1.9852E+04 -11.00 0.000 1.000 1.000
80.31	0.000	0.000	Strato2_3095_82743_L_0		
57 D	16.30	2.6588E-04	102.0 81.51 217.9	111.5	UL-RL 1.9852E+04 -11.20 0.000 1.000 1.000
81.51	0.000	0.000	Strato2_3095_82743_L_0		
58 D	16.54	2.1596E-04	106.0 82.71 221.9	113.5	UL-RL 1.9852E+04 -11.40 0.000 1.000 1.000
82.71	0.000	0.000	Strato2_3095_82743_L_0		
59 D	16.78	1.6631E-04	110.0 83.91 225.9	115.5	UL-RL 1.9852E+04 -11.60 0.000 1.000 1.000
83.91	0.000	0.000	Strato2_3095_82743_L_0		
60 D	17.02	1.1680E-04	114.0 85.11 229.9	117.5	UL-RL 1.9852E+04 -11.80 0.000 1.000 1.000
85.11	0.000	0.000	Strato2_3095_82743_L_0		
61 D	8.630	6.7315E-05	118.0 86.30 233.9	119.5	UL-RL 1.9852E+04 -12.00 0.000 1.000 1.000
86.30	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
940 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      18:02:25                             |
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```

New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60
 CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.5747	-1.5747	1.26930E-11	0.31494
2	3.8259	-3.8259	-0.31494	1.0801
3	5.9441	-5.9441	-1.0801	2.2689
4	8.7898	-8.7898	-2.2689	4.0269
5	11.619	-11.619	-4.0269	6.3508
6	14.959	-14.959	-6.3508	9.3425
7	18.349	-18.349	-9.3425	13.012
8	22.164	-22.164	-13.012	17.445
9	26.028	-26.028	-17.445	22.651
10	30.276	-30.276	-22.651	28.706
11	34.643	-34.643	-28.706	35.635
12	39.365	-39.365	-35.635	43.508
13	-51.524	51.524	-43.508	33.203
14	-46.333	46.333	-33.203	23.936
15	-40.994	40.994	-23.936	15.738
16	-35.358	35.358	-15.738	8.6659
17	-29.563	29.563	-8.6659	2.7533
18	-23.458	23.458	-2.7533	-1.9382
19	-17.186	17.186	1.9382	-5.3755
20	-10.614	10.614	5.3755	-7.4982
21	-3.8688	3.8688	7.4982	-8.2720
22	3.1705	-3.1705	8.2720	-7.6379
23	10.387	-10.387	7.6379	-5.5605
24	17.877	-17.877	5.5605	-1.9851
25	25.549	-25.549	1.9851	3.1247
26	33.505	-33.505	-3.1247	9.8257
27	41.647	-41.647	-9.8257	18.155
28	50.069	-50.069	-18.155	28.169
29	58.680	-58.680	-28.169	39.905
30	67.567	-67.567	-39.905	53.418
31	76.634	-76.634	-53.418	68.745
32	67.414	-67.414	-68.745	82.228
33	57.603	-57.603	-82.228	93.749
34	47.645	-47.645	-93.749	103.28
35	37.632	-37.632	-103.28	110.80
36	27.689	-27.689	-110.80	116.34
37	18.014	-18.014	-116.34	119.94
38	8.6448	-8.6448	-119.94	121.67
39	-0.49763	0.49763	-121.67	121.57
40	-9.3814	9.3814	-121.57	119.70
41	-17.513	17.513	-119.70	116.20
42	-24.250	24.250	-116.20	111.35
43	-29.800	29.800	-111.35	105.39
44	-34.166	34.166	-105.39	98.552
45	-37.539	37.539	-98.552	91.044
46	-39.923	39.923	-91.044	83.060
47	-41.475	41.475	-83.060	74.765
48	-42.176	42.176	-74.765	66.330
49	-42.175	42.175	-66.330	57.895
50	-41.442	41.442	-57.895	49.606
51	-40.106	40.106	-49.606	41.585
52	-38.123	38.123	-41.585	33.961
53	-35.607	35.607	-33.961	26.839
54	-32.515	32.515	-26.839	20.336
55	-28.931	28.931	-20.336	14.550
56	-24.793	24.793	-14.550	9.5915
57	-20.186	20.186	-9.5915	5.5544
58	-15.041	15.041	-5.5544	2.5462
59	-9.4346	9.4346	-2.5462	0.65923
60	-3.2960	3.2960	-0.65923	1.01952E-12

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
941 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      18:02:25                             |
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New Project

STRESS RESULTS FOR GROUP NO. 4

```

Tirante1_429      :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
CURRENT TIME IS  5.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	99.123	-6.38098E-04	1.33020E-03	0.0000	2633.3	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.Nominal_63                       |
|                               Exe Time :29 July 2019      18:02:25                             |
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FINAL INCREMENTAL ANALYSIS

SUMMARY

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	2
2	CONVERGENCE :YES	4
3	CONVERGENCE :YES	5
4	CONVERGENCE :YES	4
5	CONVERGENCE :YES	6

END OF PROCESS FOR PROBLEM

New Project

```

NONLINEAR SOLUTION CPU TIME .... 0.08 [sec]
DATABASE CREATION CPU TIME..... 0.27 [sec]

```

4.3. Design Assumption : SLE (Rara) - File di Paratie - File di input (.d)

* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: SLE (Rara)

* Time:lunedì 29 luglio 2019 18:02:25

* 1: Defining general settings

UNIT m kN

TITLE New Project

DELTA 0.2

option param itemax 100

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)

WALL LeftWall_32 0 -12 0 1

* 3: Defining surfaces for wall(s)

SOIL 0_L LeftWall_32 -12 0 1 0

SOIL 0_R LeftWall_32 -12 0 2 180

* 4: Defining soil layers

*

* Soil Profile (Strato1_2_8_L_0)

*

LDATA Strato1_2_8_L_0 0 LeftWall_32

ATREST 0.53 1 1

WEIGHT 19 9 10

PERMEABILITY 1E-06

RESISTANCE 0 29

YOUNG 2E+04 6E+04

ENDL

*

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 942 di 1221
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* Soil Profile (Strato2_3095_82743_L_0)

```
*
LDATA Strato2_3095_82743_L_0 -6.1 LeftWall_32
ATREST 0.5 0.5 1
WEIGHT 20 10 10
PERMEABILITY 0.0001
RESISTANCE 20 35
YOUNG 5E+04 1.5E+05
ENDL
```

* 5: Defining structural materials

```
* Steel material: 108 Name=Fe360 E=206000200 kPa
MATERIAL Fe360_108 2.06E+08
* Concrete material: 104 Name=C25/30 E=31475800 kPa
MATERIAL C2530_104 3.148E+07
* Rebar material: 124 Name=acciaio armonico E=200100000 kPa
MATERIAL acciaioarmonico_124 2.001E+08
* Concrete material: 103 Name=C20/25 E=29962000 kPa
MATERIAL C2025_103 2.996E+07
```

* 6: Defining structural elements

```
* 6.1: Beams and combined Wall Elements
BEAM WallElement_33 LeftWall_32 -12 0 C2530_104 0.6848 00 00 0
```

* 6.2: Supports

```
WIRE Tirantel_429 LeftWall_32 -2.4 acciaioarmonico_124 1.316E-05 93.94 15 0 0
```

* 6.3: Strips

```
STRIP LeftWall_32 2 5 0 40 0 10 30
STRIP LeftWall_32 2 5 0 40 0 41.8 45
```

* 7: Defining Steps

```
STEP Stage1_31
CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32
CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32
CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32
CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32
CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-COHE=20 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -26 0 -12 0 0
ADD WallElement_33
ENDSTEP
```

STEP Stage2_755438

```
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -26 0 -12 0 0
ENDSTEP
```

STEP Stage3_158

```
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -2.9
WATER -26 0 -12 0 0
ENDSTEP
```

STEP Stage4_617

```
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 943 di 1221
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```
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -2.9
WATER -26 0 -12 0 0
ADD Tirante1_429
ENDSTEP
```

```
STEP Stage5_714
CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -6.1
WATER -26 0 -12 0 0
ENDSTEP
```

4.4. Design Assumption : SLE (Rara) - File di Paratie - File di output (.out)

```
-----
PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|                               NewProject.BaseDesignSection_28.SLERara_3454
|                               Exe Time :29 July 2019      18:02:25
|
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```

```
*****
*
* PARATIE PLUS Non-Linear Spring Engine
*
* AN ELASTOPLASTIC FINITE ELEMENT PROGRAM
* FOR FLEXIBLE EARTH-RETAINING STRUCTURES
*
* Written by Ce.A.S. s.r.l. (ITALY)
* with the scientific supervision of
* Roberto Nova - full professor SOIL MECHANICS
* at Politecnico di Milano (ITALY)
*
*****
*
* RELEASE  2017.1      *Build date:Jul 11, 2017*
*
*
* Ce.A.S.      S.R.L  CENTRO DI ANALISI STRUTTURALE
*              VIALE GIUSTINIANO 10
*              20129  M I L A N O (ITALIA)
* TEL.        +39 02 2020221  (+39 035 23 67 19)
* FAX         +39 02 29512533 (+39 035 42285 49)
* email       bruno.becci@ceas.it
* Web Page    www.ceas.it
*****
```

```
JOB : NewProject.BaseDesignSection_28.SLERara_3454
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL STRESS >
ACCEPTED <PARAM ITEMAX 100 >
ACCEPTED <CONTROL HINGES 0 0.0001 0.001 >
```

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

PRELIMINARY OPERATIONS CPU TIME 0.01 [sec]

GENERAL CONTRACTOR

Cepav due



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
944 di 1221

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+-----+
|           PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017*   |
|                                                                           |
|           NewProject.BaseDesignSection_28.SLERara_3454   |
|           Exe Time :29 July 2019       18:02:25           |
+-----+
```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```
NO. OF NODAL POINTS (NUMNP) ..... 61
NO. OF COORDINATES (NCOORD) ..... 2
NO. OF NODE DOFS (NDOF) ..... 2
NO. OF EQUATIONS (NEQ) ..... 122
NO. OF CONSTRAINTS CARDS (NVINC) ..... 0
NO. OF ELEMENT GROUPS (NEG) ..... 4
NO. OF SOLUTION STEPS (NSTE) ..... 5
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 89
NO. OF LONG NAMES (LASTNAME) ..... 21
LENGTH UNIT CHOICE ..... 3 ( M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH ..... 1
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 2017.1   FULL VERSION *Build date:Jul 11, 2017*   |
|                                                                           |
|           NewProject.BaseDesignSection_28.SLERara_3454   |
|           Exe Time :29 July 2019       18:02:25           |
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```

PREPROCESSOR DATA

NO. OF COMMANDS 89

```
1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 100
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -12 0 1
7 : SOIL 0_L LeftWall_32 -12 0 1 0
8 : SOIL 0_R LeftWall_32 -12 0 2 180
9 : LDATA Strato1_2_8_L_0 0 LeftWall_32
10 : ATREST 0.53 1 1
11 : WEIGHT 19 9 10
12 : PERMEABILITY 1E-06
13 : RESISTANCE 0 29
14 : YOUNG 2E+04 6E+04
15 : ENDL
16 : LDATA Strato2_3095_82743_L_0 -6.1 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 20 10 10
19 : PERMEABILITY 0.0001
20 : RESISTANCE 20 35
21 : YOUNG 5E+04 1.5E+05
22 : ENDL
```

GENERAL CONTRACTOR



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GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 945 di 1221
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```

23 : MATERIAL Fe360_108 2.06E+08
24 : MATERIAL C2530_104 3.148E+07
25 : MATERIAL acciaioarmonico_124 2.001E+08
26 : MATERIAL C2025_103 2.996E+07
27 : BEAM WallElement_33 LeftWall_32 -12 0 C2530_104 0.6848 00 00 0
28 : WIRE Tirante1_429 LeftWall_32 -2.4 acciaioarmonico_124 1.316E-05 93.94 15 0 0
29 : STRIP LeftWall_32 2 5 0 40 0 10 30
30 : STRIP LeftWall_32 2 5 0 40 0 41.8 45
31 : STEP Stage1_31
32 : CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32
33 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
34 : CHANGE Strato1_2_8_L_0 U-KA=0.304 LeftWall_32
35 : CHANGE Strato1_2_8_L_0 U-KP=4.041 LeftWall_32
36 : CHANGE Strato1_2_8_L_0 D-KA=0.304 LeftWall_32
37 : CHANGE Strato1_2_8_L_0 D-KP=4.041 LeftWall_32
38 : CHANGE Strato2_3095_82743_L_0 U-FRICT=35 LeftWall_32
39 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
40 : CHANGE Strato2_3095_82743_L_0 U-KA=0.235 LeftWall_32
41 : CHANGE Strato2_3095_82743_L_0 U-KP=5.879 LeftWall_32
42 : CHANGE Strato2_3095_82743_L_0 D-KA=0.235 LeftWall_32
43 : CHANGE Strato2_3095_82743_L_0 D-KP=5.879 LeftWall_32
44 : CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
45 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
46 : CHANGE Strato2_3095_82743_L_0 U-COHE=20 LeftWall_32
47 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
48 : SETWALL LeftWall_32
49 : GEOM 0 0
50 : WATER -26 0 -12 0 0
51 : ADD WallElement_33
52 : ENDSTEP
53 : STEP Stage2_755438
54 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
55 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
56 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
57 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
58 : SETWALL LeftWall_32
59 : GEOM 0 0
60 : WATER -26 0 -12 0 0
61 : ENDSTEP
62 : STEP Stage3_158
63 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
64 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
65 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
66 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
67 : SETWALL LeftWall_32
68 : GEOM 0 -2.9
69 : WATER -26 0 -12 0 0
70 : ENDSTEP
71 : STEP Stage4_617
72 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
73 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
74 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
75 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
76 : SETWALL LeftWall_32
77 : GEOM 0 -2.9
78 : WATER -26 0 -12 0 0
79 : ADD Tirante1_429
80 : ENDSTEP
81 : STEP Stage5_714
82 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
83 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
84 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
85 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
86 : SETWALL LeftWall_32
87 : GEOM 0 -6.1
88 : WATER -26 0 -12 0 0
89 : ENDSTEP

```

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
946 di 1221

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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454 |
|          Exe Time :29 July 2019      18:02:25      |
+-----+

```

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 -10.000 /	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 /							

```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454 |
|          Exe Time :29 July 2019      18:02:25      |
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```

ELEMENT GROUP NO. 1

```

0_L :
5 61 0 1 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0

```

```

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

```

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	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

```

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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 947 di 1221
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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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	0.2000	0.000	0.000	0.000	1.000
28	28	1	0.2000	0.000	0.000	0.000	1.000
29	29	1	0.2000	0.000	0.000	0.000	1.000
30	30	1	0.2000	0.000	0.000	0.000	1.000
31	31	1	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	0.1000	0.000	0.000	0.000	1.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SLERara_3454          |
|          Exe Time :29 July 2019          18:02:25          |
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```

```

ELEMENT GROUP NO. 2

0_R
 5 61 0 1 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0

```

```

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

element group behaviour throughout stage analysis

```

```

stage  status
-----
 1  active
 2  active
 3  active
 4  active
 5  active

```

```

material set no. 1

prop( 1) angle          180.000
prop( 2) layer as foreseen 1.00000

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 948 di 1221
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material set no. 2

prop(1) angle 180.000
prop(2) layer as foreseen 2.00000

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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000
24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	0.2000	0.000	0.000	0.000	2.000
28	28	1	0.2000	0.000	0.000	0.000	2.000
29	29	1	0.2000	0.000	0.000	0.000	2.000
30	30	1	0.2000	0.000	0.000	0.000	2.000
31	31	1	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	0.1000	0.000	0.000	0.000	2.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                     |
|          NewProject.BaseDesignSection_28.SLERara_3454                                             |
|          Exe Time :29 July 2019  18:02:25                                                         |
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```

ELEMENT GROUP NO. 3

WallElement_33 :



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 949 di 1221
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2 60 0 1 0 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
4	active
5	active

material set no. 1

prop(1) young modulus 0.314800E+08
 prop(2) modification time 0.00000
 prop(3) new young modulus 0.00000
 prop(4) poisson ratio 0.00000
 prop(5) future0.252200E-43

no. of step variable items: 1

step	inertia multiplier
1	1.000
2	1.000
3	1.000
4	1.000
5	1.000

element data

el	na	nb	mat	erc1	erc2	thick	by-i	by-j
1	1	2	1	0.000	0.000	0.6848	0.000	0.000
2	2	3	1	0.000	0.000	0.6848	0.000	0.000
3	3	4	1	0.000	0.000	0.6848	0.000	0.000
4	4	5	1	0.000	0.000	0.6848	0.000	0.000
5	5	6	1	0.000	0.000	0.6848	0.000	0.000
6	6	7	1	0.000	0.000	0.6848	0.000	0.000
7	7	8	1	0.000	0.000	0.6848	0.000	0.000
8	8	9	1	0.000	0.000	0.6848	0.000	0.000
9	9	10	1	0.000	0.000	0.6848	0.000	0.000
10	10	11	1	0.000	0.000	0.6848	0.000	0.000
11	11	12	1	0.000	0.000	0.6848	0.000	0.000
12	12	13	1	0.000	0.000	0.6848	0.000	0.000
13	13	14	1	0.000	0.000	0.6848	0.000	0.000
14	14	15	1	0.000	0.000	0.6848	0.000	0.000
15	15	16	1	0.000	0.000	0.6848	0.000	0.000
16	16	17	1	0.000	0.000	0.6848	0.000	0.000
17	17	18	1	0.000	0.000	0.6848	0.000	0.000
18	18	19	1	0.000	0.000	0.6848	0.000	0.000
19	19	20	1	0.000	0.000	0.6848	0.000	0.000
20	20	21	1	0.000	0.000	0.6848	0.000	0.000
21	21	22	1	0.000	0.000	0.6848	0.000	0.000
22	22	23	1	0.000	0.000	0.6848	0.000	0.000
23	23	24	1	0.000	0.000	0.6848	0.000	0.000
24	24	25	1	0.000	0.000	0.6848	0.000	0.000
25	25	26	1	0.000	0.000	0.6848	0.000	0.000
26	26	27	1	0.000	0.000	0.6848	0.000	0.000
27	27	28	1	0.000	0.000	0.6848	0.000	0.000
28	28	29	1	0.000	0.000	0.6848	0.000	0.000
29	29	30	1	0.000	0.000	0.6848	0.000	0.000
30	30	31	1	0.000	0.000	0.6848	0.000	0.000
31	31	32	1	0.000	0.000	0.6848	0.000	0.000
32	32	33	1	0.000	0.000	0.6848	0.000	0.000
33	33	34	1	0.000	0.000	0.6848	0.000	0.000
34	34	35	1	0.000	0.000	0.6848	0.000	0.000
35	35	36	1	0.000	0.000	0.6848	0.000	0.000
36	36	37	1	0.000	0.000	0.6848	0.000	0.000
37	37	38	1	0.000	0.000	0.6848	0.000	0.000
38	38	39	1	0.000	0.000	0.6848	0.000	0.000
39	39	40	1	0.000	0.000	0.6848	0.000	0.000
40	40	41	1	0.000	0.000	0.6848	0.000	0.000
41	41	42	1	0.000	0.000	0.6848	0.000	0.000
42	42	43	1	0.000	0.000	0.6848	0.000	0.000
43	43	44	1	0.000	0.000	0.6848	0.000	0.000
44	44	45	1	0.000	0.000	0.6848	0.000	0.000
45	45	46	1	0.000	0.000	0.6848	0.000	0.000
46	46	47	1	0.000	0.000	0.6848	0.000	0.000
47	47	48	1	0.000	0.000	0.6848	0.000	0.000
48	48	49	1	0.000	0.000	0.6848	0.000	0.000

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 950 di 1221
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49	49	50	1	0.000	0.000	0.6848	0.000	0.000
50	50	51	1	0.000	0.000	0.6848	0.000	0.000
51	51	52	1	0.000	0.000	0.6848	0.000	0.000
52	52	53	1	0.000	0.000	0.6848	0.000	0.000
53	53	54	1	0.000	0.000	0.6848	0.000	0.000
54	54	55	1	0.000	0.000	0.6848	0.000	0.000
55	55	56	1	0.000	0.000	0.6848	0.000	0.000
56	56	57	1	0.000	0.000	0.6848	0.000	0.000
57	57	58	1	0.000	0.000	0.6848	0.000	0.000
58	58	59	1	0.000	0.000	0.6848	0.000	0.000
59	59	60	1	0.000	0.000	0.6848	0.000	0.000
60	60	61	1	0.000	0.000	0.6848	0.000	0.000

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:02:25  |
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```

```

ELEMENT GROUP NO.  4

Tirante1_429      :
 6  1  0  1  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  2  0
.....
.....2D POST-TENSION ANCHOR.....
.....

```

element group behaviour throughout stage analysis

stage	status
1	inactive
2	inactive
3	inactive
4	active
5	active

```

material set no.  1

prop( 1) angle      15.0000
prop( 2) young modulus 0.200100E+09
prop( 3) modification time 0.00000
prop( 4) new young modulus 0.00000

```

```

no. of step variable items:  2

```

step	-ve lim	+ve lim
1	0.000	0.000
2	0.000	0.000
3	0.000	0.000
4	0.000	0.000
5	0.000	0.000

```

element data

```

el	n	mat	a/l	pinit	yieldc	yieldt
1	13	1	0.1316E-04	93.94	0.000	0.000

```

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|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:02:25  |
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```

NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 10
MAXIMUM POINTS/LCURVE (NPTM) ..... 5

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
951 di 1221

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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:02:25          |
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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
6.00000	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
6.00000	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
6.00000	0.0000E+00

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
4.20000	0.0000E+00
6.00000	0.0000E+00

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 5

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
5.20000	0.0000E+00
6.00000	0.0000E+00

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
952 di 1221

1.00000 0.1000E+01
6.00000 0.1000E+01

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000 0.0000E+00
1.80000 0.0000E+00
2.00000 0.1000E+01
6.00000 0.1000E+01

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000 0.0000E+00
2.80000 0.0000E+00
3.00000 0.1000E+01
6.00000 0.1000E+01

LOAD FUNCTION NUMBER = 9
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000 0.0000E+00
3.80000 0.0000E+00
4.00000 0.1000E+01
6.00000 0.1000E+01

LOAD FUNCTION NUMBER = 10
NUMBER OF TIME POINTS = 4

TIME VALUE FUNCTION

0.00000 0.0000E+00
4.80000 0.0000E+00
5.00000 0.1000E+01
6.00000 0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
953 di 1221

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:02:25  |
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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

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

STEP   5  TOTAL APPLIED LOAD IN DIR.  2  Y-DISPL.F      0.0000000
STEP   5  TOTAL APPLIED LOAD IN DIR.  4  X-ROT. F      0.0000000

```

LOAD INPUT SECTION COMPLETED

```

+-----+
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|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:02:25  |
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NO. OF LAYERS ..... 2
NO. OF DATA PER LAYER..... 100

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:02:25  |
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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    >= 14.000    (BOTH WALLS)
ITEM NO.  2<NATURE >= 1.0000   (BOTH WALLS)
ITEM NO.  3<LEVEL  >= 0.0000   (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.  9<U-FRICT >= 29.000   (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.30400  WALL NO.    1
ITEM NO. 11<U-KP   >= 4.0410   WALL NO.    1
ITEM NO. 12<K0-NC >= 0.53000   (BOTH WALLS)
ITEM NO. 13<NEXP  >= 1.0000   (BOTH WALLS)
ITEM NO. 14<OCR   >= 1.0000   (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000   (BOTH WALLS)
ITEM NO. 17<EVC   >= 20000.   (BOTH WALLS)
ITEM NO. 18<EUR   >= 60000.   (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000   (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 29.000   (BOTH WALLS)
ITEM NO. 60<D-KA   >= 0.30400  WALL NO.    1
ITEM NO. 61<D-KP   >= 4.0410   WALL NO.    1
ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

```

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

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 954 di 1221
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ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -6.1000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

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

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -6.1000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 955 di 1221
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NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 3

ITEM NO.	1<NAME	>= 14.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(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.	9<U-FRICT	>= 29.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.30400	WALL NO.	1
ITEM NO.	11<U-KP	>= 4.0410	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.53000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 1.0000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 20000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 60000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-05	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 29.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.30400	WALL NO.	1
ITEM NO.	61<D-KP	>= 4.0410	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-05	(BOTH WALLS)	

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

ITEM NO.	1<NAME	>= 15.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -6.1000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 20.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 20.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.23500	WALL NO.	1
ITEM NO.	11<U-KP	>= 5.8790	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	>= 50000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 20.000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.23500	WALL NO.	1
ITEM NO.	61<D-KP	>= 5.8790	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO.	1<NAME	>= 14.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(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.	9<U-FRICT	>= 29.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.30400	WALL NO.	1
ITEM NO.	11<U-KP	>= 4.0410	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.53000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 1.0000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 20000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 60000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-05	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 29.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.30400	WALL NO.	1
ITEM NO.	61<D-KP	>= 4.0410	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-05	(BOTH WALLS)	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 956 di 1221
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NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 4

ITEM NO.	1<NAME	>= 15.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -6.1000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 20.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 20.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.23500	WALL NO.	1
ITEM NO.	11<U-KP	>= 5.8790	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	>= 50000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>	= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 20.000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.23500	WALL NO.	1
ITEM NO.	61<D-KP	>= 5.8790	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 5

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 5

ITEM NO.	1<NAME	>= 14.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(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.	9<U-FRICT	>= 29.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.30400	WALL NO.	1
ITEM NO.	11<U-KP	>= 4.0410	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.53000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 1.0000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 20000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 60000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-05	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>	= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 29.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.30400	WALL NO.	1
ITEM NO.	61<D-KP	>= 4.0410	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-05	(BOTH WALLS)	

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 5

ITEM NO.	1<NAME	>= 15.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -6.1000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 20.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 20.000	(BOTH WALLS)	
ITEM NO.	9<U-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	10<U-KA	>= 0.23500	WALL NO.	1
ITEM NO.	11<U-KP	>= 5.8790	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	>= 50000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>	= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 20.000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 35.000	(BOTH WALLS)	
ITEM NO.	60<D-KA	>= 0.23500	WALL NO.	1
ITEM NO.	61<D-KP	>= 5.8790	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 957 di 1221
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DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 10 VALUES

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      18:02:25
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PHASE DESCRIPTORS

STEP NO.	1	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-12.00	-12.00
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	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-12.00	-12.00
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



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 958 di 1221
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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

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-2.900	0.000
Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-12.00	-12.00
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

STEP NO. 4

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000
Z-EXCAVATION	-2.900	0.000
Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-12.00	-12.00
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 4

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



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INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
959 di 1221

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STEP NO.      5
Y              0.000      LEFT WALL      RIGHT WALL
Z-PC          0.000      0.000
Z-EXCAVATION -6.100      0.000
Z-WATER_TABLE -26.00     -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL 0.000      0.000
ZQ            0.000      0.000
DZW_OF_THE_WATER_TABLE 0.000      0.000
QS_ON_THE_EXCAVATION_SIDE 0.000      0.000
ZQS          -0.9990E+30 -0.9990E+30
ZCUT         0.000      0.000
BALANCE LEVEL FOR PORE PRESSURES -12.00     -12.00
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 5

LEFT-HAND WALL

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LOWER LEVEL      -12.00000
UPPER LEVEL      0.00000

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RIGHT-HAND WALL

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LOWER LEVEL      -12.00000
UPPER LEVEL      0.00000

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                    |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:02:25  |
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INITIAL STRESS TABLES

SECTION

NUMBER OF DEFINED TABLES 2

```

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

```

```

ACTIVATION TIME 2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 5.0000

```

TYPE BOUSSINESQ

```

HORIZONTAL DISTANCE (DY) 0.000000000000000E+000
FOUNDATION WIDTH (B) 40.0000000000000
ZETA-F..... 0.000000000000000E+000
Q-F ..... 10.0000000000000
BETA ..... 30.0000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

```

```

INPUT DATA FOR INITIAL STRESS SET NO. 2
PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 960 di 1221
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ACTIVATION TIME 2.0000
 END TIME (TIME BEYOND WHICH IT IS REMOVED) 5.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 0.000000000000000E+000
 FOUNDATION WIDTH (B) 40.0000000000000
 ZETA-F..... 0.000000000000000E+000
 Q-F 41.8000000000000
 BETA 45.0000000000000
 BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
 POSITION 3530

NO. OF D.P.W FOR THIS AREA 7258
 MAX NO. OF D.P.W. AVAILABLE 81920
 ** MAX NO OF ITERATIONS SET TO 100

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2153E+05 RIMNOR= 0.000
 RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 22.99 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.2153E+05 RDR = 0.000
 RATIO= 0.000 RATIO= 0.000
 MAX UN= 0.000 IEQ= 122 NODE 61 DOF 2 X-ROT. F
 MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2153E+05 RIMNOR= 0.000
 RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 22.99 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.2153E+05 RDR = 0.000
 RATIO= 0.000 RATIO= 0.000
 MAX UN= 0.000 IEQ= 122 NODE 61 DOF 2 X-ROT. F
 MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2153E+05 RIMNOR= 0.000
 RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 22.99 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.2153E+05 RDR = 0.000
 RATIO= 0.000 RATIO= 0.000
 MAX UN= 0.000 IEQ= 122 NODE 61 DOF 2 X-ROT. F
 MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:02:25  |
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New Project
 SOLUTION REACHED USING 2 ITERATIONS ON 100
 PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)

PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)
 Y-DISPL.F X-ROT. F
 (02) (04) (

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS



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Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
961 di 1221

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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:02:25  |
+-----+
    
```

New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	2.1221E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Stratol_2_8_L_0									
2 D	0.4028	0.000	3.800	2.014	3.800	2.014	V-C	2.1221E+04	-0.2000	0.000	1.000	1.000
2.014	0.000	0.000	Stratol_2_8_L_0									
3 D	0.8056	0.000	7.600	4.028	7.600	4.028	V-C	2.1221E+04	-0.4000	0.000	1.000	1.000
4.028	0.000	0.000	Stratol_2_8_L_0									
4 D	1.208	0.000	11.40	6.042	11.40	6.042	V-C	2.1221E+04	-0.6000	0.000	1.000	1.000
6.042	0.000	0.000	Stratol_2_8_L_0									
5 D	1.611	0.000	15.20	8.056	15.20	8.056	V-C	2.1221E+04	-0.8000	0.000	1.000	1.000
8.056	0.000	0.000	Stratol_2_8_L_0									
6 D	2.014	0.000	19.00	10.07	19.00	10.07	V-C	2.1221E+04	-1.000	0.000	1.000	1.000
10.07	0.000	0.000	Stratol_2_8_L_0									
7 D	2.417	0.000	22.80	12.08	22.80	12.08	V-C	2.1221E+04	-1.200	0.000	1.000	1.000
12.08	0.000	0.000	Stratol_2_8_L_0									
8 D	2.820	0.000	26.60	14.10	26.60	14.10	V-C	2.1221E+04	-1.400	0.000	1.000	1.000
14.10	0.000	0.000	Stratol_2_8_L_0									
9 D	3.222	0.000	30.40	16.11	30.40	16.11	V-C	2.1221E+04	-1.600	0.000	1.000	1.000
16.11	0.000	0.000	Stratol_2_8_L_0									
10 D	3.625	0.000	34.20	18.13	34.20	18.13	V-C	2.1221E+04	-1.800	0.000	1.000	1.000
18.13	0.000	0.000	Stratol_2_8_L_0									
11 D	4.028	0.000	38.00	20.14	38.00	20.14	V-C	2.1221E+04	-2.000	0.000	1.000	1.000
20.14	0.000	0.000	Stratol_2_8_L_0									
12 D	4.431	0.000	41.80	22.15	41.80	22.15	V-C	2.1221E+04	-2.200	0.000	1.000	1.000
22.15	0.000	0.000	Stratol_2_8_L_0									
13 D	4.834	0.000	45.60	24.17	45.60	24.17	V-C	2.1221E+04	-2.400	0.000	1.000	1.000
24.17	0.000	0.000	Stratol_2_8_L_0									
14 D	5.236	0.000	49.40	26.18	49.40	26.18	V-C	2.1221E+04	-2.600	0.000	1.000	1.000
26.18	0.000	0.000	Stratol_2_8_L_0									
15 D	5.639	0.000	53.20	28.20	53.20	28.20	V-C	2.1221E+04	-2.800	0.000	1.000	1.000
28.20	0.000	0.000	Stratol_2_8_L_0									
16 D	6.042	0.000	57.00	30.21	57.00	30.21	V-C	2.1221E+04	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Stratol_2_8_L_0									
17 D	6.445	0.000	60.80	32.22	60.80	32.22	V-C	2.1221E+04	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Stratol_2_8_L_0									
18 D	6.848	0.000	64.60	34.24	64.60	34.24	V-C	2.1221E+04	-3.400	0.000	1.000	1.000
34.24	0.000	0.000	Stratol_2_8_L_0									
19 D	7.250	0.000	68.40	36.25	68.40	36.25	V-C	2.1221E+04	-3.600	0.000	1.000	1.000
36.25	0.000	0.000	Stratol_2_8_L_0									
20 D	7.653	0.000	72.20	38.27	72.20	38.27	V-C	2.1221E+04	-3.800	0.000	1.000	1.000
38.27	0.000	0.000	Stratol_2_8_L_0									
21 D	8.056	0.000	76.00	40.28	76.00	40.28	V-C	2.1221E+04	-4.000	0.000	1.000	1.000
40.28	0.000	0.000	Stratol_2_8_L_0									
22 D	8.459	0.000	79.80	42.29	79.80	42.29	V-C	2.1221E+04	-4.200	0.000	1.000	1.000
42.29	0.000	0.000	Stratol_2_8_L_0									
23 D	8.862	0.000	83.60	44.31	83.60	44.31	V-C	2.1221E+04	-4.400	0.000	1.000	1.000
44.31	0.000	0.000	Stratol_2_8_L_0									
24 D	9.264	0.000	87.40	46.32	87.40	46.32	V-C	2.1221E+04	-4.600	0.000	1.000	1.000
46.32	0.000	0.000	Stratol_2_8_L_0									
25 D	9.667	0.000	91.20	48.34	91.20	48.34	V-C	2.1221E+04	-4.800	0.000	1.000	1.000
48.34	0.000	0.000	Stratol_2_8_L_0									
26 D	10.07	0.000	95.00	50.35	95.00	50.35	V-C	2.1221E+04	-5.000	0.000	1.000	1.000
50.35	0.000	0.000	Stratol_2_8_L_0									
27 D	10.47	0.000	98.80	52.36	98.80	52.36	V-C	2.1221E+04	-5.200	0.000	1.000	1.000
52.36	0.000	0.000	Stratol_2_8_L_0									
28 D	10.88	0.000	102.6	54.38	102.6	54.38	V-C	2.1221E+04	-5.400	0.000	1.000	1.000
54.38	0.000	0.000	Stratol_2_8_L_0									
29 D	11.28	0.000	106.4	56.39	106.4	56.39	V-C	2.1221E+04	-5.600	0.000	1.000	1.000
56.39	0.000	0.000	Stratol_2_8_L_0									
30 D	11.68	0.000	110.2	58.41	110.2	58.41	V-C	2.1221E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.				Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 962 di 1221
58.41	0.000	0.000	Strato1_2_8_L_0					
31 D	12.08	0.000	114.0 60.42 114.0	60.42	V-C 2.1221E+04	-6.000	0.000	1.000 1.000
60.42	0.000	0.000	Strato1_2_8_L_0					
32 D	11.79	0.000	117.9 58.95 117.9	58.95	V-C 6.0031E+04	-6.200	0.000	1.000 1.000
58.95	0.000	0.000	Strato2_3095_82743_L_0					
33 D	12.19	0.000	121.9 60.95 121.9	60.95	V-C 6.0031E+04	-6.400	0.000	1.000 1.000
60.95	0.000	0.000	Strato2_3095_82743_L_0					
34 D	12.59	0.000	125.9 62.95 125.9	62.95	V-C 6.0031E+04	-6.600	0.000	1.000 1.000
62.95	0.000	0.000	Strato2_3095_82743_L_0					
35 D	12.99	0.000	129.9 64.95 129.9	64.95	V-C 6.0031E+04	-6.800	0.000	1.000 1.000
64.95	0.000	0.000	Strato2_3095_82743_L_0					
36 D	13.39	0.000	133.9 66.95 133.9	66.95	V-C 6.0031E+04	-7.000	0.000	1.000 1.000
66.95	0.000	0.000	Strato2_3095_82743_L_0					
37 D	13.79	0.000	137.9 68.95 137.9	68.95	V-C 6.0031E+04	-7.200	0.000	1.000 1.000
68.95	0.000	0.000	Strato2_3095_82743_L_0					
38 D	14.19	0.000	141.9 70.95 141.9	70.95	V-C 6.0031E+04	-7.400	0.000	1.000 1.000
70.95	0.000	0.000	Strato2_3095_82743_L_0					
39 D	14.59	0.000	145.9 72.95 145.9	72.95	V-C 6.0031E+04	-7.600	0.000	1.000 1.000
72.95	0.000	0.000	Strato2_3095_82743_L_0					
40 D	14.99	0.000	149.9 74.95 149.9	74.95	V-C 6.0031E+04	-7.800	0.000	1.000 1.000
74.95	0.000	0.000	Strato2_3095_82743_L_0					
41 D	15.39	0.000	153.9 76.95 153.9	76.95	V-C 6.0031E+04	-8.000	0.000	1.000 1.000
76.95	0.000	0.000	Strato2_3095_82743_L_0					
42 D	15.79	0.000	157.9 78.95 157.9	78.95	V-C 6.0031E+04	-8.200	0.000	1.000 1.000
78.95	0.000	0.000	Strato2_3095_82743_L_0					
43 D	16.19	0.000	161.9 80.95 161.9	80.95	V-C 6.0031E+04	-8.400	0.000	1.000 1.000
80.95	0.000	0.000	Strato2_3095_82743_L_0					
44 D	16.59	0.000	165.9 82.95 165.9	82.95	V-C 6.0031E+04	-8.600	0.000	1.000 1.000
82.95	0.000	0.000	Strato2_3095_82743_L_0					
45 D	16.99	0.000	169.9 84.95 169.9	84.95	V-C 6.0031E+04	-8.800	0.000	1.000 1.000
84.95	0.000	0.000	Strato2_3095_82743_L_0					
46 D	17.39	0.000	173.9 86.95 173.9	86.95	V-C 6.0031E+04	-9.000	0.000	1.000 1.000
86.95	0.000	0.000	Strato2_3095_82743_L_0					
47 D	17.79	0.000	177.9 88.95 177.9	88.95	V-C 6.0031E+04	-9.200	0.000	1.000 1.000
88.95	0.000	0.000	Strato2_3095_82743_L_0					
48 D	18.19	0.000	181.9 90.95 181.9	90.95	V-C 6.0031E+04	-9.400	0.000	1.000 1.000
90.95	0.000	0.000	Strato2_3095_82743_L_0					
49 D	18.59	0.000	185.9 92.95 185.9	92.95	V-C 6.0031E+04	-9.600	0.000	1.000 1.000
92.95	0.000	0.000	Strato2_3095_82743_L_0					
50 D	18.99	0.000	189.9 94.95 189.9	94.95	V-C 6.0031E+04	-9.800	0.000	1.000 1.000
94.95	0.000	0.000	Strato2_3095_82743_L_0					
51 D	19.39	0.000	193.9 96.95 193.9	96.95	V-C 6.0031E+04	-10.00	0.000	1.000 1.000
96.95	0.000	0.000	Strato2_3095_82743_L_0					
52 D	19.79	0.000	197.9 98.95 197.9	98.95	V-C 6.0031E+04	-10.20	0.000	1.000 1.000
98.95	0.000	0.000	Strato2_3095_82743_L_0					
53 D	20.19	0.000	201.9 100.9 201.9	100.9	V-C 6.0031E+04	-10.40	0.000	1.000 1.000
100.9	0.000	0.000	Strato2_3095_82743_L_0					
54 D	20.59	0.000	205.9 102.9 205.9	102.9	V-C 6.0031E+04	-10.60	0.000	1.000 1.000
102.9	0.000	0.000	Strato2_3095_82743_L_0					
55 D	20.99	0.000	209.9 104.9 209.9	104.9	V-C 6.0031E+04	-10.80	0.000	1.000 1.000
104.9	0.000	0.000	Strato2_3095_82743_L_0					
56 D	21.39	0.000	213.9 106.9 213.9	106.9	V-C 6.0031E+04	-11.00	0.000	1.000 1.000
106.9	0.000	0.000	Strato2_3095_82743_L_0					
57 D	21.79	0.000	217.9 108.9 217.9	108.9	V-C 6.0031E+04	-11.20	0.000	1.000 1.000
108.9	0.000	0.000	Strato2_3095_82743_L_0					
58 D	22.19	0.000	221.9 110.9 221.9	110.9	V-C 6.0031E+04	-11.40	0.000	1.000 1.000
110.9	0.000	0.000	Strato2_3095_82743_L_0					
59 D	22.59	0.000	225.9 112.9 225.9	112.9	V-C 6.0031E+04	-11.60	0.000	1.000 1.000
112.9	0.000	0.000	Strato2_3095_82743_L_0					
60 D	22.99	0.000	229.9 114.9 229.9	114.9	V-C 6.0031E+04	-11.80	0.000	1.000 1.000
114.9	0.000	0.000	Strato2_3095_82743_L_0					
61 D	11.70	0.000	233.9 116.9 233.9	116.9	V-C 6.0031E+04	-12.00	0.000	1.000 1.000
117.0	0.000	0.000	Strato2_3095_82743_L_0					



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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:02:25  |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	1.4726E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Stratol_2_8_L_0									
2 D	0.4028	0.000	3.800	2.014	3.800	2.014	V-C	1.4726E+04	-0.2000	0.000	1.000	1.000
2.014	0.000	0.000	Stratol_2_8_L_0									
3 D	0.8056	0.000	7.600	4.028	7.600	4.028	V-C	1.4726E+04	-0.4000	0.000	1.000	1.000
4.028	0.000	0.000	Stratol_2_8_L_0									
4 D	1.208	0.000	11.40	6.042	11.40	6.042	V-C	1.4726E+04	-0.6000	0.000	1.000	1.000
6.042	0.000	0.000	Stratol_2_8_L_0									
5 D	1.611	0.000	15.20	8.056	15.20	8.056	V-C	1.4726E+04	-0.8000	0.000	1.000	1.000
8.056	0.000	0.000	Stratol_2_8_L_0									
6 D	2.014	0.000	19.00	10.07	19.00	10.07	V-C	1.4726E+04	-1.000	0.000	1.000	1.000
10.07	0.000	0.000	Stratol_2_8_L_0									
7 D	2.417	0.000	22.80	12.08	22.80	12.08	V-C	1.4726E+04	-1.200	0.000	1.000	1.000
12.08	0.000	0.000	Stratol_2_8_L_0									
8 D	2.820	0.000	26.60	14.10	26.60	14.10	V-C	1.4726E+04	-1.400	0.000	1.000	1.000
14.10	0.000	0.000	Stratol_2_8_L_0									
9 D	3.222	0.000	30.40	16.11	30.40	16.11	V-C	1.4726E+04	-1.600	0.000	1.000	1.000
16.11	0.000	0.000	Stratol_2_8_L_0									
10 D	3.625	0.000	34.20	18.13	34.20	18.13	V-C	1.4726E+04	-1.800	0.000	1.000	1.000
18.13	0.000	0.000	Stratol_2_8_L_0									
11 D	4.028	0.000	38.00	20.14	38.00	20.14	V-C	1.4726E+04	-2.000	0.000	1.000	1.000
20.14	0.000	0.000	Stratol_2_8_L_0									
12 D	4.431	0.000	41.80	22.15	41.80	22.15	V-C	1.4726E+04	-2.200	0.000	1.000	1.000
22.15	0.000	0.000	Stratol_2_8_L_0									
13 D	4.834	0.000	45.60	24.17	45.60	24.17	V-C	1.4726E+04	-2.400	0.000	1.000	1.000
24.17	0.000	0.000	Stratol_2_8_L_0									
14 D	5.236	0.000	49.40	26.18	49.40	26.18	V-C	1.4726E+04	-2.600	0.000	1.000	1.000
26.18	0.000	0.000	Stratol_2_8_L_0									
15 D	5.639	0.000	53.20	28.20	53.20	28.20	V-C	1.4726E+04	-2.800	0.000	1.000	1.000
28.20	0.000	0.000	Stratol_2_8_L_0									
16 D	6.042	0.000	57.00	30.21	57.00	30.21	V-C	1.4726E+04	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Stratol_2_8_L_0									
17 D	6.445	0.000	60.80	32.22	60.80	32.22	V-C	1.4726E+04	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Stratol_2_8_L_0									
18 D	6.848	0.000	64.60	34.24	64.60	34.24	V-C	1.4726E+04	-3.400	0.000	1.000	1.000
34.24	0.000	0.000	Stratol_2_8_L_0									
19 D	7.250	0.000	68.40	36.25	68.40	36.25	V-C	1.4726E+04	-3.600	0.000	1.000	1.000
36.25	0.000	0.000	Stratol_2_8_L_0									
20 D	7.653	0.000	72.20	38.27	72.20	38.27	V-C	1.4726E+04	-3.800	0.000	1.000	1.000
38.27	0.000	0.000	Stratol_2_8_L_0									
21 D	8.056	0.000	76.00	40.28	76.00	40.28	V-C	1.4726E+04	-4.000	0.000	1.000	1.000
40.28	0.000	0.000	Stratol_2_8_L_0									
22 D	8.459	0.000	79.80	42.29	79.80	42.29	V-C	1.4726E+04	-4.200	0.000	1.000	1.000
42.29	0.000	0.000	Stratol_2_8_L_0									
23 D	8.862	0.000	83.60	44.31	83.60	44.31	V-C	1.4726E+04	-4.400	0.000	1.000	1.000
44.31	0.000	0.000	Stratol_2_8_L_0									
24 D	9.264	0.000	87.40	46.32	87.40	46.32	V-C	1.4726E+04	-4.600	0.000	1.000	1.000
46.32	0.000	0.000	Stratol_2_8_L_0									
25 D	9.667	0.000	91.20	48.34	91.20	48.34	V-C	1.4726E+04	-4.800	0.000	1.000	1.000
48.34	0.000	0.000	Stratol_2_8_L_0									
26 D	10.07	0.000	95.00	50.35	95.00	50.35	V-C	1.4726E+04	-5.000	0.000	1.000	1.000
50.35	0.000	0.000	Stratol_2_8_L_0									
27 D	10.47	0.000	98.80	52.36	98.80	52.36	V-C	1.4726E+04	-5.200	0.000	1.000	1.000
52.36	0.000	0.000	Stratol_2_8_L_0									
28 D	10.88	0.000	102.6	54.38	102.6	54.38	V-C	1.4726E+04	-5.400	0.000	1.000	1.000
54.38	0.000	0.000	Stratol_2_8_L_0									
29 D	11.28	0.000	106.4	56.39	106.4	56.39	V-C	1.4726E+04	-5.600	0.000	1.000	1.000
56.39	0.000	0.000	Stratol_2_8_L_0									
30 D	11.68	0.000	110.2	58.41	110.2	58.41	V-C	1.4726E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 964 di 1221
58.41	0.000	0.000	Strato1_2_8_L_0		
31 D	12.08	0.000	114.0 60.42 114.0	60.42	V-C 1.4726E+04 -6.000 0.000 1.000 1.000
60.42	0.000	0.000	Strato1_2_8_L_0		
32 D	11.79	0.000	117.9 58.95 117.9	58.95	V-C 3.2535E+04 -6.200 0.000 1.000 1.000
58.95	0.000	0.000	Strato2_3095_82743_L_0		
33 D	12.19	0.000	121.9 60.95 121.9	60.95	V-C 3.2535E+04 -6.400 0.000 1.000 1.000
60.95	0.000	0.000	Strato2_3095_82743_L_0		
34 D	12.59	0.000	125.9 62.95 125.9	62.95	V-C 3.2535E+04 -6.600 0.000 1.000 1.000
62.95	0.000	0.000	Strato2_3095_82743_L_0		
35 D	12.99	0.000	129.9 64.95 129.9	64.95	V-C 3.2535E+04 -6.800 0.000 1.000 1.000
64.95	0.000	0.000	Strato2_3095_82743_L_0		
36 D	13.39	0.000	133.9 66.95 133.9	66.95	V-C 3.2535E+04 -7.000 0.000 1.000 1.000
66.95	0.000	0.000	Strato2_3095_82743_L_0		
37 D	13.79	0.000	137.9 68.95 137.9	68.95	V-C 3.2535E+04 -7.200 0.000 1.000 1.000
68.95	0.000	0.000	Strato2_3095_82743_L_0		
38 D	14.19	0.000	141.9 70.95 141.9	70.95	V-C 3.2535E+04 -7.400 0.000 1.000 1.000
70.95	0.000	0.000	Strato2_3095_82743_L_0		
39 D	14.59	0.000	145.9 72.95 145.9	72.95	V-C 3.2535E+04 -7.600 0.000 1.000 1.000
72.95	0.000	0.000	Strato2_3095_82743_L_0		
40 D	14.99	0.000	149.9 74.95 149.9	74.95	V-C 3.2535E+04 -7.800 0.000 1.000 1.000
74.95	0.000	0.000	Strato2_3095_82743_L_0		
41 D	15.39	0.000	153.9 76.95 153.9	76.95	V-C 3.2535E+04 -8.000 0.000 1.000 1.000
76.95	0.000	0.000	Strato2_3095_82743_L_0		
42 D	15.79	0.000	157.9 78.95 157.9	78.95	V-C 3.2535E+04 -8.200 0.000 1.000 1.000
78.95	0.000	0.000	Strato2_3095_82743_L_0		
43 D	16.19	0.000	161.9 80.95 161.9	80.95	V-C 3.2535E+04 -8.400 0.000 1.000 1.000
80.95	0.000	0.000	Strato2_3095_82743_L_0		
44 D	16.59	0.000	165.9 82.95 165.9	82.95	V-C 3.2535E+04 -8.600 0.000 1.000 1.000
82.95	0.000	0.000	Strato2_3095_82743_L_0		
45 D	16.99	0.000	169.9 84.95 169.9	84.95	V-C 3.2535E+04 -8.800 0.000 1.000 1.000
84.95	0.000	0.000	Strato2_3095_82743_L_0		
46 D	17.39	0.000	173.9 86.95 173.9	86.95	V-C 3.2535E+04 -9.000 0.000 1.000 1.000
86.95	0.000	0.000	Strato2_3095_82743_L_0		
47 D	17.79	0.000	177.9 88.95 177.9	88.95	V-C 3.2535E+04 -9.200 0.000 1.000 1.000
88.95	0.000	0.000	Strato2_3095_82743_L_0		
48 D	18.19	0.000	181.9 90.95 181.9	90.95	V-C 3.2535E+04 -9.400 0.000 1.000 1.000
90.95	0.000	0.000	Strato2_3095_82743_L_0		
49 D	18.59	0.000	185.9 92.95 185.9	92.95	V-C 3.2535E+04 -9.600 0.000 1.000 1.000
92.95	0.000	0.000	Strato2_3095_82743_L_0		
50 D	18.99	0.000	189.9 94.95 189.9	94.95	V-C 3.2535E+04 -9.800 0.000 1.000 1.000
94.95	0.000	0.000	Strato2_3095_82743_L_0		
51 D	19.39	0.000	193.9 96.95 193.9	96.95	V-C 3.2535E+04 -10.00 0.000 1.000 1.000
96.95	0.000	0.000	Strato2_3095_82743_L_0		
52 D	19.79	0.000	197.9 98.95 197.9	98.95	V-C 3.2535E+04 -10.20 0.000 1.000 1.000
98.95	0.000	0.000	Strato2_3095_82743_L_0		
53 D	20.19	0.000	201.9 100.9 201.9	100.9	V-C 3.2535E+04 -10.40 0.000 1.000 1.000
100.9	0.000	0.000	Strato2_3095_82743_L_0		
54 D	20.59	0.000	205.9 102.9 205.9	102.9	V-C 3.2535E+04 -10.60 0.000 1.000 1.000
102.9	0.000	0.000	Strato2_3095_82743_L_0		
55 D	20.99	0.000	209.9 104.9 209.9	104.9	V-C 3.2535E+04 -10.80 0.000 1.000 1.000
104.9	0.000	0.000	Strato2_3095_82743_L_0		
56 D	21.39	0.000	213.9 106.9 213.9	106.9	V-C 3.2535E+04 -11.00 0.000 1.000 1.000
106.9	0.000	0.000	Strato2_3095_82743_L_0		
57 D	21.79	0.000	217.9 108.9 217.9	108.9	V-C 3.2535E+04 -11.20 0.000 1.000 1.000
108.9	0.000	0.000	Strato2_3095_82743_L_0		
58 D	22.19	0.000	221.9 110.9 221.9	110.9	V-C 3.2535E+04 -11.40 0.000 1.000 1.000
110.9	0.000	0.000	Strato2_3095_82743_L_0		
59 D	22.59	0.000	225.9 112.9 225.9	112.9	V-C 3.2535E+04 -11.60 0.000 1.000 1.000
112.9	0.000	0.000	Strato2_3095_82743_L_0		
60 D	22.99	0.000	229.9 114.9 229.9	114.9	V-C 3.2535E+04 -11.80 0.000 1.000 1.000
114.9	0.000	0.000	Strato2_3095_82743_L_0		
61 D	11.70	0.000	233.9 116.9 233.9	116.9	V-C 3.2535E+04 -12.00 0.000 1.000 1.000
117.0	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
965 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|          NewProject.BaseDesignSection_28.SLERara_3454                                                                                   |
|          Exe Time :29 July 2019          18:02:25                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 3

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WallElement_33          :
ELEMENT TYPE          2 NO.OF ELEMENTS. IN THIS GROUP    60
CURRENT TIME IS      1.0000

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000
31	0.0000	0.0000	0.0000	0.0000
32	0.0000	0.0000	0.0000	0.0000
33	0.0000	0.0000	0.0000	0.0000
34	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000
36	0.0000	0.0000	0.0000	0.0000
37	0.0000	0.0000	0.0000	0.0000
38	0.0000	0.0000	0.0000	0.0000
39	0.0000	0.0000	0.0000	0.0000
40	0.0000	0.0000	0.0000	0.0000
41	0.0000	0.0000	0.0000	0.0000
42	0.0000	0.0000	0.0000	0.0000
43	0.0000	0.0000	0.0000	0.0000
44	0.0000	0.0000	0.0000	0.0000
45	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000
47	0.0000	0.0000	0.0000	0.0000
48	0.0000	0.0000	0.0000	0.0000
49	0.0000	0.0000	0.0000	0.0000
50	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	0.0000	0.0000
52	0.0000	0.0000	0.0000	0.0000
53	0.0000	0.0000	0.0000	0.0000
54	0.0000	0.0000	0.0000	0.0000
55	0.0000	0.0000	0.0000	0.0000
56	0.0000	0.0000	0.0000	0.0000
57	0.0000	0.0000	0.0000	0.0000
58	0.0000	0.0000	0.0000	0.0000
59	0.0000	0.0000	0.0000	0.0000
60	0.0000	0.0000	0.0000	0.0000

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
966 di 1221

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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:02:25  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

CURRENT TIME IS 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
----	-------	----	--------	---------	---	-----------	-----------

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2736E+05 RIMNOR= 0.000
            RENORM= 787.7      REMNOR= 0.000      RATIO =0.1697      TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 26.58      RMMAX = 0.000
            RTSMAL=0.1000E-03 RMSMAL= 0.000
            RDT  =0.2736E+05 RDR  = 0.000
            RATIO=0.1697      RATOR= 0.000
            MAX UN= 3.831      IEQ=   15 NODE      8 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=0.2736E+05 RIMNOR= 0.000
            RENORM= 9.438      REMNOR=0.6185E-21 RATIO =0.1857E-01 TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 26.58      RMMAX = 0.000
            RTSMAL=0.1000E-03 RMSMAL= 0.000
            RDT  =0.2736E+05 RDR  = 0.000
            RATIO=0.1857E-01 RATOR= 0.000
            MAX UN= 1.705      IEQ=    5 NODE      3 DOF   1  Y-DISPL.F
            MIN UN=-.9334E-10 IEQ=   41 NODE     21 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      3  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2736E+05 RIMNOR= 0.000
            RENORM= 1.231      REMNOR=0.1635E-21 RATIO =0.6708E-02 TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 26.58      RMMAX = 0.000
            RTSMAL=0.1000E-03 RMSMAL= 0.000
            RDT  =0.2736E+05 RDR  = 0.000
            RATIO=0.6708E-02 RATOR= 0.000
            MAX UN=0.8541      IEQ=   19 NODE     10 DOF   1  Y-DISPL.F
            MIN UN=-.7552E-10 IEQ=   11 NODE      6 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

```

```

ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2736E+05 RIMNOR= 0.000
            RENORM=0.2267E-03 REMNOR=0.1414E-21 RATIO =0.9102E-04 TOLER =0.1000E-03  CONVERGED !
            RFMAX = 26.58      RMMAX = 0.000
            RTSMAL=0.1000E-03 RMSMAL= 0.000
            RDT  =0.2736E+05 RDR  = 0.000
            RATIO=0.9102E-04 RATOR= 0.000
            MAX UN=0.1413E-01 IEQ=   53 NODE     27 DOF   1  Y-DISPL.F
            MIN UN=-.1059E-09 IEQ=   11 NODE      6 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
967 di 1221

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|          PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017* |
|          |
|          NewProject.BaseDesignSection_28.SLERara_3454   |
|          Exe Time :29 July 2019   18:02:25               |
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New Project

SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	4.3611515E-04	-6.0171801E-05	
2	4.2408328E-04	-6.0134417E-05	
3	4.1206731E-04	-6.0008036E-05	
4	4.0008710E-04	-5.9776078E-05	
5	3.8816480E-04	-5.9425300E-05	
6	3.7632575E-04	-5.8943019E-05	
7	3.6459683E-04	-5.8322300E-05	
8	3.5300624E-04	-5.7560371E-05	
9	3.4158186E-04	-5.6660667E-05	
10	3.3035052E-04	-5.5632887E-05	
11	3.1933612E-04	-5.4493989E-05	
12	3.0855882E-04	-5.3266561E-05	
13	2.9803346E-04	-5.1979558E-05	
14	2.8776864E-04	-5.0667946E-05	
15	2.7776547E-04	-4.9368578E-05	
16	2.6801820E-04	-4.8114306E-05	
17	2.5851499E-04	-4.6931332E-05	
18	2.4923963E-04	-4.5838940E-05	
19	2.4017258E-04	-4.4849135E-05	
20	2.3129283E-04	-4.3966507E-05	
21	2.2257898E-04	-4.3188740E-05	
22	2.1401097E-04	-4.2506496E-05	
23	2.0557108E-04	-4.1903821E-05	
24	1.9724565E-04	-4.1358044E-05	
25	1.8902597E-04	-4.0840721E-05	
26	1.8090975E-04	-4.0317510E-05	
27	1.7290210E-04	-3.9747817E-05	
28	1.6501687E-04	-3.9085052E-05	
29	1.5727779E-04	-3.8276691E-05	
30	1.4971983E-04	-3.7263728E-05	
31	1.4239028E-04	-3.5981017E-05	
32	1.3535016E-04	-3.4357871E-05	
33	1.2866886E-04	-3.2409287E-05	
34	1.2240174E-04	-3.0231289E-05	
35	1.1658613E-04	-2.7906486E-05	
36	1.1124426E-04	-2.5504953E-05	
37	1.0638538E-04	-2.3085344E-05	
38	1.0200814E-04	-2.0695792E-05	
39	9.8102474E-05	-1.8375090E-05	
40	9.4651468E-05	-1.6153924E-05	
41	9.1632693E-05	-1.4055922E-05	
42	8.9019751E-05	-1.2098142E-05	
43	8.6783327E-05	-1.0292004E-05	
44	8.4892405E-05	-8.6440347E-06	
45	8.3315014E-05	-7.1566688E-06	
46	8.2019109E-05	-5.8288418E-06	
47	8.0973079E-05	-4.6569881E-06	
48	8.0146290E-05	-3.6354930E-06	
49	7.9509354E-05	-2.7569128E-06	
50	7.9034593E-05	-2.0123452E-06	
51	7.8696149E-05	-1.3918111E-06	
52	7.8470314E-05	-8.8452369E-07	
53	7.8335540E-05	-4.7922709E-07	
54	7.8272611E-05	-1.6421336E-07	
55	7.8264605E-05	7.2047784E-08	
56	7.8296939E-05	2.4094505E-07	
57	7.8357252E-05	3.5388408E-07	
58	7.8435523E-05	4.2227657E-07	
59	7.8523949E-05	4.5745951E-07	
60	7.8617044E-05	4.7069423E-07	
61	7.8711511E-05	4.7311945E-07	



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 968 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:02:25          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	1.575	-4.3612E-04	51.80	15.75	51.80	27.45	ACTIVE	0.000	0.000	0.000	1.000	1.000
15.75	0.000	0.000	Stratol_2_8_L_0									
2 D	2.251	-4.2408E-04	37.03	11.26	37.03	19.62	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
11.26	0.000	0.000	Stratol_2_8_L_0									
3 D	2.118	-4.1207E-04	34.84	10.59	34.84	18.47	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
10.59	0.000	0.000	Stratol_2_8_L_0									
4 D	2.846	-4.0009E-04	46.80	14.23	46.80	24.81	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
14.23	0.000	0.000	Stratol_2_8_L_0									
5 D	2.830	-3.8816E-04	46.54	14.15	46.54	24.67	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
14.15	0.000	0.000	Stratol_2_8_L_0									
6 D	3.339	-3.7633E-04	54.92	16.70	54.92	29.11	ACTIVE	0.000	-1.000	0.000	1.000	1.000
16.70	0.000	0.000	Stratol_2_8_L_0									
7 D	3.390	-3.6460E-04	55.76	16.95	55.76	29.55	ACTIVE	0.000	-1.200	0.000	1.000	1.000
16.95	0.000	0.000	Stratol_2_8_L_0									
8 D	3.815	-3.5301E-04	62.75	19.07	62.75	33.25	ACTIVE	0.000	-1.400	0.000	1.000	1.000
19.07	0.000	0.000	Stratol_2_8_L_0									
9 D	3.864	-3.4158E-04	63.56	19.32	63.56	33.68	ACTIVE	0.000	-1.600	0.000	1.000	1.000
19.32	0.000	0.000	Stratol_2_8_L_0									
10 D	4.248	-3.3035E-04	69.87	21.24	69.87	37.03	ACTIVE	0.000	-1.800	0.000	1.000	1.000
21.24	0.000	0.000	Stratol_2_8_L_0									
11 D	4.367	-3.1934E-04	71.83	21.84	71.83	38.07	ACTIVE	0.000	-2.000	0.000	1.000	1.000
21.84	0.000	0.000	Stratol_2_8_L_0									
12 D	4.721	-3.0856E-04	77.65	23.61	77.65	41.16	ACTIVE	0.000	-2.200	0.000	1.000	1.000
23.61	0.000	0.000	Stratol_2_8_L_0									
13 D	4.857	-2.9803E-04	79.88	24.28	79.88	42.34	ACTIVE	0.000	-2.400	0.000	1.000	1.000
24.28	0.000	0.000	Stratol_2_8_L_0									
14 D	5.386	-2.8777E-04	85.38	26.93	85.38	45.25	UL-RL	6.3662E+04	-2.600	0.000	1.000	1.000
26.93	0.000	0.000	Stratol_2_8_L_0									
15 D	5.771	-2.7777E-04	87.81	28.86	87.81	46.54	UL-RL	6.3662E+04	-2.800	0.000	1.000	1.000
28.86	0.000	0.000	Stratol_2_8_L_0									
16 D	6.414	-2.6802E-04	92.70	32.07	92.70	49.13	UL-RL	6.3662E+04	-3.000	0.000	1.000	1.000
32.07	0.000	0.000	Stratol_2_8_L_0									
17 D	6.812	-2.5851E-04	95.31	34.06	95.31	50.52	UL-RL	6.3662E+04	-3.200	0.000	1.000	1.000
34.06	0.000	0.000	Stratol_2_8_L_0									
18 D	7.470	-2.4924E-04	100.4	37.35	100.4	53.22	UL-RL	6.3662E+04	-3.400	0.000	1.000	1.000
37.35	0.000	0.000	Stratol_2_8_L_0									
19 D	7.876	-2.4017E-04	103.1	39.38	103.1	54.67	UL-RL	6.3662E+04	-3.600	0.000	1.000	1.000
39.38	0.000	0.000	Stratol_2_8_L_0									
20 D	8.514	-2.3129E-04	108.1	42.57	108.1	57.30	UL-RL	6.3662E+04	-3.800	0.000	1.000	1.000
42.57	0.000	0.000	Stratol_2_8_L_0									
21 D	8.925	-2.2258E-04	110.9	44.63	110.9	58.80	UL-RL	6.3662E+04	-4.000	0.000	1.000	1.000
44.63	0.000	0.000	Stratol_2_8_L_0									
22 D	9.547	-2.1401E-04	115.8	47.74	115.8	61.36	UL-RL	6.3662E+04	-4.200	0.000	1.000	1.000
47.74	0.000	0.000	Stratol_2_8_L_0									
23 D	9.964	-2.0557E-04	118.7	49.82	118.7	62.91	UL-RL	6.3662E+04	-4.400	0.000	1.000	1.000
49.82	0.000	0.000	Stratol_2_8_L_0									
24 D	10.55	-1.9725E-04	123.2	52.73	123.2	65.29	UL-RL	6.3662E+04	-4.600	0.000	1.000	1.000
52.73	0.000	0.000	Stratol_2_8_L_0									
25 D	10.97	-1.8903E-04	126.2	54.84	126.2	66.88	UL-RL	6.3662E+04	-4.800	0.000	1.000	1.000
54.84	0.000	0.000	Stratol_2_8_L_0									
26 D	11.57	-1.8091E-04	130.9	57.84	130.9	69.36	UL-RL	6.3662E+04	-5.000	0.000	1.000	1.000
57.84	0.000	0.000	Stratol_2_8_L_0									
27 D	11.99	-1.7290E-04	133.9	59.97	133.9	70.97	UL-RL	6.3662E+04	-5.200	0.000	1.000	1.000
59.97	0.000	0.000	Stratol_2_8_L_0									
28 D	12.58	-1.6502E-04	138.5	62.91	138.5	73.42	UL-RL	6.3662E+04	-5.400	0.000	1.000	1.000
62.91	0.000	0.000	Stratol_2_8_L_0									
29 D	13.01	-1.5728E-04	141.6	65.05	141.6	75.06	UL-RL	6.3662E+04	-5.600	0.000	1.000	1.000
65.05	0.000	0.000	Stratol_2_8_L_0									
30 D	13.59	-1.4972E-04	146.2	67.94	146.2	77.47	UL-RL	6.3662E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 969 di 1221
67.94	0.000	0.000	Strato1_2_8_L_0		
31 D	13.99	-1.4239E-04	149.1 69.97	149.1	79.04
69.97	0.000	0.000	Strato1_2_8_L_0		
32 D	10.50	-1.3535E-04	153.7 52.49	153.7	76.87
52.49	0.000	0.000	Strato2_3095_82743_L_0		
33 D	11.08	-1.2867E-04	157.1 55.39	157.1	78.56
55.39	0.000	0.000	Strato2_3095_82743_L_0		
34 D	11.77	-1.2240E-04	161.8 58.85	161.8	80.89
58.85	0.000	0.000	Strato2_3095_82743_L_0		
35 D	12.32	-1.1659E-04	165.2 61.61	165.2	82.60
61.61	0.000	0.000	Strato2_3095_82743_L_0		
36 D	12.98	-1.1124E-04	169.8 64.88	169.8	84.92
64.88	0.000	0.000	Strato2_3095_82743_L_0		
37 D	13.50	-1.0639E-04	173.3 67.48	173.3	86.64
67.48	0.000	0.000	Strato2_3095_82743_L_0		
38 D	14.11	-1.0201E-04	177.9 70.56	177.9	88.94
70.56	0.000	0.000	Strato2_3095_82743_L_0		
39 D	14.59	-9.8102E-05	181.2 72.93	181.2	90.60
72.93	0.000	0.000	Strato2_3095_82743_L_0		
40 D	15.17	-9.4651E-05	185.8 75.83	185.8	92.88
75.83	0.000	0.000	Strato2_3095_82743_L_0		
41 D	15.63	-9.1633E-05	189.3 78.13	189.3	94.63
78.13	0.000	0.000	Strato2_3095_82743_L_0		
42 D	16.17	-8.9020E-05	193.8 80.87	193.8	96.90
80.87	0.000	0.000	Strato2_3095_82743_L_0		
43 D	16.61	-8.6783E-05	197.3 83.04	197.3	98.67
83.04	0.000	0.000	Strato2_3095_82743_L_0		
44 D	17.13	-8.4892E-05	201.8 85.63	201.8	100.9
85.63	0.000	0.000	Strato2_3095_82743_L_0		
45 D	17.54	-8.3315E-05	205.4 87.69	205.4	102.7
87.69	0.000	0.000	Strato2_3095_82743_L_0		
46 D	18.02	-8.2019E-05	209.7 90.10	209.7	104.9
90.10	0.000	0.000	Strato2_3095_82743_L_0		
47 D	18.41	-8.0973E-05	213.3 92.07	213.3	106.7
92.07	0.000	0.000	Strato2_3095_82743_L_0		
48 D	18.89	-8.0146E-05	217.8 94.46	217.8	108.9
94.46	0.000	0.000	Strato2_3095_82743_L_0		
49 D	19.27	-7.9509E-05	221.4 96.36	221.4	110.7
96.36	0.000	0.000	Strato2_3095_82743_L_0		
50 D	19.73	-7.9035E-05	225.8 98.67	225.8	112.9
98.67	0.000	0.000	Strato2_3095_82743_L_0		
51 D	20.11	-7.8696E-05	229.4 100.5	229.4	114.7
100.5	0.000	0.000	Strato2_3095_82743_L_0		
52 D	20.56	-7.8470E-05	233.8 102.8	233.8	116.9
102.8	0.000	0.000	Strato2_3095_82743_L_0		
53 D	20.92	-7.8336E-05	237.5 104.6	237.5	118.7
104.6	0.000	0.000	Strato2_3095_82743_L_0		
54 D	21.36	-7.8273E-05	241.8 106.8	241.8	120.9
106.8	0.000	0.000	Strato2_3095_82743_L_0		
55 D	21.72	-7.8265E-05	245.4 108.6	245.4	122.7
108.6	0.000	0.000	Strato2_3095_82743_L_0		
56 D	22.16	-7.8297E-05	249.8 110.8	249.8	124.9
110.8	0.000	0.000	Strato2_3095_82743_L_0		
57 D	22.52	-7.8357E-05	253.4 112.6	253.4	126.7
112.6	0.000	0.000	Strato2_3095_82743_L_0		
58 D	22.96	-7.8436E-05	257.8 114.8	257.8	128.9
114.8	0.000	0.000	Strato2_3095_82743_L_0		
59 D	23.32	-7.8524E-05	261.5 116.6	261.5	130.7
116.6	0.000	0.000	Strato2_3095_82743_L_0		
60 D	23.75	-7.8617E-05	265.8 118.8	265.8	132.9
118.8	0.000	0.000	Strato2_3095_82743_L_0		
61 D	12.05	-7.8712E-05	269.4 120.5	269.4	134.7
120.5	0.000	0.000	Strato2_3095_82743_L_0		



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 970 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:02:25  |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.000	4.3612E-04	0.000	0.000	0.000	0.000	PASSIVE	0.000	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Stratol_2_8_L_0									
2 D	1.652	4.2408E-04	3.800	8.259	3.800	8.259	V-C	1.4726E+04	-0.2000	0.000	1.000	1.000
8.259	0.000	0.000	Stratol_2_8_L_0									
3 D	2.019	4.1207E-04	7.600	10.10	7.600	10.10	V-C	1.4726E+04	-0.4000	0.000	1.000	1.000
10.10	0.000	0.000	Stratol_2_8_L_0									
4 D	2.387	4.0009E-04	11.40	11.93	11.40	11.93	V-C	1.4726E+04	-0.6000	0.000	1.000	1.000
11.93	0.000	0.000	Stratol_2_8_L_0									
5 D	2.754	3.8816E-04	15.20	13.77	15.20	13.77	V-C	1.4726E+04	-0.8000	0.000	1.000	1.000
13.77	0.000	0.000	Stratol_2_8_L_0									
6 D	3.122	3.7633E-04	19.00	15.61	19.00	15.61	V-C	1.4726E+04	-1.000	0.000	1.000	1.000
15.61	0.000	0.000	Stratol_2_8_L_0									
7 D	3.491	3.6460E-04	22.80	17.45	22.80	17.45	V-C	1.4726E+04	-1.200	0.000	1.000	1.000
17.45	0.000	0.000	Stratol_2_8_L_0									
8 D	3.859	3.5301E-04	26.60	19.30	26.60	19.30	V-C	1.4726E+04	-1.400	0.000	1.000	1.000
19.30	0.000	0.000	Stratol_2_8_L_0									
9 D	4.228	3.4158E-04	30.40	21.14	30.40	21.14	V-C	1.4726E+04	-1.600	0.000	1.000	1.000
21.14	0.000	0.000	Stratol_2_8_L_0									
10 D	4.598	3.3035E-04	34.20	22.99	34.20	22.99	V-C	1.4726E+04	-1.800	0.000	1.000	1.000
22.99	0.000	0.000	Stratol_2_8_L_0									
11 D	4.969	3.1934E-04	38.00	24.84	38.00	24.84	V-C	1.4726E+04	-2.000	0.000	1.000	1.000
24.84	0.000	0.000	Stratol_2_8_L_0									
12 D	5.340	3.0856E-04	41.80	26.70	41.80	26.70	V-C	1.4726E+04	-2.200	0.000	1.000	1.000
26.70	0.000	0.000	Stratol_2_8_L_0									
13 D	5.711	2.9803E-04	45.60	28.56	45.60	28.56	V-C	1.4726E+04	-2.400	0.000	1.000	1.000
28.56	0.000	0.000	Stratol_2_8_L_0									
14 D	6.084	2.8777E-04	49.40	30.42	49.40	30.42	V-C	1.4726E+04	-2.600	0.000	1.000	1.000
30.42	0.000	0.000	Stratol_2_8_L_0									
15 D	6.457	2.7777E-04	53.20	32.29	53.20	32.29	V-C	1.4726E+04	-2.800	0.000	1.000	1.000
32.29	0.000	0.000	Stratol_2_8_L_0									
16 D	6.831	2.6802E-04	57.00	34.16	57.00	34.16	V-C	1.4726E+04	-3.000	0.000	1.000	1.000
34.16	0.000	0.000	Stratol_2_8_L_0									
17 D	7.206	2.5851E-04	60.80	36.03	60.80	36.03	V-C	1.4726E+04	-3.200	0.000	1.000	1.000
36.03	0.000	0.000	Stratol_2_8_L_0									
18 D	7.582	2.4924E-04	64.60	37.91	64.60	37.91	V-C	1.4726E+04	-3.400	0.000	1.000	1.000
37.91	0.000	0.000	Stratol_2_8_L_0									
19 D	7.958	2.4017E-04	68.40	39.79	68.40	39.79	V-C	1.4726E+04	-3.600	0.000	1.000	1.000
39.79	0.000	0.000	Stratol_2_8_L_0									
20 D	8.334	2.3129E-04	72.20	41.67	72.20	41.67	V-C	1.4726E+04	-3.800	0.000	1.000	1.000
41.67	0.000	0.000	Stratol_2_8_L_0									
21 D	8.712	2.2258E-04	76.00	43.56	76.00	43.56	V-C	1.4726E+04	-4.000	0.000	1.000	1.000
43.56	0.000	0.000	Stratol_2_8_L_0									
22 D	9.089	2.1401E-04	79.80	45.45	79.80	45.45	V-C	1.4726E+04	-4.200	0.000	1.000	1.000
45.45	0.000	0.000	Stratol_2_8_L_0									
23 D	9.467	2.0557E-04	83.60	47.34	83.60	47.34	V-C	1.4726E+04	-4.400	0.000	1.000	1.000
47.34	0.000	0.000	Stratol_2_8_L_0									
24 D	9.845	1.9725E-04	87.40	49.23	87.40	49.23	V-C	1.4726E+04	-4.600	0.000	1.000	1.000
49.23	0.000	0.000	Stratol_2_8_L_0									
25 D	10.22	1.8903E-04	91.20	51.12	91.20	51.12	V-C	1.4726E+04	-4.800	0.000	1.000	1.000
51.12	0.000	0.000	Stratol_2_8_L_0									
26 D	10.60	1.8091E-04	95.00	53.01	95.00	53.01	V-C	1.4726E+04	-5.000	0.000	1.000	1.000
53.01	0.000	0.000	Stratol_2_8_L_0									
27 D	10.98	1.7290E-04	98.80	54.91	98.80	54.91	V-C	1.4726E+04	-5.200	0.000	1.000	1.000
54.91	0.000	0.000	Stratol_2_8_L_0									
28 D	11.36	1.6502E-04	102.6	56.81	102.6	56.81	V-C	1.4726E+04	-5.400	0.000	1.000	1.000
56.81	0.000	0.000	Stratol_2_8_L_0									
29 D	11.74	1.5728E-04	106.4	58.70	106.4	58.71	UL-RL	4.4178E+04	-5.600	0.000	1.000	1.000
58.70	0.000	0.000	Stratol_2_8_L_0									
30 D	12.11	1.4972E-04	110.2	60.57	110.2	60.63	UL-RL	4.4178E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
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Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
972 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:02:25  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60
 CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.5747	-1.5747	-2.07478E-12	0.31494
2	2.1741	-2.1741	-0.31494	0.74976
3	2.2731	-2.2731	-0.74976	1.2044
4	2.7320	-2.7320	-1.2044	1.7508
5	2.8072	-2.8072	-1.7508	2.3122
6	3.0242	-3.0242	-2.3122	2.9171
7	2.9239	-2.9239	-2.9171	3.5018
8	2.8795	-2.8795	-3.5018	4.0777
9	2.5153	-2.5153	-4.0777	4.5808
10	2.1653	-2.1653	-4.5808	5.0139
11	1.5639	-1.5639	-5.0139	5.3266
12	0.94557	-0.94557	-5.3266	5.5157
13	9.10382E-02	-9.10382E-02	-5.5157	5.5339
14	-0.60680	0.60680	-5.5339	5.4126
15	-1.2927	1.2927	-5.4126	5.1540
16	-1.7105	1.7105	-5.1540	4.8119
17	-2.1050	2.1050	-4.8119	4.3909
18	-2.2162	2.2162	-4.3909	3.9477
19	-2.2984	2.2984	-3.9477	3.4880
20	-2.1186	2.1186	-3.4880	3.0643
21	-1.9050	1.9050	-3.0643	2.6833
22	-1.4467	1.4467	-2.6833	2.3940
23	-0.95005	0.95005	-2.3940	2.2039
24	-0.24844	0.24844	-2.2039	2.1543
25	0.49643	-0.49643	-2.1543	2.2535
26	1.4616	-1.4616	-2.2535	2.5459
27	2.4587	-2.4587	-2.5459	3.0376
28	3.6742	-3.6742	-3.0376	3.7724
29	4.9442	-4.9442	-3.7724	4.7613
30	6.4182	-6.4182	-4.7613	6.0449
31	7.9222	-7.9222	-6.0449	7.6294
32	5.7858	-5.7858	-7.6294	8.7865
33	3.8777	-3.8777	-8.7865	9.5621
34	2.3061	-2.3061	-9.5621	10.023
35	0.92595	-0.92595	-10.023	10.208
36	-0.16402	0.16402	-10.208	10.176
37	-1.1026	1.1026	-10.176	9.9551
38	-1.7975	1.7975	-9.9551	9.5956
39	-2.3953	2.3953	-9.5956	9.1166
40	-2.7927	2.7927	-9.1166	8.5581
41	-3.1138	3.1138	-8.5581	7.9353
42	-3.2737	3.2737	-7.9353	7.2805
43	-3.3887	3.3887	-7.2805	6.6028
44	-3.3760	3.3760	-6.6028	5.9276
45	-3.3445	3.3445	-5.9276	5.2587
46	-3.2255	3.2255	-5.2587	4.6136
47	-3.1080	3.1080	-4.6136	3.9920
48	-2.9119	2.9119	-3.9920	3.4096
49	-2.7329	2.7329	-3.4096	2.8630
50	-2.4919	2.4919	-2.8630	2.3647
51	-2.2788	2.2788	-2.3647	1.9089
52	-2.0160	2.0160	-1.9089	1.5057
53	-1.7879	1.7879	-1.5057	1.1481
54	-1.5293	1.5293	-1.1481	0.84226
55	-1.3082	1.3082	-0.84226	0.58062
56	-1.0489	1.0489	-0.58062	0.37084
57	-0.82753	0.82753	-0.37084	0.20533
58	-0.57134	0.57134	-0.20533	9.10657E-02
59	-0.35318	0.35318	-9.10657E-02	2.04303E-02
60	-0.10215	0.10215	-2.04303E-02	7.22755E-14

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
973 di 1221

| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| |
| NewProject.BaseDesignSection_28.SLERara_3454 |
Exe Time :29 July 2019 18:02:25

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

Tirante1_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
C U R R E N T T I M E I S 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL FORCE d0 EDISPL pl. eps K -ve limit +ve limit

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2088E+05 RIMNOR= 3223.
RENORM= 564.3 REMNOR=0.1414E-21 RATIO =0.1644 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 23.75 RMMAX = 10.21
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.2088E+05 RDR = 3223.
RATIOT=0.1644 RATIO= 0.000
MAX UN= 6.457 IEQ= 29 NODE 15 DOF 1 Y-DISPL.F
MIN UN=-.5436E-10 IEQ= 49 NODE 25 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2088E+05 RIMNOR= 3223.
RENORM= 224.3 REMNOR=0.6370E-19 RATIO =0.1036 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 23.75 RMMAX = 10.21
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.2088E+05 RDR = 3223.
RATIOT=0.1036 RATIO= 0.000
MAX UN= 7.542 IEQ= 27 NODE 14 DOF 1 Y-DISPL.F
MIN UN=-.1057E-08 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2088E+05 RIMNOR= 3223.
RENORM= 28.87 REMNOR=0.5980E-19 RATIO =0.3719E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 23.75 RMMAX = 10.21
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.2088E+05 RDR = 3223.
RATIOT=0.3719E-01 RATIO= 0.000
MAX UN= 3.701 IEQ= 49 NODE 25 DOF 1 Y-DISPL.F
MIN UN=-.1951E-08 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2088E+05 RIMNOR= 3223.
RENORM=0.7112 REMNOR=0.2280E-19 RATIO =0.5837E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 23.75 RMMAX = 10.21
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.2088E+05 RDR = 3223.
RATIOT=0.5837E-02 RATIO= 0.000
MAX UN=0.7996 IEQ= 65 NODE 33 DOF 1 Y-DISPL.F
MIN UN=-.1434E-08 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2088E+05 RIMNOR= 3223.
RENORM=0.5718E-17 REMNOR=0.2415E-19 RATIO =0.1655E-10 TOLER =0.1000E-03 CONVERGED !
RFMAX = 23.75 RMMAX = 10.21
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.2088E+05 RDR = 3223.
RATIOT=0.1655E-10 RATIO= 0.000
MAX UN=0.1056E-08 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
MIN UN=-.6797E-09 IEQ= 39 NODE 20 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
974 di 1221

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|          PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION   *Build date:Jul 11, 2017*   |
|          |
|          NewProject.BaseDesignSection_28.SLERara_3454   |
|          Exe Time :29 July 2019   18:02:25   |
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New Project

SOLUTION REACHED USING 5 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	6.6899239E-03	-1.1249299E-03	
2	6.4649404E-03	-1.1248925E-03	
3	6.2399754E-03	-1.1247269E-03	
4	6.0150651E-03	-1.1243294E-03	
5	5.7902670E-03	-1.1235821E-03	
6	5.5656646E-03	-1.1223502E-03	
7	5.3413690E-03	-1.1204874E-03	
8	5.1175223E-03	-1.1178338E-03	
9	4.8942996E-03	-1.1142185E-03	
10	4.6719112E-03	-1.1094590E-03	
11	4.4506051E-03	-1.1033629E-03	
12	4.2306688E-03	-1.0957256E-03	
13	4.0124320E-03	-1.0863312E-03	
14	3.7962686E-03	-1.0749526E-03	
15	3.5825991E-03	-1.0613510E-03	
16	3.3718931E-03	-1.0452765E-03	
17	3.1646683E-03	-1.0265051E-03	
18	2.9614792E-03	-1.0049111E-03	
19	2.7628914E-03	-9.8050373E-04	
20	2.5694557E-03	-9.5342658E-04	
21	2.3816844E-03	-9.2389542E-04	
22	2.2000465E-03	-8.9212890E-04	
23	2.0249675E-03	-8.5834229E-04	
24	1.8568301E-03	-8.2274780E-04	
25	1.6959749E-03	-7.8555542E-04	
26	1.5427006E-03	-7.4697326E-04	
27	1.3972652E-03	-7.0720795E-04	
28	1.2598834E-03	-6.6646415E-04	
29	1.1307312E-03	-6.2494638E-04	
30	1.0099429E-03	-5.8285859E-04	
31	8.9761238E-04	-5.4040095E-04	
32	7.9379574E-04	-4.9775227E-04	
33	6.9850349E-04	-4.5523125E-04	
34	6.1166300E-04	-4.1331373E-04	
35	5.3310741E-04	-3.7245493E-04	
36	4.6258372E-04	-3.3305580E-04	
37	3.9976630E-04	-2.9544316E-04	
38	3.4427089E-04	-2.5986881E-04	
39	2.9567062E-04	-2.2651688E-04	
40	2.5350770E-04	-1.9551151E-04	
41	2.1730477E-04	-1.6692479E-04	
42	1.8657475E-04	-1.4078353E-04	
43	1.6082911E-04	-1.1707594E-04	
44	1.3958510E-04	-9.5757583E-05	
45	1.2237164E-04	-7.6757052E-05	
46	1.0873410E-04	-5.9980481E-05	
47	9.8238582E-05	-4.5316873E-05	
48	9.0474798E-05	-3.2641545E-05	
49	8.5058421E-05	-2.1819370E-05	
50	8.1633030E-05	-1.2707723E-05	
51	7.9871165E-05	-5.1588524E-06	
52	7.9475344E-05	9.7790104E-07	
53	8.0178204E-05	5.8537124E-06	
54	8.1742878E-05	9.6206719E-06	
55	8.3962514E-05	1.2428251E-05	
56	8.6660036E-05	1.4423697E-05	
57	8.9687475E-05	1.5751383E-05	
58	9.2925478E-05	1.6552404E-05	
59	9.6282491E-05	1.6964236E-05	
60	9.9694140E-05	1.7120583E-05	
61	1.0312252E-04	1.7151253E-05	



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 975 di 1221
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|
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|
|          Exe Time :29 July 2019      18:02:25
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	1.575	-6.6899E-03	51.80	15.75	51.80	27.45	ACTIVE	0.000	0.000	0.000	1.000	1.000
15.75	0.000	0.000	Stratol_2_8_L_0									
2 D	2.251	-6.4649E-03	37.03	11.26	37.03	19.62	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
11.26	0.000	0.000	Stratol_2_8_L_0									
3 D	2.118	-6.2400E-03	34.84	10.59	34.84	18.47	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
10.59	0.000	0.000	Stratol_2_8_L_0									
4 D	2.846	-6.0151E-03	46.80	14.23	46.80	24.81	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
14.23	0.000	0.000	Stratol_2_8_L_0									
5 D	2.830	-5.7903E-03	46.54	14.15	46.54	24.67	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
14.15	0.000	0.000	Stratol_2_8_L_0									
6 D	3.339	-5.5657E-03	54.92	16.70	54.92	29.11	ACTIVE	0.000	-1.000	0.000	1.000	1.000
16.70	0.000	0.000	Stratol_2_8_L_0									
7 D	3.390	-5.3414E-03	55.76	16.95	55.76	29.55	ACTIVE	0.000	-1.200	0.000	1.000	1.000
16.95	0.000	0.000	Stratol_2_8_L_0									
8 D	3.815	-5.1175E-03	62.75	19.07	62.75	33.25	ACTIVE	0.000	-1.400	0.000	1.000	1.000
19.07	0.000	0.000	Stratol_2_8_L_0									
9 D	3.864	-4.8943E-03	63.56	19.32	63.56	33.68	ACTIVE	0.000	-1.600	0.000	1.000	1.000
19.32	0.000	0.000	Stratol_2_8_L_0									
10 D	4.248	-4.6719E-03	69.87	21.24	69.87	37.03	ACTIVE	0.000	-1.800	0.000	1.000	1.000
21.24	0.000	0.000	Stratol_2_8_L_0									
11 D	4.367	-4.4506E-03	71.83	21.84	71.83	38.07	ACTIVE	0.000	-2.000	0.000	1.000	1.000
21.84	0.000	0.000	Stratol_2_8_L_0									
12 D	4.721	-4.2307E-03	77.65	23.61	77.65	41.16	ACTIVE	0.000	-2.200	0.000	1.000	1.000
23.61	0.000	0.000	Stratol_2_8_L_0									
13 D	4.857	-4.0124E-03	79.88	24.28	79.88	42.34	ACTIVE	0.000	-2.400	0.000	1.000	1.000
24.28	0.000	0.000	Stratol_2_8_L_0									
14 D	5.191	-3.7963E-03	85.38	25.96	85.38	45.25	ACTIVE	0.000	-2.600	0.000	1.000	1.000
25.96	0.000	0.000	Stratol_2_8_L_0									
15 D	5.339	-3.5826E-03	87.81	26.69	87.81	46.54	ACTIVE	0.000	-2.800	0.000	1.000	1.000
26.69	0.000	0.000	Stratol_2_8_L_0									
16 D	5.636	-3.3719E-03	92.70	28.18	92.70	49.13	ACTIVE	0.000	-3.000	0.000	1.000	1.000
28.18	0.000	0.000	Stratol_2_8_L_0									
17 D	5.795	-3.1647E-03	95.31	28.98	95.31	50.52	ACTIVE	0.000	-3.200	0.000	1.000	1.000
28.98	0.000	0.000	Stratol_2_8_L_0									
18 D	6.105	-2.9615E-03	100.4	30.53	100.4	53.22	ACTIVE	0.000	-3.400	0.000	1.000	1.000
30.53	0.000	0.000	Stratol_2_8_L_0									
19 D	6.271	-2.7629E-03	103.1	31.36	103.1	54.67	ACTIVE	0.000	-3.600	0.000	1.000	1.000
31.36	0.000	0.000	Stratol_2_8_L_0									
20 D	6.573	-2.5695E-03	108.1	32.86	108.1	57.30	ACTIVE	0.000	-3.800	0.000	1.000	1.000
32.86	0.000	0.000	Stratol_2_8_L_0									
21 D	6.745	-2.3817E-03	110.9	33.72	110.9	58.80	ACTIVE	0.000	-4.000	0.000	1.000	1.000
33.72	0.000	0.000	Stratol_2_8_L_0									
22 D	7.039	-2.2000E-03	115.8	35.20	115.8	61.36	ACTIVE	0.000	-4.200	0.000	1.000	1.000
35.20	0.000	0.000	Stratol_2_8_L_0									
23 D	7.216	-2.0250E-03	118.7	36.08	118.7	62.91	ACTIVE	0.000	-4.400	0.000	1.000	1.000
36.08	0.000	0.000	Stratol_2_8_L_0									
24 D	7.490	-1.8568E-03	123.2	37.45	123.2	65.29	ACTIVE	0.000	-4.600	0.000	1.000	1.000
37.45	0.000	0.000	Stratol_2_8_L_0									
25 D	7.672	-1.6960E-03	126.2	38.36	126.2	66.88	ACTIVE	0.000	-4.800	0.000	1.000	1.000
38.36	0.000	0.000	Stratol_2_8_L_0									
26 D	7.956	-1.5427E-03	130.9	39.78	130.9	69.36	ACTIVE	0.000	-5.000	0.000	1.000	1.000
39.78	0.000	0.000	Stratol_2_8_L_0									
27 D	8.142	-1.3973E-03	133.9	40.71	133.9	70.97	ACTIVE	0.000	-5.200	0.000	1.000	1.000
40.71	0.000	0.000	Stratol_2_8_L_0									
28 D	8.422	-1.2599E-03	138.5	42.11	138.5	73.42	ACTIVE	0.000	-5.400	0.000	1.000	1.000
42.11	0.000	0.000	Stratol_2_8_L_0									
29 D	8.611	-1.1307E-03	141.6	43.05	141.6	75.06	ACTIVE	0.000	-5.600	0.000	1.000	1.000
43.05	0.000	0.000	Stratol_2_8_L_0									
30 D	9.056	-1.0099E-03	146.2	45.28	146.2	77.47	UL-RL	2.6343E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 976 di 1221
45.28	0.000	0.000	Strato1_2_8_L_0		
31 D	10.02	-8.9761E-04	149.1 50.08	149.1	79.04
50.08	0.000	0.000	Strato1_2_8_L_0		
32 D	3.347	-7.9380E-04	153.7 16.74	153.7	76.87
16.74	0.000	0.000	Strato2_3095_82743_L_0		
33 D	3.507	-6.9850E-04	157.1 17.53	157.1	78.56
17.53	0.000	0.000	Strato2_3095_82743_L_0		
34 D	4.478	-6.1166E-04	161.8 22.39	161.8	80.89
22.39	0.000	0.000	Strato2_3095_82743_L_0		
35 D	6.114	-5.3311E-04	165.2 30.57	165.2	82.60
30.57	0.000	0.000	Strato2_3095_82743_L_0		
36 D	7.740	-4.6258E-04	169.8 38.70	169.8	84.92
38.70	0.000	0.000	Strato2_3095_82743_L_0		
37 D	9.124	-3.9977E-04	173.3 45.62	173.3	86.64
45.62	0.000	0.000	Strato2_3095_82743_L_0		
38 D	10.50	-3.4427E-04	177.9 52.51	177.9	88.94
52.51	0.000	0.000	Strato2_3095_82743_L_0		
39 D	11.64	-2.9567E-04	181.2 58.21	181.2	90.60
58.21	0.000	0.000	Strato2_3095_82743_L_0		
40 D	12.80	-2.5351E-04	185.8 64.00	185.8	92.88
64.00	0.000	0.000	Strato2_3095_82743_L_0		
41 D	13.75	-2.1730E-04	189.3 68.77	189.3	94.63
68.77	0.000	0.000	Strato2_3095_82743_L_0		
42 D	14.72	-1.8657E-04	193.8 73.60	193.8	96.90
73.60	0.000	0.000	Strato2_3095_82743_L_0		
43 D	15.50	-1.6083E-04	197.3 77.52	197.3	98.67
77.52	0.000	0.000	Strato2_3095_82743_L_0		
44 D	16.31	-1.3959E-04	201.8 81.55	201.8	100.9
81.55	0.000	0.000	Strato2_3095_82743_L_0		
45 D	16.96	-1.2237E-04	205.4 84.78	205.4	102.7
84.78	0.000	0.000	Strato2_3095_82743_L_0		
46 D	17.62	-1.0873E-04	209.7 88.11	209.7	104.9
88.11	0.000	0.000	Strato2_3095_82743_L_0		
47 D	18.16	-9.8239E-05	213.3 90.79	213.3	106.7
90.79	0.000	0.000	Strato2_3095_82743_L_0		
48 D	18.74	-9.0475E-05	217.8 93.69	217.8	108.9
93.69	0.000	0.000	Strato2_3095_82743_L_0		
49 D	19.19	-8.5058E-05	221.4 95.95	221.4	110.7
95.95	0.000	0.000	Strato2_3095_82743_L_0		
50 D	19.70	-8.1633E-05	225.8 98.48	225.8	112.9
98.48	0.000	0.000	Strato2_3095_82743_L_0		
51 D	20.09	-7.9871E-05	229.4 100.4	229.4	114.7
100.4	0.000	0.000	Strato2_3095_82743_L_0		
52 D	20.54	-7.9475E-05	233.8 102.7	233.8	116.9
102.7	0.000	0.000	Strato2_3095_82743_L_0		
53 D	20.90	-8.0178E-05	237.5 104.5	237.5	118.7
104.5	0.000	0.000	Strato2_3095_82743_L_0		
54 D	21.31	-8.1743E-05	241.8 106.5	241.8	120.9
106.5	0.000	0.000	Strato2_3095_82743_L_0		
55 D	21.64	-8.3963E-05	245.4 108.2	245.4	122.7
108.2	0.000	0.000	Strato2_3095_82743_L_0		
56 D	22.03	-8.6660E-05	249.8 110.2	249.8	124.9
110.2	0.000	0.000	Strato2_3095_82743_L_0		
57 D	22.35	-8.9687E-05	253.4 111.8	253.4	126.7
111.8	0.000	0.000	Strato2_3095_82743_L_0		
58 D	22.74	-9.2925E-05	257.8 113.7	257.8	128.9
113.7	0.000	0.000	Strato2_3095_82743_L_0		
59 D	23.05	-9.6282E-05	261.5 115.3	261.5	130.7
115.3	0.000	0.000	Strato2_3095_82743_L_0		
60 D	23.44	-9.9694E-05	265.8 117.2	265.8	132.9
117.2	0.000	0.000	Strato2_3095_82743_L_0		
61 D	11.87	-1.0312E-04	269.4 118.7	269.4	134.7
118.7	0.000	0.000	Strato2_3095_82743_L_0		



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 977 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                          |
|          NewProject.BaseDesignSection_28.SLERara_3454          |
|          Exe Time :29 July 2019          18:02:25          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
 CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
0.000	0.000	0.000	not available									
16 D	1.536	3.3719E-03	1.900	7.678	57.00	34.16	PASSIVE	0.000	-3.000	0.000	1.000	1.000
7.678	0.000	0.000	Stratol_2_8_L_0									
17 D	4.607	3.1647E-03	5.700	23.03	60.80	36.03	PASSIVE	0.000	-3.200	0.000	1.000	1.000
23.03	0.000	0.000	Stratol_2_8_L_0									
18 D	7.678	2.9615E-03	9.500	38.39	64.60	38.39	PASSIVE	0.000	-3.400	0.000	1.000	1.000
38.39	0.000	0.000	Stratol_2_8_L_0									
19 D	10.75	2.7629E-03	13.30	53.75	68.40	53.75	PASSIVE	0.000	-3.600	0.000	1.000	1.000
53.75	0.000	0.000	Stratol_2_8_L_0									
20 D	11.18	2.5695E-03	17.10	55.92	72.20	55.92	V-C	6094.	-3.800	0.000	1.000	1.000
55.92	0.000	0.000	Stratol_2_8_L_0									
21 D	11.34	2.3817E-03	20.90	56.71	76.00	56.71	V-C	6094.	-4.000	0.000	1.000	1.000
56.71	0.000	0.000	Stratol_2_8_L_0									
22 D	11.51	2.2000E-03	24.70	57.55	79.80	57.55	V-C	6094.	-4.200	0.000	1.000	1.000
57.55	0.000	0.000	Stratol_2_8_L_0									
23 D	11.68	2.0250E-03	28.50	58.42	83.60	58.42	V-C	6094.	-4.400	0.000	1.000	1.000
58.42	0.000	0.000	Stratol_2_8_L_0									
24 D	11.87	1.8568E-03	32.30	59.34	87.40	59.34	V-C	6094.	-4.600	0.000	1.000	1.000
59.34	0.000	0.000	Stratol_2_8_L_0									
25 D	12.06	1.6960E-03	36.10	60.30	91.20	60.30	V-C	6094.	-4.800	0.000	1.000	1.000
60.30	0.000	0.000	Stratol_2_8_L_0									
26 D	12.26	1.5427E-03	39.90	61.31	95.00	61.31	V-C	6094.	-5.000	0.000	1.000	1.000
61.31	0.000	0.000	Stratol_2_8_L_0									
27 D	12.47	1.3973E-03	43.70	62.37	98.80	62.37	V-C	6094.	-5.200	0.000	1.000	1.000
62.37	0.000	0.000	Stratol_2_8_L_0									
28 D	12.70	1.2599E-03	47.50	63.48	102.6	63.48	V-C	6094.	-5.400	0.000	1.000	1.000
63.48	0.000	0.000	Stratol_2_8_L_0									
29 D	12.93	1.1307E-03	51.30	64.64	106.4	64.64	V-C	6094.	-5.600	0.000	1.000	1.000
64.64	0.000	0.000	Stratol_2_8_L_0									
30 D	13.17	1.0099E-03	55.10	65.85	110.2	65.85	V-C	6094.	-5.800	0.000	1.000	1.000

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Doc. N.					Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 978 di 1221			
65.85	0.000	0.000	Strato1_2_8_L_0									
31 D	13.42	8.9761E-04	58.90	67.12	114.0	67.12	V-C	6094.	-6.000	0.000	1.000	1.000
67.12	0.000	0.000	Strato1_2_8_L_0									
32 D	13.38	7.9380E-04	62.80	66.91	117.9	66.91	V-C	1.3463E+04	-6.200	0.000	1.000	1.000
66.91	0.000	0.000	Strato2_3095_82743_L_0									
33 D	13.51	6.9850E-04	66.80	67.53	121.9	67.53	V-C	1.3463E+04	-6.400	0.000	1.000	1.000
67.53	0.000	0.000	Strato2_3095_82743_L_0									
34 D	13.65	6.1166E-04	70.80	68.27	125.9	68.27	V-C	1.3463E+04	-6.600	0.000	1.000	1.000
68.27	0.000	0.000	Strato2_3095_82743_L_0									
35 D	13.83	5.3311E-04	74.80	69.13	129.9	69.13	V-C	1.3463E+04	-6.800	0.000	1.000	1.000
69.13	0.000	0.000	Strato2_3095_82743_L_0									
36 D	13.79	4.6258E-04	78.80	68.93	133.9	70.69	UL-RL	4.0389E+04	-7.000	0.000	1.000	1.000
68.93	0.000	0.000	Strato2_3095_82743_L_0									
37 D	13.70	3.9977E-04	82.80	68.50	137.9	72.53	UL-RL	4.0389E+04	-7.200	0.000	1.000	1.000
68.50	0.000	0.000	Strato2_3095_82743_L_0									
38 D	13.67	3.4427E-04	86.80	68.36	141.9	74.38	UL-RL	4.0389E+04	-7.400	0.000	1.000	1.000
68.36	0.000	0.000	Strato2_3095_82743_L_0									
39 D	13.70	2.9567E-04	90.80	68.50	145.9	76.25	UL-RL	4.0389E+04	-7.600	0.000	1.000	1.000
68.50	0.000	0.000	Strato2_3095_82743_L_0									
40 D	13.78	2.5351E-04	94.80	68.89	149.9	78.13	UL-RL	4.0389E+04	-7.800	0.000	1.000	1.000
68.89	0.000	0.000	Strato2_3095_82743_L_0									
41 D	13.90	2.1730E-04	98.80	69.52	153.9	80.03	UL-RL	4.0389E+04	-8.000	0.000	1.000	1.000
69.52	0.000	0.000	Strato2_3095_82743_L_0									
42 D	14.07	1.8657E-04	102.8	70.36	157.9	81.94	UL-RL	4.0389E+04	-8.200	0.000	1.000	1.000
70.36	0.000	0.000	Strato2_3095_82743_L_0									
43 D	14.28	1.6083E-04	106.8	71.40	161.9	83.85	UL-RL	4.0389E+04	-8.400	0.000	1.000	1.000
71.40	0.000	0.000	Strato2_3095_82743_L_0									
44 D	14.52	1.3959E-04	110.8	72.61	165.9	85.78	UL-RL	4.0389E+04	-8.600	0.000	1.000	1.000
72.61	0.000	0.000	Strato2_3095_82743_L_0									
45 D	14.80	1.2237E-04	114.8	73.99	169.9	87.73	UL-RL	4.0389E+04	-8.800	0.000	1.000	1.000
73.99	0.000	0.000	Strato2_3095_82743_L_0									
46 D	15.10	1.0873E-04	118.8	75.50	173.9	89.68	UL-RL	4.0389E+04	-9.000	0.000	1.000	1.000
75.50	0.000	0.000	Strato2_3095_82743_L_0									
47 D	15.43	9.8239E-05	122.8	77.14	177.9	91.63	UL-RL	4.0389E+04	-9.200	0.000	1.000	1.000
77.14	0.000	0.000	Strato2_3095_82743_L_0									
48 D	15.78	9.0475E-05	126.8	78.88	181.9	93.60	UL-RL	4.0389E+04	-9.400	0.000	1.000	1.000
78.88	0.000	0.000	Strato2_3095_82743_L_0									
49 D	16.14	8.5058E-05	130.8	80.71	185.9	95.57	UL-RL	4.0389E+04	-9.600	0.000	1.000	1.000
80.71	0.000	0.000	Strato2_3095_82743_L_0									
50 D	16.52	8.1633E-05	134.8	82.62	189.9	97.55	UL-RL	4.0389E+04	-9.800	0.000	1.000	1.000
82.62	0.000	0.000	Strato2_3095_82743_L_0									
51 D	16.92	7.9871E-05	138.8	84.59	193.9	99.53	UL-RL	4.0389E+04	-10.000	0.000	1.000	1.000
84.59	0.000	0.000	Strato2_3095_82743_L_0									
52 D	17.32	7.9475E-05	142.8	86.62	197.9	101.5	UL-RL	4.0389E+04	-10.200	0.000	1.000	1.000
86.62	0.000	0.000	Strato2_3095_82743_L_0									
53 D	17.74	8.0178E-05	146.8	88.69	201.9	103.5	UL-RL	4.0389E+04	-10.400	0.000	1.000	1.000
88.69	0.000	0.000	Strato2_3095_82743_L_0									
54 D	18.16	8.1743E-05	150.8	90.79	205.9	105.5	UL-RL	4.0389E+04	-10.600	0.000	1.000	1.000
90.79	0.000	0.000	Strato2_3095_82743_L_0									
55 D	18.58	8.3963E-05	154.8	92.90	209.9	107.5	UL-RL	4.0389E+04	-10.800	0.000	1.000	1.000
92.90	0.000	0.000	Strato2_3095_82743_L_0									
56 D	19.01	8.6660E-05	158.8	95.04	213.9	109.5	UL-RL	4.0389E+04	-11.000	0.000	1.000	1.000
95.04	0.000	0.000	Strato2_3095_82743_L_0									
57 D	19.44	8.9687E-05	162.8	97.18	217.9	111.5	UL-RL	4.0389E+04	-11.200	0.000	1.000	1.000
97.18	0.000	0.000	Strato2_3095_82743_L_0									
58 D	19.87	9.2925E-05	166.8	99.33	221.9	113.5	UL-RL	4.0389E+04	-11.400	0.000	1.000	1.000
99.33	0.000	0.000	Strato2_3095_82743_L_0									
59 D	20.30	9.6282E-05	170.8	101.5	225.9	115.5	UL-RL	4.0389E+04	-11.600	0.000	1.000	1.000
101.5	0.000	0.000	Strato2_3095_82743_L_0									
60 D	20.73	9.9694E-05	174.8	103.6	229.9	117.5	UL-RL	4.0389E+04	-11.800	0.000	1.000	1.000
103.6	0.000	0.000	Strato2_3095_82743_L_0									
61 D	10.58	1.0312E-04	178.8	105.8	233.9	119.5	UL-RL	4.0389E+04	-12.000	0.000	1.000	1.000
105.8	0.000	0.000	Strato2_3095_82743_L_0									

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
979 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:02:25  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60
 CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.5747	-1.5747	5.70353E-11	0.31494
2	3.8259	-3.8259	-0.31494	1.0801
3	5.9441	-5.9441	-1.0801	2.2689
4	8.7898	-8.7898	-2.2689	4.0269
5	11.619	-11.619	-4.0269	6.3508
6	14.959	-14.959	-6.3508	9.3425
7	18.349	-18.349	-9.3425	13.012
8	22.164	-22.164	-13.012	17.445
9	26.028	-26.028	-17.445	22.651
10	30.276	-30.276	-22.651	28.706
11	34.643	-34.643	-28.706	35.635
12	39.365	-39.365	-35.635	43.508
13	44.222	-44.222	-43.508	52.352
14	49.413	-49.413	-52.352	62.235
15	54.752	-54.752	-62.235	73.185
16	58.852	-58.852	-73.185	84.955
17	60.040	-60.040	-84.955	96.963
18	58.468	-58.468	-96.963	108.66
19	53.990	-53.990	-108.66	119.45
20	49.379	-49.379	-119.45	129.33
21	44.781	-44.781	-129.33	138.29
22	40.310	-40.310	-138.29	146.35
23	35.842	-35.842	-146.35	153.52
24	31.465	-31.465	-153.52	159.81
25	27.076	-27.076	-159.81	165.23
26	22.770	-22.770	-165.23	169.78
27	18.438	-18.438	-169.78	173.47
28	14.164	-14.164	-173.47	176.30
29	9.8467	-9.8467	-176.30	178.27
30	5.7321	-5.7321	-178.27	179.42
31	2.3240	-2.3240	-179.42	179.88
32	-7.7105	7.7105	-179.88	178.34
33	-17.710	17.710	-178.34	174.80
34	-26.886	26.886	-174.80	169.42
35	-34.599	34.599	-169.42	162.50
36	-40.645	40.645	-162.50	154.37
37	-45.222	45.222	-154.37	145.33
38	-48.392	48.392	-145.33	135.65
39	-50.450	50.450	-135.65	125.56
40	-51.430	51.430	-125.56	115.27
41	-51.580	51.580	-115.27	104.96
42	-50.932	50.932	-104.96	94.769
43	-49.708	49.708	-94.769	84.828
44	-47.921	47.921	-84.828	75.243
45	-45.763	45.763	-75.243	66.091
46	-43.241	43.241	-66.091	57.443
47	-40.511	40.511	-57.443	49.341
48	-37.549	37.549	-49.341	41.831
49	-34.501	34.501	-41.831	34.931
50	-31.329	31.329	-34.931	28.665
51	-28.158	28.158	-28.665	23.033
52	-24.939	24.939	-23.033	18.045
53	-21.780	21.780	-18.045	13.689
54	-18.632	18.632	-13.689	9.9631
55	-15.577	15.577	-9.9631	6.8476
56	-12.550	12.550	-6.8476	4.3375
57	-9.6340	9.6340	-4.3375	2.4107
58	-6.7596	6.7596	-2.4107	1.0588
59	-4.0021	4.0021	-1.0588	0.25836
60	-1.2917	1.2917	-0.25836	4.23994E-13

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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
980 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:02:25  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

CURRENT TIME IS 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1720E+06 RIMNOR=0.1275E+07
            RENORM= 8234.      REMNOR=0.2415E-19 RATIO =0.2188      TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 90.74      RMMAX = 179.9
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1720E+06 RDR =0.1275E+07
            RATIOT=0.2188      RATOR= 0.000
            MAX UN=0.1056E-08 IEQ= 3 NODE      2 DOF 1 Y-DISPL.F
            MIN UN=-90.74      IEQ= 25 NODE      13 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1720E+06 RIMNOR=0.1275E+07
            RENORM= 7.076      REMNOR=0.2471E-19 RATIO =0.6415E-02 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 90.74      RMMAX = 179.9
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1720E+06 RDR =0.1275E+07
            RATIOT=0.6415E-02 RATOR= 0.000
            MAX UN=0.1053E-08 IEQ= 25 NODE      13 DOF 1 Y-DISPL.F
            MIN UN=-1.392      IEQ= 5 NODE      3 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      3  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1720E+06 RIMNOR=0.1275E+07
            RENORM=0.1179      REMNOR=0.4187E-19 RATIO =0.8281E-03 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 90.74      RMMAX = 179.9
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1720E+06 RDR =0.1275E+07
            RATIOT=0.8281E-03 RATOR= 0.000
            MAX UN=0.9759E-09 IEQ= 9 NODE      5 DOF 1 Y-DISPL.F
            MIN UN=-.3370      IEQ= 21 NODE      11 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1720E+06 RIMNOR=0.1275E+07
            RENORM=0.9106E-17 REMNOR=0.2291E-19 RATIO =0.7277E-11 TOLER =0.1000E-03 CONVERGED !
            RFMAX = 90.74      RMMAX = 179.9
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1720E+06 RDR =0.1275E+07
            RATIOT=0.7277E-11 RATOR= 0.000
            MAX UN=0.1244E-08 IEQ= 11 NODE      6 DOF 1 Y-DISPL.F
            MIN UN=-.9754E-09 IEQ= 13 NODE      7 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
981 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.SLERara_3454                       |
|                               Exe Time :29 July 2019      18:02:25                             |
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New Project

SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 4 (AT TIME 4.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	5.7401910E-03	-1.0144992E-03	
2	5.5372962E-03	-1.0144234E-03	
3	5.3344397E-03	-1.0140777E-03	
4	5.1316986E-03	-1.0132304E-03	
5	4.9291977E-03	-1.0116306E-03	
6	4.7271148E-03	-1.0090042E-03	
7	4.5256838E-03	-1.0050611E-03	
8	4.3251986E-03	-9.9949364E-04	
9	4.1260161E-03	-9.9197877E-04	
10	3.9285595E-03	-9.8217882E-04	
11	3.7333204E-03	-9.6974272E-04	
12	3.5408626E-03	-9.5430369E-04	
13	3.3518245E-03	-9.3548035E-04	
14	3.1667787E-03	-9.1503256E-04	
15	2.9858028E-03	-8.9471459E-04	
16	2.8089111E-03	-8.7412306E-04	
17	2.6361987E-03	-8.5285510E-04	
18	2.4678370E-03	-8.3056906E-04	
19	2.3040528E-03	-8.0705751E-04	
20	2.1450996E-03	-7.8226227E-04	
21	1.9912315E-03	-7.5621199E-04	
22	1.8426954E-03	-7.2895265E-04	
23	1.6997273E-03	-7.0054112E-04	
24	1.5625512E-03	-6.7104494E-04	
25	1.4313764E-03	-6.4054288E-04	
26	1.3063951E-03	-6.0912462E-04	
27	1.1877815E-03	-5.7689062E-04	
28	1.0756865E-03	-5.4395116E-04	
29	9.7023998E-04	-5.1042732E-04	
30	8.7154583E-04	-4.7645001E-04	
31	7.7968109E-04	-4.4215609E-04	
32	6.9469663E-04	-4.0767000E-04	
33	6.1661035E-04	-3.7323148E-04	
34	5.4537573E-04	-3.3921757E-04	
35	4.8087005E-04	-3.0600265E-04	
36	4.2289898E-04	-2.7392301E-04	
37	3.7120698E-04	-2.4325526E-04	
38	3.2548871E-04	-2.1421406E-04	
39	2.8540236E-04	-1.8695767E-04	
40	2.5057943E-04	-1.6159437E-04	
41	2.2063408E-04	-1.3818905E-04	
42	1.9517148E-04	-1.1676876E-04	
43	1.7379460E-04	-9.7328196E-05	
44	1.5611039E-04	-7.9834689E-05	
45	1.4173468E-04	-6.4232910E-05	
46	1.3029614E-04	-5.0448606E-05	
47	1.2143998E-04	-3.8393090E-05	
48	1.1483033E-04	-2.7966102E-05	
49	1.1015225E-04	-1.9058463E-05	
50	1.0711338E-04	-1.1554519E-05	
51	1.0544489E-04	-5.3341275E-06	
52	1.0490234E-04	-2.7450006E-07	
53	1.0526589E-04	3.7478041E-06	
54	1.0634059E-04	6.8571992E-06	
55	1.0795607E-04	9.1760968E-06	
56	1.0996638E-04	1.0825232E-05	
57	1.1224942E-04	1.1923173E-05	
58	1.1470664E-04	1.2585987E-05	
59	1.1726236E-04	1.2926959E-05	
60	1.1986332E-04	1.3056461E-05	
61	1.2247813E-04	1.3081849E-05	



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 982 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:02:25  |
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New Project

STRESS RESULTS FOR GROUP NO. 1

O_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	3.189	-5.7402E-03	51.80	31.89	51.80	31.89	V-C	8781.	0.000	0.000	1.000	1.000
31.89	0.000	0.000	Stratol_2_8_L_0									
2 D	4.996	-5.5373E-03	37.03	24.98	37.03	24.98	V-C	8781.	-0.2000	0.000	1.000	1.000
24.98	0.000	0.000	Stratol_2_8_L_0									
3 D	4.758	-5.3344E-03	34.84	23.79	34.84	23.79	V-C	8781.	-0.4000	0.000	1.000	1.000
23.79	0.000	0.000	Stratol_2_8_L_0									
4 D	5.807	-5.1317E-03	46.80	29.04	46.80	29.04	V-C	8781.	-0.6000	0.000	1.000	1.000
29.04	0.000	0.000	Stratol_2_8_L_0									
5 D	5.744	-4.9292E-03	46.54	28.72	46.54	28.72	V-C	8781.	-0.8000	0.000	1.000	1.000
28.72	0.000	0.000	Stratol_2_8_L_0									
6 D	6.467	-4.7271E-03	54.92	32.34	54.92	32.34	V-C	8781.	-1.000	0.000	1.000	1.000
32.34	0.000	0.000	Stratol_2_8_L_0									
7 D	6.503	-4.5257E-03	55.76	32.52	55.76	32.52	V-C	8781.	-1.200	0.000	1.000	1.000
32.52	0.000	0.000	Stratol_2_8_L_0									
8 D	7.097	-4.3252E-03	62.75	35.49	62.75	35.49	V-C	8781.	-1.400	0.000	1.000	1.000
35.49	0.000	0.000	Stratol_2_8_L_0									
9 D	7.129	-4.1260E-03	63.56	35.64	63.56	35.64	V-C	8781.	-1.600	0.000	1.000	1.000
35.64	0.000	0.000	Stratol_2_8_L_0									
10 D	7.659	-3.9286E-03	69.87	38.29	69.87	38.29	V-C	8781.	-1.800	0.000	1.000	1.000
38.29	0.000	0.000	Stratol_2_8_L_0									
11 D	7.791	-3.7333E-03	71.83	38.96	71.83	38.96	V-C	8781.	-2.000	0.000	1.000	1.000
38.96	0.000	0.000	Stratol_2_8_L_0									
12 D	8.273	-3.5409E-03	77.65	41.36	77.65	41.36	V-C	8781.	-2.200	0.000	1.000	1.000
41.36	0.000	0.000	Stratol_2_8_L_0									
13 D	8.337	-3.3518E-03	79.88	41.69	79.88	42.34	UL-RL	2.6343E+04	-2.400	0.000	1.000	1.000
41.69	0.000	0.000	Stratol_2_8_L_0									
14 D	8.508	-3.1668E-03	85.38	42.54	85.38	45.25	UL-RL	2.6343E+04	-2.600	0.000	1.000	1.000
42.54	0.000	0.000	Stratol_2_8_L_0									
15 D	8.483	-2.9858E-03	87.81	42.42	87.81	46.54	UL-RL	2.6343E+04	-2.800	0.000	1.000	1.000
42.42	0.000	0.000	Stratol_2_8_L_0									
16 D	8.602	-2.8089E-03	92.70	43.01	92.70	49.13	UL-RL	2.6343E+04	-3.000	0.000	1.000	1.000
43.01	0.000	0.000	Stratol_2_8_L_0									
17 D	8.579	-2.6362E-03	95.31	42.90	95.31	50.52	UL-RL	2.6343E+04	-3.200	0.000	1.000	1.000
42.90	0.000	0.000	Stratol_2_8_L_0									
18 D	8.706	-2.4678E-03	100.4	43.53	100.4	53.22	UL-RL	2.6343E+04	-3.400	0.000	1.000	1.000
43.53	0.000	0.000	Stratol_2_8_L_0									
19 D	8.689	-2.3041E-03	103.1	43.44	103.1	54.67	UL-RL	2.6343E+04	-3.600	0.000	1.000	1.000
43.44	0.000	0.000	Stratol_2_8_L_0									
20 D	8.809	-2.1451E-03	108.1	44.04	108.1	57.30	UL-RL	2.6343E+04	-3.800	0.000	1.000	1.000
44.04	0.000	0.000	Stratol_2_8_L_0									
21 D	8.802	-1.9912E-03	110.9	44.01	110.9	58.80	UL-RL	2.6343E+04	-4.000	0.000	1.000	1.000
44.01	0.000	0.000	Stratol_2_8_L_0									
22 D	8.922	-1.8427E-03	115.8	44.61	115.8	61.36	UL-RL	2.6343E+04	-4.200	0.000	1.000	1.000
44.61	0.000	0.000	Stratol_2_8_L_0									
23 D	8.930	-1.6997E-03	118.7	44.65	118.7	62.91	UL-RL	2.6343E+04	-4.400	0.000	1.000	1.000
44.65	0.000	0.000	Stratol_2_8_L_0									
24 D	9.041	-1.5626E-03	123.2	45.20	123.2	65.29	UL-RL	2.6343E+04	-4.600	0.000	1.000	1.000
45.20	0.000	0.000	Stratol_2_8_L_0									
25 D	9.066	-1.4314E-03	126.2	45.33	126.2	66.88	UL-RL	2.6343E+04	-4.800	0.000	1.000	1.000
45.33	0.000	0.000	Stratol_2_8_L_0									
26 D	9.201	-1.3064E-03	130.9	46.01	130.9	69.36	UL-RL	2.6343E+04	-5.000	0.000	1.000	1.000
46.01	0.000	0.000	Stratol_2_8_L_0									
27 D	9.246	-1.1878E-03	133.9	46.23	133.9	70.97	UL-RL	2.6343E+04	-5.200	0.000	1.000	1.000
46.23	0.000	0.000	Stratol_2_8_L_0									
28 D	9.393	-1.0757E-03	138.5	46.96	138.5	73.42	UL-RL	2.6343E+04	-5.400	0.000	1.000	1.000
46.96	0.000	0.000	Stratol_2_8_L_0									
29 D	9.456	-9.7024E-04	141.6	47.28	141.6	75.06	UL-RL	2.6343E+04	-5.600	0.000	1.000	1.000
47.28	0.000	0.000	Stratol_2_8_L_0									
30 D	9.785	-8.7155E-04	146.2	48.93	146.2	77.47	UL-RL	2.6343E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 983 di 1221
48.93	0.000	0.000	Strato1_2_8_L_0		
31 D	10.64	-7.7968E-04	149.1 53.18	149.1	79.04
53.18	0.000	0.000	Strato1_2_8_L_0		
32 D	4.824	-6.9470E-04	153.7 24.12	153.7	76.87
24.12	0.000	0.000	Strato2_3095_82743_L_0		
33 D	4.727	-6.1661E-04	157.1 23.64	157.1	78.56
23.64	0.000	0.000	Strato2_3095_82743_L_0		
34 D	5.466	-5.4538E-04	161.8 27.33	161.8	80.89
27.33	0.000	0.000	Strato2_3095_82743_L_0		
35 D	6.892	-4.8087E-04	165.2 34.46	165.2	82.60
34.46	0.000	0.000	Strato2_3095_82743_L_0		
36 D	8.331	-4.2290E-04	169.8 41.66	169.8	84.92
41.66	0.000	0.000	Strato2_3095_82743_L_0		
37 D	9.550	-3.7121E-04	173.3 47.75	173.3	86.64
47.75	0.000	0.000	Strato2_3095_82743_L_0		
38 D	10.78	-3.2549E-04	177.9 53.91	177.9	88.94
53.91	0.000	0.000	Strato2_3095_82743_L_0		
39 D	11.80	-2.8540E-04	181.2 58.98	181.2	90.60
58.98	0.000	0.000	Strato2_3095_82743_L_0		
40 D	12.84	-2.5058E-04	185.8 64.21	185.8	92.88
64.21	0.000	0.000	Strato2_3095_82743_L_0		
41 D	13.70	-2.2063E-04	189.3 68.52	189.3	94.63
68.52	0.000	0.000	Strato2_3095_82743_L_0		
42 D	14.59	-1.9517E-04	193.8 72.96	193.8	96.90
72.96	0.000	0.000	Strato2_3095_82743_L_0		
43 D	15.31	-1.7379E-04	197.3 76.55	197.3	98.67
76.55	0.000	0.000	Strato2_3095_82743_L_0		
44 D	16.06	-1.5611E-04	201.8 80.32	201.8	100.9
80.32	0.000	0.000	Strato2_3095_82743_L_0		
45 D	16.67	-1.4173E-04	205.4 83.34	205.4	102.7
83.34	0.000	0.000	Strato2_3095_82743_L_0		
46 D	17.30	-1.3030E-04	209.7 86.50	209.7	104.9
86.50	0.000	0.000	Strato2_3095_82743_L_0		
47 D	17.81	-1.2144E-04	213.3 89.06	213.3	106.7
89.06	0.000	0.000	Strato2_3095_82743_L_0		
48 D	18.37	-1.1483E-04	217.8 91.87	217.8	108.9
91.87	0.000	0.000	Strato2_3095_82743_L_0		
49 D	18.82	-1.1015E-04	221.4 94.08	221.4	110.7
94.08	0.000	0.000	Strato2_3095_82743_L_0		
50 D	19.32	-1.0711E-04	225.8 96.58	225.8	112.9
96.58	0.000	0.000	Strato2_3095_82743_L_0		
51 D	19.71	-1.0544E-04	229.4 98.54	229.4	114.7
98.54	0.000	0.000	Strato2_3095_82743_L_0		
52 D	20.16	-1.0490E-04	233.8 100.8	233.8	116.9
100.8	0.000	0.000	Strato2_3095_82743_L_0		
53 D	20.52	-1.0527E-04	237.5 102.6	237.5	118.7
102.6	0.000	0.000	Strato2_3095_82743_L_0		
54 D	20.94	-1.0634E-04	241.8 104.7	241.8	120.9
104.7	0.000	0.000	Strato2_3095_82743_L_0		
55 D	21.28	-1.0796E-04	245.4 106.4	245.4	122.7
106.4	0.000	0.000	Strato2_3095_82743_L_0		
56 D	21.69	-1.0997E-04	249.8 108.4	249.8	124.9
108.4	0.000	0.000	Strato2_3095_82743_L_0		
57 D	22.02	-1.1225E-04	253.4 110.1	253.4	126.7
110.1	0.000	0.000	Strato2_3095_82743_L_0		
58 D	22.42	-1.1471E-04	257.8 112.1	257.8	128.9
112.1	0.000	0.000	Strato2_3095_82743_L_0		
59 D	22.74	-1.1726E-04	261.5 113.7	261.5	130.7
113.7	0.000	0.000	Strato2_3095_82743_L_0		
60 D	23.14	-1.1986E-04	265.8 115.7	265.8	132.9
115.7	0.000	0.000	Strato2_3095_82743_L_0		
61 D	11.73	-1.2248E-04	269.4 117.3	269.4	134.7
117.3	0.000	0.000	Strato2_3095_82743_L_0		



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 984 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.SLERara_3454                                                                                   |
|          Exe Time :29 July 2019          18:02:25                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
0.000	0.000	0.000	not available									
16 D	0.1155	2.8089E-03	1.900	0.5776	57.00	34.16	ACTIVE	0.000	-3.000	0.000	1.000	1.000
0.5776	0.000	0.000	Strato1_2_8_L_0									
17 D	2.675	2.6362E-03	5.700	13.37	60.80	36.03	UL-RL	1.8281E+04	-3.200	0.000	1.000	1.000
13.37	0.000	0.000	Strato1_2_8_L_0									
18 D	5.873	2.4678E-03	9.500	29.37	64.60	38.39	UL-RL	1.8281E+04	-3.400	0.000	1.000	1.000
29.37	0.000	0.000	Strato1_2_8_L_0									
19 D	9.071	2.3041E-03	13.30	45.36	68.40	53.75	UL-RL	1.8281E+04	-3.600	0.000	1.000	1.000
45.36	0.000	0.000	Strato1_2_8_L_0									
20 D	9.632	2.1451E-03	17.10	48.16	72.20	55.92	UL-RL	1.8281E+04	-3.800	0.000	1.000	1.000
48.16	0.000	0.000	Strato1_2_8_L_0									
21 D	9.915	1.9912E-03	20.90	49.58	76.00	56.71	UL-RL	1.8281E+04	-4.000	0.000	1.000	1.000
49.58	0.000	0.000	Strato1_2_8_L_0									
22 D	10.20	1.8427E-03	24.70	51.01	79.80	57.55	UL-RL	1.8281E+04	-4.200	0.000	1.000	1.000
51.01	0.000	0.000	Strato1_2_8_L_0									
23 D	10.50	1.6997E-03	28.50	52.48	83.60	58.42	UL-RL	1.8281E+04	-4.400	0.000	1.000	1.000
52.48	0.000	0.000	Strato1_2_8_L_0									
24 D	10.79	1.5626E-03	32.30	53.96	87.40	59.34	UL-RL	1.8281E+04	-4.600	0.000	1.000	1.000
53.96	0.000	0.000	Strato1_2_8_L_0									
25 D	11.09	1.4314E-03	36.10	55.47	91.20	60.30	UL-RL	1.8281E+04	-4.800	0.000	1.000	1.000
55.47	0.000	0.000	Strato1_2_8_L_0									
26 D	11.40	1.3064E-03	39.90	56.99	95.00	61.31	UL-RL	1.8281E+04	-5.000	0.000	1.000	1.000
56.99	0.000	0.000	Strato1_2_8_L_0									
27 D	11.71	1.1878E-03	43.70	58.54	98.80	62.37	UL-RL	1.8281E+04	-5.200	0.000	1.000	1.000
58.54	0.000	0.000	Strato1_2_8_L_0									
28 D	12.02	1.0757E-03	47.50	60.11	102.6	63.48	UL-RL	1.8281E+04	-5.400	0.000	1.000	1.000
60.11	0.000	0.000	Strato1_2_8_L_0									
29 D	12.34	9.7024E-04	51.30	61.71	106.4	64.64	UL-RL	1.8281E+04	-5.600	0.000	1.000	1.000
61.71	0.000	0.000	Strato1_2_8_L_0									
30 D	12.66	8.7155E-04	55.10	63.32	110.2	65.85	UL-RL	1.8281E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



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Doc. N.

Progetto
INORLotto
12Codifica Documento
E E2 CL GA 2701 002Rev.
AFoglio
986 di 1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.SLERara_3454                       |
|                               Exe Time :29 July 2019      18:02:25                             |
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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_33      :
ELEMENT TYPE      2 NO.OF ELEMENTS. IN THIS GROUP      60
C U R R E N T   T I M E   I S      4.0000

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	3.1891	-3.1891	-6.67910E-13	0.63783
2	8.1851	-8.1851	-0.63783	2.2749
3	12.944	-12.944	-2.2749	4.8636
4	18.751	-18.751	-4.8636	8.6137
5	24.495	-24.495	-8.6137	13.513
6	30.962	-30.962	-13.513	19.705
7	37.465	-37.465	-19.705	27.198
8	44.562	-44.562	-27.198	36.111
9	51.691	-51.691	-36.111	46.449
10	59.350	-59.350	-46.449	58.319
11	67.141	-67.141	-58.319	71.747
12	75.414	-75.414	-71.747	86.830
13	-6.9878	6.9878	-86.830	85.433
14	1.5198	-1.5198	-85.433	85.736
15	10.003	-10.003	-85.736	87.737
16	18.490	-18.490	-87.737	91.435
17	24.394	-24.394	-91.435	96.314
18	27.227	-27.227	-96.314	101.76
19	26.845	-26.845	-101.76	107.13
20	26.021	-26.021	-107.13	112.33
21	24.907	-24.907	-112.33	117.31
22	23.626	-23.626	-117.31	122.04
23	22.061	-22.061	-122.04	126.45
24	20.310	-20.310	-126.45	130.51
25	18.283	-18.283	-130.51	134.17
26	16.086	-16.086	-134.17	137.39
27	13.623	-13.623	-137.39	140.11
28	10.993	-10.993	-140.11	142.31
29	8.1080	-8.1080	-142.31	143.93
30	5.2286	-5.2286	-143.93	144.98
31	2.8730	-2.8730	-144.98	145.55
32	-4.8840	4.8840	-145.55	144.58
33	-13.001	13.001	-144.58	141.98
34	-20.654	20.654	-141.98	137.84
35	-27.166	27.166	-137.84	132.41
36	-32.300	32.300	-132.41	125.95
37	-36.221	36.221	-125.95	118.71
38	-38.960	38.960	-118.71	110.91
39	-40.782	40.782	-110.91	102.76
40	-41.694	41.694	-102.76	94.420
41	-41.921	41.921	-94.420	86.036
42	-41.470	41.470	-86.036	77.742
43	-40.545	40.545	-77.742	69.633
44	-39.137	39.137	-69.633	61.805
45	-37.424	37.424	-61.805	54.321
46	-35.397	35.397	-54.321	47.241
47	-33.200	33.200	-47.241	40.601
48	-30.799	30.799	-40.601	34.441
49	-28.327	28.327	-34.441	28.776
50	-25.741	25.741	-28.776	23.628
51	-23.158	23.158	-23.628	18.996
52	-20.523	20.523	-18.996	14.892
53	-17.940	17.940	-14.892	11.304
54	-15.358	15.358	-11.304	8.2320
55	-12.855	12.855	-8.2320	5.6611
56	-10.363	10.363	-5.6611	3.5885
57	-7.9654	7.9654	-3.5885	1.9954
58	-5.5915	5.5915	-1.9954	0.87711
59	-3.3162	3.3162	-0.87711	0.21388
60	-1.0693	1.0693	-0.21388	-1.78491E-12



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 987 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:02:25  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 CURRENT TIME IS 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	93.940	-6.38098E-04	-6.38098E-04	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1258E+06 RIMNOR=0.9369E+06
 RENORM= 2299. REMNOR=0.2291E-19 RATIO =0.1352 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 145.6
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1258E+06 RDR =0.9369E+06
 RATIOT=0.1352 RATOR= 0.000
 MAX UN= 12.99 IEQ= 61 NODE 31 DOF 1 Y-DISPL.F
 MIN UN=-.9754E-09 IEQ= 13 NODE 7 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1258E+06 RIMNOR=0.9369E+06
 RENORM= 193.6 REMNOR=0.3899E-19 RATIO =0.3923E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 145.6
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1258E+06 RDR =0.9369E+06
 RATIOT=0.3923E-01 RATOR= 0.000
 MAX UN= 6.686 IEQ= 63 NODE 32 DOF 1 Y-DISPL.F
 MIN UN=-.1542E-08 IEQ= 19 NODE 10 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1258E+06 RIMNOR=0.9369E+06
 RENORM= 4.695 REMNOR=0.6085E-19 RATIO =0.6108E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 145.6
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1258E+06 RDR =0.9369E+06
 RATIOT=0.6108E-02 RATOR= 0.000
 MAX UN= 1.417 IEQ= 77 NODE 39 DOF 1 Y-DISPL.F
 MIN UN=-.1028E-08 IEQ= 61 NODE 31 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1258E+06 RIMNOR=0.9369E+06
 RENORM=0.8029 REMNOR=0.5235E-19 RATIO =0.2526E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 145.6
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1258E+06 RDR =0.9369E+06
 RATIOT=0.2526E-02 RATOR= 0.000
 MAX UN=0.6453 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
 MIN UN=-.1117E-08 IEQ= 27 NODE 14 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1258E+06 RIMNOR=0.9369E+06
 RENORM=0.3247E-02 REMNOR=0.8341E-19 RATIO =0.1606E-03 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 145.6
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1258E+06 RDR =0.9369E+06
 RATIOT=0.1606E-03 RATOR= 0.000
 MAX UN=0.5698E-01 IEQ= 67 NODE 34 DOF 1 Y-DISPL.F
 MIN UN=-.1412E-08 IEQ= 25 NODE 13 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 988 di 1221
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RINORM=0.1258E+06 RIMNOR=0.9369E+06
RENORM=0.1909E-16 REMNOR=0.6286E-19 RATIO =0.1232E-10 TOLER =0.1000E-03      CONVERGED !
RFMAX = 90.74      RMMAX = 145.6
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT      =0.1258E+06 RDR      =0.9369E+06
RATIOT=0.1232E-10 RATIO= 0.000
MAX UN=0.1835E-08 IEQ= 39 NODE      21 DOF 1 Y-DISPL.F
MIN UN=-.1715E-08 IEQ= 41 NODE      21 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      18:02:25  |
|                                                                                               |
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New Project
SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 5 (AT TIME 5.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	7.3572664E-03	-8.2918717E-04	
2	7.1914314E-03	-8.2914978E-04	
3	7.0256150E-03	-8.2898419E-04	
4	6.8598532E-03	-8.2858665E-04	
5	6.6942037E-03	-8.2783932E-04	
6	6.5287498E-03	-8.2660748E-04	
7	6.3636028E-03	-8.2474466E-04	
8	6.1989047E-03	-8.2209110E-04	
9	6.0348304E-03	-8.1847575E-04	
10	5.8715906E-03	-8.1371631E-04	
11	5.7094330E-03	-8.0762018E-04	
12	5.5486453E-03	-7.9998283E-04	
13	5.3895570E-03	-7.9058851E-04	
14	5.2323907E-03	-7.8148286E-04	
15	5.0768090E-03	-7.7470036E-04	
16	4.9223723E-03	-7.6999102E-04	
17	4.7686918E-03	-7.6709430E-04	
18	4.6154318E-03	-7.6573882E-04	
19	4.4623123E-03	-7.6564206E-04	
20	4.3091107E-03	-7.6651020E-04	
21	4.1556642E-03	-7.6803832E-04	
22	4.0018724E-03	-7.6991026E-04	
23	3.8476990E-03	-7.7179878E-04	
24	3.6931744E-03	-7.7336544E-04	
25	3.5383976E-03	-7.7426112E-04	
26	3.3835387E-03	-7.7412585E-04	
27	3.2288415E-03	-7.7258864E-04	
28	3.0746229E-03	-7.6926728E-04	
29	2.9212797E-03	-7.6376855E-04	
30	2.7692876E-03	-7.5568808E-04	
31	2.6192043E-03	-7.4461046E-04	
32	2.4716724E-03	-7.3010955E-04	
33	2.3273892E-03	-7.1218882E-04	
34	2.1869947E-03	-6.9130015E-04	
35	2.0510357E-03	-6.6791287E-04	
36	1.9199645E-03	-6.4250109E-04	
37	1.7941393E-03	-6.1553869E-04	
38	1.6738220E-03	-5.8749118E-04	
39	1.5591850E-03	-5.5881078E-04	
40	1.4503106E-03	-5.2993698E-04	
41	1.3471946E-03	-5.0129770E-04	
42	1.2497490E-03	-4.7329690E-04	
43	1.1578097E-03	-4.4628756E-04	
44	1.0711484E-03	-4.2056138E-04	
45	9.8948433E-04	-3.9635389E-04	
46	9.1249379E-04	-3.7384857E-04	
47	8.3982230E-04	-3.5318219E-04	
48	7.7109208E-04	-3.3444821E-04	
49	7.0591063E-04	-3.1770011E-04	
50	6.4387884E-04	-3.0295459E-04	
51	5.8459677E-04	-2.9019410E-04	
52	5.2767074E-04	-2.7936932E-04	
53	4.7272648E-04	-2.7040242E-04	
54	4.1939588E-04	-2.6318540E-04	
55	3.6734450E-04	-2.5758562E-04	
56	3.1626438E-04	-2.5344457E-04	



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 989 di 1221
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57 2.6588165E-04 -2.5057894E-04
 58 2.1596161E-04 -2.4878111E-04
 59 1.6631345E-04 -2.4781957E-04
 60 1.1679505E-04 -2.4743909E-04
 61 6.7315191E-05 -2.4736083E-04

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      18:02:25
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New Project

STRESS RESULTS FOR GROUP NO. 1

O_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
 CURRENT TIME IS 5.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1 D	1.575	-7.3573E-03	51.80	15.75	51.80	31.89	ACTIVE	0.000	0.000	0.000	1.000	1.000
15.75	0.000	0.000	Stratol_2_8_L_0									
2 D	2.251	-7.1914E-03	37.03	11.26	37.03	24.98	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
11.26	0.000	0.000	Stratol_2_8_L_0									
3 D	2.118	-7.0256E-03	34.84	10.59	34.84	23.79	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
10.59	0.000	0.000	Stratol_2_8_L_0									
4 D	2.846	-6.8599E-03	46.80	14.23	46.80	29.04	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
14.23	0.000	0.000	Stratol_2_8_L_0									
5 D	2.830	-6.6942E-03	46.54	14.15	46.54	28.72	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
14.15	0.000	0.000	Stratol_2_8_L_0									
6 D	3.339	-6.5287E-03	54.92	16.70	54.92	32.34	ACTIVE	0.000	-1.000	0.000	1.000	1.000
16.70	0.000	0.000	Stratol_2_8_L_0									
7 D	3.390	-6.3636E-03	55.76	16.95	55.76	32.52	ACTIVE	0.000	-1.200	0.000	1.000	1.000
16.95	0.000	0.000	Stratol_2_8_L_0									
8 D	3.815	-6.1989E-03	62.75	19.07	62.75	35.49	ACTIVE	0.000	-1.400	0.000	1.000	1.000
19.07	0.000	0.000	Stratol_2_8_L_0									
9 D	3.864	-6.0348E-03	63.56	19.32	63.56	35.64	ACTIVE	0.000	-1.600	0.000	1.000	1.000
19.32	0.000	0.000	Stratol_2_8_L_0									
10 D	4.248	-5.8716E-03	69.87	21.24	69.87	38.29	ACTIVE	0.000	-1.800	0.000	1.000	1.000
21.24	0.000	0.000	Stratol_2_8_L_0									
11 D	4.367	-5.7094E-03	71.83	21.84	71.83	38.96	ACTIVE	0.000	-2.000	0.000	1.000	1.000
21.84	0.000	0.000	Stratol_2_8_L_0									
12 D	4.721	-5.5486E-03	77.65	23.61	77.65	41.36	ACTIVE	0.000	-2.200	0.000	1.000	1.000
23.61	0.000	0.000	Stratol_2_8_L_0									
13 D	4.857	-5.3896E-03	79.88	24.28	79.88	42.34	ACTIVE	0.000	-2.400	0.000	1.000	1.000
24.28	0.000	0.000	Stratol_2_8_L_0									
14 D	5.191	-5.2324E-03	85.38	25.96	85.38	45.25	ACTIVE	0.000	-2.600	0.000	1.000	1.000
25.96	0.000	0.000	Stratol_2_8_L_0									
15 D	5.339	-5.0768E-03	87.81	26.69	87.81	46.54	ACTIVE	0.000	-2.800	0.000	1.000	1.000
26.69	0.000	0.000	Stratol_2_8_L_0									
16 D	5.636	-4.9224E-03	92.70	28.18	92.70	49.13	ACTIVE	0.000	-3.000	0.000	1.000	1.000
28.18	0.000	0.000	Stratol_2_8_L_0									
17 D	5.795	-4.7687E-03	95.31	28.98	95.31	50.52	ACTIVE	0.000	-3.200	0.000	1.000	1.000
28.98	0.000	0.000	Stratol_2_8_L_0									
18 D	6.105	-4.6154E-03	100.4	30.53	100.4	53.22	ACTIVE	0.000	-3.400	0.000	1.000	1.000
30.53	0.000	0.000	Stratol_2_8_L_0									
19 D	6.271	-4.4623E-03	103.1	31.36	103.1	54.67	ACTIVE	0.000	-3.600	0.000	1.000	1.000
31.36	0.000	0.000	Stratol_2_8_L_0									
20 D	6.573	-4.3091E-03	108.1	32.86	108.1	57.30	ACTIVE	0.000	-3.800	0.000	1.000	1.000
32.86	0.000	0.000	Stratol_2_8_L_0									
21 D	6.745	-4.1557E-03	110.9	33.72	110.9	58.80	ACTIVE	0.000	-4.000	0.000	1.000	1.000
33.72	0.000	0.000	Stratol_2_8_L_0									
22 D	7.039	-4.0019E-03	115.8	35.20	115.8	61.36	ACTIVE	0.000	-4.200	0.000	1.000	1.000
35.20	0.000	0.000	Stratol_2_8_L_0									
23 D	7.216	-3.8477E-03	118.7	36.08	118.7	62.91	ACTIVE	0.000	-4.400	0.000	1.000	1.000
36.08	0.000	0.000	Stratol_2_8_L_0									
24 D	7.490	-3.6932E-03	123.2	37.45	123.2	65.29	ACTIVE	0.000	-4.600	0.000	1.000	1.000
37.45	0.000	0.000	Stratol_2_8_L_0									
25 D	7.672	-3.5384E-03	126.2	38.36	126.2	66.88	ACTIVE	0.000	-4.800	0.000	1.000	1.000
38.36	0.000	0.000	Stratol_2_8_L_0									
26 D	7.956	-3.3835E-03	130.9	39.78	130.9	69.36	ACTIVE	0.000	-5.000	0.000	1.000	1.000
39.78	0.000	0.000	Stratol_2_8_L_0									
27 D	8.142	-3.2288E-03	133.9	40.71	133.9	70.97	ACTIVE	0.000	-5.200	0.000	1.000	1.000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 990 di 1221
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40.71	0.000	0.000	Strato1_2_8_L_0									
28 D	8.422	-3.0746E-03	138.5	42.11	138.5	73.42	ACTIVE	0.000	-5.400	0.000	1.000	1.000
42.11	0.000	0.000	Strato1_2_8_L_0									
29 D	8.611	-2.9213E-03	141.6	43.05	141.6	75.06	ACTIVE	0.000	-5.600	0.000	1.000	1.000
43.05	0.000	0.000	Strato1_2_8_L_0									
30 D	8.887	-2.7693E-03	146.2	44.44	146.2	77.47	ACTIVE	0.000	-5.800	0.000	1.000	1.000
44.44	0.000	0.000	Strato1_2_8_L_0									
31 D	9.067	-2.6192E-03	149.1	45.34	149.1	79.04	ACTIVE	0.000	-6.000	0.000	1.000	1.000
45.34	0.000	0.000	Strato1_2_8_L_0									
32 D	3.347	-2.4717E-03	153.7	16.74	153.7	76.87	ACTIVE	0.000	-6.200	0.000	1.000	1.000
16.74	0.000	0.000	Strato2_3095_82743_L_0									
33 D	3.507	-2.3274E-03	157.1	17.53	157.1	78.56	ACTIVE	0.000	-6.400	0.000	1.000	1.000
17.53	0.000	0.000	Strato2_3095_82743_L_0									
34 D	3.726	-2.1870E-03	161.8	18.63	161.8	80.89	ACTIVE	0.000	-6.600	0.000	1.000	1.000
18.63	0.000	0.000	Strato2_3095_82743_L_0									
35 D	3.887	-2.0510E-03	165.2	19.43	165.2	82.60	ACTIVE	0.000	-6.800	0.000	1.000	1.000
19.43	0.000	0.000	Strato2_3095_82743_L_0									
36 D	4.104	-1.9200E-03	169.8	20.52	169.8	84.92	ACTIVE	0.000	-7.000	0.000	1.000	1.000
20.52	0.000	0.000	Strato2_3095_82743_L_0									
37 D	4.266	-1.7941E-03	173.3	21.33	173.3	86.64	ACTIVE	0.000	-7.200	0.000	1.000	1.000
21.33	0.000	0.000	Strato2_3095_82743_L_0									
38 D	4.482	-1.6738E-03	177.9	22.41	177.9	88.94	ACTIVE	0.000	-7.400	0.000	1.000	1.000
22.41	0.000	0.000	Strato2_3095_82743_L_0									
39 D	4.638	-1.5592E-03	181.2	23.19	181.2	90.60	ACTIVE	0.000	-7.600	0.000	1.000	1.000
23.19	0.000	0.000	Strato2_3095_82743_L_0									
40 D	4.853	-1.4503E-03	185.8	24.26	185.8	92.88	ACTIVE	0.000	-7.800	0.000	1.000	1.000
24.26	0.000	0.000	Strato2_3095_82743_L_0									
41 D	5.588	-1.3472E-03	189.3	27.94	189.3	94.63	UL-RL	3.6018E+04	-8.000	0.000	1.000	1.000
27.94	0.000	0.000	Strato2_3095_82743_L_0									
42 D	6.995	-1.2497E-03	193.8	34.97	193.8	96.90	UL-RL	3.6018E+04	-8.200	0.000	1.000	1.000
34.97	0.000	0.000	Strato2_3095_82743_L_0									
43 D	8.222	-1.1578E-03	197.3	41.11	197.3	98.67	UL-RL	3.6018E+04	-8.400	0.000	1.000	1.000
41.11	0.000	0.000	Strato2_3095_82743_L_0									
44 D	9.473	-1.0711E-03	201.8	47.36	201.8	100.9	UL-RL	3.6018E+04	-8.600	0.000	1.000	1.000
47.36	0.000	0.000	Strato2_3095_82743_L_0									
45 D	10.56	-9.8948E-04	205.4	52.80	205.4	102.7	UL-RL	3.6018E+04	-8.800	0.000	1.000	1.000
52.80	0.000	0.000	Strato2_3095_82743_L_0									
46 D	11.67	-9.1249E-04	209.7	58.33	209.7	104.9	UL-RL	3.6018E+04	-9.000	0.000	1.000	1.000
58.33	0.000	0.000	Strato2_3095_82743_L_0									
47 D	12.64	-8.3982E-04	213.3	63.18	213.3	106.7	UL-RL	3.6018E+04	-9.200	0.000	1.000	1.000
63.18	0.000	0.000	Strato2_3095_82743_L_0									
48 D	13.65	-7.7109E-04	217.8	68.23	217.8	108.9	UL-RL	3.6018E+04	-9.400	0.000	1.000	1.000
68.23	0.000	0.000	Strato2_3095_82743_L_0									
49 D	14.52	-7.0591E-04	221.4	72.62	221.4	110.7	UL-RL	3.6018E+04	-9.600	0.000	1.000	1.000
72.62	0.000	0.000	Strato2_3095_82743_L_0									
50 D	15.45	-6.4388E-04	225.8	77.25	225.8	112.9	UL-RL	3.6018E+04	-9.800	0.000	1.000	1.000
77.25	0.000	0.000	Strato2_3095_82743_L_0									
51 D	16.26	-5.8460E-04	229.4	81.28	229.4	114.7	UL-RL	3.6018E+04	-10.000	0.000	1.000	1.000
81.28	0.000	0.000	Strato2_3095_82743_L_0									
52 D	17.12	-5.2767E-04	233.8	85.59	233.8	116.9	UL-RL	3.6018E+04	-10.200	0.000	1.000	1.000
85.59	0.000	0.000	Strato2_3095_82743_L_0									
53 D	17.88	-4.7273E-04	237.5	89.38	237.5	118.7	UL-RL	3.6018E+04	-10.400	0.000	1.000	1.000
89.38	0.000	0.000	Strato2_3095_82743_L_0									
54 D	18.68	-4.1940E-04	241.8	93.42	241.8	120.9	UL-RL	3.6018E+04	-10.600	0.000	1.000	1.000
93.42	0.000	0.000	Strato2_3095_82743_L_0									
55 D	19.41	-3.6734E-04	245.4	97.05	245.4	122.7	UL-RL	3.6018E+04	-10.800	0.000	1.000	1.000
97.05	0.000	0.000	Strato2_3095_82743_L_0									
56 D	20.20	-3.1626E-04	249.8	101.0	249.8	124.9	UL-RL	3.6018E+04	-11.000	0.000	1.000	1.000
101.0	0.000	0.000	Strato2_3095_82743_L_0									
57 D	20.91	-2.6588E-04	253.4	104.5	253.4	126.7	UL-RL	3.6018E+04	-11.200	0.000	1.000	1.000
104.5	0.000	0.000	Strato2_3095_82743_L_0									
58 D	21.69	-2.1596E-04	257.8	108.4	257.8	128.9	UL-RL	3.6018E+04	-11.400	0.000	1.000	1.000
108.4	0.000	0.000	Strato2_3095_82743_L_0									
59 D	22.39	-1.6631E-04	261.5	111.9	261.5	130.7	UL-RL	3.6018E+04	-11.600	0.000	1.000	1.000
111.9	0.000	0.000	Strato2_3095_82743_L_0									
60 D	23.16	-1.1680E-04	265.8	115.8	265.8	132.9	UL-RL	3.6018E+04	-11.800	0.000	1.000	1.000
115.8	0.000	0.000	Strato2_3095_82743_L_0									
61 D	11.93	-6.7315E-05	269.4	119.3	269.4	134.7	UL-RL	3.6018E+04	-12.000	0.000	1.000	1.000
119.3	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.SLERara_3454                                          |
|          Exe Time :29 July 2019      18:02:25                                                  |
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New Project

STRESS RESULTS FOR GROUP NO. 2
0_R :

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E2 CL GA 2701 002	Rev. A	Foglio 992 di 1221							
38 D	13.85	1.6738E-03	26.00	69.25	141.9	74.38	UL-RL	1.9852E+04	-7.400	0.000	1.000	1.000
69.25	0.000	0.000	Strato2_3095_82743_L_0									
39 D	13.78	1.5592E-03	30.00	68.90	145.9	76.25	UL-RL	1.9852E+04	-7.600	0.000	1.000	1.000
68.90	0.000	0.000	Strato2_3095_82743_L_0									
40 D	13.74	1.4503E-03	34.00	68.68	149.9	78.13	UL-RL	1.9852E+04	-7.800	0.000	1.000	1.000
68.68	0.000	0.000	Strato2_3095_82743_L_0									
41 D	13.72	1.3472E-03	38.00	68.60	153.9	80.03	UL-RL	1.9852E+04	-8.000	0.000	1.000	1.000
68.60	0.000	0.000	Strato2_3095_82743_L_0									
42 D	13.73	1.2497E-03	42.00	68.66	157.9	81.94	UL-RL	1.9852E+04	-8.200	0.000	1.000	1.000
68.66	0.000	0.000	Strato2_3095_82743_L_0									
43 D	13.77	1.1578E-03	46.00	68.86	161.9	83.85	UL-RL	1.9852E+04	-8.400	0.000	1.000	1.000
68.86	0.000	0.000	Strato2_3095_82743_L_0									
44 D	13.84	1.0711E-03	50.00	69.20	165.9	85.78	UL-RL	1.9852E+04	-8.600	0.000	1.000	1.000
69.20	0.000	0.000	Strato2_3095_82743_L_0									
45 D	13.93	9.8948E-04	54.00	69.66	169.9	87.73	UL-RL	1.9852E+04	-8.800	0.000	1.000	1.000
69.66	0.000	0.000	Strato2_3095_82743_L_0									
46 D	14.05	9.1249E-04	58.00	70.25	173.9	89.68	UL-RL	1.9852E+04	-9.000	0.000	1.000	1.000
70.25	0.000	0.000	Strato2_3095_82743_L_0									
47 D	14.19	8.3982E-04	62.00	70.94	177.9	91.63	UL-RL	1.9852E+04	-9.200	0.000	1.000	1.000
70.94	0.000	0.000	Strato2_3095_82743_L_0									
48 D	14.35	7.7109E-04	66.00	71.74	181.9	93.60	UL-RL	1.9852E+04	-9.400	0.000	1.000	1.000
71.74	0.000	0.000	Strato2_3095_82743_L_0									
49 D	14.52	7.0591E-04	70.00	72.62	185.9	95.57	UL-RL	1.9852E+04	-9.600	0.000	1.000	1.000
72.62	0.000	0.000	Strato2_3095_82743_L_0									
50 D	14.72	6.4388E-04	74.00	73.58	189.9	97.55	UL-RL	1.9852E+04	-9.800	0.000	1.000	1.000
73.58	0.000	0.000	Strato2_3095_82743_L_0									
51 D	14.92	5.8460E-04	78.00	74.60	193.9	99.53	UL-RL	1.9852E+04	-10.000	0.000	1.000	1.000
74.60	0.000	0.000	Strato2_3095_82743_L_0									
52 D	15.14	5.2767E-04	82.00	75.68	197.9	101.5	UL-RL	1.9852E+04	-10.200	0.000	1.000	1.000
75.68	0.000	0.000	Strato2_3095_82743_L_0									
53 D	15.36	4.7273E-04	86.00	76.80	201.9	103.5	UL-RL	1.9852E+04	-10.400	0.000	1.000	1.000
76.80	0.000	0.000	Strato2_3095_82743_L_0									
54 D	15.59	4.1940E-04	90.00	77.95	205.9	105.5	UL-RL	1.9852E+04	-10.600	0.000	1.000	1.000
77.95	0.000	0.000	Strato2_3095_82743_L_0									
55 D	15.83	3.6734E-04	94.00	79.13	209.9	107.5	UL-RL	1.9852E+04	-10.800	0.000	1.000	1.000
79.13	0.000	0.000	Strato2_3095_82743_L_0									
56 D	16.06	3.1626E-04	98.00	80.31	213.9	109.5	UL-RL	1.9852E+04	-11.000	0.000	1.000	1.000
80.31	0.000	0.000	Strato2_3095_82743_L_0									
57 D	16.30	2.6588E-04	102.0	81.51	217.9	111.5	UL-RL	1.9852E+04	-11.200	0.000	1.000	1.000
81.51	0.000	0.000	Strato2_3095_82743_L_0									
58 D	16.54	2.1596E-04	106.0	82.71	221.9	113.5	UL-RL	1.9852E+04	-11.400	0.000	1.000	1.000
82.71	0.000	0.000	Strato2_3095_82743_L_0									
59 D	16.78	1.6631E-04	110.0	83.91	225.9	115.5	UL-RL	1.9852E+04	-11.600	0.000	1.000	1.000
83.91	0.000	0.000	Strato2_3095_82743_L_0									
60 D	17.02	1.1680E-04	114.0	85.11	229.9	117.5	UL-RL	1.9852E+04	-11.800	0.000	1.000	1.000
85.11	0.000	0.000	Strato2_3095_82743_L_0									
61 D	8.630	6.7315E-05	118.0	86.30	233.9	119.5	UL-RL	1.9852E+04	-12.000	0.000	1.000	1.000
86.30	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.SLERara_3454                                                                                   |
|          Exe Time :29 July 2019  18:02:25                                                                                               |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60
 CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.5747	-1.5747	1.26930E-11	0.31494
2	3.8259	-3.8259	-0.31494	1.0801
3	5.9441	-5.9441	-1.0801	2.2689
4	8.7898	-8.7898	-2.2689	4.0269
5	11.619	-11.619	-4.0269	6.3508
6	14.959	-14.959	-6.3508	9.3425
7	18.349	-18.349	-9.3425	13.012
8	22.164	-22.164	-13.012	17.445
9	26.028	-26.028	-17.445	22.651
10	30.276	-30.276	-22.651	28.706
11	34.643	-34.643	-28.706	35.635
12	39.365	-39.365	-35.635	43.508
13	-51.524	51.524	-43.508	33.203
14	-46.333	46.333	-33.203	23.936

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 993 di 1221
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15	-40.994	40.994	-23.936	15.738
16	-35.358	35.358	-15.738	8.6659
17	-29.563	29.563	-8.6659	2.7533
18	-23.458	23.458	-2.7533	-1.9382
19	-17.186	17.186	1.9382	-5.3755
20	-10.614	10.614	5.3755	-7.4982
21	-3.8688	3.8688	7.4982	-8.2720
22	3.1705	-3.1705	8.2720	-7.6379
23	10.387	-10.387	7.6379	-5.5605
24	17.877	-17.877	5.5605	-1.9851
25	25.549	-25.549	1.9851	3.1247
26	33.505	-33.505	-3.1247	9.8257
27	41.647	-41.647	-9.8257	18.155
28	50.069	-50.069	-18.155	28.169
29	58.680	-58.680	-28.169	39.905
30	67.567	-67.567	-39.905	53.418
31	76.634	-76.634	-53.418	68.745
32	67.414	-67.414	-68.745	82.228
33	57.603	-57.603	-82.228	93.749
34	47.645	-47.645	-93.749	103.28
35	37.632	-37.632	-103.28	110.80
36	27.689	-27.689	-110.80	116.34
37	18.014	-18.014	-116.34	119.94
38	8.6448	-8.6448	-119.94	121.67
39	-0.49763	0.49763	-121.67	121.57
40	-9.3814	9.3814	-121.57	119.70
41	-17.513	17.513	-119.70	116.20
42	-24.250	24.250	-116.20	111.35
43	-29.800	29.800	-111.35	105.39
44	-34.166	34.166	-105.39	98.552
45	-37.539	37.539	-98.552	91.044
46	-39.923	39.923	-91.044	83.060
47	-41.475	41.475	-83.060	74.765
48	-42.176	42.176	-74.765	66.330
49	-42.175	42.175	-66.330	57.895
50	-41.442	41.442	-57.895	49.606
51	-40.106	40.106	-49.606	41.585
52	-38.123	38.123	-41.585	33.961
53	-35.607	35.607	-33.961	26.839
54	-32.515	32.515	-26.839	20.336
55	-28.931	28.931	-20.336	14.550
56	-24.793	24.793	-14.550	9.5915
57	-20.186	20.186	-9.5915	5.5544
58	-15.041	15.041	-5.5544	2.5462
59	-9.4346	9.4346	-2.5462	0.65923
60	-3.2960	3.2960	-0.65923	1.01952E-12

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:02:25  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirantel_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 5.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	99.123	-6.38098E-04	1.33020E-03	0.0000	2633.3	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  18:02:25  |
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FINAL INCREMENTAL ANALYSIS

SUMMARY

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
994 di 1221

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	2
2	CONVERGENCE :YES	4
3	CONVERGENCE :YES	5
4	CONVERGENCE :YES	4
5	CONVERGENCE :YES	6

END OF PROCESS FOR PROBLEM

New Project

NONLINEAR SOLUTION CPU TIME 0.08 [sec]

DATABASE CREATION CPU TIME..... 0.27 [sec]

4.5. Design Assumption : A1+M1+R1 - File di Paratie - File di input (.d)

* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: A1+M1+R1

* Time:lunedì 29 luglio 2019 18:02:26

* 1: Defining general settings

UNIT m kN

TITLE New Project

DELTA 0.2

option param itemax 100

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)

WALL LeftWall_32 0 -12 0 1

* 3: Defining surfaces for wall(s)

SOIL 0_L LeftWall_32 -12 0 1 0

SOIL 0_R LeftWall_32 -12 0 2 180

* 4: Defining soil layers

*

* Soil Profile (Strato1_2_8_L_0)

*

LDATA Strato1_2_8_L_0 0 LeftWall_32

ATREST 0.53 1 1

WEIGHT 19 9 10

PERMEABILITY 1E-06

RESISTANCE 0 29

YOUNG 2E+04 6E+04

ENDL

*

* Soil Profile (Strato2_3095_82743_L_0)

*

LDATA Strato2_3095_82743_L_0 -6.1 LeftWall_32

ATREST 0.5 0.5 1

WEIGHT 20 10 10

PERMEABILITY 0.0001

RESISTANCE 20 35

YOUNG 5E+04 1.5E+05

ENDL

* 5: Defining structural materials

* Steel material: 108 Name=Fe360 E=206000200 kPa

MATERIAL Fe360_108 2.06E+08

* Concrete material: 104 Name=C25/30 E=31475800 kPa

MATERIAL C2530_104 3.148E+07

* Rebar material: 124 Name=acciaio armonico E=200100000 kPa

MATERIAL acciaioarmonico_124 2.001E+08

* Concrete material: 103 Name=C20/25 E=29962000 kPa

MATERIAL C2025_103 2.996E+07

* 6: Defining structural elements

* 6.1: Beams and combined Wall Elements

BEAM WallElement_33 LeftWall_32 -12 0 C2530_104 0.6848 00 00 0

* 6.2: Supports

WIRE Tirante1_429 LeftWall_32 -2.4 acciaioarmonico_124 1.316E-05 93.94 15 0 0

* 6.3: Strips

STRIP LeftWall_32 2 5 0 40 0 11.54 30

STRIP LeftWall_32 2 5 0 40 0 41.8 45

* 7: Defining Steps

STEP Stagel_31

CHANGE Strato1_2_8_L_0 U-FRICT=29 LeftWall_32

CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 996 di 1221
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```

*****
*
*  RELEASE    2017.1      *Build date:Jul 11, 2017*
*
*
*  Ce.A.S.    S.R.L  CENTRO DI ANALISI STRUTTURALE
*             VIALE  GIUSTINIANO 10
*             20129  M I L A N O (ITALIA)
*  TEL.      +39 02 2020221  (+39 035 23 67 19)
*  FAX       +39 02 29512533 (+39 035 42285 49)
*  email     bruno.becci@ceas.it
*  Web Page  www.ceas.it
*****

```

```

JOB : NewProject.BaseDesignSection_28.A1M1R1_3484
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL STRESS >
ACCEPTED <PARAM ITEMEX 100 >
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  2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                     |
|                                                                                                     |
|          NewProject.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          18:02:26          |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 61
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 122
NO. OF CONSTRAINTS CARDS (NVINC)..... 0
NO. OF ELEMENT GROUPS (NEG)..... 4
NO. OF SOLUTION STEPS (NSTE)..... 5
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 89
NO. OF LONG NAMES (LASTNAME) ..... 21
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH..... 1
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.

```


GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
998 di 1221

```

75 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
76 : SETWALL LeftWall_32
77 : GEOM 0 -2.9
78 : WATER -26 0 -12 0 0
79 : ADD Tirantel_429
80 : ENDSTEP
81 : STEP Stage5_714
82 : CHANGE Strato1_2_8_L_0 D-FRICT=29 LeftWall_32
83 : CHANGE Strato2_3095_82743_L_0 D-FRICT=35 LeftWall_32
84 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
85 : CHANGE Strato2_3095_82743_L_0 D-COHE=20 LeftWall_32
86 : SETWALL LeftWall_32
87 : GEOM 0 -6.1
88 : WATER -26 0 -12 0 0
89 : ENDSTEP

```

```

-----+-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  18:02:26  |
|-----+-----

```

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 -10.2000 /
53	0.0000	-10.4000 /	54	0.0000 -10.6000 /	55	0.0000 -10.8000 /	56	0.0000 -11.0000 /
57	0.0000	-11.2000 /	58	0.0000 -11.4000 /	59	0.0000 -11.6000 /	60	0.0000 -11.8000 /
61	0.0000	-12.0000 /						

```

-----+-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  18:02:26  |
|-----+-----

```

ELEMENT GROUP NO. 1

```

0_L
_5 61 0 1 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0

```

```

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

```

element group behaviour throughout stage analysis

```

stage  status
-----

```

- 1 active
- 2 active
- 3 active
- 4 active
- 5 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

```



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 999 di 1221
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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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	0.2000	0.000	0.000	0.000	1.000
28	28	1	0.2000	0.000	0.000	0.000	1.000
29	29	1	0.2000	0.000	0.000	0.000	1.000
30	30	1	0.2000	0.000	0.000	0.000	1.000
31	31	1	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	0.1000	0.000	0.000	0.000	1.000

```

-----
|          PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION   *Build date:Jul 11, 2017*   |
|                                                                    |
|          NewProject.BaseDesignSection_28.A1M1R1_3484         |
|          Exe Time :29 July 2019          18:02:26           |
-----

```

```

ELEMENT GROUP NO.  2

O_R
5 61  0  1  0  0  0  0  0  0  0  0  0  0  0  0  2  0  0  0  0
.....
.....2D PLASTIC SOIL .....
.....

```

element group behaviour throughout stage analysis

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1000 di
1221

stage status

1 active
2 active
3 active
4 active
5 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

element data

el n mat area flag

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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000
24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	0.2000	0.000	0.000	0.000	2.000
28	28	1	0.2000	0.000	0.000	0.000	2.000
29	29	1	0.2000	0.000	0.000	0.000	2.000
30	30	1	0.2000	0.000	0.000	0.000	2.000
31	31	1	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

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1001 di 1221
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```
60 60 2 0.2000 0.000 0.000 0.000 2.000
61 61 2 0.1000 0.000 0.000 0.000 2.000
```

```
+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484 |
|          Exe Time :29 July 2019      18:02:26      |
+-----+
```

```
ELEMENT GROUP NO. 3

WallElement_33
  2 60 0 1 0 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
4      active
5      active
```

```
material set no. 1

prop( 1) young modulus      0.314800E+08
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future .....0.252200E-43
```

```
no. of step variable items: 1
step inertia multiplier
-----
1  1.000
2  1.000
3  1.000
4  1.000
5  1.000
```

```
element data

  el  na  nb  mat   erc1   erc2   thick   by-i   by-j
-----
```

1	1	2	1	0.000	0.000	0.6848	0.000	0.000
2	2	3	1	0.000	0.000	0.6848	0.000	0.000
3	3	4	1	0.000	0.000	0.6848	0.000	0.000
4	4	5	1	0.000	0.000	0.6848	0.000	0.000
5	5	6	1	0.000	0.000	0.6848	0.000	0.000
6	6	7	1	0.000	0.000	0.6848	0.000	0.000
7	7	8	1	0.000	0.000	0.6848	0.000	0.000
8	8	9	1	0.000	0.000	0.6848	0.000	0.000
9	9	10	1	0.000	0.000	0.6848	0.000	0.000
10	10	11	1	0.000	0.000	0.6848	0.000	0.000
11	11	12	1	0.000	0.000	0.6848	0.000	0.000
12	12	13	1	0.000	0.000	0.6848	0.000	0.000
13	13	14	1	0.000	0.000	0.6848	0.000	0.000
14	14	15	1	0.000	0.000	0.6848	0.000	0.000
15	15	16	1	0.000	0.000	0.6848	0.000	0.000
16	16	17	1	0.000	0.000	0.6848	0.000	0.000
17	17	18	1	0.000	0.000	0.6848	0.000	0.000
18	18	19	1	0.000	0.000	0.6848	0.000	0.000
19	19	20	1	0.000	0.000	0.6848	0.000	0.000
20	20	21	1	0.000	0.000	0.6848	0.000	0.000
21	21	22	1	0.000	0.000	0.6848	0.000	0.000
22	22	23	1	0.000	0.000	0.6848	0.000	0.000
23	23	24	1	0.000	0.000	0.6848	0.000	0.000
24	24	25	1	0.000	0.000	0.6848	0.000	0.000
25	25	26	1	0.000	0.000	0.6848	0.000	0.000
26	26	27	1	0.000	0.000	0.6848	0.000	0.000
27	27	28	1	0.000	0.000	0.6848	0.000	0.000
28	28	29	1	0.000	0.000	0.6848	0.000	0.000
29	29	30	1	0.000	0.000	0.6848	0.000	0.000
30	30	31	1	0.000	0.000	0.6848	0.000	0.000
31	31	32	1	0.000	0.000	0.6848	0.000	0.000
32	32	33	1	0.000	0.000	0.6848	0.000	0.000
33	33	34	1	0.000	0.000	0.6848	0.000	0.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1002 di 1221
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34	34	35	1	0.000	0.000	0.6848	0.000	0.000
35	35	36	1	0.000	0.000	0.6848	0.000	0.000
36	36	37	1	0.000	0.000	0.6848	0.000	0.000
37	37	38	1	0.000	0.000	0.6848	0.000	0.000
38	38	39	1	0.000	0.000	0.6848	0.000	0.000
39	39	40	1	0.000	0.000	0.6848	0.000	0.000
40	40	41	1	0.000	0.000	0.6848	0.000	0.000
41	41	42	1	0.000	0.000	0.6848	0.000	0.000
42	42	43	1	0.000	0.000	0.6848	0.000	0.000
43	43	44	1	0.000	0.000	0.6848	0.000	0.000
44	44	45	1	0.000	0.000	0.6848	0.000	0.000
45	45	46	1	0.000	0.000	0.6848	0.000	0.000
46	46	47	1	0.000	0.000	0.6848	0.000	0.000
47	47	48	1	0.000	0.000	0.6848	0.000	0.000
48	48	49	1	0.000	0.000	0.6848	0.000	0.000
49	49	50	1	0.000	0.000	0.6848	0.000	0.000
50	50	51	1	0.000	0.000	0.6848	0.000	0.000
51	51	52	1	0.000	0.000	0.6848	0.000	0.000
52	52	53	1	0.000	0.000	0.6848	0.000	0.000
53	53	54	1	0.000	0.000	0.6848	0.000	0.000
54	54	55	1	0.000	0.000	0.6848	0.000	0.000
55	55	56	1	0.000	0.000	0.6848	0.000	0.000
56	56	57	1	0.000	0.000	0.6848	0.000	0.000
57	57	58	1	0.000	0.000	0.6848	0.000	0.000
58	58	59	1	0.000	0.000	0.6848	0.000	0.000
59	59	60	1	0.000	0.000	0.6848	0.000	0.000
60	60	61	1	0.000	0.000	0.6848	0.000	0.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1MIR1_3484
|          Exe Time :29 July 2019      18:02:26
|
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```

```

ELEMENT GROUP NO. 4

Tirantel_429      :
6 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0
.....
.....2D POST-TENSION ANCHOR....
.....

```

```

element group behaviour throughout stage analysis

stage  status
-----
1  inactive
2  inactive
3  inactive
4  active
5  active

```

```

material set no. 1

prop( 1) angle      15.0000
prop( 2) young modulus 0.200100E+09
prop( 3) modification time 0.00000
prop( 4) new young modulus 0.00000

no. of step variable items: 2
step  -ve lim  +ve lim
-----
1  0.000  0.000
2  0.000  0.000
3  0.000  0.000
4  0.000  0.000
5  0.000  0.000

```

```

element data

el  n mat      a/l  pinit  yieldc  yieldt
-----
1  13  1  0.1316E-04  93.94  0.000  0.000

```

```

-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1MIR1_3484
|          Exe Time :29 July 2019      18:02:26
|
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1003 di
1221

```

NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 10
MAXIMUM POINTS/LCURVE (NPTM) ..... 5

```

```

|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A1M1R1_3484
|          Exe Time :29 July 2019      18:02:26
|

```

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
6.00000	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
6.00000	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
6.00000	0.0000E+00

```

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

```

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
4.20000	0.0000E+00
6.00000	0.0000E+00

```

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 5

```

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
5.20000	0.0000E+00
6.00000	0.0000E+00

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1004 di 1221
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LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
6.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484 |
|          Exe Time :29 July 2019      18:02:26      |
+-----+
    
```

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

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1005 di 1221
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STEP 5 TOTAL APPLIED LOAD IN DIR. 2 Y-DISPL.F 0.0000000
STEP 5 TOTAL APPLIED LOAD IN DIR. 4 X-ROT. F 0.0000000

LOAD INPUT SECTION COMPLETED

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  18:02:26  |
+-----+

```

NO. OF LAYERS 2
NO. OF DATA PER LAYER..... 100

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  18:02:26  |
+-----+

```

LAYER DESCRIPTORS FOR STEP NO. 1

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

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
ITEM NO. 3<LEVEL >= -6.1000 (BOTH WALLS)
ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1006 di 1221
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ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

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

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -6.1000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

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

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1007 di 1221
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ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -6.1000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -6.1000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1008 di 1221
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ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 5

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.30400 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.0410 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.30400 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.0410 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 5

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -6.1000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.23500 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.8790 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.23500 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.8790 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 10 VALUES

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
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|          NewProject.BaseDesignSection_28.AlMIR1_3484  |
|          Exe Time :29 July 2019  18:02:26  |
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PHASE DESCRIPTORS

STEP NO. 1

	LEFT WALL	RIGHT WALL
Y	0.000	-0.9990E+30
Z-PC	0.000	0.000

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1009 di 1221
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Z-EXCAVATION	0.000	0.000
Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-12.00	-12.00
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		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-12.00	-12.00
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		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-2.900	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-12.00	-12.00

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1010 di 1221
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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

STEP NO.	4		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-2.900	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-12.00	-12.00
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 4

STEP NO.	5		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-6.100	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-12.00	-12.00
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

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1011 di 1221
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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 5

LEFT-HAND WALL

LOWER LEVEL -12.00000
 UPPER LEVEL 0.00000

RIGHT-HAND WALL

LOWER LEVEL -12.00000
 UPPER LEVEL 0.00000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019    18:02:26                             |
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INITIAL STRESS TABLES

SECTION

NUMBER OF DEFINED TABLES 2

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

ACTIVATION TIME 2.0000
 END TIME (TIME BEYOND WHICH IT IS REMOVED) 5.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 0.000000000000000E+000
 FOUNDATION WIDTH (B) 40.0000000000000
 ZETA-F..... 0.000000000000000E+000
 Q-F 11.5400000000000
 BETA 30.0000000000000
 BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

INPUT DATA FOR INITIAL STRESS SET NO. 2
 PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

ACTIVATION TIME 2.0000
 END TIME (TIME BEYOND WHICH IT IS REMOVED) 5.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 0.000000000000000E+000
 FOUNDATION WIDTH (B) 40.0000000000000
 ZETA-F..... 0.000000000000000E+000
 Q-F 41.8000000000000
 BETA 45.0000000000000
 BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
 POSITION 3530

NO. OF D.P.W FOR THIS AREA 7258
 MAX NO. OF D.P.W. AVAILABLE 81920
 ** MAX NO OF ITERATIONS SET TO 100

ITER 0 RNORM = 0.000 RMNORM= 0.000

GENERAL CONTRACTOR



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Doc. N.

Progetto INOR

Lotto 12

Codifica Documento E E2 CL GA 2701 002

Rev. A

Foglio 1012 di 1221

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RINORM=0.2153E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 22.99 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.2153E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 122 NODE 61 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

```

```

ITER 1 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2153E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 22.99 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.2153E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 122 NODE 61 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2153E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 22.99 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.2153E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 122 NODE 61 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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| PARATIEPLUS(TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| NewProject.BaseDesignSection_28.A1M1R1_3484 |
| Exe Time :29 July 2019 18:02:26 |
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New Project
SOLUTION REACHED USING 2 ITERATIONS ON 100
PRINT OUT FOR TIME STEP 1 ( AT TIME 1.000 )
PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

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Y-DISPL.F X-ROT. F
(02) (04) (

```

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

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+-----+
| PARATIEPLUS(TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| NewProject.BaseDesignSection_28.A1M1R1_3484 |
| Exe Time :29 July 2019 18:02:26 |
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New Project
STRESS RESULTS FOR GROUP NO. 1

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O_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
CURRENT TIME IS 1.0000

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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 FACTOR	UFACTOR
Peg	Su_a	Su_p	LAYER									
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	2.1221E+04	0.000	0.000	1.000	1.000

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GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1013 di 1221
0.000	0.000	0.000	Strato1_2_8_L_0		
2 D	0.4028	0.000	3.800 2.014	3.800	2.014
2.014	0.000	0.000	Strato1_2_8_L_0		
3 D	0.8056	0.000	7.600 4.028	7.600	4.028
4.028	0.000	0.000	Strato1_2_8_L_0		
4 D	1.208	0.000	11.40 6.042	11.40	6.042
6.042	0.000	0.000	Strato1_2_8_L_0		
5 D	1.611	0.000	15.20 8.056	15.20	8.056
8.056	0.000	0.000	Strato1_2_8_L_0		
6 D	2.014	0.000	19.00 10.07	19.00	10.07
10.07	0.000	0.000	Strato1_2_8_L_0		
7 D	2.417	0.000	22.80 12.08	22.80	12.08
12.08	0.000	0.000	Strato1_2_8_L_0		
8 D	2.820	0.000	26.60 14.10	26.60	14.10
14.10	0.000	0.000	Strato1_2_8_L_0		
9 D	3.222	0.000	30.40 16.11	30.40	16.11
16.11	0.000	0.000	Strato1_2_8_L_0		
10 D	3.625	0.000	34.20 18.13	34.20	18.13
18.13	0.000	0.000	Strato1_2_8_L_0		
11 D	4.028	0.000	38.00 20.14	38.00	20.14
20.14	0.000	0.000	Strato1_2_8_L_0		
12 D	4.431	0.000	41.80 22.15	41.80	22.15
22.15	0.000	0.000	Strato1_2_8_L_0		
13 D	4.834	0.000	45.60 24.17	45.60	24.17
24.17	0.000	0.000	Strato1_2_8_L_0		
14 D	5.236	0.000	49.40 26.18	49.40	26.18
26.18	0.000	0.000	Strato1_2_8_L_0		
15 D	5.639	0.000	53.20 28.20	53.20	28.20
28.20	0.000	0.000	Strato1_2_8_L_0		
16 D	6.042	0.000	57.00 30.21	57.00	30.21
30.21	0.000	0.000	Strato1_2_8_L_0		
17 D	6.445	0.000	60.80 32.22	60.80	32.22
32.22	0.000	0.000	Strato1_2_8_L_0		
18 D	6.848	0.000	64.60 34.24	64.60	34.24
34.24	0.000	0.000	Strato1_2_8_L_0		
19 D	7.250	0.000	68.40 36.25	68.40	36.25
36.25	0.000	0.000	Strato1_2_8_L_0		
20 D	7.653	0.000	72.20 38.27	72.20	38.27
38.27	0.000	0.000	Strato1_2_8_L_0		
21 D	8.056	0.000	76.00 40.28	76.00	40.28
40.28	0.000	0.000	Strato1_2_8_L_0		
22 D	8.459	0.000	79.80 42.29	79.80	42.29
42.29	0.000	0.000	Strato1_2_8_L_0		
23 D	8.862	0.000	83.60 44.31	83.60	44.31
44.31	0.000	0.000	Strato1_2_8_L_0		
24 D	9.264	0.000	87.40 46.32	87.40	46.32
46.32	0.000	0.000	Strato1_2_8_L_0		
25 D	9.667	0.000	91.20 48.34	91.20	48.34
48.34	0.000	0.000	Strato1_2_8_L_0		
26 D	10.07	0.000	95.00 50.35	95.00	50.35
50.35	0.000	0.000	Strato1_2_8_L_0		
27 D	10.47	0.000	98.80 52.36	98.80	52.36
52.36	0.000	0.000	Strato1_2_8_L_0		
28 D	10.88	0.000	102.6 54.38	102.6	54.38
54.38	0.000	0.000	Strato1_2_8_L_0		
29 D	11.28	0.000	106.4 56.39	106.4	56.39
56.39	0.000	0.000	Strato1_2_8_L_0		
30 D	11.68	0.000	110.2 58.41	110.2	58.41
58.41	0.000	0.000	Strato1_2_8_L_0		
31 D	12.08	0.000	114.0 60.42	114.0	60.42
60.42	0.000	0.000	Strato1_2_8_L_0		
32 D	11.79	0.000	117.9 58.95	117.9	58.95
58.95	0.000	0.000	Strato2_3095_82743_L_0		
33 D	12.19	0.000	121.9 60.95	121.9	60.95
60.95	0.000	0.000	Strato2_3095_82743_L_0		
34 D	12.59	0.000	125.9 62.95	125.9	62.95
62.95	0.000	0.000	Strato2_3095_82743_L_0		
35 D	12.99	0.000	129.9 64.95	129.9	64.95
64.95	0.000	0.000	Strato2_3095_82743_L_0		
36 D	13.39	0.000	133.9 66.95	133.9	66.95
66.95	0.000	0.000	Strato2_3095_82743_L_0		
37 D	13.79	0.000	137.9 68.95	137.9	68.95
68.95	0.000	0.000	Strato2_3095_82743_L_0		
38 D	14.19	0.000	141.9 70.95	141.9	70.95
70.95	0.000	0.000	Strato2_3095_82743_L_0		
39 D	14.59	0.000	145.9 72.95	145.9	72.95
72.95	0.000	0.000	Strato2_3095_82743_L_0		
40 D	14.99	0.000	149.9 74.95	149.9	74.95
74.95	0.000	0.000	Strato2_3095_82743_L_0		
41 D	15.39	0.000	153.9 76.95	153.9	76.95
76.95	0.000	0.000	Strato2_3095_82743_L_0		
42 D	15.79	0.000	157.9 78.95	157.9	78.95
78.95	0.000	0.000	Strato2_3095_82743_L_0		
43 D	16.19	0.000	161.9 80.95	161.9	80.95
80.95	0.000	0.000	Strato2_3095_82743_L_0		



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1015 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          18:02:26          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	1.4726E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Stratol_2_8_L_0									
2 D	0.4028	0.000	3.800	2.014	3.800	2.014	V-C	1.4726E+04	-0.2000	0.000	1.000	1.000
2.014	0.000	0.000	Stratol_2_8_L_0									
3 D	0.8056	0.000	7.600	4.028	7.600	4.028	V-C	1.4726E+04	-0.4000	0.000	1.000	1.000
4.028	0.000	0.000	Stratol_2_8_L_0									
4 D	1.208	0.000	11.40	6.042	11.40	6.042	V-C	1.4726E+04	-0.6000	0.000	1.000	1.000
6.042	0.000	0.000	Stratol_2_8_L_0									
5 D	1.611	0.000	15.20	8.056	15.20	8.056	V-C	1.4726E+04	-0.8000	0.000	1.000	1.000
8.056	0.000	0.000	Stratol_2_8_L_0									
6 D	2.014	0.000	19.00	10.07	19.00	10.07	V-C	1.4726E+04	-1.000	0.000	1.000	1.000
10.07	0.000	0.000	Stratol_2_8_L_0									
7 D	2.417	0.000	22.80	12.08	22.80	12.08	V-C	1.4726E+04	-1.200	0.000	1.000	1.000
12.08	0.000	0.000	Stratol_2_8_L_0									
8 D	2.820	0.000	26.60	14.10	26.60	14.10	V-C	1.4726E+04	-1.400	0.000	1.000	1.000
14.10	0.000	0.000	Stratol_2_8_L_0									
9 D	3.222	0.000	30.40	16.11	30.40	16.11	V-C	1.4726E+04	-1.600	0.000	1.000	1.000
16.11	0.000	0.000	Stratol_2_8_L_0									
10 D	3.625	0.000	34.20	18.13	34.20	18.13	V-C	1.4726E+04	-1.800	0.000	1.000	1.000
18.13	0.000	0.000	Stratol_2_8_L_0									
11 D	4.028	0.000	38.00	20.14	38.00	20.14	V-C	1.4726E+04	-2.000	0.000	1.000	1.000
20.14	0.000	0.000	Stratol_2_8_L_0									
12 D	4.431	0.000	41.80	22.15	41.80	22.15	V-C	1.4726E+04	-2.200	0.000	1.000	1.000
22.15	0.000	0.000	Stratol_2_8_L_0									
13 D	4.834	0.000	45.60	24.17	45.60	24.17	V-C	1.4726E+04	-2.400	0.000	1.000	1.000
24.17	0.000	0.000	Stratol_2_8_L_0									
14 D	5.236	0.000	49.40	26.18	49.40	26.18	V-C	1.4726E+04	-2.600	0.000	1.000	1.000
26.18	0.000	0.000	Stratol_2_8_L_0									
15 D	5.639	0.000	53.20	28.20	53.20	28.20	V-C	1.4726E+04	-2.800	0.000	1.000	1.000
28.20	0.000	0.000	Stratol_2_8_L_0									
16 D	6.042	0.000	57.00	30.21	57.00	30.21	V-C	1.4726E+04	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Stratol_2_8_L_0									
17 D	6.445	0.000	60.80	32.22	60.80	32.22	V-C	1.4726E+04	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Stratol_2_8_L_0									
18 D	6.848	0.000	64.60	34.24	64.60	34.24	V-C	1.4726E+04	-3.400	0.000	1.000	1.000
34.24	0.000	0.000	Stratol_2_8_L_0									
19 D	7.250	0.000	68.40	36.25	68.40	36.25	V-C	1.4726E+04	-3.600	0.000	1.000	1.000
36.25	0.000	0.000	Stratol_2_8_L_0									
20 D	7.653	0.000	72.20	38.27	72.20	38.27	V-C	1.4726E+04	-3.800	0.000	1.000	1.000
38.27	0.000	0.000	Stratol_2_8_L_0									
21 D	8.056	0.000	76.00	40.28	76.00	40.28	V-C	1.4726E+04	-4.000	0.000	1.000	1.000
40.28	0.000	0.000	Stratol_2_8_L_0									
22 D	8.459	0.000	79.80	42.29	79.80	42.29	V-C	1.4726E+04	-4.200	0.000	1.000	1.000
42.29	0.000	0.000	Stratol_2_8_L_0									
23 D	8.862	0.000	83.60	44.31	83.60	44.31	V-C	1.4726E+04	-4.400	0.000	1.000	1.000
44.31	0.000	0.000	Stratol_2_8_L_0									
24 D	9.264	0.000	87.40	46.32	87.40	46.32	V-C	1.4726E+04	-4.600	0.000	1.000	1.000
46.32	0.000	0.000	Stratol_2_8_L_0									
25 D	9.667	0.000	91.20	48.34	91.20	48.34	V-C	1.4726E+04	-4.800	0.000	1.000	1.000
48.34	0.000	0.000	Stratol_2_8_L_0									
26 D	10.07	0.000	95.00	50.35	95.00	50.35	V-C	1.4726E+04	-5.000	0.000	1.000	1.000
50.35	0.000	0.000	Stratol_2_8_L_0									
27 D	10.47	0.000	98.80	52.36	98.80	52.36	V-C	1.4726E+04	-5.200	0.000	1.000	1.000
52.36	0.000	0.000	Stratol_2_8_L_0									
28 D	10.88	0.000	102.6	54.38	102.6	54.38	V-C	1.4726E+04	-5.400	0.000	1.000	1.000
54.38	0.000	0.000	Stratol_2_8_L_0									
29 D	11.28	0.000	106.4	56.39	106.4	56.39	V-C	1.4726E+04	-5.600	0.000	1.000	1.000
56.39	0.000	0.000	Stratol_2_8_L_0									
30 D	11.68	0.000	110.2	58.41	110.2	58.41	V-C	1.4726E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1016 di 1221
58.41	0.000	0.000	Strato1_2_8_L_0		
31 D	12.08	0.000	114.0 60.42 114.0	60.42	V-C 1.4726E+04 -6.000 0.000 1.000 1.000
60.42	0.000	0.000	Strato1_2_8_L_0		
32 D	11.79	0.000	117.9 58.95 117.9	58.95	V-C 3.2535E+04 -6.200 0.000 1.000 1.000
58.95	0.000	0.000	Strato2_3095_82743_L_0		
33 D	12.19	0.000	121.9 60.95 121.9	60.95	V-C 3.2535E+04 -6.400 0.000 1.000 1.000
60.95	0.000	0.000	Strato2_3095_82743_L_0		
34 D	12.59	0.000	125.9 62.95 125.9	62.95	V-C 3.2535E+04 -6.600 0.000 1.000 1.000
62.95	0.000	0.000	Strato2_3095_82743_L_0		
35 D	12.99	0.000	129.9 64.95 129.9	64.95	V-C 3.2535E+04 -6.800 0.000 1.000 1.000
64.95	0.000	0.000	Strato2_3095_82743_L_0		
36 D	13.39	0.000	133.9 66.95 133.9	66.95	V-C 3.2535E+04 -7.000 0.000 1.000 1.000
66.95	0.000	0.000	Strato2_3095_82743_L_0		
37 D	13.79	0.000	137.9 68.95 137.9	68.95	V-C 3.2535E+04 -7.200 0.000 1.000 1.000
68.95	0.000	0.000	Strato2_3095_82743_L_0		
38 D	14.19	0.000	141.9 70.95 141.9	70.95	V-C 3.2535E+04 -7.400 0.000 1.000 1.000
70.95	0.000	0.000	Strato2_3095_82743_L_0		
39 D	14.59	0.000	145.9 72.95 145.9	72.95	V-C 3.2535E+04 -7.600 0.000 1.000 1.000
72.95	0.000	0.000	Strato2_3095_82743_L_0		
40 D	14.99	0.000	149.9 74.95 149.9	74.95	V-C 3.2535E+04 -7.800 0.000 1.000 1.000
74.95	0.000	0.000	Strato2_3095_82743_L_0		
41 D	15.39	0.000	153.9 76.95 153.9	76.95	V-C 3.2535E+04 -8.000 0.000 1.000 1.000
76.95	0.000	0.000	Strato2_3095_82743_L_0		
42 D	15.79	0.000	157.9 78.95 157.9	78.95	V-C 3.2535E+04 -8.200 0.000 1.000 1.000
78.95	0.000	0.000	Strato2_3095_82743_L_0		
43 D	16.19	0.000	161.9 80.95 161.9	80.95	V-C 3.2535E+04 -8.400 0.000 1.000 1.000
80.95	0.000	0.000	Strato2_3095_82743_L_0		
44 D	16.59	0.000	165.9 82.95 165.9	82.95	V-C 3.2535E+04 -8.600 0.000 1.000 1.000
82.95	0.000	0.000	Strato2_3095_82743_L_0		
45 D	16.99	0.000	169.9 84.95 169.9	84.95	V-C 3.2535E+04 -8.800 0.000 1.000 1.000
84.95	0.000	0.000	Strato2_3095_82743_L_0		
46 D	17.39	0.000	173.9 86.95 173.9	86.95	V-C 3.2535E+04 -9.000 0.000 1.000 1.000
86.95	0.000	0.000	Strato2_3095_82743_L_0		
47 D	17.79	0.000	177.9 88.95 177.9	88.95	V-C 3.2535E+04 -9.200 0.000 1.000 1.000
88.95	0.000	0.000	Strato2_3095_82743_L_0		
48 D	18.19	0.000	181.9 90.95 181.9	90.95	V-C 3.2535E+04 -9.400 0.000 1.000 1.000
90.95	0.000	0.000	Strato2_3095_82743_L_0		
49 D	18.59	0.000	185.9 92.95 185.9	92.95	V-C 3.2535E+04 -9.600 0.000 1.000 1.000
92.95	0.000	0.000	Strato2_3095_82743_L_0		
50 D	18.99	0.000	189.9 94.95 189.9	94.95	V-C 3.2535E+04 -9.800 0.000 1.000 1.000
94.95	0.000	0.000	Strato2_3095_82743_L_0		
51 D	19.39	0.000	193.9 96.95 193.9	96.95	V-C 3.2535E+04 -10.000 0.000 1.000 1.000
96.95	0.000	0.000	Strato2_3095_82743_L_0		
52 D	19.79	0.000	197.9 98.95 197.9	98.95	V-C 3.2535E+04 -10.200 0.000 1.000 1.000
98.95	0.000	0.000	Strato2_3095_82743_L_0		
53 D	20.19	0.000	201.9 100.9 201.9	100.9	V-C 3.2535E+04 -10.400 0.000 1.000 1.000
100.9	0.000	0.000	Strato2_3095_82743_L_0		
54 D	20.59	0.000	205.9 102.9 205.9	102.9	V-C 3.2535E+04 -10.600 0.000 1.000 1.000
102.9	0.000	0.000	Strato2_3095_82743_L_0		
55 D	20.99	0.000	209.9 104.9 209.9	104.9	V-C 3.2535E+04 -10.800 0.000 1.000 1.000
104.9	0.000	0.000	Strato2_3095_82743_L_0		
56 D	21.39	0.000	213.9 106.9 213.9	106.9	V-C 3.2535E+04 -11.000 0.000 1.000 1.000
106.9	0.000	0.000	Strato2_3095_82743_L_0		
57 D	21.79	0.000	217.9 108.9 217.9	108.9	V-C 3.2535E+04 -11.200 0.000 1.000 1.000
108.9	0.000	0.000	Strato2_3095_82743_L_0		
58 D	22.19	0.000	221.9 110.9 221.9	110.9	V-C 3.2535E+04 -11.400 0.000 1.000 1.000
110.9	0.000	0.000	Strato2_3095_82743_L_0		
59 D	22.59	0.000	225.9 112.9 225.9	112.9	V-C 3.2535E+04 -11.600 0.000 1.000 1.000
112.9	0.000	0.000	Strato2_3095_82743_L_0		
60 D	22.99	0.000	229.9 114.9 229.9	114.9	V-C 3.2535E+04 -11.800 0.000 1.000 1.000
114.9	0.000	0.000	Strato2_3095_82743_L_0		
61 D	11.70	0.000	233.9 116.9 233.9	116.9	V-C 3.2535E+04 -12.000 0.000 1.000 1.000
117.0	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
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12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1017 di
1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  18:02:26  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

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WallElement_33      :
ELEMENT TYPE      2 NO.OF ELEMENTS. IN THIS GROUP    60
CURRENT TIME IS    1.0000

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000
31	0.0000	0.0000	0.0000	0.0000
32	0.0000	0.0000	0.0000	0.0000
33	0.0000	0.0000	0.0000	0.0000
34	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000
36	0.0000	0.0000	0.0000	0.0000
37	0.0000	0.0000	0.0000	0.0000
38	0.0000	0.0000	0.0000	0.0000
39	0.0000	0.0000	0.0000	0.0000
40	0.0000	0.0000	0.0000	0.0000
41	0.0000	0.0000	0.0000	0.0000
42	0.0000	0.0000	0.0000	0.0000
43	0.0000	0.0000	0.0000	0.0000
44	0.0000	0.0000	0.0000	0.0000
45	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000
47	0.0000	0.0000	0.0000	0.0000
48	0.0000	0.0000	0.0000	0.0000
49	0.0000	0.0000	0.0000	0.0000
50	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	0.0000	0.0000
52	0.0000	0.0000	0.0000	0.0000
53	0.0000	0.0000	0.0000	0.0000
54	0.0000	0.0000	0.0000	0.0000
55	0.0000	0.0000	0.0000	0.0000
56	0.0000	0.0000	0.0000	0.0000
57	0.0000	0.0000	0.0000	0.0000
58	0.0000	0.0000	0.0000	0.0000
59	0.0000	0.0000	0.0000	0.0000
60	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1018 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  18:02:26  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 CURRENT TIME IS 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER      0  RNORM = 0.000      RMNORM= 0.000
             RINORM=0.2756E+05 RIMNOR= 0.000
             RENORM= 835.9      REMNOR= 0.000      RATIO =0.1742      TOLER =0.1000E-03  NOT CONVERGED
             RFMAX = 26.69      RMMAX = 0.000
             RTSMAL=0.1000E-03 RMSMAL= 0.000
             RDT  =0.2756E+05 RDR  = 0.000
             RATIOT=0.1742      RATIOR= 0.000
             MAX UN= 3.950      IEQ=   15 NODE      8 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=0.2756E+05 RIMNOR= 0.000
             RENORM= 10.29      REMNOR=0.8421E-21 RATIO =0.1932E-01 TOLER =0.1000E-03  NOT CONVERGED
             RFMAX = 26.69      RMMAX = 0.000
             RTSMAL=0.1000E-03 RMSMAL= 0.000
             RDT  =0.2756E+05 RDR  = 0.000
             RATIOT=0.1932E-01 RATIOR= 0.000
             MAX UN= 1.762      IEQ=    5 NODE      3 DOF   1  Y-DISPL.F
             MIN UN=-.1154E-09 IEQ=   41 NODE     21 DOF   1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0
    
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ITER      3  RNORM = 0.000      RMNORM= 0.000
             RINORM=0.2756E+05 RIMNOR= 0.000
             RENORM= 1.583      REMNOR=0.9595E-22 RATIO =0.7580E-02 TOLER =0.1000E-03  NOT CONVERGED
             RFMAX = 26.69      RMMAX = 0.000
             RTSMAL=0.1000E-03 RMSMAL= 0.000
             RDT  =0.2756E+05 RDR  = 0.000
             RATIOT=0.7580E-02 RATIOR= 0.000
             MAX UN=0.9489      IEQ=   19 NODE     10 DOF   1  Y-DISPL.F
             MIN UN=-.8417E-10 IEQ=   27 NODE     14 DOF   1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0
    
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ITER      4  RNORM = 0.000      RMNORM= 0.000
             RINORM=0.2756E+05 RIMNOR= 0.000
             RENORM=0.3356E-03 REMNOR=0.2621E-21 RATIO =0.1104E-03 TOLER =0.1000E-03  NOT CONVERGED
             RFMAX = 26.69      RMMAX = 0.000
             RTSMAL=0.1000E-03 RMSMAL= 0.000
             RDT  =0.2756E+05 RDR  = 0.000
             RATIOT=0.1104E-03 RATIOR= 0.000
             MAX UN=0.1688E-01 IEQ=   53 NODE     27 DOF   1  Y-DISPL.F
             MIN UN=-.9340E-10 IEQ=    3 NODE      2 DOF   1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0
    
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ITER      5  RNORM = 0.000      RMNORM= 0.000
             RINORM=0.2756E+05 RIMNOR= 0.000
             RENORM=0.2229E-08 REMNOR=0.1150E-21 RATIO =0.2844E-06 TOLER =0.1000E-03  CONVERGED !
             RFMAX = 26.69      RMMAX = 0.000
             RTSMAL=0.1000E-03 RMSMAL= 0.000
             RDT  =0.2756E+05 RDR  = 0.000
             RATIOT=0.2844E-06 RATIOR= 0.000
             MAX UN=0.2740E-04 IEQ=  111 NODE     56 DOF   1  Y-DISPL.F
             MIN UN=-.6282E-10 IEQ=   17 NODE      9 DOF   1  Y-DISPL.F
             NO. OF CONTACT CONSTRAINT VIOLATIONS      0
    
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1019 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019      18:02:26                             |
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New Project

SOLUTION REACHED USING 5 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	4.5578115E-04	-6.3372809E-05	
2	4.4310916E-04	-6.3334314E-05	
3	4.3045350E-04	-6.3204737E-05	
4	4.1783444E-04	-6.2967516E-05	
5	4.0527458E-04	-6.2609024E-05	
6	3.9279980E-04	-6.2115974E-05	
7	3.8043767E-04	-6.1480653E-05	
8	3.6821727E-04	-6.0699377E-05	
9	3.5616749E-04	-5.9774542E-05	
10	3.4431644E-04	-5.8714844E-05	
11	3.3268948E-04	-5.7536262E-05	
12	3.2130843E-04	-5.6260275E-05	
13	3.1019002E-04	-5.4914606E-05	
14	2.9934499E-04	-5.3532872E-05	
15	2.8877676E-04	-5.2152811E-05	
16	2.7848137E-04	-5.0810213E-05	
17	2.6844825E-04	-4.9533915E-05	
18	2.5866194E-04	-4.8345542E-05	
19	2.4910324E-04	-4.7259008E-05	
20	2.3975115E-04	-4.6280402E-05	
21	2.3058397E-04	-4.5408513E-05	
22	2.2158120E-04	-4.4634734E-05	
23	2.1272457E-04	-4.3943486E-05	
24	2.0399981E-04	-4.3312130E-05	
25	1.9539764E-04	-4.2712020E-05	
26	1.8691524E-04	-4.2108396E-05	
27	1.7855731E-04	-4.1459937E-05	
28	1.7033749E-04	-4.0718701E-05	
29	1.6227963E-04	-3.9830408E-05	
30	1.5441917E-04	-3.8734408E-05	
31	1.4680418E-04	-3.7363802E-05	
32	1.3949684E-04	-3.5645957E-05	
33	1.3256794E-04	-3.3596546E-05	
34	1.2607372E-04	-3.1314665E-05	
35	1.2005189E-04	-2.8885462E-05	
36	1.1452455E-04	-2.6381076E-05	
37	1.0950048E-04	-2.3861793E-05	
38	1.0497756E-04	-2.1376997E-05	
39	1.0094473E-04	-1.8966393E-05	
40	9.7383962E-05	-1.6661345E-05	
41	9.4271553E-05	-1.4485955E-05	
42	9.1579782E-05	-1.2457537E-05	
43	8.9277974E-05	-1.0587582E-05	
44	8.7333755E-05	-8.8825341E-06	
45	8.5713826E-05	-7.3446203E-06	
46	8.4384865E-05	-5.9724651E-06	
47	8.3314050E-05	-4.7621591E-06	
48	8.2469609E-05	-3.7077278E-06	
49	8.1821090E-05	-2.8013206E-06	
50	8.1339838E-05	-2.0335955E-06	
51	8.0999105E-05	-1.3941122E-06	
52	8.0774389E-05	-8.7161116E-07	
53	8.0643444E-05	-4.5436166E-07	
54	8.0586447E-05	-1.3018099E-07	
55	8.0585964E-05	1.1288634E-07	
56	8.0626978E-05	2.8659997E-07	
57	8.0696764E-05	4.0272256E-07	
58	8.0785012E-05	4.7301491E-07	
59	8.0883694E-05	5.0915428E-07	
60	8.0987169E-05	5.2273483E-07	
61	8.1092053E-05	5.2522154E-07	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1020 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      18:02:26        |
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New Project

STRESS RESULTS FOR GROUP NO. 1

O_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	1.622	-4.5578E-04	53.34	16.22	53.34	28.27	ACTIVE	0.000	0.000	0.000	1.000	1.000
16.22	0.000	0.000	Stratol_2_8_L_0									
2 D	2.301	-4.4311E-04	37.85	11.51	37.85	20.06	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
11.51	0.000	0.000	Stratol_2_8_L_0									
3 D	2.178	-4.3045E-04	35.82	10.89	35.82	18.98	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
10.89	0.000	0.000	Stratol_2_8_L_0									
4 D	2.909	-4.1783E-04	47.84	14.54	47.84	25.36	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
14.54	0.000	0.000	Stratol_2_8_L_0									
5 D	2.895	-4.0527E-04	47.61	14.47	47.61	25.23	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
14.47	0.000	0.000	Stratol_2_8_L_0									
6 D	3.406	-3.9280E-04	56.02	17.03	56.02	29.69	ACTIVE	0.000	-1.000	0.000	1.000	1.000
17.03	0.000	0.000	Stratol_2_8_L_0									
7 D	3.458	-3.8044E-04	56.87	17.29	56.87	30.14	ACTIVE	0.000	-1.200	0.000	1.000	1.000
17.29	0.000	0.000	Stratol_2_8_L_0									
8 D	3.883	-3.6822E-04	63.86	19.41	63.86	33.85	ACTIVE	0.000	-1.400	0.000	1.000	1.000
19.41	0.000	0.000	Stratol_2_8_L_0									
9 D	3.926	-3.5617E-04	64.58	19.63	64.58	34.23	ACTIVE	0.000	-1.600	0.000	1.000	1.000
19.63	0.000	0.000	Stratol_2_8_L_0									
10 D	4.311	-3.4432E-04	70.91	21.56	70.91	37.58	ACTIVE	0.000	-1.800	0.000	1.000	1.000
21.56	0.000	0.000	Stratol_2_8_L_0									
11 D	4.431	-3.3269E-04	72.88	22.16	72.88	38.63	ACTIVE	0.000	-2.000	0.000	1.000	1.000
22.16	0.000	0.000	Stratol_2_8_L_0									
12 D	4.786	-3.2131E-04	78.72	23.93	78.72	41.72	ACTIVE	0.000	-2.200	0.000	1.000	1.000
23.93	0.000	0.000	Stratol_2_8_L_0									
13 D	4.922	-3.1019E-04	80.96	24.61	80.96	42.91	ACTIVE	0.000	-2.400	0.000	1.000	1.000
24.61	0.000	0.000	Stratol_2_8_L_0									
14 D	5.353	-2.9934E-04	86.46	26.77	86.46	45.82	UL-RL	6.3662E+04	-2.600	0.000	1.000	1.000
26.77	0.000	0.000	Stratol_2_8_L_0									
15 D	5.747	-2.8878E-04	88.90	28.73	88.90	47.12	UL-RL	6.3662E+04	-2.800	0.000	1.000	1.000
28.73	0.000	0.000	Stratol_2_8_L_0									
16 D	6.391	-2.7848E-04	93.74	31.95	93.74	49.68	UL-RL	6.3662E+04	-3.000	0.000	1.000	1.000
31.95	0.000	0.000	Stratol_2_8_L_0									
17 D	6.796	-2.6845E-04	96.36	33.98	96.36	51.07	UL-RL	6.3662E+04	-3.200	0.000	1.000	1.000
33.98	0.000	0.000	Stratol_2_8_L_0									
18 D	7.462	-2.5866E-04	101.5	37.31	101.5	53.78	UL-RL	6.3662E+04	-3.400	0.000	1.000	1.000
37.31	0.000	0.000	Stratol_2_8_L_0									
19 D	7.875	-2.4910E-04	104.2	39.37	104.2	55.23	UL-RL	6.3662E+04	-3.600	0.000	1.000	1.000
39.37	0.000	0.000	Stratol_2_8_L_0									
20 D	8.520	-2.3975E-04	109.2	42.60	109.2	57.86	UL-RL	6.3662E+04	-3.800	0.000	1.000	1.000
42.60	0.000	0.000	Stratol_2_8_L_0									
21 D	8.937	-2.3058E-04	112.0	44.69	112.0	59.37	UL-RL	6.3662E+04	-4.000	0.000	1.000	1.000
44.69	0.000	0.000	Stratol_2_8_L_0									
22 D	9.566	-2.2158E-04	116.9	47.83	116.9	61.93	UL-RL	6.3662E+04	-4.200	0.000	1.000	1.000
47.83	0.000	0.000	Stratol_2_8_L_0									
23 D	9.988	-2.1272E-04	119.8	49.94	119.8	63.48	UL-RL	6.3662E+04	-4.400	0.000	1.000	1.000
49.94	0.000	0.000	Stratol_2_8_L_0									
24 D	10.57	-2.0400E-04	124.2	52.86	124.2	65.85	UL-RL	6.3662E+04	-4.600	0.000	1.000	1.000
52.86	0.000	0.000	Stratol_2_8_L_0									
25 D	11.00	-1.9540E-04	127.2	55.00	127.2	67.44	UL-RL	6.3662E+04	-4.800	0.000	1.000	1.000
55.00	0.000	0.000	Stratol_2_8_L_0									
26 D	11.60	-1.8692E-04	131.9	58.02	131.9	69.92	UL-RL	6.3662E+04	-5.000	0.000	1.000	1.000
58.02	0.000	0.000	Stratol_2_8_L_0									
27 D	12.03	-1.7856E-04	135.0	60.17	135.0	71.54	UL-RL	6.3662E+04	-5.200	0.000	1.000	1.000
60.17	0.000	0.000	Stratol_2_8_L_0									
28 D	12.63	-1.7034E-04	139.6	63.14	139.6	73.98	UL-RL	6.3662E+04	-5.400	0.000	1.000	1.000
63.14	0.000	0.000	Stratol_2_8_L_0									
29 D	13.06	-1.6228E-04	142.7	65.30	142.7	75.63	UL-RL	6.3662E+04	-5.600	0.000	1.000	1.000
65.30	0.000	0.000	Stratol_2_8_L_0									
30 D	13.64	-1.5442E-04	147.3	68.21	147.3	78.04	UL-RL	6.3662E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1021 di 1221
68.21	0.000	0.000	Strato1_2_8_L_0		
31 D	14.05	-1.4680E-04	150.2 70.25	150.2	79.60
70.25	0.000	0.000	Strato1_2_8_L_0		
32 D	10.45	-1.3950E-04	154.8 52.27	154.8	77.40
52.27	0.000	0.000	Strato2_3095_82743_L_0		
33 D	11.04	-1.3257E-04	158.2 55.22	158.2	79.09
55.22	0.000	0.000	Strato2_3095_82743_L_0		
34 D	11.74	-1.2607E-04	162.9 58.72	162.9	81.43
58.72	0.000	0.000	Strato2_3095_82743_L_0		
35 D	12.30	-1.2005E-04	166.3 61.52	166.3	83.14
61.52	0.000	0.000	Strato2_3095_82743_L_0		
36 D	12.97	-1.1452E-04	170.9 64.83	170.9	85.45
64.83	0.000	0.000	Strato2_3095_82743_L_0		
37 D	13.49	-1.0950E-04	174.4 67.46	174.4	87.18
67.46	0.000	0.000	Strato2_3095_82743_L_0		
38 D	14.11	-1.0498E-04	178.9 70.57	178.9	89.47
70.57	0.000	0.000	Strato2_3095_82743_L_0		
39 D	14.59	-1.0094E-04	182.3 72.95	182.3	91.13
72.95	0.000	0.000	Strato2_3095_82743_L_0		
40 D	15.17	-9.7384E-05	186.8 75.87	186.8	93.41
75.87	0.000	0.000	Strato2_3095_82743_L_0		
41 D	15.64	-9.4272E-05	190.3 78.19	190.3	95.17
78.19	0.000	0.000	Strato2_3095_82743_L_0		
42 D	16.19	-9.1580E-05	194.9 80.94	194.9	97.43
80.94	0.000	0.000	Strato2_3095_82743_L_0		
43 D	16.62	-8.9278E-05	198.4 83.12	198.4	99.20
83.12	0.000	0.000	Strato2_3095_82743_L_0		
44 D	17.15	-8.7334E-05	202.9 85.73	202.9	101.5
85.73	0.000	0.000	Strato2_3095_82743_L_0		
45 D	17.56	-8.5714E-05	206.5 87.79	206.5	103.2
87.79	0.000	0.000	Strato2_3095_82743_L_0		
46 D	18.04	-8.4385E-05	210.8 90.20	210.8	105.4
90.20	0.000	0.000	Strato2_3095_82743_L_0		
47 D	18.44	-8.3314E-05	214.4 92.18	214.4	107.2
92.18	0.000	0.000	Strato2_3095_82743_L_0		
48 D	18.91	-8.2470E-05	218.8 94.57	218.8	109.4
94.57	0.000	0.000	Strato2_3095_82743_L_0		
49 D	19.30	-8.1821E-05	222.4 96.48	222.4	111.2
96.48	0.000	0.000	Strato2_3095_82743_L_0		
50 D	19.76	-8.1340E-05	226.9 98.79	226.9	113.4
98.79	0.000	0.000	Strato2_3095_82743_L_0		
51 D	20.13	-8.0999E-05	230.5 100.7	230.5	115.2
100.7	0.000	0.000	Strato2_3095_82743_L_0		
52 D	20.58	-8.0774E-05	234.9 102.9	234.9	117.5
102.9	0.000	0.000	Strato2_3095_82743_L_0		
53 D	20.95	-8.0643E-05	238.5 104.7	238.5	119.3
104.7	0.000	0.000	Strato2_3095_82743_L_0		
54 D	21.38	-8.0586E-05	242.8 106.9	242.8	121.4
106.9	0.000	0.000	Strato2_3095_82743_L_0		
55 D	21.74	-8.0586E-05	246.5 108.7	246.5	123.2
108.7	0.000	0.000	Strato2_3095_82743_L_0		
56 D	22.18	-8.0627E-05	250.9 110.9	250.9	125.4
110.9	0.000	0.000	Strato2_3095_82743_L_0		
57 D	22.54	-8.0697E-05	254.5 112.7	254.5	127.3
112.7	0.000	0.000	Strato2_3095_82743_L_0		
58 D	22.98	-8.0785E-05	258.9 114.9	258.9	129.4
114.9	0.000	0.000	Strato2_3095_82743_L_0		
59 D	23.34	-8.0884E-05	262.5 116.7	262.5	131.3
116.7	0.000	0.000	Strato2_3095_82743_L_0		
60 D	23.77	-8.0987E-05	266.9 118.9	266.9	133.5
118.9	0.000	0.000	Strato2_3095_82743_L_0		
61 D	12.06	-8.1092E-05	270.5 120.6	270.5	135.2
120.6	0.000	0.000	Strato2_3095_82743_L_0		



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1022 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                     |
|          NewProject.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          18:02:26          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.000	4.5578E-04	0.000	0.000	0.000	0.000	PASSIVE	0.000	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Stratol_2_8_L_0									
2 D	1.708	4.4311E-04	3.800	8.539	3.800	8.539	V-C	1.4726E+04	-0.2000	0.000	1.000	1.000
8.539	0.000	0.000	Stratol_2_8_L_0									
3 D	2.073	4.3045E-04	7.600	10.37	7.600	10.37	V-C	1.4726E+04	-0.4000	0.000	1.000	1.000
10.37	0.000	0.000	Stratol_2_8_L_0									
4 D	2.439	4.1783E-04	11.40	12.20	11.40	12.20	V-C	1.4726E+04	-0.6000	0.000	1.000	1.000
12.20	0.000	0.000	Stratol_2_8_L_0									
5 D	2.805	4.0527E-04	15.20	14.02	15.20	14.02	V-C	1.4726E+04	-0.8000	0.000	1.000	1.000
14.02	0.000	0.000	Stratol_2_8_L_0									
6 D	3.171	3.9280E-04	19.00	15.85	19.00	15.85	V-C	1.4726E+04	-1.000	0.000	1.000	1.000
15.85	0.000	0.000	Stratol_2_8_L_0									
7 D	3.537	3.8044E-04	22.80	17.69	22.80	17.69	V-C	1.4726E+04	-1.200	0.000	1.000	1.000
17.69	0.000	0.000	Stratol_2_8_L_0									
8 D	3.904	3.6822E-04	26.60	19.52	26.60	19.52	V-C	1.4726E+04	-1.400	0.000	1.000	1.000
19.52	0.000	0.000	Stratol_2_8_L_0									
9 D	4.271	3.5617E-04	30.40	21.36	30.40	21.36	V-C	1.4726E+04	-1.600	0.000	1.000	1.000
21.36	0.000	0.000	Stratol_2_8_L_0									
10 D	4.639	3.4432E-04	34.20	23.20	34.20	23.20	V-C	1.4726E+04	-1.800	0.000	1.000	1.000
23.20	0.000	0.000	Stratol_2_8_L_0									
11 D	5.008	3.3269E-04	38.00	25.04	38.00	25.04	V-C	1.4726E+04	-2.000	0.000	1.000	1.000
25.04	0.000	0.000	Stratol_2_8_L_0									
12 D	5.377	3.2131E-04	41.80	26.89	41.80	26.89	V-C	1.4726E+04	-2.200	0.000	1.000	1.000
26.89	0.000	0.000	Stratol_2_8_L_0									
13 D	5.747	3.1019E-04	45.60	28.74	45.60	28.74	V-C	1.4726E+04	-2.400	0.000	1.000	1.000
28.74	0.000	0.000	Stratol_2_8_L_0									
14 D	6.118	2.9934E-04	49.40	30.59	49.40	30.59	V-C	1.4726E+04	-2.600	0.000	1.000	1.000
30.59	0.000	0.000	Stratol_2_8_L_0									
15 D	6.490	2.8878E-04	53.20	32.45	53.20	32.45	V-C	1.4726E+04	-2.800	0.000	1.000	1.000
32.45	0.000	0.000	Stratol_2_8_L_0									
16 D	6.862	2.7848E-04	57.00	34.31	57.00	34.31	V-C	1.4726E+04	-3.000	0.000	1.000	1.000
34.31	0.000	0.000	Stratol_2_8_L_0									
17 D	7.235	2.6845E-04	60.80	36.18	60.80	36.18	V-C	1.4726E+04	-3.200	0.000	1.000	1.000
36.18	0.000	0.000	Stratol_2_8_L_0									
18 D	7.609	2.5866E-04	64.60	38.05	64.60	38.05	V-C	1.4726E+04	-3.400	0.000	1.000	1.000
38.05	0.000	0.000	Stratol_2_8_L_0									
19 D	7.984	2.4910E-04	68.40	39.92	68.40	39.92	V-C	1.4726E+04	-3.600	0.000	1.000	1.000
39.92	0.000	0.000	Stratol_2_8_L_0									
20 D	8.359	2.3975E-04	72.20	41.80	72.20	41.80	V-C	1.4726E+04	-3.800	0.000	1.000	1.000
41.80	0.000	0.000	Stratol_2_8_L_0									
21 D	8.735	2.3058E-04	76.00	43.68	76.00	43.68	V-C	1.4726E+04	-4.000	0.000	1.000	1.000
43.68	0.000	0.000	Stratol_2_8_L_0									
22 D	9.111	2.2158E-04	79.80	45.56	79.80	45.56	V-C	1.4726E+04	-4.200	0.000	1.000	1.000
45.56	0.000	0.000	Stratol_2_8_L_0									
23 D	9.488	2.1272E-04	83.60	47.44	83.60	47.44	V-C	1.4726E+04	-4.400	0.000	1.000	1.000
47.44	0.000	0.000	Stratol_2_8_L_0									
24 D	9.865	2.0400E-04	87.40	49.33	87.40	49.33	V-C	1.4726E+04	-4.600	0.000	1.000	1.000
49.33	0.000	0.000	Stratol_2_8_L_0									
25 D	10.24	1.9540E-04	91.20	51.21	91.20	51.21	V-C	1.4726E+04	-4.800	0.000	1.000	1.000
51.21	0.000	0.000	Stratol_2_8_L_0									
26 D	10.62	1.8692E-04	95.00	53.10	95.00	53.10	V-C	1.4726E+04	-5.000	0.000	1.000	1.000
53.10	0.000	0.000	Stratol_2_8_L_0									
27 D	11.00	1.7856E-04	98.80	54.99	98.80	54.99	V-C	1.4726E+04	-5.200	0.000	1.000	1.000
54.99	0.000	0.000	Stratol_2_8_L_0									
28 D	11.38	1.7034E-04	102.6	56.89	102.6	56.89	V-C	1.4726E+04	-5.400	0.000	1.000	1.000
56.89	0.000	0.000	Stratol_2_8_L_0									
29 D	11.76	1.6228E-04	106.4	58.78	106.4	58.78	UL-RL	4.4178E+04	-5.600	0.000	1.000	1.000
58.78	0.000	0.000	Stratol_2_8_L_0									
30 D	12.13	1.5442E-04	110.2	60.64	110.2	60.70	UL-RL	4.4178E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1023 di 1221
60.64	0.000	0.000	Strato1_2_8_L_0		
31 D	12.50	1.4680E-04	114.0 62.52	114.0	62.61
62.52	0.000	0.000	Strato1_2_8_L_0		
32 D	12.66	1.3950E-04	117.9 63.31	117.9	63.58
63.31	0.000	0.000	Strato2_3095_82743_L_0		
33 D	13.01	1.3257E-04	121.9 65.05	121.9	65.37
65.05	0.000	0.000	Strato2_3095_82743_L_0		
34 D	13.36	1.2607E-04	125.9 66.82	125.9	67.17
66.82	0.000	0.000	Strato2_3095_82743_L_0		
35 D	13.72	1.2005E-04	129.9 68.61	129.9	68.98
68.61	0.000	0.000	Strato2_3095_82743_L_0		
36 D	14.09	1.1452E-04	133.9 70.43	133.9	70.80
70.43	0.000	0.000	Strato2_3095_82743_L_0		
37 D	14.45	1.0950E-04	137.9 72.26	137.9	72.64
72.26	0.000	0.000	Strato2_3095_82743_L_0		
38 D	14.82	1.0498E-04	141.9 74.12	141.9	74.49
74.12	0.000	0.000	Strato2_3095_82743_L_0		
39 D	15.20	1.0094E-04	145.9 76.00	145.9	76.35
76.00	0.000	0.000	Strato2_3095_82743_L_0		
40 D	15.58	9.7384E-05	149.9 77.90	149.9	78.23
77.90	0.000	0.000	Strato2_3095_82743_L_0		
41 D	15.96	9.4272E-05	153.9 79.81	153.9	80.12
79.81	0.000	0.000	Strato2_3095_82743_L_0		
42 D	16.35	9.1580E-05	157.9 81.74	157.9	82.02
81.74	0.000	0.000	Strato2_3095_82743_L_0		
43 D	16.74	8.9278E-05	161.9 83.68	161.9	83.94
83.68	0.000	0.000	Strato2_3095_82743_L_0		
44 D	17.13	8.7334E-05	165.9 85.63	165.9	85.87
85.63	0.000	0.000	Strato2_3095_82743_L_0		
45 D	17.52	8.5714E-05	169.9 87.60	169.9	87.81
87.60	0.000	0.000	Strato2_3095_82743_L_0		
46 D	17.91	8.4385E-05	173.9 89.57	173.9	89.76
89.57	0.000	0.000	Strato2_3095_82743_L_0		
47 D	18.31	8.3314E-05	177.9 91.55	177.9	91.71
91.55	0.000	0.000	Strato2_3095_82743_L_0		
48 D	18.71	8.2470E-05	181.9 93.54	181.9	93.68
93.54	0.000	0.000	Strato2_3095_82743_L_0		
49 D	19.11	8.1821E-05	185.9 95.54	185.9	95.65
95.54	0.000	0.000	Strato2_3095_82743_L_0		
50 D	19.51	8.1340E-05	189.9 97.54	189.9	97.63
97.54	0.000	0.000	Strato2_3095_82743_L_0		
51 D	19.91	8.0999E-05	193.9 99.54	193.9	99.61
99.54	0.000	0.000	Strato2_3095_82743_L_0		
52 D	20.31	8.0774E-05	197.9 101.5	197.9	101.6
101.5	0.000	0.000	Strato2_3095_82743_L_0		
53 D	20.71	8.0643E-05	201.9 103.6	201.9	103.6
103.6	0.000	0.000	Strato2_3095_82743_L_0		
54 D	21.11	8.0586E-05	205.9 105.6	205.9	105.6
105.6	0.000	0.000	Strato2_3095_82743_L_0		
55 D	21.51	8.0586E-05	209.9 107.6	209.9	107.6
107.6	0.000	0.000	Strato2_3095_82743_L_0		
56 D	21.91	8.0627E-05	213.9 109.6	213.9	109.6
109.6	0.000	0.000	Strato2_3095_82743_L_0		
57 D	22.32	8.0697E-05	217.9 111.6	217.9	111.6
111.6	0.000	0.000	Strato2_3095_82743_L_0		
58 D	22.72	8.0785E-05	221.9 113.6	221.9	113.6
113.6	0.000	0.000	Strato2_3095_82743_L_0		
59 D	23.12	8.0884E-05	225.9 115.6	225.9	115.6
115.6	0.000	0.000	Strato2_3095_82743_L_0		
60 D	23.52	8.0987E-05	229.9 117.6	229.9	117.6
117.6	0.000	0.000	Strato2_3095_82743_L_0		
61 D	11.96	8.1092E-05	233.9 119.6	233.9	119.6
119.6	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1024 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019      18:02:26                             |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60
 CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.6215	-1.6215	2.04020E-12	0.32431
2	2.2150	-2.2150	-0.32431	0.76731
3	2.3193	-2.3193	-0.76731	1.2312
4	2.7890	-2.7890	-1.2312	1.7890
5	2.8790	-2.8790	-1.7890	2.3647
6	3.1139	-3.1139	-2.3647	2.9875
7	3.0342	-3.0342	-2.9875	3.5944
8	3.0129	-3.0129	-3.5944	4.1969
9	2.6679	-2.6679	-4.1969	4.7305
10	2.3398	-2.3398	-4.7305	5.1985
11	1.7631	-1.7631	-5.1985	5.5511
12	1.1721	-1.1721	-5.5511	5.7855
13	0.34706	-0.34706	-5.7855	5.8549
14	-0.41749	0.41749	-5.8549	5.7714
15	-1.1605	1.1605	-5.7714	5.5393
16	-1.6322	1.6322	-5.5393	5.2129
17	-2.0714	2.0714	-5.2129	4.7986
18	-2.2184	2.2184	-4.7986	4.3549
19	-2.3278	2.3278	-4.3549	3.8894
20	-2.1674	2.1674	-3.8894	3.4559
21	-1.9653	1.9653	-3.4559	3.0628
22	-1.5111	1.5111	-3.0628	2.7606
23	-1.0117	1.0117	-2.7606	2.5583
24	-0.30449	0.30449	-2.5583	2.4974
25	0.45253	-0.45253	-2.4974	2.5879
26	1.4361	-1.4361	-2.5879	2.8751
27	2.4718	-2.4718	-2.8751	3.3695
28	3.7226	-3.7226	-3.3695	4.1140
29	5.0266	-5.0266	-4.1140	5.1193
30	6.5405	-6.5405	-5.1193	6.4274
31	8.0865	-8.0865	-6.4274	8.0447
32	5.8796	-5.8796	-8.0447	9.2206
33	3.9127	-3.9127	-9.2206	10.003
34	2.2928	-2.2928	-10.003	10.462
35	0.87405	-0.87405	-10.462	10.637
36	-0.24604	0.24604	-10.637	10.587
37	-1.2072	1.2072	-10.587	10.346
38	-1.9180	1.9180	-10.346	9.9623
39	-2.5283	2.5283	-9.9623	9.4566
40	-2.9332	2.9332	-9.4566	8.8700
41	-3.2576	3.2576	-8.8700	8.2185
42	-3.4172	3.4172	-8.2185	7.5350
43	-3.5291	3.5291	-7.5350	6.8292
44	-3.5107	3.5107	-6.8292	6.1270
45	-3.4718	3.4718	-6.1270	5.4327
46	-3.3457	3.3457	-5.4327	4.7635
47	-3.2201	3.2201	-4.7635	4.1195
48	-3.0151	3.0151	-4.1195	3.5165
49	-2.8264	2.8264	-3.5165	2.9512
50	-2.5756	2.5756	-2.9512	2.4361
51	-2.3525	2.3525	-2.4361	1.9656
52	-2.0796	2.0796	-1.9656	1.5497
53	-1.8417	1.8417	-1.5497	1.1814
54	-1.5750	1.5750	-1.1814	0.86636
55	-1.3463	1.3463	-0.86636	0.59709
56	-1.0795	1.0795	-0.59709	0.38118
57	-0.85094	0.85094	-0.38118	0.21100
58	-0.58767	0.58767	-0.21100	9.34613E-02
59	-0.36257	0.36257	-9.34613E-02	2.09482E-02
60	-0.10474	0.10474	-2.09482E-02	5.09866E-13

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1025 di
1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  18:02:26  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

CURRENT TIME IS 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2097E+05 RIMNOR= 3543.
            RENORM= 569.5      REMNOR=0.1150E-21 RATIO =0.1648      TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 23.77      RMMAX = 10.64
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
            RDT =0.2097E+05 RDR = 3543.
            RATIOT=0.1648      RATIOR= 0.000
            MAX UN= 6.490      IEQ= 29 NODE      15 DOF  1  Y-DISPL.F
            MIN UN=-.3657E-10 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=0.2097E+05 RIMNOR= 3543.
            RENORM= 237.5      REMNOR=0.2143E-19 RATIO =0.1064      TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 23.77      RMMAX = 10.64
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
            RDT =0.2097E+05 RDR = 3543.
            RATIOT=0.1064      RATIOR= 0.000
            MAX UN= 7.731      IEQ= 27 NODE      14 DOF  1  Y-DISPL.F
            MIN UN=-.1395E-08 IEQ= 15 NODE      8 DOF  1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS  0

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ITER      3  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2097E+05 RIMNOR= 3543.
            RENORM= 33.62      REMNOR=0.1642E-18 RATIO =0.4004E-01 TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 23.77      RMMAX = 10.64
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
            RDT =0.2097E+05 RDR = 3543.
            RATIOT=0.4004E-01 RATIOR= 0.000
            MAX UN= 3.895      IEQ= 49 NODE      25 DOF  1  Y-DISPL.F
            MIN UN=-.3452E-08 IEQ= 9 NODE      5 DOF  1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS  0

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2097E+05 RIMNOR= 3543.
            RENORM= 1.491      REMNOR=0.2568E-19 RATIO =0.8433E-02 TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 23.77      RMMAX = 10.64
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
            RDT =0.2097E+05 RDR = 3543.
            RATIOT=0.8433E-02 RATIOR= 0.000
            MAX UN= 1.211      IEQ= 65 NODE      33 DOF  1  Y-DISPL.F
            MIN UN=-.1291E-08 IEQ= 5 NODE      3 DOF  1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS  0

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ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2097E+05 RIMNOR= 3543.
            RENORM=0.1211E-03 REMNOR=0.2704E-19 RATIO =0.7600E-04 TOLER =0.1000E-03  CONVERGED !
            RFMAX = 23.77      RMMAX = 10.64
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
            RDT =0.2097E+05 RDR = 3543.
            RATIOT=0.7600E-04 RATIOR= 0.000
            MAX UN=0.1101E-01 IEQ= 59 NODE      30 DOF  1  Y-DISPL.F
            MIN UN=-.1228E-08 IEQ= 3 NODE      2 DOF  1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS  0

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1026 di
1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019  18:02:26                               |
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New Project

SOLUTION REACHED USING 5 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	6.8903413E-03	-1.1561880E-03	
2	6.6591063E-03	-1.1561495E-03	
3	6.4278903E-03	-1.1559793E-03	
4	6.1967304E-03	-1.1555713E-03	
5	5.9656857E-03	-1.1548045E-03	
6	5.7348417E-03	-1.1535412E-03	
7	5.5043123E-03	-1.1516319E-03	
8	5.2742429E-03	-1.1489135E-03	
9	5.0448124E-03	-1.1452119E-03	
10	4.8162360E-03	-1.1403417E-03	
11	4.5887667E-03	-1.1341072E-03	
12	4.3626980E-03	-1.1263009E-03	
13	4.1383657E-03	-1.1167041E-03	
14	3.9161510E-03	-1.1050862E-03	
15	3.6964821E-03	-1.0912056E-03	
16	3.4798365E-03	-1.0748092E-03	
17	3.2667413E-03	-1.0556697E-03	
18	3.0577601E-03	-1.0336587E-03	
19	2.8534688E-03	-1.0087822E-03	
20	2.6544288E-03	-9.8118085E-04	
21	2.4611638E-03	-9.5107005E-04	
22	2.2741534E-03	-9.1867082E-04	
23	2.0938335E-03	-8.8420041E-04	
24	1.9205970E-03	-8.4787264E-04	
25	1.7547942E-03	-8.0989882E-04	
26	1.5967333E-03	-7.7048812E-04	
27	1.4466817E-03	-7.2984787E-04	
28	1.3048632E-03	-6.8818312E-04	
29	1.1714631E-03	-6.4569849E-04	
30	1.0466249E-03	-6.0259773E-04	
31	9.3045146E-04	-5.5908482E-04	
32	8.2300656E-04	-5.1534589E-04	
33	7.2430717E-04	-4.7170408E-04	
34	6.3428660E-04	-4.2863708E-04	
35	5.5278301E-04	-3.8661006E-04	
36	4.7954540E-04	-3.4604078E-04	
37	4.1424698E-04	-3.0727198E-04	
38	3.5649913E-04	-2.7057037E-04	
39	3.0586793E-04	-2.3613225E-04	
40	2.6188640E-04	-2.0409149E-04	
41	2.2406620E-04	-1.7452776E-04	
42	1.9190800E-04	-1.4747346E-04	
43	1.6491006E-04	-1.2292062E-04	
44	1.4257580E-04	-1.0082710E-04	
45	1.2442004E-04	-8.1122468E-05	
46	1.0997392E-04	-6.3712637E-05	
47	9.8789477E-05	-4.8485466E-05	
48	9.0442666E-05	-3.5314322E-05	
49	8.4535866E-05	-2.4061411E-05	
50	8.0699963E-05	-1.4580835E-05	
51	7.8595499E-05	-6.7210676E-06	
52	7.7913795E-05	-3.2725246E-07	
53	7.8377193E-05	4.7563008E-06	
54	7.9739411E-05	8.6865343E-06	
55	8.1785217E-05	1.1617931E-05	
56	8.4330157E-05	1.3702920E-05	
57	8.7219940E-05	1.5091229E-05	
58	9.0329977E-05	1.5929470E-05	
59	9.3564599E-05	1.6360779E-05	
60	9.6856460E-05	1.6524657E-05	
61	1.0016585E-04	1.6556839E-05	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1027 di 1221
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|                PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|                NewProject.BaseDesignSection_28.A1M1R1_3484
|                Exe Time :29 July 2019  18:02:26
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New Project

STRESS RESULTS FOR GROUP NO. 1

O_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
 CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	1.622	-6.8903E-03	53.34	16.22	53.34	28.27	ACTIVE	0.000	0.000	0.000	1.000	1.000
16.22	0.000	0.000	Stratol_2_8_L_0									
2 D	2.301	-6.6591E-03	37.85	11.51	37.85	20.06	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
11.51	0.000	0.000	Stratol_2_8_L_0									
3 D	2.178	-6.4279E-03	35.82	10.89	35.82	18.98	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
10.89	0.000	0.000	Stratol_2_8_L_0									
4 D	2.909	-6.1967E-03	47.84	14.54	47.84	25.36	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
14.54	0.000	0.000	Stratol_2_8_L_0									
5 D	2.895	-5.9657E-03	47.61	14.47	47.61	25.23	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
14.47	0.000	0.000	Stratol_2_8_L_0									
6 D	3.406	-5.7348E-03	56.02	17.03	56.02	29.69	ACTIVE	0.000	-1.000	0.000	1.000	1.000
17.03	0.000	0.000	Stratol_2_8_L_0									
7 D	3.458	-5.5043E-03	56.87	17.29	56.87	30.14	ACTIVE	0.000	-1.200	0.000	1.000	1.000
17.29	0.000	0.000	Stratol_2_8_L_0									
8 D	3.883	-5.2742E-03	63.86	19.41	63.86	33.85	ACTIVE	0.000	-1.400	0.000	1.000	1.000
19.41	0.000	0.000	Stratol_2_8_L_0									
9 D	3.926	-5.0448E-03	64.58	19.63	64.58	34.23	ACTIVE	0.000	-1.600	0.000	1.000	1.000
19.63	0.000	0.000	Stratol_2_8_L_0									
10 D	4.311	-4.8162E-03	70.91	21.56	70.91	37.58	ACTIVE	0.000	-1.800	0.000	1.000	1.000
21.56	0.000	0.000	Stratol_2_8_L_0									
11 D	4.431	-4.5888E-03	72.88	22.16	72.88	38.63	ACTIVE	0.000	-2.000	0.000	1.000	1.000
22.16	0.000	0.000	Stratol_2_8_L_0									
12 D	4.786	-4.3627E-03	78.72	23.93	78.72	41.72	ACTIVE	0.000	-2.200	0.000	1.000	1.000
23.93	0.000	0.000	Stratol_2_8_L_0									
13 D	4.922	-4.1384E-03	80.96	24.61	80.96	42.91	ACTIVE	0.000	-2.400	0.000	1.000	1.000
24.61	0.000	0.000	Stratol_2_8_L_0									
14 D	5.257	-3.9162E-03	86.46	26.28	86.46	45.82	ACTIVE	0.000	-2.600	0.000	1.000	1.000
26.28	0.000	0.000	Stratol_2_8_L_0									
15 D	5.405	-3.6965E-03	88.90	27.03	88.90	47.12	ACTIVE	0.000	-2.800	0.000	1.000	1.000
27.03	0.000	0.000	Stratol_2_8_L_0									
16 D	5.699	-3.4798E-03	93.74	28.50	93.74	49.68	ACTIVE	0.000	-3.000	0.000	1.000	1.000
28.50	0.000	0.000	Stratol_2_8_L_0									
17 D	5.859	-3.2667E-03	96.36	29.29	96.36	51.07	ACTIVE	0.000	-3.200	0.000	1.000	1.000
29.29	0.000	0.000	Stratol_2_8_L_0									
18 D	6.169	-3.0578E-03	101.5	30.85	101.5	53.78	ACTIVE	0.000	-3.400	0.000	1.000	1.000
30.85	0.000	0.000	Stratol_2_8_L_0									
19 D	6.336	-2.8535E-03	104.2	31.68	104.2	55.23	ACTIVE	0.000	-3.600	0.000	1.000	1.000
31.68	0.000	0.000	Stratol_2_8_L_0									
20 D	6.638	-2.6544E-03	109.2	33.19	109.2	57.86	ACTIVE	0.000	-3.800	0.000	1.000	1.000
33.19	0.000	0.000	Stratol_2_8_L_0									
21 D	6.810	-2.4612E-03	112.0	34.05	112.0	59.37	ACTIVE	0.000	-4.000	0.000	1.000	1.000
34.05	0.000	0.000	Stratol_2_8_L_0									
22 D	7.105	-2.2742E-03	116.9	35.52	116.9	61.93	ACTIVE	0.000	-4.200	0.000	1.000	1.000
35.52	0.000	0.000	Stratol_2_8_L_0									
23 D	7.282	-2.0938E-03	119.8	36.41	119.8	63.48	ACTIVE	0.000	-4.400	0.000	1.000	1.000
36.41	0.000	0.000	Stratol_2_8_L_0									
24 D	7.554	-1.9206E-03	124.2	37.77	124.2	65.85	ACTIVE	0.000	-4.600	0.000	1.000	1.000
37.77	0.000	0.000	Stratol_2_8_L_0									
25 D	7.736	-1.7548E-03	127.2	38.68	127.2	67.44	ACTIVE	0.000	-4.800	0.000	1.000	1.000
38.68	0.000	0.000	Stratol_2_8_L_0									
26 D	8.021	-1.5967E-03	131.9	40.11	131.9	69.92	ACTIVE	0.000	-5.000	0.000	1.000	1.000
40.11	0.000	0.000	Stratol_2_8_L_0									
27 D	8.207	-1.4467E-03	135.0	41.03	135.0	71.54	ACTIVE	0.000	-5.200	0.000	1.000	1.000
41.03	0.000	0.000	Stratol_2_8_L_0									
28 D	8.487	-1.3049E-03	139.6	42.44	139.6	73.98	ACTIVE	0.000	-5.400	0.000	1.000	1.000
42.44	0.000	0.000	Stratol_2_8_L_0									
29 D	8.676	-1.1715E-03	142.7	43.38	142.7	75.63	ACTIVE	0.000	-5.600	0.000	1.000	1.000
43.38	0.000	0.000	Stratol_2_8_L_0									
30 D	8.953	-1.0466E-03	147.3	44.76	147.3	78.04	ACTIVE	0.000	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1028 di 1221
44.76	0.000	0.000	Strato1_2_8_L_0		
31 D	9.921	-9.3045E-04	150.2 49.61 150.2	79.60	UL-RL 2.6343E+04 -6.000 0.000 1.000 1.000
49.61	0.000	0.000	Strato1_2_8_L_0		
32 D	3.397	-8.2301E-04	154.8 16.99 154.8	77.40	ACTIVE 0.000 -6.200 0.000 1.000 1.000
16.99	0.000	0.000	Strato2_3095_82743_L_0		
33 D	3.557	-7.2431E-04	158.2 17.78 158.2	79.09	ACTIVE 0.000 -6.400 0.000 1.000 1.000
17.78	0.000	0.000	Strato2_3095_82743_L_0		
34 D	4.170	-6.3429E-04	162.9 20.85 162.9	81.43	UL-RL 7.4521E+04 -6.600 0.000 1.000 1.000
20.85	0.000	0.000	Strato2_3095_82743_L_0		
35 D	5.854	-5.5278E-04	166.3 29.27 166.3	83.14	UL-RL 7.4521E+04 -6.800 0.000 1.000 1.000
29.27	0.000	0.000	Strato2_3095_82743_L_0		
36 D	7.525	-4.7955E-04	170.9 37.63 170.9	85.45	UL-RL 7.4521E+04 -7.000 0.000 1.000 1.000
37.63	0.000	0.000	Strato2_3095_82743_L_0		
37 D	8.950	-4.1425E-04	174.4 44.75 174.4	87.18	UL-RL 7.4521E+04 -7.200 0.000 1.000 1.000
44.75	0.000	0.000	Strato2_3095_82743_L_0		
38 D	10.37	-3.5650E-04	178.9 51.83 178.9	89.47	UL-RL 7.4521E+04 -7.400 0.000 1.000 1.000
51.83	0.000	0.000	Strato2_3095_82743_L_0		
39 D	11.54	-3.0587E-04	182.3 57.68 182.3	91.13	UL-RL 7.4521E+04 -7.600 0.000 1.000 1.000
57.68	0.000	0.000	Strato2_3095_82743_L_0		
40 D	12.72	-2.6189E-04	186.8 63.61 186.8	93.41	UL-RL 7.4521E+04 -7.800 0.000 1.000 1.000
63.61	0.000	0.000	Strato2_3095_82743_L_0		
41 D	13.70	-2.2407E-04	190.3 68.52 190.3	95.17	UL-RL 7.4521E+04 -8.000 0.000 1.000 1.000
68.52	0.000	0.000	Strato2_3095_82743_L_0		
42 D	14.69	-1.9191E-04	194.9 73.46 194.9	97.43	UL-RL 7.4521E+04 -8.200 0.000 1.000 1.000
73.46	0.000	0.000	Strato2_3095_82743_L_0		
43 D	15.50	-1.6491E-04	198.4 77.49 198.4	99.20	UL-RL 7.4521E+04 -8.400 0.000 1.000 1.000
77.49	0.000	0.000	Strato2_3095_82743_L_0		
44 D	16.32	-1.4258E-04	202.9 81.61 202.9	101.5	UL-RL 7.4521E+04 -8.600 0.000 1.000 1.000
81.61	0.000	0.000	Strato2_3095_82743_L_0		
45 D	16.98	-1.2442E-04	206.5 84.91 206.5	103.2	UL-RL 7.4521E+04 -8.800 0.000 1.000 1.000
84.91	0.000	0.000	Strato2_3095_82743_L_0		
46 D	17.66	-1.0997E-04	210.8 88.30 210.8	105.4	UL-RL 7.4521E+04 -9.000 0.000 1.000 1.000
88.30	0.000	0.000	Strato2_3095_82743_L_0		
47 D	18.21	-9.8789E-05	214.4 91.03 214.4	107.2	UL-RL 7.4521E+04 -9.200 0.000 1.000 1.000
91.03	0.000	0.000	Strato2_3095_82743_L_0		
48 D	18.79	-9.0443E-05	218.8 93.97 218.8	109.4	UL-RL 7.4521E+04 -9.400 0.000 1.000 1.000
93.97	0.000	0.000	Strato2_3095_82743_L_0		
49 D	19.26	-8.4536E-05	222.4 96.28 222.4	111.2	UL-RL 7.4521E+04 -9.600 0.000 1.000 1.000
96.28	0.000	0.000	Strato2_3095_82743_L_0		
50 D	19.77	-8.0700E-05	226.9 98.84 226.9	113.4	UL-RL 7.4521E+04 -9.800 0.000 1.000 1.000
98.84	0.000	0.000	Strato2_3095_82743_L_0		
51 D	20.17	-7.8595E-05	230.5 100.8 230.5	115.2	UL-RL 7.4521E+04 -10.000 0.000 1.000 1.000
100.8	0.000	0.000	Strato2_3095_82743_L_0		
52 D	20.62	-7.7914E-05	234.9 103.1 234.9	117.5	UL-RL 7.4521E+04 -10.200 0.000 1.000 1.000
103.1	0.000	0.000	Strato2_3095_82743_L_0		
53 D	20.98	-7.8377E-05	238.5 104.9 238.5	119.3	UL-RL 7.4521E+04 -10.400 0.000 1.000 1.000
104.9	0.000	0.000	Strato2_3095_82743_L_0		
54 D	21.39	-7.9739E-05	242.8 107.0 242.8	121.4	UL-RL 7.4521E+04 -10.600 0.000 1.000 1.000
107.0	0.000	0.000	Strato2_3095_82743_L_0		
55 D	21.73	-8.1785E-05	246.5 108.6 246.5	123.2	UL-RL 7.4521E+04 -10.800 0.000 1.000 1.000
108.6	0.000	0.000	Strato2_3095_82743_L_0		
56 D	22.13	-8.4330E-05	250.9 110.6 250.9	125.4	UL-RL 7.4521E+04 -11.000 0.000 1.000 1.000
110.6	0.000	0.000	Strato2_3095_82743_L_0		
57 D	22.45	-8.7220E-05	254.5 112.2 254.5	127.3	UL-RL 7.4521E+04 -11.200 0.000 1.000 1.000
112.2	0.000	0.000	Strato2_3095_82743_L_0		
58 D	22.84	-9.0330E-05	258.9 114.2 258.9	129.4	UL-RL 7.4521E+04 -11.400 0.000 1.000 1.000
114.2	0.000	0.000	Strato2_3095_82743_L_0		
59 D	23.15	-9.3565E-05	262.5 115.8 262.5	131.3	UL-RL 7.4521E+04 -11.600 0.000 1.000 1.000
115.8	0.000	0.000	Strato2_3095_82743_L_0		
60 D	23.54	-9.6856E-05	266.9 117.7 266.9	133.5	UL-RL 7.4521E+04 -11.800 0.000 1.000 1.000
117.7	0.000	0.000	Strato2_3095_82743_L_0		
61 D	11.92	-1.0017E-04	270.5 119.2 270.5	135.2	UL-RL 7.4521E+04 -12.000 0.000 1.000 1.000
119.2	0.000	0.000	Strato2_3095_82743_L_0		



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1029 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          18:02:26          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
 CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
0.000	0.000	0.000	not available									
16 D	1.536	3.4798E-03	1.900	7.678	57.00	34.31	PASSIVE	0.000	-3.000	0.000	1.000	1.000
7.678	0.000	0.000	Stratol_2_8_L_0									
17 D	4.607	3.2667E-03	5.700	23.03	60.80	36.18	PASSIVE	0.000	-3.200	0.000	1.000	1.000
23.03	0.000	0.000	Stratol_2_8_L_0									
18 D	7.678	3.0578E-03	9.500	38.39	64.60	38.39	PASSIVE	0.000	-3.400	0.000	1.000	1.000
38.39	0.000	0.000	Stratol_2_8_L_0									
19 D	10.75	2.8535E-03	13.30	53.75	68.40	53.75	PASSIVE	0.000	-3.600	0.000	1.000	1.000
53.75	0.000	0.000	Stratol_2_8_L_0									
20 D	11.30	2.6544E-03	17.10	56.51	72.20	56.51	V-C	6094.	-3.800	0.000	1.000	1.000
56.51	0.000	0.000	Stratol_2_8_L_0									
21 D	11.45	2.4612E-03	20.90	57.27	76.00	57.27	V-C	6094.	-4.000	0.000	1.000	1.000
57.27	0.000	0.000	Stratol_2_8_L_0									
22 D	11.61	2.2742E-03	24.70	58.06	79.80	58.06	V-C	6094.	-4.200	0.000	1.000	1.000
58.06	0.000	0.000	Stratol_2_8_L_0									
23 D	11.78	2.0938E-03	28.50	58.90	83.60	58.90	V-C	6094.	-4.400	0.000	1.000	1.000
58.90	0.000	0.000	Stratol_2_8_L_0									
24 D	11.96	1.9206E-03	32.30	59.79	87.40	59.79	V-C	6094.	-4.600	0.000	1.000	1.000
59.79	0.000	0.000	Stratol_2_8_L_0									
25 D	12.14	1.7548E-03	36.10	60.72	91.20	60.72	V-C	6094.	-4.800	0.000	1.000	1.000
60.72	0.000	0.000	Stratol_2_8_L_0									
26 D	12.34	1.5967E-03	39.90	61.69	95.00	61.69	V-C	6094.	-5.000	0.000	1.000	1.000
61.69	0.000	0.000	Stratol_2_8_L_0									
27 D	12.54	1.4467E-03	43.70	62.72	98.80	62.72	V-C	6094.	-5.200	0.000	1.000	1.000
62.72	0.000	0.000	Stratol_2_8_L_0									
28 D	12.76	1.3049E-03	47.50	63.80	102.6	63.80	V-C	6094.	-5.400	0.000	1.000	1.000
63.80	0.000	0.000	Stratol_2_8_L_0									
29 D	12.99	1.1715E-03	51.30	64.93	106.4	64.93	V-C	6094.	-5.600	0.000	1.000	1.000
64.93	0.000	0.000	Stratol_2_8_L_0									
30 D	13.22	1.0466E-03	55.10	66.12	110.2	66.12	V-C	6094.	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1030 di 1221
66.12	0.000	0.000	Strato1_2_8_L_0		
31 D	13.47	9.3045E-04	58.90 67.36	114.0	67.36
67.36	0.000	0.000	Strato1_2_8_L_0		
32 D	13.48	8.2301E-04	62.80 67.38	117.9	67.38
67.38	0.000	0.000	Strato2_3095_82743_L_0		
33 D	13.59	7.2431E-04	66.80 67.95	121.9	67.95
67.95	0.000	0.000	Strato2_3095_82743_L_0		
34 D	13.73	6.3429E-04	70.80 68.65	125.9	68.65
68.65	0.000	0.000	Strato2_3095_82743_L_0		
35 D	13.89	5.5278E-04	74.80 69.46	129.9	69.46
69.46	0.000	0.000	Strato2_3095_82743_L_0		
36 D	13.92	4.7955E-04	78.80 69.58	133.9	70.80
69.58	0.000	0.000	Strato2_3095_82743_L_0		
37 D	13.81	4.1425E-04	82.80 69.05	137.9	72.64
69.05	0.000	0.000	Strato2_3095_82743_L_0		
38 D	13.76	3.5650E-04	86.80 68.82	141.9	74.49
68.82	0.000	0.000	Strato2_3095_82743_L_0		
39 D	13.78	3.0587E-04	90.80 68.88	145.9	76.35
68.88	0.000	0.000	Strato2_3095_82743_L_0		
40 D	13.84	2.6189E-04	94.80 69.20	149.9	78.23
69.20	0.000	0.000	Strato2_3095_82743_L_0		
41 D	13.95	2.2407E-04	98.80 69.76	153.9	80.12
69.76	0.000	0.000	Strato2_3095_82743_L_0		
42 D	14.11	1.9191E-04	102.8 70.54	157.9	82.02
70.54	0.000	0.000	Strato2_3095_82743_L_0		
43 D	14.31	1.6491E-04	106.8 71.53	161.9	83.94
71.53	0.000	0.000	Strato2_3095_82743_L_0		
44 D	14.54	1.4258E-04	110.8 72.71	165.9	85.87
72.71	0.000	0.000	Strato2_3095_82743_L_0		
45 D	14.81	1.2442E-04	114.8 74.04	169.9	87.81
74.04	0.000	0.000	Strato2_3095_82743_L_0		
46 D	15.10	1.0997E-04	118.8 75.52	173.9	89.76
75.52	0.000	0.000	Strato2_3095_82743_L_0		
47 D	15.43	9.8789E-05	122.8 77.13	177.9	91.71
77.13	0.000	0.000	Strato2_3095_82743_L_0		
48 D	15.77	9.0443E-05	126.8 78.85	181.9	93.68
78.85	0.000	0.000	Strato2_3095_82743_L_0		
49 D	16.13	8.4536E-05	130.8 80.66	185.9	95.65
80.66	0.000	0.000	Strato2_3095_82743_L_0		
50 D	16.51	8.0700E-05	134.8 82.56	189.9	97.63
82.56	0.000	0.000	Strato2_3095_82743_L_0		
51 D	16.90	7.8595E-05	138.8 84.52	193.9	99.61
84.52	0.000	0.000	Strato2_3095_82743_L_0		
52 D	17.31	7.7914E-05	142.8 86.53	197.9	101.6
86.53	0.000	0.000	Strato2_3095_82743_L_0		
53 D	17.72	7.8377E-05	146.8 88.59	201.9	103.6
88.59	0.000	0.000	Strato2_3095_82743_L_0		
54 D	18.14	7.9739E-05	150.8 90.68	205.9	105.6
90.68	0.000	0.000	Strato2_3095_82743_L_0		
55 D	18.56	8.1785E-05	154.8 92.80	209.9	107.6
92.80	0.000	0.000	Strato2_3095_82743_L_0		
56 D	18.98	8.4330E-05	158.8 94.92	213.9	109.6
94.92	0.000	0.000	Strato2_3095_82743_L_0		
57 D	19.41	8.7220E-05	162.8 97.06	217.9	111.6
97.06	0.000	0.000	Strato2_3095_82743_L_0		
58 D	19.84	9.0330E-05	166.8 99.21	221.9	113.6
99.21	0.000	0.000	Strato2_3095_82743_L_0		
59 D	20.27	9.3565E-05	170.8 101.4	225.9	115.6
101.4	0.000	0.000	Strato2_3095_82743_L_0		
60 D	20.70	9.6856E-05	174.8 103.5	229.9	117.6
103.5	0.000	0.000	Strato2_3095_82743_L_0		
61 D	20.57	1.0017E-04	178.8 105.7	233.9	119.6
105.7	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1031 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  18:02:26  |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60
 CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.6215	-1.6215	-4.02087E-11	0.32431
2	3.9229	-3.9229	-0.32431	1.1089
3	6.1005	-6.1005	-1.1089	2.3290
4	9.0092	-9.0092	-2.3290	4.1308
5	11.904	-11.904	-4.1308	6.5116
6	15.310	-15.310	-6.5116	9.5736
7	18.767	-18.767	-9.5736	13.327
8	22.650	-22.650	-13.327	17.857
9	26.577	-26.577	-17.857	23.172
10	30.888	-30.888	-23.172	29.350
11	35.319	-35.319	-29.350	36.414
12	40.105	-40.105	-36.414	44.435
13	45.027	-45.027	-44.435	53.440
14	50.284	-50.284	-53.440	63.497
15	55.689	-55.689	-63.497	74.635
16	59.853	-59.853	-74.635	86.605
17	61.105	-61.105	-86.605	98.826
18	59.596	-59.596	-98.826	110.75
19	55.183	-55.183	-110.75	121.78
20	50.519	-50.519	-121.78	131.89
21	45.876	-45.876	-131.89	141.06
22	41.368	-41.368	-141.06	149.33
23	36.869	-36.869	-149.33	156.71
24	32.466	-32.466	-156.71	163.20
25	28.059	-28.059	-163.20	168.81
26	23.742	-23.742	-168.81	173.56
27	19.404	-19.404	-173.56	177.44
28	15.131	-15.131	-177.44	180.47
29	10.821	-10.821	-180.47	182.63
30	6.5398	-6.5398	-182.63	183.94
31	2.9898	-2.9898	-183.94	184.54
32	-7.0895	7.0895	-184.54	183.12
33	-17.123	17.123	-183.12	179.70
34	-26.683	26.683	-179.70	174.36
35	-34.721	34.721	-174.36	167.42
36	-41.112	41.112	-167.42	159.19
37	-45.972	45.972	-159.19	150.00
38	-49.372	49.372	-150.00	140.13
39	-51.611	51.611	-140.13	129.80
40	-52.728	52.728	-129.80	119.26
41	-52.976	52.976	-119.26	108.66
42	-52.392	52.392	-108.66	98.184
43	-51.201	51.201	-98.184	87.943
44	-49.420	49.420	-87.943	78.059
45	-47.247	47.247	-78.059	68.610
46	-44.692	44.692	-68.610	59.672
47	-41.913	41.913	-59.672	51.289
48	-38.888	38.888	-51.289	43.511
49	-35.765	35.765	-43.511	36.358
50	-32.509	32.509	-36.358	29.856
51	-29.246	29.246	-29.856	24.007
52	-25.928	25.928	-24.007	18.822
53	-22.664	22.664	-18.822	14.289
54	-19.409	19.409	-14.289	10.407
55	-16.244	16.244	-10.407	7.1581
56	-13.102	13.102	-7.1581	4.5377
57	-10.068	10.068	-4.5377	2.5241
58	-7.0729	7.0729	-2.5241	1.1095
59	-4.1920	4.1920	-1.1095	0.27110
60	-1.3554	1.3554	-0.27110	5.86718E-14

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1032 di
1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      18:02:26        |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

CURRENT TIME IS 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1791E+06 RIMNOR=0.1343E+07
            RENORM= 8234.      REMNOR=0.2704E-19 RATIO =0.2144      TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 90.74      RMMAX = 184.5
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1791E+06 RDR =0.1343E+07
            RATIOT=0.2144      RATOR= 0.000
            MAX UN=0.1101E-01 IEQ= 59 NODE      30 DOF 1 Y-DISPL.F
            MIN UN=-90.74      IEQ= 25 NODE      13 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1791E+06 RIMNOR=0.1343E+07
            RENORM= 6.662      REMNOR=0.2516E-19 RATIO =0.6098E-02 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 90.74      RMMAX = 184.5
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1791E+06 RDR =0.1343E+07
            RATIOT=0.6098E-02 RATOR= 0.000
            MAX UN=0.9646E-09 IEQ= 21 NODE      11 DOF 1 Y-DISPL.F
            MIN UN=-1.363      IEQ= 5 NODE      3 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      3  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1791E+06 RIMNOR=0.1343E+07
            RENORM=0.8388E-01 REMNOR=0.3196E-19 RATIO =0.6843E-03 TOLER =0.1000E-03 NOT CONVERGED
            RFMAX = 90.74      RMMAX = 184.5
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1791E+06 RDR =0.1343E+07
            RATIOT=0.6843E-03 RATOR= 0.000
            MAX UN=0.8617E-09 IEQ= 17 NODE      9 DOF 1 Y-DISPL.F
            MIN UN=-.2890      IEQ= 21 NODE      11 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.1791E+06 RIMNOR=0.1343E+07
            RENORM=0.8579E-17 REMNOR=0.3193E-19 RATIO =0.6920E-11 TOLER =0.1000E-03 CONVERGED !
            RFMAX = 90.74      RMMAX = 184.5
            RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
            RDT =0.1791E+06 RDR =0.1343E+07
            RATIOT=0.6920E-11 RATOR= 0.000
            MAX UN=0.1142E-08 IEQ= 17 NODE      9 DOF 1 Y-DISPL.F
            MIN UN=-.1163E-08 IEQ= 11 NODE      6 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1033 di
1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019      18:02:26                             |
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New Project

SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 4 (AT TIME 4.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	5.9509194E-03	-1.0480346E-03	
2	5.7413176E-03	-1.0479575E-03	
3	5.5317547E-03	-1.0476060E-03	
4	5.3223091E-03	-1.0467456E-03	
5	5.1131073E-03	-1.0451218E-03	
6	4.9043298E-03	-1.0424566E-03	
7	4.6962137E-03	-1.0384561E-03	
8	4.4890572E-03	-1.0328083E-03	
9	4.2832220E-03	-1.0251860E-03	
10	4.0791372E-03	-1.0152476E-03	
11	3.8773010E-03	-1.0026381E-03	
12	3.6782847E-03	-9.8698671E-04	
13	3.4827348E-03	-9.6790788E-04	
14	3.2912329E-03	-9.4715851E-04	
15	3.1038660E-03	-9.2649094E-04	
16	2.9206581E-03	-9.0549975E-04	
17	2.7417146E-03	-8.8378001E-04	
18	2.5672176E-03	-8.6098824E-04	
19	2.3974048E-03	-8.3691538E-04	
20	2.2325409E-03	-8.1150142E-04	
21	2.0728916E-03	-7.8477586E-04	
22	1.9187147E-03	-7.5678800E-04	
23	1.7702566E-03	-7.2759754E-04	
24	1.6277512E-03	-6.9727441E-04	
25	1.4914170E-03	-6.6589934E-04	
26	1.3614555E-03	-6.3356363E-04	
27	1.2380494E-03	-6.0036891E-04	
28	1.1213584E-03	-5.6642629E-04	
29	1.0115206E-03	-5.3185723E-04	
30	9.0864853E-04	-4.9679274E-04	
31	8.1282720E-04	-4.6137340E-04	
32	7.2411448E-04	-4.2573089E-04	
33	6.4253388E-04	-3.9010954E-04	
34	5.6804398E-04	-3.5488845E-04	
35	5.0052619E-04	-3.2045202E-04	
36	4.3978732E-04	-2.8715336E-04	
37	3.8556976E-04	-2.5528497E-04	
38	3.3756296E-04	-2.2507630E-04	
39	2.9541724E-04	-1.9669763E-04	
40	2.5875405E-04	-1.7026680E-04	
41	2.2717585E-04	-1.4585606E-04	
42	2.0027479E-04	-1.2349781E-04	
43	1.7764000E-04	-1.0319034E-04	
44	1.5886398E-04	-8.4903013E-05	
45	1.4354784E-04	-6.8581212E-05	
46	1.3130552E-04	-5.4150215E-05	
47	1.2176770E-04	-4.1519934E-05	
48	1.1458433E-04	-3.0587911E-05	
49	1.0942679E-04	-2.1242061E-05	
50	1.0598972E-04	-1.3363231E-05	
51	1.0399199E-04	-6.8272876E-06	
52	1.0317774E-04	-1.5070454E-06	
53	1.0331663E-04	2.7256374E-06	
54	1.0420412E-04	6.0001972E-06	
55	1.0566134E-04	8.4442102E-06	
56	1.0753484E-04	1.0183730E-05	
57	1.0969614E-04	1.1342799E-05	
58	1.1204138E-04	1.2043103E-05	
59	1.1449073E-04	1.2403672E-05	
60	1.1698795E-04	1.2540743E-05	
61	1.1949981E-04	1.2567650E-05	

GENERAL CONTRACTOR

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Doc. N.

Progetto
INORLotto
12Codifica Documento
E E2 CL GA 2701 002Rev.
AFoglio
1034 di
1221

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 | PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
 | |
 | NewProject.BaseDesignSection_28.A1M1R1_3484 |
 | Exe Time :29 July 2019 18:02:26 |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
 CURRENT TIME IS 4.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1 D	3.250	-5.9509E-03	53.34	32.50	53.34	32.50	V-C	8781.	0.000	0.000	1.000	1.000
32.50	0.000	0.000	Stratol_2_8_L_0									
2 D	5.054	-5.7413E-03	37.85	25.27	37.85	25.27	V-C	8781.	-0.2000	0.000	1.000	1.000
25.27	0.000	0.000	Stratol_2_8_L_0									
3 D	4.831	-5.5318E-03	35.82	24.15	35.82	24.15	V-C	8781.	-0.4000	0.000	1.000	1.000
24.15	0.000	0.000	Stratol_2_8_L_0									
4 D	5.886	-5.3223E-03	47.84	29.43	47.84	29.43	V-C	8781.	-0.6000	0.000	1.000	1.000
29.43	0.000	0.000	Stratol_2_8_L_0									
5 D	5.827	-5.1131E-03	47.61	29.13	47.61	29.13	V-C	8781.	-0.8000	0.000	1.000	1.000
29.13	0.000	0.000	Stratol_2_8_L_0									
6 D	6.552	-4.9043E-03	56.02	32.76	56.02	32.76	V-C	8781.	-1.000	0.000	1.000	1.000
32.76	0.000	0.000	Stratol_2_8_L_0									
7 D	6.590	-4.6962E-03	56.87	32.95	56.87	32.95	V-C	8781.	-1.200	0.000	1.000	1.000
32.95	0.000	0.000	Stratol_2_8_L_0									
8 D	7.186	-4.4891E-03	63.86	35.93	63.86	35.93	V-C	8781.	-1.400	0.000	1.000	1.000
35.93	0.000	0.000	Stratol_2_8_L_0									
9 D	7.210	-4.2832E-03	64.58	36.05	64.58	36.05	V-C	8781.	-1.600	0.000	1.000	1.000
36.05	0.000	0.000	Stratol_2_8_L_0									
10 D	7.742	-4.0791E-03	70.91	38.71	70.91	38.71	V-C	8781.	-1.800	0.000	1.000	1.000
38.71	0.000	0.000	Stratol_2_8_L_0									
11 D	7.877	-3.8773E-03	72.88	39.38	72.88	39.38	V-C	8781.	-2.000	0.000	1.000	1.000
39.38	0.000	0.000	Stratol_2_8_L_0									
12 D	8.360	-3.6783E-03	78.72	41.80	78.72	41.80	V-C	8781.	-2.200	0.000	1.000	1.000
41.80	0.000	0.000	Stratol_2_8_L_0									
13 D	8.376	-3.4827E-03	80.96	41.88	80.96	42.91	UL-RL	2.6343E+04	-2.400	0.000	1.000	1.000
41.88	0.000	0.000	Stratol_2_8_L_0									
14 D	8.549	-3.2912E-03	86.46	42.75	86.46	45.82	UL-RL	2.6343E+04	-2.600	0.000	1.000	1.000
42.75	0.000	0.000	Stratol_2_8_L_0									
15 D	8.527	-3.1039E-03	88.90	42.64	88.90	47.12	UL-RL	2.6343E+04	-2.800	0.000	1.000	1.000
42.64	0.000	0.000	Stratol_2_8_L_0									
16 D	8.645	-2.9207E-03	93.74	43.23	93.74	49.68	UL-RL	2.6343E+04	-3.000	0.000	1.000	1.000
43.23	0.000	0.000	Stratol_2_8_L_0									
17 D	8.625	-2.7417E-03	96.36	43.12	96.36	51.07	UL-RL	2.6343E+04	-3.200	0.000	1.000	1.000
43.12	0.000	0.000	Stratol_2_8_L_0									
18 D	8.754	-2.5672E-03	101.5	43.77	101.5	53.78	UL-RL	2.6343E+04	-3.400	0.000	1.000	1.000
43.77	0.000	0.000	Stratol_2_8_L_0									
19 D	8.739	-2.3974E-03	104.2	43.69	104.2	55.23	UL-RL	2.6343E+04	-3.600	0.000	1.000	1.000
43.69	0.000	0.000	Stratol_2_8_L_0									
20 D	8.861	-2.2325E-03	109.2	44.30	109.2	57.86	UL-RL	2.6343E+04	-3.800	0.000	1.000	1.000
44.30	0.000	0.000	Stratol_2_8_L_0									
21 D	8.856	-2.0729E-03	112.0	44.28	112.0	59.37	UL-RL	2.6343E+04	-4.000	0.000	1.000	1.000
44.28	0.000	0.000	Stratol_2_8_L_0									
22 D	8.978	-1.9187E-03	116.9	44.89	116.9	61.93	UL-RL	2.6343E+04	-4.200	0.000	1.000	1.000
44.89	0.000	0.000	Stratol_2_8_L_0									
23 D	8.987	-1.7703E-03	119.8	44.94	119.8	63.48	UL-RL	2.6343E+04	-4.400	0.000	1.000	1.000
44.94	0.000	0.000	Stratol_2_8_L_0									
24 D	9.097	-1.6278E-03	124.2	45.48	124.2	65.85	UL-RL	2.6343E+04	-4.600	0.000	1.000	1.000
45.48	0.000	0.000	Stratol_2_8_L_0									
25 D	9.124	-1.4914E-03	127.2	45.62	127.2	67.44	UL-RL	2.6343E+04	-4.800	0.000	1.000	1.000
45.62	0.000	0.000	Stratol_2_8_L_0									
26 D	9.261	-1.3615E-03	131.9	46.30	131.9	69.92	UL-RL	2.6343E+04	-5.000	0.000	1.000	1.000
46.30	0.000	0.000	Stratol_2_8_L_0									
27 D	9.306	-1.2380E-03	135.0	46.53	135.0	71.54	UL-RL	2.6343E+04	-5.200	0.000	1.000	1.000
46.53	0.000	0.000	Stratol_2_8_L_0									
28 D	9.454	-1.1214E-03	139.6	47.27	139.6	73.98	UL-RL	2.6343E+04	-5.400	0.000	1.000	1.000
47.27	0.000	0.000	Stratol_2_8_L_0									
29 D	9.519	-1.0115E-03	142.7	47.59	142.7	75.63	UL-RL	2.6343E+04	-5.600	0.000	1.000	1.000
47.59	0.000	0.000	Stratol_2_8_L_0									
30 D	9.680	-9.0865E-04	147.3	48.40	147.3	78.04	UL-RL	2.6343E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1035 di 1221
48.40	0.000	0.000	Strato1_2_8_L_0				
31 D	10.54	-8.1283E-04	150.2	52.71	150.2	79.60	UL-RL 2.6343E+04 -6.000 0.000 1.000 1.000
52.71	0.000	0.000	Strato1_2_8_L_0				
32 D	4.871	-7.2411E-04	154.8	24.36	154.8	77.40	UL-RL 7.4521E+04 -6.200 0.000 1.000 1.000
24.36	0.000	0.000	Strato2_3095_82743_L_0				
33 D	4.775	-6.4253E-04	158.2	23.88	158.2	79.09	UL-RL 7.4521E+04 -6.400 0.000 1.000 1.000
23.88	0.000	0.000	Strato2_3095_82743_L_0				
34 D	5.157	-5.6804E-04	162.9	25.79	162.9	81.43	UL-RL 7.4521E+04 -6.600 0.000 1.000 1.000
25.79	0.000	0.000	Strato2_3095_82743_L_0				
35 D	6.633	-5.0053E-04	166.3	33.16	166.3	83.14	UL-RL 7.4521E+04 -6.800 0.000 1.000 1.000
33.16	0.000	0.000	Strato2_3095_82743_L_0				
36 D	8.118	-4.3979E-04	170.9	40.59	170.9	85.45	UL-RL 7.4521E+04 -7.000 0.000 1.000 1.000
40.59	0.000	0.000	Strato2_3095_82743_L_0				
37 D	9.377	-3.8557E-04	174.4	46.89	174.4	87.18	UL-RL 7.4521E+04 -7.200 0.000 1.000 1.000
46.89	0.000	0.000	Strato2_3095_82743_L_0				
38 D	10.65	-3.3756E-04	178.9	53.24	178.9	89.47	UL-RL 7.4521E+04 -7.400 0.000 1.000 1.000
53.24	0.000	0.000	Strato2_3095_82743_L_0				
39 D	11.69	-2.9542E-04	182.3	58.46	182.3	91.13	UL-RL 7.4521E+04 -7.600 0.000 1.000 1.000
58.46	0.000	0.000	Strato2_3095_82743_L_0				
40 D	12.77	-2.5875E-04	186.8	63.85	186.8	93.41	UL-RL 7.4521E+04 -7.800 0.000 1.000 1.000
63.85	0.000	0.000	Strato2_3095_82743_L_0				
41 D	13.66	-2.2718E-04	190.3	68.28	190.3	95.17	UL-RL 7.4521E+04 -8.000 0.000 1.000 1.000
68.28	0.000	0.000	Strato2_3095_82743_L_0				
42 D	14.57	-2.0027E-04	194.9	72.84	194.9	97.43	UL-RL 7.4521E+04 -8.200 0.000 1.000 1.000
72.84	0.000	0.000	Strato2_3095_82743_L_0				
43 D	15.31	-1.7764E-04	198.4	76.54	198.4	99.20	UL-RL 7.4521E+04 -8.400 0.000 1.000 1.000
76.54	0.000	0.000	Strato2_3095_82743_L_0				
44 D	16.08	-1.5886E-04	202.9	80.40	202.9	101.5	UL-RL 7.4521E+04 -8.600 0.000 1.000 1.000
80.40	0.000	0.000	Strato2_3095_82743_L_0				
45 D	16.70	-1.4355E-04	206.5	83.48	206.5	103.2	UL-RL 7.4521E+04 -8.800 0.000 1.000 1.000
83.48	0.000	0.000	Strato2_3095_82743_L_0				
46 D	17.34	-1.3131E-04	210.8	86.71	210.8	105.4	UL-RL 7.4521E+04 -9.000 0.000 1.000 1.000
86.71	0.000	0.000	Strato2_3095_82743_L_0				
47 D	17.86	-1.2177E-04	214.4	89.32	214.4	107.2	UL-RL 7.4521E+04 -9.200 0.000 1.000 1.000
89.32	0.000	0.000	Strato2_3095_82743_L_0				
48 D	18.44	-1.1458E-04	218.8	92.18	218.8	109.4	UL-RL 7.4521E+04 -9.400 0.000 1.000 1.000
92.18	0.000	0.000	Strato2_3095_82743_L_0				
49 D	18.88	-1.0943E-04	222.4	94.42	222.4	111.2	UL-RL 7.4521E+04 -9.600 0.000 1.000 1.000
94.42	0.000	0.000	Strato2_3095_82743_L_0				
50 D	19.39	-1.0599E-04	226.9	96.95	226.9	113.4	UL-RL 7.4521E+04 -9.800 0.000 1.000 1.000
96.95	0.000	0.000	Strato2_3095_82743_L_0				
51 D	19.79	-1.0399E-04	230.5	98.94	230.5	115.2	UL-RL 7.4521E+04 -10.00 0.000 1.000 1.000
98.94	0.000	0.000	Strato2_3095_82743_L_0				
52 D	20.25	-1.0318E-04	234.9	101.2	234.9	117.5	UL-RL 7.4521E+04 -10.20 0.000 1.000 1.000
101.2	0.000	0.000	Strato2_3095_82743_L_0				
53 D	20.61	-1.0332E-04	238.5	103.1	238.5	119.3	UL-RL 7.4521E+04 -10.40 0.000 1.000 1.000
103.1	0.000	0.000	Strato2_3095_82743_L_0				
54 D	21.03	-1.0420E-04	242.8	105.1	242.8	121.4	UL-RL 7.4521E+04 -10.60 0.000 1.000 1.000
105.1	0.000	0.000	Strato2_3095_82743_L_0				
55 D	21.37	-1.0566E-04	246.5	106.8	246.5	123.2	UL-RL 7.4521E+04 -10.80 0.000 1.000 1.000
106.8	0.000	0.000	Strato2_3095_82743_L_0				
56 D	21.78	-1.0753E-04	250.9	108.9	250.9	125.4	UL-RL 7.4521E+04 -11.00 0.000 1.000 1.000
108.9	0.000	0.000	Strato2_3095_82743_L_0				
57 D	22.11	-1.0970E-04	254.5	110.6	254.5	127.3	UL-RL 7.4521E+04 -11.20 0.000 1.000 1.000
110.6	0.000	0.000	Strato2_3095_82743_L_0				
58 D	22.51	-1.1204E-04	258.9	112.6	258.9	129.4	UL-RL 7.4521E+04 -11.40 0.000 1.000 1.000
112.6	0.000	0.000	Strato2_3095_82743_L_0				
59 D	22.84	-1.1449E-04	262.5	114.2	262.5	131.3	UL-RL 7.4521E+04 -11.60 0.000 1.000 1.000
114.2	0.000	0.000	Strato2_3095_82743_L_0				
60 D	23.24	-1.1699E-04	266.9	116.2	266.9	133.5	UL-RL 7.4521E+04 -11.80 0.000 1.000 1.000
116.2	0.000	0.000	Strato2_3095_82743_L_0				
61 D	11.78	-1.1950E-04	270.5	117.8	270.5	135.2	UL-RL 7.4521E+04 -12.00 0.000 1.000 1.000
117.8	0.000	0.000	Strato2_3095_82743_L_0				



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1036 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1M1R1_3484                                                                                      |
|          Exe Time :29 July 2019          18:02:26                                                                                          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
 CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
0.000	0.000	0.000	not available									
16 D	0.1155	2.9207E-03	1.900	0.5776	57.00	34.31	ACTIVE	0.000	-3.000	0.000	1.000	1.000
0.5776	0.000	0.000	Stratol_2_8_L_0									
17 D	2.687	2.7417E-03	5.700	13.44	60.80	36.18	UL-RL	1.8281E+04	-3.200	0.000	1.000	1.000
13.44	0.000	0.000	Stratol_2_8_L_0									
18 D	5.884	2.5672E-03	9.500	29.42	64.60	38.39	UL-RL	1.8281E+04	-3.400	0.000	1.000	1.000
29.42	0.000	0.000	Stratol_2_8_L_0									
19 D	9.082	2.3974E-03	13.30	45.41	68.40	53.75	UL-RL	1.8281E+04	-3.600	0.000	1.000	1.000
45.41	0.000	0.000	Stratol_2_8_L_0									
20 D	9.760	2.2325E-03	17.10	48.80	72.20	56.51	UL-RL	1.8281E+04	-3.800	0.000	1.000	1.000
48.80	0.000	0.000	Stratol_2_8_L_0									
21 D	10.03	2.0729E-03	20.90	50.17	76.00	57.27	UL-RL	1.8281E+04	-4.000	0.000	1.000	1.000
50.17	0.000	0.000	Stratol_2_8_L_0									
22 D	10.31	1.9187E-03	24.70	51.57	79.80	58.06	UL-RL	1.8281E+04	-4.200	0.000	1.000	1.000
51.57	0.000	0.000	Stratol_2_8_L_0									
23 D	10.60	1.7703E-03	28.50	52.99	83.60	58.90	UL-RL	1.8281E+04	-4.400	0.000	1.000	1.000
52.99	0.000	0.000	Stratol_2_8_L_0									
24 D	10.89	1.6278E-03	32.30	54.43	87.40	59.79	UL-RL	1.8281E+04	-4.600	0.000	1.000	1.000
54.43	0.000	0.000	Stratol_2_8_L_0									
25 D	11.18	1.4914E-03	36.10	55.90	91.20	60.72	UL-RL	1.8281E+04	-4.800	0.000	1.000	1.000
55.90	0.000	0.000	Stratol_2_8_L_0									
26 D	11.48	1.3615E-03	39.90	57.39	95.00	61.69	UL-RL	1.8281E+04	-5.000	0.000	1.000	1.000
57.39	0.000	0.000	Stratol_2_8_L_0									
27 D	11.78	1.2380E-03	43.70	58.91	98.80	62.72	UL-RL	1.8281E+04	-5.200	0.000	1.000	1.000
58.91	0.000	0.000	Stratol_2_8_L_0									
28 D	12.09	1.1214E-03	47.50	60.45	102.6	63.80	UL-RL	1.8281E+04	-5.400	0.000	1.000	1.000
60.45	0.000	0.000	Stratol_2_8_L_0									
29 D	12.40	1.0115E-03	51.30	62.01	106.4	64.93	UL-RL	1.8281E+04	-5.600	0.000	1.000	1.000
62.01	0.000	0.000	Stratol_2_8_L_0									
30 D	12.72	9.0865E-04	55.10	63.59	110.2	66.12	UL-RL	1.8281E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1037 di 1221
63.59	0.000	0.000	Strato1_2_8_L_0		
31 D	13.04	8.1283E-04	58.90 65.21	114.0	67.36
65.21	0.000	0.000	Strato1_2_8_L_0		
32 D	12.68	7.2411E-04	62.80 63.39	117.9	67.38
63.39	0.000	0.000	Strato2_3095_82743_L_0		
33 D	12.93	6.4253E-04	66.80 64.65	121.9	67.95
64.65	0.000	0.000	Strato2_3095_82743_L_0		
34 D	13.19	5.6804E-04	70.80 65.97	125.9	68.65
65.97	0.000	0.000	Strato2_3095_82743_L_0		
35 D	13.47	5.0053E-04	74.80 67.35	129.9	69.46
67.35	0.000	0.000	Strato2_3095_82743_L_0		
36 D	13.59	4.3979E-04	78.80 67.97	133.9	70.80
67.97	0.000	0.000	Strato2_3095_82743_L_0		
37 D	13.58	3.8557E-04	82.80 67.89	137.9	72.64
67.89	0.000	0.000	Strato2_3095_82743_L_0		
38 D	13.61	3.3756E-04	86.80 68.06	141.9	74.49
68.06	0.000	0.000	Strato2_3095_82743_L_0		
39 D	13.69	2.9542E-04	90.80 68.46	145.9	76.35
68.46	0.000	0.000	Strato2_3095_82743_L_0		
40 D	13.81	2.5875E-04	94.80 69.07	149.9	78.23
69.07	0.000	0.000	Strato2_3095_82743_L_0		
41 D	13.98	2.2718E-04	98.80 69.88	153.9	80.12
69.88	0.000	0.000	Strato2_3095_82743_L_0		
42 D	14.18	2.0027E-04	102.8 70.88	157.9	82.02
70.88	0.000	0.000	Strato2_3095_82743_L_0		
43 D	14.41	1.7764E-04	106.8 72.05	161.9	83.94
72.05	0.000	0.000	Strato2_3095_82743_L_0		
44 D	14.67	1.5886E-04	110.8 73.36	165.9	85.87
73.36	0.000	0.000	Strato2_3095_82743_L_0		
45 D	14.96	1.4355E-04	114.8 74.81	169.9	87.81
74.81	0.000	0.000	Strato2_3095_82743_L_0		
46 D	15.28	1.3131E-04	118.8 76.38	173.9	89.76
76.38	0.000	0.000	Strato2_3095_82743_L_0		
47 D	15.61	1.2177E-04	122.8 78.06	177.9	91.71
78.06	0.000	0.000	Strato2_3095_82743_L_0		
48 D	15.97	1.1458E-04	126.8 79.83	181.9	93.68
79.83	0.000	0.000	Strato2_3095_82743_L_0		
49 D	16.33	1.0943E-04	130.8 81.67	185.9	95.65
81.67	0.000	0.000	Strato2_3095_82743_L_0		
50 D	16.72	1.0599E-04	134.8 83.58	189.9	97.63
83.58	0.000	0.000	Strato2_3095_82743_L_0		
51 D	17.11	1.0399E-04	138.8 85.54	193.9	99.61
85.54	0.000	0.000	Strato2_3095_82743_L_0		
52 D	17.51	1.0318E-04	142.8 87.55	197.9	101.6
87.55	0.000	0.000	Strato2_3095_82743_L_0		
53 D	17.92	1.0332E-04	146.8 89.60	201.9	103.6
89.60	0.000	0.000	Strato2_3095_82743_L_0		
54 D	18.33	1.0420E-04	150.8 91.67	205.9	105.6
91.67	0.000	0.000	Strato2_3095_82743_L_0		
55 D	18.75	1.0566E-04	154.8 93.76	209.9	107.6
93.76	0.000	0.000	Strato2_3095_82743_L_0		
56 D	19.17	1.0753E-04	158.8 95.86	213.9	109.6
95.86	0.000	0.000	Strato2_3095_82743_L_0		
57 D	19.59	1.0970E-04	162.8 97.97	217.9	111.6
97.97	0.000	0.000	Strato2_3095_82743_L_0		
58 D	20.02	1.1204E-04	166.8 100.1	221.9	113.6
100.1	0.000	0.000	Strato2_3095_82743_L_0		
59 D	20.44	1.1449E-04	170.8 102.2	225.9	115.6
102.2	0.000	0.000	Strato2_3095_82743_L_0		
60 D	20.86	1.1699E-04	174.8 104.3	229.9	117.6
104.3	0.000	0.000	Strato2_3095_82743_L_0		
61 D	10.64	1.1950E-04	178.8 106.4	233.9	119.6
106.4	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1038 di
1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019      18:02:26                             |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60
 CURRENT TIME IS 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	3.2501	-3.2501	-3.83240E-11	0.65002
2	8.3038	-8.3038	-0.65002	2.3108
3	13.135	-13.135	-2.3108	4.9377
4	19.021	-19.021	-4.9377	8.7418
5	24.847	-24.847	-8.7418	13.711
6	31.400	-31.400	-13.711	19.991
7	37.990	-37.990	-19.991	27.589
8	45.176	-45.176	-27.589	36.624
9	52.386	-52.386	-36.624	47.102
10	60.128	-60.128	-47.102	59.127
11	68.005	-68.005	-59.127	72.728
12	76.365	-76.365	-72.728	88.001
13	-5.9974	5.9974	-88.001	86.802
14	2.5519	-2.5519	-86.802	87.312
15	11.079	-11.079	-87.312	89.528
16	19.609	-19.609	-89.528	93.450
17	25.547	-25.547	-93.450	98.559
18	28.416	-28.416	-98.559	104.24
19	28.074	-28.074	-104.24	109.86
20	27.175	-27.175	-109.86	115.29
21	25.996	-25.996	-115.29	120.49
22	24.661	-24.661	-120.49	125.42
23	23.050	-23.050	-125.42	130.03
24	21.260	-21.260	-130.03	134.29
25	19.204	-19.204	-134.29	138.13
26	16.986	-16.986	-138.13	141.52
27	14.511	-14.511	-141.52	144.43
28	11.876	-11.876	-144.43	146.80
29	8.9931	-8.9931	-146.80	148.60
30	5.9541	-5.9541	-148.60	149.79
31	3.4538	-3.4538	-149.79	150.48
32	-4.3527	4.3527	-150.48	149.61
33	-12.507	12.507	-149.61	147.11
34	-20.544	20.544	-147.11	143.00
35	-27.381	27.381	-143.00	137.52
36	-32.859	32.859	-137.52	130.95
37	-37.060	37.060	-130.95	123.54
38	-40.024	40.024	-123.54	115.54
39	-42.024	42.024	-115.54	107.13
40	-43.068	43.068	-107.13	98.517
41	-43.388	43.388	-98.517	89.840
42	-42.996	42.996	-89.840	81.241
43	-42.098	42.098	-81.241	72.821
44	-40.692	40.692	-72.821	64.683
45	-38.958	38.958	-64.683	56.891
46	-36.893	36.893	-56.891	49.513
47	-34.642	34.642	-49.513	42.584
48	-32.172	32.172	-42.584	36.150
49	-29.621	29.621	-36.150	30.226
50	-26.946	26.946	-30.226	24.836
51	-24.267	24.267	-24.836	19.983
52	-21.530	21.530	-19.983	15.677
53	-18.839	18.839	-15.677	11.909
54	-16.146	16.146	-11.909	8.6802
55	-13.529	13.529	-8.6802	5.9744
56	-10.921	10.921	-5.9744	3.7902
57	-8.4034	8.4034	-3.7902	2.1095
58	-5.9072	5.9072	-2.1095	0.92809
59	-3.5071	3.5071	-0.92809	0.22666
60	-1.1333	1.1333	-0.22666	8.46930E-13

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1039 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  18:02:26  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 CURRENT TIME IS 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	93.940	-6.33291E-04	-6.33291E-04	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1316E+06 RIMNOR=0.9980E+06
 RENORM= 2322. REMNOR=0.3193E-19 RATIO =0.1328 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 150.5
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1316E+06 RDR =0.9980E+06
 RATIOT=0.1328 RATOR= 0.000
 MAX UN= 13.04 IEQ= 61 NODE 31 DOF 1 Y-DISPL.F
 MIN UN=-.1163E-08 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1316E+06 RIMNOR=0.9980E+06
 RENORM= 207.7 REMNOR=0.8084E-19 RATIO =0.3972E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 150.5
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1316E+06 RDR =0.9980E+06
 RATIOT=0.3972E-01 RATOR= 0.000
 MAX UN= 6.729 IEQ= 63 NODE 32 DOF 1 Y-DISPL.F
 MIN UN=-.1018E-08 IEQ= 11 NODE 6 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1316E+06 RIMNOR=0.9980E+06
 RENORM= 6.321 REMNOR=0.5247E-19 RATIO =0.6930E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 150.5
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1316E+06 RDR =0.9980E+06
 RATIOT=0.6930E-02 RATOR= 0.000
 MAX UN= 1.703 IEQ= 77 NODE 39 DOF 1 Y-DISPL.F
 MIN UN=-.1090E-08 IEQ= 31 NODE 16 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1316E+06 RIMNOR=0.9980E+06
 RENORM= 1.239 REMNOR=0.6237E-19 RATIO =0.3068E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 150.5
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1316E+06 RDR =0.9980E+06
 RATIOT=0.3068E-02 RATOR= 0.000
 MAX UN=0.7892 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
 MIN UN=-.1414E-08 IEQ= 19 NODE 10 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.1316E+06 RIMNOR=0.9980E+06
 RENORM=0.2251E-01 REMNOR=0.5273E-19 RATIO =0.4135E-03 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 90.74 RMMAX = 150.5
 RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
 RDT =0.1316E+06 RDR =0.9980E+06
 RATIOT=0.4135E-03 RATOR= 0.000
 MAX UN=0.1449 IEQ= 71 NODE 36 DOF 1 Y-DISPL.F
 MIN UN=-.1264E-08 IEQ= 37 NODE 19 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1040 di 1221
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RINORM=0.1316E+06 RIMNOR=0.9980E+06
RENORM=0.1170E-16 REMNOR=0.2446E-19 RATIO =0.9426E-11 TOLER =0.1000E-03      CONVERGED !
RFMAX = 90.74      RMMAX = 150.5
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.1316E+06 RDR =0.9980E+06
RATIOT=0.9426E-11 RATIO= 0.000
MAX UN=0.1221E-08 IEQ= 17 NODE      9 DOF 1 Y-DISPL.F
MIN UN=-.1402E-08 IEQ= 15 NODE      8 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
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|          NewProject.BaseDesignSection_28.AlMlrl_3484  |
|          Exe Time :29 July 2019      18:02:26  |
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New Project
SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 5 (AT TIME 5.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	7.7470487E-03	-8.7933184E-04	
2	7.5711849E-03	-8.7929334E-04	
3	7.3953401E-03	-8.7912322E-04	
4	7.2195515E-03	-8.7871514E-04	
5	7.0438780E-03	-8.7794835E-04	
6	6.8684052E-03	-8.7668508E-04	
7	6.6932470E-03	-8.7477574E-04	
8	6.5185489E-03	-8.7205741E-04	
9	6.3444896E-03	-8.6835580E-04	
10	6.1712845E-03	-8.6348554E-04	
11	5.9991864E-03	-8.5725106E-04	
12	5.8284888E-03	-8.4944482E-04	
13	5.6595278E-03	-8.3984799E-04	
14	5.4925323E-03	-8.3051123E-04	
15	5.3271700E-03	-8.2347403E-04	
16	5.1630062E-03	-8.1848328E-04	
17	4.9996578E-03	-8.1527533E-04	
18	4.8367955E-03	-8.1357582E-04	
19	4.6741460E-03	-8.1309918E-04	
20	4.5114941E-03	-8.1354853E-04	
21	4.3486854E-03	-8.1461587E-04	
22	4.1856279E-03	-8.1598195E-04	
23	4.0222947E-03	-8.1731641E-04	
24	3.8587262E-03	-8.1827770E-04	
25	3.6950320E-03	-8.1851361E-04	
26	3.5313933E-03	-8.1766113E-04	
27	3.3680658E-03	-8.1534620E-04	
28	3.2053788E-03	-8.1118355E-04	
29	3.0437420E-03	-8.0477687E-04	
30	2.8836449E-03	-7.9571868E-04	
31	2.7256592E-03	-7.8359048E-04	
32	2.5704427E-03	-7.6796304E-04	
33	2.4187074E-03	-7.4884596E-04	
34	2.2711059E-03	-7.2670460E-04	
35	2.1281954E-03	-7.0201670E-04	
36	1.9904371E-03	-6.7526106E-04	
37	1.8581975E-03	-6.4691706E-04	
38	1.7317452E-03	-6.1745955E-04	
39	1.6112570E-03	-5.8735210E-04	
40	1.4968177E-03	-5.5704398E-04	
41	1.3884237E-03	-5.2697151E-04	
42	1.2859855E-03	-4.9755386E-04	
43	1.1893336E-03	-4.6916509E-04	
44	1.0982302E-03	-4.4211451E-04	
45	1.0123823E-03	-4.1665218E-04	
46	9.3145090E-04	-3.9297314E-04	
47	8.5506443E-04	-3.7122314E-04	
48	7.8282638E-04	-3.5150212E-04	
49	7.1432447E-04	-3.3386782E-04	
50	6.4913921E-04	-3.1833903E-04	
51	5.8684998E-04	-3.0489833E-04	
52	5.2704259E-04	-2.9349467E-04	
53	4.6932309E-04	-2.8404683E-04	
54	4.1330391E-04	-2.7644165E-04	
55	3.5863287E-04	-2.7053990E-04	
56	3.0498550E-04	-2.6617501E-04	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1041 di
1221

57	2.5207326E-04	-2.6315414E-04
58	1.9964881E-04	-2.6125873E-04
59	1.4751100E-04	-2.6024490E-04
60	9.5510010E-05	-2.5984369E-04
61	4.3549678E-05	-2.5976116E-04



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1042 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      18:02:26          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
 CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	1.622	-7.7470E-03	53.34	16.22	53.34	32.50	ACTIVE	0.000	0.000	0.000	1.000	1.000
16.22	0.000	0.000	Stratol_2_8_L_0									
2 D	2.301	-7.5712E-03	37.85	11.51	37.85	25.27	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
11.51	0.000	0.000	Stratol_2_8_L_0									
3 D	2.178	-7.3953E-03	35.82	10.89	35.82	24.15	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
10.89	0.000	0.000	Stratol_2_8_L_0									
4 D	2.909	-7.2196E-03	47.84	14.54	47.84	29.43	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
14.54	0.000	0.000	Stratol_2_8_L_0									
5 D	2.895	-7.0439E-03	47.61	14.47	47.61	29.13	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
14.47	0.000	0.000	Stratol_2_8_L_0									
6 D	3.406	-6.8684E-03	56.02	17.03	56.02	32.76	ACTIVE	0.000	-1.000	0.000	1.000	1.000
17.03	0.000	0.000	Stratol_2_8_L_0									
7 D	3.458	-6.6932E-03	56.87	17.29	56.87	32.95	ACTIVE	0.000	-1.200	0.000	1.000	1.000
17.29	0.000	0.000	Stratol_2_8_L_0									
8 D	3.883	-6.5185E-03	63.86	19.41	63.86	35.93	ACTIVE	0.000	-1.400	0.000	1.000	1.000
19.41	0.000	0.000	Stratol_2_8_L_0									
9 D	3.926	-6.3445E-03	64.58	19.63	64.58	36.05	ACTIVE	0.000	-1.600	0.000	1.000	1.000
19.63	0.000	0.000	Stratol_2_8_L_0									
10 D	4.311	-6.1713E-03	70.91	21.56	70.91	38.71	ACTIVE	0.000	-1.800	0.000	1.000	1.000
21.56	0.000	0.000	Stratol_2_8_L_0									
11 D	4.431	-5.9992E-03	72.88	22.16	72.88	39.38	ACTIVE	0.000	-2.000	0.000	1.000	1.000
22.16	0.000	0.000	Stratol_2_8_L_0									
12 D	4.786	-5.8285E-03	78.72	23.93	78.72	41.80	ACTIVE	0.000	-2.200	0.000	1.000	1.000
23.93	0.000	0.000	Stratol_2_8_L_0									
13 D	4.922	-5.6595E-03	80.96	24.61	80.96	42.91	ACTIVE	0.000	-2.400	0.000	1.000	1.000
24.61	0.000	0.000	Stratol_2_8_L_0									
14 D	5.257	-5.4925E-03	86.46	26.28	86.46	45.82	ACTIVE	0.000	-2.600	0.000	1.000	1.000
26.28	0.000	0.000	Stratol_2_8_L_0									
15 D	5.405	-5.3272E-03	88.90	27.03	88.90	47.12	ACTIVE	0.000	-2.800	0.000	1.000	1.000
27.03	0.000	0.000	Stratol_2_8_L_0									
16 D	5.699	-5.1630E-03	93.74	28.50	93.74	49.68	ACTIVE	0.000	-3.000	0.000	1.000	1.000
28.50	0.000	0.000	Stratol_2_8_L_0									
17 D	5.859	-4.9997E-03	96.36	29.29	96.36	51.07	ACTIVE	0.000	-3.200	0.000	1.000	1.000
29.29	0.000	0.000	Stratol_2_8_L_0									
18 D	6.169	-4.8368E-03	101.5	30.85	101.5	53.78	ACTIVE	0.000	-3.400	0.000	1.000	1.000
30.85	0.000	0.000	Stratol_2_8_L_0									
19 D	6.336	-4.6741E-03	104.2	31.68	104.2	55.23	ACTIVE	0.000	-3.600	0.000	1.000	1.000
31.68	0.000	0.000	Stratol_2_8_L_0									
20 D	6.638	-4.5115E-03	109.2	33.19	109.2	57.86	ACTIVE	0.000	-3.800	0.000	1.000	1.000
33.19	0.000	0.000	Stratol_2_8_L_0									
21 D	6.810	-4.3487E-03	112.0	34.05	112.0	59.37	ACTIVE	0.000	-4.000	0.000	1.000	1.000
34.05	0.000	0.000	Stratol_2_8_L_0									
22 D	7.105	-4.1856E-03	116.9	35.52	116.9	61.93	ACTIVE	0.000	-4.200	0.000	1.000	1.000
35.52	0.000	0.000	Stratol_2_8_L_0									
23 D	7.282	-4.0223E-03	119.8	36.41	119.8	63.48	ACTIVE	0.000	-4.400	0.000	1.000	1.000
36.41	0.000	0.000	Stratol_2_8_L_0									
24 D	7.554	-3.8587E-03	124.2	37.77	124.2	65.85	ACTIVE	0.000	-4.600	0.000	1.000	1.000
37.77	0.000	0.000	Stratol_2_8_L_0									
25 D	7.736	-3.6950E-03	127.2	38.68	127.2	67.44	ACTIVE	0.000	-4.800	0.000	1.000	1.000
38.68	0.000	0.000	Stratol_2_8_L_0									
26 D	8.021	-3.5314E-03	131.9	40.11	131.9	69.92	ACTIVE	0.000	-5.000	0.000	1.000	1.000
40.11	0.000	0.000	Stratol_2_8_L_0									
27 D	8.207	-3.3681E-03	135.0	41.03	135.0	71.54	ACTIVE	0.000	-5.200	0.000	1.000	1.000
41.03	0.000	0.000	Stratol_2_8_L_0									
28 D	8.487	-3.2054E-03	139.6	42.44	139.6	73.98	ACTIVE	0.000	-5.400	0.000	1.000	1.000
42.44	0.000	0.000	Stratol_2_8_L_0									
29 D	8.676	-3.0437E-03	142.7	43.38	142.7	75.63	ACTIVE	0.000	-5.600	0.000	1.000	1.000
43.38	0.000	0.000	Stratol_2_8_L_0									
30 D	8.953	-2.8836E-03	147.3	44.76	147.3	78.04	ACTIVE	0.000	-5.800	0.000	1.000	1.000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1044 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A1M1R1_3484                                                                                       |
|          Exe Time :29 July 2019          18:02:26                                                                                           |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
 CURRENT TIME IS 5.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.2000	0.000	1.000	1.000
2	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-0.6000	0.000	1.000	1.000
3	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.000	0.000	1.000	1.000
4	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.400	0.000	1.000	1.000
5	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-1.800	0.000	1.000	1.000
6	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.200	0.000	1.000	1.000
7	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-2.600	0.000	1.000	1.000
8	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.000	0.000	1.000	1.000
9	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.400	0.000	1.000	1.000
10	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-3.800	0.000	1.000	1.000
11	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
12	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
13	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
14	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.400	0.000	1.000	1.000
15	0.000	--	--	--	--	--	REMOVED	--	-5.600	0.000	1.000	1.000
0.000	0.000	0.000	not available	--	--	--	REMOVED	--	-5.800	0.000	1.000	1.000
16	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
17	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
18	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
19	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
20	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
21	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
22	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
23	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
24	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
25	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
26	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
27	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
28	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
29	0.000	--	--	--	--	--	REMOVED	--				
0.000	0.000	0.000	not available	--	--	--	REMOVED	--				
30	0.000	--	--	--	--	--	REMOVED	--				

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1045 di 1221
0.000	0.000	0.000	not available		
31	0.000	--	--	REMOVED	--
0.000	0.000	0.000	not available		
32 D	12.94	2.5704E-03	2.000 64.70	117.9	67.38
64.70	0.000	0.000	Strato2_3095_82743_L_0		
33 D	13.61	2.4187E-03	6.000 68.07	121.9	68.07
68.07	0.000	0.000	Strato2_3095_82743_L_0		
34 D	13.84	2.2711E-03	10.00 69.20	125.9	69.20
69.20	0.000	0.000	Strato2_3095_82743_L_0		
35 D	14.04	2.1282E-03	14.00 70.21	129.9	70.21
70.21	0.000	0.000	Strato2_3095_82743_L_0		
36 D	14.24	1.9904E-03	18.00 71.18	133.9	71.18
71.18	0.000	0.000	Strato2_3095_82743_L_0		
37 D	14.25	1.8582E-03	22.00 71.24	137.9	72.64
71.24	0.000	0.000	Strato2_3095_82743_L_0		
38 D	14.12	1.7317E-03	26.00 70.61	141.9	74.49
70.61	0.000	0.000	Strato2_3095_82743_L_0		
39 D	14.02	1.6113E-03	30.00 70.11	145.9	76.35
70.11	0.000	0.000	Strato2_3095_82743_L_0		
40 D	13.95	1.4968E-03	34.00 69.74	149.9	78.23
69.74	0.000	0.000	Strato2_3095_82743_L_0		
41 D	13.90	1.3884E-03	38.00 69.52	153.9	80.12
69.52	0.000	0.000	Strato2_3095_82743_L_0		
42 D	13.89	1.2860E-03	42.00 69.45	157.9	82.02
69.45	0.000	0.000	Strato2_3095_82743_L_0		
43 D	13.91	1.1893E-03	46.00 69.53	161.9	83.94
69.53	0.000	0.000	Strato2_3095_82743_L_0		
44 D	13.95	1.0982E-03	50.00 69.76	165.9	85.87
69.76	0.000	0.000	Strato2_3095_82743_L_0		
45 D	14.03	1.0124E-03	54.00 70.13	169.9	87.81
70.13	0.000	0.000	Strato2_3095_82743_L_0		
46 D	14.12	9.3145E-04	58.00 70.62	173.9	89.76
70.62	0.000	0.000	Strato2_3095_82743_L_0		
47 D	14.25	8.5506E-04	62.00 71.23	177.9	91.71
71.23	0.000	0.000	Strato2_3095_82743_L_0		
48 D	14.39	7.8283E-04	66.00 71.94	181.9	93.68
71.94	0.000	0.000	Strato2_3095_82743_L_0		
49 D	14.55	7.1432E-04	70.00 72.75	185.9	95.65
72.75	0.000	0.000	Strato2_3095_82743_L_0		
50 D	14.73	6.4914E-04	74.00 73.64	189.9	97.63
73.64	0.000	0.000	Strato2_3095_82743_L_0		
51 D	14.92	5.8685E-04	78.00 74.59	193.9	99.61
74.59	0.000	0.000	Strato2_3095_82743_L_0		
52 D	15.12	5.2704E-04	82.00 75.61	197.9	101.6
75.61	0.000	0.000	Strato2_3095_82743_L_0		
53 D	15.33	4.6932E-04	86.00 76.67	201.9	103.6
76.67	0.000	0.000	Strato2_3095_82743_L_0		
54 D	15.55	4.1330E-04	90.00 77.77	205.9	105.6
77.77	0.000	0.000	Strato2_3095_82743_L_0		
55 D	15.78	3.5863E-04	94.00 78.89	209.9	107.6
78.89	0.000	0.000	Strato2_3095_82743_L_0		
56 D	16.00	3.0499E-04	98.00 80.02	213.9	109.6
80.02	0.000	0.000	Strato2_3095_82743_L_0		
57 D	16.23	2.5207E-04	102.0 81.16	217.9	111.6
81.16	0.000	0.000	Strato2_3095_82743_L_0		
58 D	16.46	1.9965E-04	106.0 82.31	221.9	113.6
82.31	0.000	0.000	Strato2_3095_82743_L_0		
59 D	16.69	1.4751E-04	110.0 83.46	225.9	115.6
83.46	0.000	0.000	Strato2_3095_82743_L_0		
60 D	16.92	9.5510E-05	114.0 84.61	229.9	117.6
84.61	0.000	0.000	Strato2_3095_82743_L_0		
61 D	8.575	4.3550E-05	118.0 85.75	233.9	119.6
85.75	0.000	0.000	Strato2_3095_82743_L_0		

GENERAL CONTRACTOR



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12

Codifica Documento
E E2 CL GA 2701 002

Rev.
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Foglio
1046 di
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A1M1R1_3484                       |
|                               Exe Time :29 July 2019      18:02:26                             |
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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_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60
 C U R R E N T T I M E I S 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	1.6215	-1.6215	-2.36566E-11	0.32431
2	3.9229	-3.9229	-0.32431	1.1089
3	6.1005	-6.1005	-1.1089	2.3290
4	9.0092	-9.0092	-2.3290	4.1308
5	11.904	-11.904	-4.1308	6.5116
6	15.310	-15.310	-6.5116	9.5736
7	18.767	-18.767	-9.5736	13.327
8	22.650	-22.650	-13.327	17.857
9	26.577	-26.577	-17.857	23.172
10	30.888	-30.888	-23.172	29.350
11	35.319	-35.319	-29.350	36.414
12	40.105	-40.105	-36.414	44.435
13	-51.060	51.060	-44.435	34.223
14	-45.803	45.803	-34.223	25.062
15	-40.398	40.398	-25.062	16.983
16	-34.699	34.699	-16.983	10.043
17	-28.840	28.840	-10.043	4.2748
18	-22.671	22.671	-4.2748	-0.25932
19	-16.335	16.335	0.25932	-3.5262
20	-9.6968	9.6968	3.5262	-5.4656
21	-2.8866	2.8866	5.4656	-6.0429
22	4.2183	-4.2183	6.0429	-5.1993
23	11.501	-11.501	5.1993	-2.8992
24	19.055	-19.055	2.8992	0.91176
25	26.791	-26.791	-0.91176	6.2699
26	34.812	-34.812	-6.2699	13.232
27	43.019	-43.019	-13.232	21.836
28	51.506	-51.506	-21.836	32.137
29	60.182	-60.182	-32.137	44.174
30	69.135	-69.135	-44.174	58.001
31	78.266	-78.266	-58.001	73.654
32	68.724	-68.724	-73.654	87.398
33	58.666	-58.666	-87.398	99.132
34	48.601	-48.601	-99.132	108.85
35	38.497	-38.497	-108.85	116.55
36	28.415	-28.415	-116.55	122.23
37	18.484	-18.484	-122.23	125.93
38	8.8932	-8.8932	-125.93	127.71
39	-0.44034	0.44034	-127.71	127.62
40	-9.4856	9.4856	-127.62	125.72
41	-18.098	18.098	-125.72	122.10
42	-25.241	25.241	-122.10	117.06
43	-31.128	31.128	-117.06	110.83
44	-35.768	35.768	-110.83	103.68
45	-39.355	39.355	-103.68	95.807
46	-41.901	41.901	-95.807	87.426
47	-43.565	43.565	-87.426	78.713
48	-44.332	44.332	-78.713	69.847
49	-44.355	44.355	-69.847	60.976
50	-43.604	43.604	-60.976	52.255
51	-42.213	42.213	-52.255	43.813
52	-40.140	40.140	-43.813	35.785
53	-37.500	37.500	-35.785	28.285
54	-34.253	34.253	-28.285	21.434
55	-30.484	30.484	-21.434	15.338
56	-26.130	26.130	-15.338	10.112
57	-21.277	21.277	-10.112	5.8563
58	-15.858	15.858	-5.8563	2.6847
59	-9.9475	9.9475	-2.6847	0.69525
60	-3.4761	3.4761	-0.69525	6.74624E-13

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INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1047 di
1221

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019          18:02:26  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

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Tirante1_429          :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
CURRENT TIME IS      5.0000

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POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	99.477	-6.33291E-04	1.46933E-03	0.0000	2633.3	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019          18:02:26  |
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FINAL INCREMENTAL ANALYSIS

SUMMARY

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	2
2	CONVERGENCE :YES	5
3	CONVERGENCE :YES	5
4	CONVERGENCE :YES	4
5	CONVERGENCE :YES	6

END OF PROCESS FOR PROBLEM

New Project

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NONLINEAR SOLUTION CPU TIME .... 0.06 [sec]
DATABASE CREATION CPU TIME..... 0.21 [sec]

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4.7. 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:lunedì 29 luglio 2019 18:02:27

* 1: Defining general settings

UNIT m kN

TITLE New Project

DELTA 0.2

option param itemax 100

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)

WALL LeftWall_32 0 -12 0 1

* 3: Defining surfaces for wall(s)

SOIL 0_L LeftWall_32 -12 0 1 0

SOIL 0_R LeftWall_32 -12 0 2 180

* 4: Defining soil layers

*

* Soil Profile (Strato1_2_8_L_0)

*

LDATA Strato1_2_8_L_0 0 LeftWall_32

ATREST 0.53 1 1

WEIGHT 19 9 10

PERMEABILITY 1E-06

RESISTANCE 0 29

YOUNG 2E+04 6E+04

ENDL

*

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1048 di 1221
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```
* Soil Profile (Strato2_3095_82743_L_0)
*
LDATA Strato2_3095_82743_L_0 -6.1 LeftWall_32
ATREST 0.5 0.5 1
WEIGHT 20 10 10
PERMEABILITY 0.0001
RESISTANCE 20 35
YOUNG 5E+04 1.5E+05
ENDL

* 5: Defining structural materials
* Steel material: 108 Name=Fe360 E=206000200 kPa
MATERIAL Fe360_108 2.06E+08
* Concrete material: 104 Name=C25/30 E=31475800 kPa
MATERIAL C2530_104 3.148E+07
* Rebar material: 124 Name=acciaio armonico E=200100000 kPa
MATERIAL acciaioarmonico_124 2.001E+08
* Concrete material: 103 Name=C20/25 E=29962000 kPa
MATERIAL C2025_103 2.996E+07

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
BEAM WallElement_33 LeftWall_32 -12 0 C2530_104 0.6848 00 00 0

* 6.2: Supports
WIRE Tirantel_429 LeftWall_32 -2.4 acciaioarmonico_124 1.316E-05 93.94 15 0 0

* 6.3: Strips
STRIP LeftWall_32 2 5 0 40 0 13 30
STRIP LeftWall_32 2 5 0 40 0 41.8 45

* 7: Defining Steps
STEP Stage1_31
CHANGE Strato1_2_8_L_0 U-FRICT=23.91 LeftWall_32
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato1_2_8_L_0 U-KA=0.375 LeftWall_32
CHANGE Strato1_2_8_L_0 U-KP=3.038 LeftWall_32
CHANGE Strato1_2_8_L_0 D-KA=0.375 LeftWall_32
CHANGE Strato1_2_8_L_0 D-KP=3.038 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-FRICT=29.26 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-KA=0.3 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-KP=4.102 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-KA=0.3 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-KP=4.102 LeftWall_32
CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 U-COHE=16 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -26 0 -12 0 0
ADD WallElement_33
ENDSTEP

STEP Stage2_755438
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -26 0 -12 0 0
ENDSTEP

STEP Stage3_158
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -2.9
WATER -26 0 -12 0 0
ENDSTEP

STEP Stage4_617
CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
```


GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1050 di 1221
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INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

New Project

```

NO. OF NODAL POINTS (NUMNP) ..... 61
NO. OF COORDINATES (NCOORD) ..... 2
NO. OF NODE DOFS (NDOF) ..... 2
NO. OF EQUATIONS (NEQ) ..... 122
NO. OF CONSTRAINTS CARDS (NVINC) ..... 0
NO. OF ELEMENT GROUPS (NEG) ..... 4
NO. OF SOLUTION STEPS (NSTE) ..... 5
NO. OF ELEMENT SETS ATTACHED TO SLAVE NODES ... 0
NO. OF RECORD FROM WALGEN ..... 89
NO. OF LONG NAMES (LASTNAME) ..... 21
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH ..... 1
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.

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514 |
|          Exe Time :29 July 2019      18:02:27      |
|-----+-----

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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 89

```

1 : UNIT m kN
2 : TITLE New Project
3 : DELTA 0.2
4 : option param itemax 100
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -12 0 1
7 : SOIL 0_L LeftWall_32 -12 0 1 0
8 : SOIL 0_R LeftWall_32 -12 0 2 180
9 : LDATA Stratol_2_8_L_0 0 LeftWall_32
10 : ATREST 0.53 1 1
11 : WEIGHT 19 9 10
12 : PERMEABILITY 1E-06
13 : RESISTANCE 0 29
14 : YOUNG 2E+04 6E+04
15 : ENDL
16 : LDATA Strato2_3095_82743_L_0 -6.1 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 20 10 10
19 : PERMEABILITY 0.0001
20 : RESISTANCE 20 35
21 : YOUNG 5E+04 1.5E+05
22 : ENDL
23 : MATERIAL Fe360_108 2.06E+08
24 : MATERIAL C2530_104 3.148E+07
25 : MATERIAL acciaioarmonico_124 2.001E+08
26 : MATERIAL C2025_103 2.996E+07
27 : BEAM WallElement_33 LeftWall_32 -12 0 C2530_104 0.6848 00 00 0
28 : WIRE Tirante1_429 LeftWall_32 -2.4 acciaioarmonico_124 1.316E-05 93.94 15 0 0
29 : STRIP LeftWall_32 2 5 0 40 0 13 30
30 : STRIP LeftWall_32 2 5 0 40 0 41.8 45
31 : STEP Stage1_31
32 : CHANGE Stratol_2_8_L_0 U-FRICT=23.91 LeftWall_32
33 : CHANGE Stratol_2_8_L_0 D-FRICT=23.91 LeftWall_32

```

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1051 di 1221
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- 34 : CHANGE Strato1_2_8_L_0 U-KA=0.375 LeftWall_32
- 35 : CHANGE Strato1_2_8_L_0 U-KP=3.038 LeftWall_32
- 36 : CHANGE Strato1_2_8_L_0 D-KA=0.375 LeftWall_32
- 37 : CHANGE Strato1_2_8_L_0 D-KP=3.038 LeftWall_32
- 38 : CHANGE Strato2_3095_82743_L_0 U-FRICT=29.26 LeftWall_32
- 39 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
- 40 : CHANGE Strato2_3095_82743_L_0 U-KA=0.3 LeftWall_32
- 41 : CHANGE Strato2_3095_82743_L_0 U-KP=4.102 LeftWall_32
- 42 : CHANGE Strato2_3095_82743_L_0 D-KA=0.3 LeftWall_32
- 43 : CHANGE Strato2_3095_82743_L_0 D-KP=4.102 LeftWall_32
- 44 : CHANGE Strato1_2_8_L_0 U-COHE=0 LeftWall_32
- 45 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
- 46 : CHANGE Strato2_3095_82743_L_0 U-COHE=16 LeftWall_32
- 47 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
- 48 : SETWALL LeftWall_32
- 49 : GEOM 0 0
- 50 : WATER -26 0 -12 0 0
- 51 : ADD WallElement_33
- 52 : ENDSTEP
- 53 : STEP Stage2_755438
- 54 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
- 55 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
- 56 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
- 57 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
- 58 : SETWALL LeftWall_32
- 59 : GEOM 0 0
- 60 : WATER -26 0 -12 0 0
- 61 : ENDSTEP
- 62 : STEP Stage3_158
- 63 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
- 64 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
- 65 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
- 66 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
- 67 : SETWALL LeftWall_32
- 68 : GEOM 0 -2.9
- 69 : WATER -26 0 -12 0 0
- 70 : ENDSTEP
- 71 : STEP Stage4_617
- 72 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
- 73 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
- 74 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
- 75 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
- 76 : SETWALL LeftWall_32
- 77 : GEOM 0 -2.9
- 78 : WATER -26 0 -12 0 0
- 79 : ADD Tirantel_429
- 80 : ENDSTEP
- 81 : STEP Stage5_714
- 82 : CHANGE Strato1_2_8_L_0 D-FRICT=23.91 LeftWall_32
- 83 : CHANGE Strato2_3095_82743_L_0 D-FRICT=29.26 LeftWall_32
- 84 : CHANGE Strato1_2_8_L_0 D-COHE=0 LeftWall_32
- 85 : CHANGE Strato2_3095_82743_L_0 D-COHE=16 LeftWall_32
- 86 : SETWALL LeftWall_32
- 87 : GEOM 0 -6.1
- 88 : WATER -26 0 -12 0 0
- 89 : ENDSTEP

```
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|               PARATIEPLUS (TM)   NLS ENGINE RELEASE   2017.1   FULL VERSION   *Build date:Jul 11, 2017*
|
|
|                     NewProject.BaseDesignSection_28.A2M2R1_3514
|                Exe Time :29 July 2019   18:02:27
|
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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 -10.000 /	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 /

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1052 di 1221
---------	------------------	-------------	---	-----------	---------------------------

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 /

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019      18:02:27                             |
+-----+

```

ELEMENT GROUP NO. 1

0_L :
 5 61 0 1 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0

.....2D PLASTIC SOIL

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	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

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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	0.2000	0.000	0.000	0.000	1.000
28	28	1	0.2000	0.000	0.000	0.000	1.000
29	29	1	0.2000	0.000	0.000	0.000	1.000
30	30	1	0.2000	0.000	0.000	0.000	1.000
31	31	1	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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1053 di 1221
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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	0.1000	0.000	0.000	0.000	1.000

```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:02:27  |
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```

```

ELEMENT GROUP NO.  2

0_R
 5 61  0  1  0  0  0  0  0  0  0  0  0  0  0  2  0  0  0  0
.....
.....2D PLASTIC SOIL .....
.....

```

element group behaviour throughout stage analysis

stage	status
1	active
2	active
3	active
4	active
5	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

```

```

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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1054 di 1221
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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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000
24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	0.2000	0.000	0.000	0.000	2.000
28	28	1	0.2000	0.000	0.000	0.000	2.000
29	29	1	0.2000	0.000	0.000	0.000	2.000
30	30	1	0.2000	0.000	0.000	0.000	2.000
31	31	1	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	0.1000	0.000	0.000	0.000	2.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019      18:02:27                             |
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```

```

ELEMENT GROUP NO. 3

WallElement_33      :
  2 60 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
  4  active
  5  active

```

```

material set no. 1

prop( 1) young modulus      0.314800E+08
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future .....0.252200E-43

```

```

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

```

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1055 di 1221
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3 1.000
4 1.000
5 1.000

element data

el	na	nb	mat	erc1	erc2	thick	by-i	by-j
1	1	2	1	0.000	0.000	0.6848	0.000	0.000
2	2	3	1	0.000	0.000	0.6848	0.000	0.000
3	3	4	1	0.000	0.000	0.6848	0.000	0.000
4	4	5	1	0.000	0.000	0.6848	0.000	0.000
5	5	6	1	0.000	0.000	0.6848	0.000	0.000
6	6	7	1	0.000	0.000	0.6848	0.000	0.000
7	7	8	1	0.000	0.000	0.6848	0.000	0.000
8	8	9	1	0.000	0.000	0.6848	0.000	0.000
9	9	10	1	0.000	0.000	0.6848	0.000	0.000
10	10	11	1	0.000	0.000	0.6848	0.000	0.000
11	11	12	1	0.000	0.000	0.6848	0.000	0.000
12	12	13	1	0.000	0.000	0.6848	0.000	0.000
13	13	14	1	0.000	0.000	0.6848	0.000	0.000
14	14	15	1	0.000	0.000	0.6848	0.000	0.000
15	15	16	1	0.000	0.000	0.6848	0.000	0.000
16	16	17	1	0.000	0.000	0.6848	0.000	0.000
17	17	18	1	0.000	0.000	0.6848	0.000	0.000
18	18	19	1	0.000	0.000	0.6848	0.000	0.000
19	19	20	1	0.000	0.000	0.6848	0.000	0.000
20	20	21	1	0.000	0.000	0.6848	0.000	0.000
21	21	22	1	0.000	0.000	0.6848	0.000	0.000
22	22	23	1	0.000	0.000	0.6848	0.000	0.000
23	23	24	1	0.000	0.000	0.6848	0.000	0.000
24	24	25	1	0.000	0.000	0.6848	0.000	0.000
25	25	26	1	0.000	0.000	0.6848	0.000	0.000
26	26	27	1	0.000	0.000	0.6848	0.000	0.000
27	27	28	1	0.000	0.000	0.6848	0.000	0.000
28	28	29	1	0.000	0.000	0.6848	0.000	0.000
29	29	30	1	0.000	0.000	0.6848	0.000	0.000
30	30	31	1	0.000	0.000	0.6848	0.000	0.000
31	31	32	1	0.000	0.000	0.6848	0.000	0.000
32	32	33	1	0.000	0.000	0.6848	0.000	0.000
33	33	34	1	0.000	0.000	0.6848	0.000	0.000
34	34	35	1	0.000	0.000	0.6848	0.000	0.000
35	35	36	1	0.000	0.000	0.6848	0.000	0.000
36	36	37	1	0.000	0.000	0.6848	0.000	0.000
37	37	38	1	0.000	0.000	0.6848	0.000	0.000
38	38	39	1	0.000	0.000	0.6848	0.000	0.000
39	39	40	1	0.000	0.000	0.6848	0.000	0.000
40	40	41	1	0.000	0.000	0.6848	0.000	0.000
41	41	42	1	0.000	0.000	0.6848	0.000	0.000
42	42	43	1	0.000	0.000	0.6848	0.000	0.000
43	43	44	1	0.000	0.000	0.6848	0.000	0.000
44	44	45	1	0.000	0.000	0.6848	0.000	0.000
45	45	46	1	0.000	0.000	0.6848	0.000	0.000
46	46	47	1	0.000	0.000	0.6848	0.000	0.000
47	47	48	1	0.000	0.000	0.6848	0.000	0.000
48	48	49	1	0.000	0.000	0.6848	0.000	0.000
49	49	50	1	0.000	0.000	0.6848	0.000	0.000
50	50	51	1	0.000	0.000	0.6848	0.000	0.000
51	51	52	1	0.000	0.000	0.6848	0.000	0.000
52	52	53	1	0.000	0.000	0.6848	0.000	0.000
53	53	54	1	0.000	0.000	0.6848	0.000	0.000
54	54	55	1	0.000	0.000	0.6848	0.000	0.000
55	55	56	1	0.000	0.000	0.6848	0.000	0.000
56	56	57	1	0.000	0.000	0.6848	0.000	0.000
57	57	58	1	0.000	0.000	0.6848	0.000	0.000
58	58	59	1	0.000	0.000	0.6848	0.000	0.000
59	59	60	1	0.000	0.000	0.6848	0.000	0.000
60	60	61	1	0.000	0.000	0.6848	0.000	0.000

```

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|          PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION   *Build date:Jul 11, 2017*   |
|          |
|          NewProject.BaseDesignSection_28.A2M2R1_3514   |
|          Exe Time :29 July 2019   18:02:27   |
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```

ELEMENT GROUP NO. 4

Tirantel_429 :

6 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0

.....

.....2D POST-TENSION ANCHOR.....

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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1056 di
1221

.....
element group behaviour throughout stage analysis

stage	status
1	inactive
2	inactive
3	inactive
4	active
5	active

material set no. 1

prop(1) angle 15.0000
 prop(2) young modulus 0.200100E+09
 prop(3) modification time 0.00000
 prop(4) new young modulus 0.00000

no. of step variable items: 2
 step -ve lim +ve lim

step	-ve lim	+ve lim
1	0.000	0.000
2	0.000	0.000
3	0.000	0.000
4	0.000	0.000
5	0.000	0.000

element data

el	n	mat	a/l	pinit	yieldc	yieldt
1	13	1	0.1316E-04	93.94	0.000	0.000

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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1057 di
1221

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514 |
|          Exe Time :29 July 2019      18:02:27 |
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```

```

NO. OF NODAL LOADS (NLOAD) ..... 0
NO. OF LOAD CURVES (NLCUR) ..... 10
MAXIMUM POINTS/LCURVE (NPTM)..... 5

```

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514 |
|          Exe Time :29 July 2019      18:02:27 |
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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
6.00000        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
6.00000        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
6.00000        0.0000E+00

```

```

LOAD FUNCTION NUMBER = 4
NUMBER OF TIME POINTS = 5

```

```

TIME VALUE        FUNCTION
0.00000        0.0000E+00
3.80000        0.0000E+00
4.00000        0.1000E+01
4.20000        0.0000E+00
6.00000        0.0000E+00

```

```

LOAD FUNCTION NUMBER = 5
NUMBER OF TIME POINTS = 5

```

```

TIME VALUE        FUNCTION

```

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1058 di
1221

0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
5.20000	0.0000E+00
6.00000	0.0000E+00

LOAD FUNCTION NUMBER = 6
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
0.80000	0.0000E+00
1.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 7
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
1.80000	0.0000E+00
2.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 8
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
2.80000	0.0000E+00
3.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 9
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
3.80000	0.0000E+00
4.00000	0.1000E+01
6.00000	0.1000E+01

LOAD FUNCTION NUMBER = 10
NUMBER OF TIME POINTS = 4

TIME VALUE	FUNCTION
0.00000	0.0000E+00
4.80000	0.0000E+00
5.00000	0.1000E+01
6.00000	0.1000E+01

NO. OF DISTRIBUTED LOAD CARDS 0

```

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:02:27  |
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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

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1059 di 1221
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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
STEP	4	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	4	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	2	Y-DISPL.F	0.0000000
STEP	5	TOTAL APPLIED LOAD IN DIR.	4	X-ROT. F	0.0000000

LOAD INPUT SECTION COMPLETED

```

-----+-----
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|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019      18:02:27                             |
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```

NO. OF LAYERS 2
NO. OF DATA PER LAYER..... 100

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019      18:02:27                             |
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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	>= 14.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(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.	9<U-FRICT	>= 23.910	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 29.000	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.37500	WALL NO.	1
ITEM NO.	11<U-KP	>= 3.0380	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.53000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 1.0000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 20000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 60000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-05	(BOTH WALLS)	
ITEM NO.	52<D-NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 23.910	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 29.000	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.37500	WALL NO.	1
ITEM NO.	61<D-KP	>= 3.0380	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-05	(BOTH WALLS)	

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

ITEM NO.	1<NAME	>= 15.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -6.1000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 20.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 16.000	WALL NO.	1
ITEM NO.	8<U-COHE	>= 20.000	WALL NO.	2
ITEM NO.	9<U-FRICT	>= 29.260	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 35.000	WALL NO.	2

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1060 di 1221
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ITEM NO. 10<U-KA >= 0.30000 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.1020 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 16.000 WALL NO. 1
 ITEM NO. 58<D-COHE >= 20.000 WALL NO. 2
 ITEM NO. 59<D-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.30000 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.1020 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 2

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

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.37500 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.0380 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.37500 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.0380 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -6.1000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 16.000 WALL NO. 1
 ITEM NO. 8<U-COHE >= 20.000 WALL NO. 2
 ITEM NO. 9<U-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.30000 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.1020 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 16.000 WALL NO. 1
 ITEM NO. 58<D-COHE >= 20.000 WALL NO. 2
 ITEM NO. 59<D-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.30000 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.1020 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 3

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1061 di 1221
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NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 3

ITEM NO.	1<NAME	>= 14.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(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.	9<U-FRICT	>= 23.910	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 29.000	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.37500	WALL NO.	1
ITEM NO.	11<U-KP	>= 3.0380	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.53000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 1.0000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 20000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 60000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-05	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>=	1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	59<D-FRICT	>= 23.910	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 29.000	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.37500	WALL NO.	1
ITEM NO.	61<D-KP	>= 3.0380	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-05	(BOTH WALLS)	

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

ITEM NO.	1<NAME	>= 15.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= -6.1000	(BOTH WALLS)	
ITEM NO.	4<WALL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	5<GAMMAD	>= 20.000	(BOTH WALLS)	
ITEM NO.	6<GAMMAB	>= 10.000	(BOTH WALLS)	
ITEM NO.	7<GAMMAW	>= 10.000	(BOTH WALLS)	
ITEM NO.	8<U-COHE	>= 16.000	WALL NO.	1
ITEM NO.	8<U-COHE	>= 20.000	WALL NO.	2
ITEM NO.	9<U-FRICT	>= 29.260	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 35.000	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.30000	WALL NO.	1
ITEM NO.	11<U-KP	>= 4.1020	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	>= 50000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 0.15000E+06	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-03	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>=	1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	
ITEM NO.	58<D-COHE	>= 16.000	WALL NO.	1
ITEM NO.	58<D-COHE	>= 20.000	WALL NO.	2
ITEM NO.	59<D-FRICT	>= 29.260	WALL NO.	1
ITEM NO.	59<D-FRICT	>= 35.000	WALL NO.	2
ITEM NO.	60<D-KA	>= 0.30000	WALL NO.	1
ITEM NO.	61<D-KP	>= 4.1020	WALL NO.	1
ITEM NO.	77<D-PERM	>= 0.10000E-03	(BOTH WALLS)	

LAYER DESCRIPTORS FOR STEP NO. 4

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

ITEM NO.	1<NAME	>= 14.000	(BOTH WALLS)	
ITEM NO.	2<NATURE	>= 1.0000	(BOTH WALLS)	
ITEM NO.	3<LEVEL	>= 0.0000	(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.	9<U-FRICT	>= 23.910	WALL NO.	1
ITEM NO.	9<U-FRICT	>= 29.000	WALL NO.	2
ITEM NO.	10<U-KA	>= 0.37500	WALL NO.	1
ITEM NO.	11<U-KP	>= 3.0380	WALL NO.	1
ITEM NO.	12<K0-NC	>= 0.53000	(BOTH WALLS)	
ITEM NO.	13<NEXP	>= 1.0000	(BOTH WALLS)	
ITEM NO.	14<OCR	>= 1.0000	(BOTH WALLS)	
ITEM NO.	16<MODEL	>= 1.0000	(BOTH WALLS)	
ITEM NO.	17<EVC	>= 20000.	(BOTH WALLS)	
ITEM NO.	18<EUR	>= 60000.	(BOTH WALLS)	
ITEM NO.	27<U-PERM	>= 0.10000E-05	(BOTH WALLS)	
ITEM NO.	52<D-NATURE>=	1.0000	(BOTH WALLS)	
ITEM NO.	53<D-LEVEL	>= 0.0000	(BOTH WALLS)	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1062 di 1221
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ITEM NO. 59<D-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.37500 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.0380 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

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

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -6.1000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 16.000 WALL NO. 1
 ITEM NO. 8<U-COHE >= 20.000 WALL NO. 2
 ITEM NO. 9<U-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.30000 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.1020 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 16.000 WALL NO. 1
 ITEM NO. 58<D-COHE >= 20.000 WALL NO. 2
 ITEM NO. 59<D-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.30000 WALL NO. 1
 ITEM NO. 61<D-KP >= 4.1020 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

LAYER DESCRIPTORS FOR STEP NO. 5

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 1 FOR STEP NO. 5

ITEM NO. 1<NAME >= 14.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= 0.0000 (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. 9<U-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.37500 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.0380 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.53000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 1.0000 (BOTH WALLS)
 ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 20000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 60000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-05 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.37500 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.0380 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-05 (BOTH WALLS)

NON ZERO LAYER DESCRIPTORS FOR LAYER NO. 2 FOR STEP NO. 5

ITEM NO. 1<NAME >= 15.000 (BOTH WALLS)
 ITEM NO. 2<NATURE >= 1.0000 (BOTH WALLS)
 ITEM NO. 3<LEVEL >= -6.1000 (BOTH WALLS)
 ITEM NO. 4<WALL >= 1.0000 (BOTH WALLS)
 ITEM NO. 5<GAMMAD >= 20.000 (BOTH WALLS)
 ITEM NO. 6<GAMMAB >= 10.000 (BOTH WALLS)
 ITEM NO. 7<GAMMAW >= 10.000 (BOTH WALLS)
 ITEM NO. 8<U-COHE >= 16.000 WALL NO. 1
 ITEM NO. 8<U-COHE >= 20.000 WALL NO. 2
 ITEM NO. 9<U-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.30000 WALL NO. 1
 ITEM NO. 11<U-KP >= 4.1020 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1063 di
1221

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 >= 50000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-03 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 16.000 WALL NO. 1
ITEM NO. 58<D-COHE >= 20.000 WALL NO. 2
ITEM NO. 59<D-FRICT >= 29.260 WALL NO. 1
ITEM NO. 59<D-FRICT >= 35.000 WALL NO. 2
ITEM NO. 60<D-KA >= 0.30000 WALL NO. 1
ITEM NO. 61<D-KP >= 4.1020 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-03 (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
AVERAGED ON 10 VALUES

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1064 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:02:27  |
+-----+
    
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PHASE DESCRIPTORS

STEP NO.	1	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-12.00	-12.00
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	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-12.00	-12.00
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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1065 di 1221
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=====end of step 2

STEP NO.	3	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-2.900	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-12.00	-12.00
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

STEP NO.	4	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-2.900	0.000
Z-WATER_TABLE		-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-12.00	-12.00
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 4

STEP NO.	5	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-6.100	0.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1066 di 1221
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Z-WATER_TABLE	-26.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL	0.000	0.000
ZQ	0.000	0.000
DZW_OF_THE_WATER_TABLE	0.000	0.000
QS_ON_THE_EXCAVATION_SIDE	0.000	0.000
ZQS	-0.9990E+30	-0.9990E+30
ZCUT	0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES	-12.00	-12.00
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 5

LEFT-HAND WALL

LOWER LEVEL -12.00000
UPPER LEVEL 0.00000

RIGHT-HAND WALL

LOWER LEVEL -12.00000
UPPER LEVEL 0.00000

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019    18:02:27                               |
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INITIAL STRESS TABLES

SECTION

NUMBER OF DEFINED TABLES 2

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

ACTIVATION TIME 2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 5.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 0.000000000000000E+000
FOUNDATION WIDTH (B) 40.0000000000000
ZETA-F..... 0.000000000000000E+000
Q-F 13.0000000000000
BETA 30.0000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

INPUT DATA FOR INITIAL STRESS SET NO. 2
PERTAINING SOIL ELEMENTS AT Y-COORD 0.0000

ACTIVATION TIME 2.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 5.0000

TYPE BOUSSINESQ

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1067 di 1221
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HORIZONTAL DISTANCE (DY) 0.000000000000000E+000
 FOUNDATION WIDTH (B) 40.0000000000000
 ZETA-F..... 0.000000000000000E+000
 Q-F 41.8000000000000
 BETA 45.0000000000000
 BEHAVIOUR (0=FREE, 1=REFLECTING) 0.000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
 POSITION 3530

NO. OF D.P.W FOR THIS AREA 7258
 MAX NO. OF D.P.W. AVAILABLE 81920
 ** MAX NO OF ITERATIONS SET TO 100

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2153E+05 RIMNOR= 0.000
 RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 22.99 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.2153E+05 RDR = 0.000
 RATIO= 0.000 RATIO= 0.000
 MAX UN= 0.000 IEQ= 122 NODE 61 DOF 2 X-ROT. F
 MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2153E+05 RIMNOR= 0.000
 RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 22.99 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.2153E+05 RDR = 0.000
 RATIO= 0.000 RATIO= 0.000
 MAX UN= 0.000 IEQ= 122 NODE 61 DOF 2 X-ROT. F
 MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM=0.2153E+05 RIMNOR= 0.000
 RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 22.99 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT =0.2153E+05 RDR = 0.000
 RATIO= 0.000 RATIO= 0.000
 MAX UN= 0.000 IEQ= 122 NODE 61 DOF 2 X-ROT. F
 MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:02:27  |
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New Project
 SOLUTION REACHED USING 2 ITERATIONS ON 100
 PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)
 PRINT OUT OF ACTIVE COMPONENTS (FIXED NODES ARE NOT PRINTED OUT)

Y-DISPL.F	X-ROT. F	
(02)	(04)	(

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:02:27  |
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New Project

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1070 di 1221						
4 D	1.208	0.000	11.40 6.042	11.40	6.042	V-C	1.6263E+04	-0.6000	0.000	1.000	1.000
6.042	0.000	0.000	Strato1_2_8_L_0								
5 D	1.611	0.000	15.20 8.056	15.20	8.056	V-C	1.6263E+04	-0.8000	0.000	1.000	1.000
8.056	0.000	0.000	Strato1_2_8_L_0								
6 D	2.014	0.000	19.00 10.07	19.00	10.07	V-C	1.6263E+04	-1.000	0.000	1.000	1.000
10.07	0.000	0.000	Strato1_2_8_L_0								
7 D	2.417	0.000	22.80 12.08	22.80	12.08	V-C	1.6263E+04	-1.200	0.000	1.000	1.000
12.08	0.000	0.000	Strato1_2_8_L_0								
8 D	2.820	0.000	26.60 14.10	26.60	14.10	V-C	1.6263E+04	-1.400	0.000	1.000	1.000
14.10	0.000	0.000	Strato1_2_8_L_0								
9 D	3.222	0.000	30.40 16.11	30.40	16.11	V-C	1.6263E+04	-1.600	0.000	1.000	1.000
16.11	0.000	0.000	Strato1_2_8_L_0								
10 D	3.625	0.000	34.20 18.13	34.20	18.13	V-C	1.6263E+04	-1.800	0.000	1.000	1.000
18.13	0.000	0.000	Strato1_2_8_L_0								
11 D	4.028	0.000	38.00 20.14	38.00	20.14	V-C	1.6263E+04	-2.000	0.000	1.000	1.000
20.14	0.000	0.000	Strato1_2_8_L_0								
12 D	4.431	0.000	41.80 22.15	41.80	22.15	V-C	1.6263E+04	-2.200	0.000	1.000	1.000
22.15	0.000	0.000	Strato1_2_8_L_0								
13 D	4.834	0.000	45.60 24.17	45.60	24.17	V-C	1.6263E+04	-2.400	0.000	1.000	1.000
24.17	0.000	0.000	Strato1_2_8_L_0								
14 D	5.236	0.000	49.40 26.18	49.40	26.18	V-C	1.6263E+04	-2.600	0.000	1.000	1.000
26.18	0.000	0.000	Strato1_2_8_L_0								
15 D	5.639	0.000	53.20 28.20	53.20	28.20	V-C	1.6263E+04	-2.800	0.000	1.000	1.000
28.20	0.000	0.000	Strato1_2_8_L_0								
16 D	6.042	0.000	57.00 30.21	57.00	30.21	V-C	1.6263E+04	-3.000	0.000	1.000	1.000
30.21	0.000	0.000	Strato1_2_8_L_0								
17 D	6.445	0.000	60.80 32.22	60.80	32.22	V-C	1.6263E+04	-3.200	0.000	1.000	1.000
32.22	0.000	0.000	Strato1_2_8_L_0								
18 D	6.848	0.000	64.60 34.24	64.60	34.24	V-C	1.6263E+04	-3.400	0.000	1.000	1.000
34.24	0.000	0.000	Strato1_2_8_L_0								
19 D	7.250	0.000	68.40 36.25	68.40	36.25	V-C	1.6263E+04	-3.600	0.000	1.000	1.000
36.25	0.000	0.000	Strato1_2_8_L_0								
20 D	7.653	0.000	72.20 38.27	72.20	38.27	V-C	1.6263E+04	-3.800	0.000	1.000	1.000
38.27	0.000	0.000	Strato1_2_8_L_0								
21 D	8.056	0.000	76.00 40.28	76.00	40.28	V-C	1.6263E+04	-4.000	0.000	1.000	1.000
40.28	0.000	0.000	Strato1_2_8_L_0								
22 D	8.459	0.000	79.80 42.29	79.80	42.29	V-C	1.6263E+04	-4.200	0.000	1.000	1.000
42.29	0.000	0.000	Strato1_2_8_L_0								
23 D	8.862	0.000	83.60 44.31	83.60	44.31	V-C	1.6263E+04	-4.400	0.000	1.000	1.000
44.31	0.000	0.000	Strato1_2_8_L_0								
24 D	9.264	0.000	87.40 46.32	87.40	46.32	V-C	1.6263E+04	-4.600	0.000	1.000	1.000
46.32	0.000	0.000	Strato1_2_8_L_0								
25 D	9.667	0.000	91.20 48.34	91.20	48.34	V-C	1.6263E+04	-4.800	0.000	1.000	1.000
48.34	0.000	0.000	Strato1_2_8_L_0								
26 D	10.07	0.000	95.00 50.35	95.00	50.35	V-C	1.6263E+04	-5.000	0.000	1.000	1.000
50.35	0.000	0.000	Strato1_2_8_L_0								
27 D	10.47	0.000	98.80 52.36	98.80	52.36	V-C	1.6263E+04	-5.200	0.000	1.000	1.000
52.36	0.000	0.000	Strato1_2_8_L_0								
28 D	10.88	0.000	102.6 54.38	102.6	54.38	V-C	1.6263E+04	-5.400	0.000	1.000	1.000
54.38	0.000	0.000	Strato1_2_8_L_0								
29 D	11.28	0.000	106.4 56.39	106.4	56.39	V-C	1.6263E+04	-5.600	0.000	1.000	1.000
56.39	0.000	0.000	Strato1_2_8_L_0								
30 D	11.68	0.000	110.2 58.41	110.2	58.41	V-C	1.6263E+04	-5.800	0.000	1.000	1.000
58.41	0.000	0.000	Strato1_2_8_L_0								
31 D	12.08	0.000	114.0 60.42	114.0	60.42	V-C	1.6263E+04	-6.000	0.000	1.000	1.000
60.42	0.000	0.000	Strato1_2_8_L_0								
32 D	11.79	0.000	117.9 58.95	117.9	58.95	V-C	3.6625E+04	-6.200	0.000	1.000	1.000
58.95	0.000	0.000	Strato2_3095_82743_L_0								
33 D	12.19	0.000	121.9 60.95	121.9	60.95	V-C	3.6625E+04	-6.400	0.000	1.000	1.000
60.95	0.000	0.000	Strato2_3095_82743_L_0								
34 D	12.59	0.000	125.9 62.95	125.9	62.95	V-C	3.6625E+04	-6.600	0.000	1.000	1.000
62.95	0.000	0.000	Strato2_3095_82743_L_0								
35 D	12.99	0.000	129.9 64.95	129.9	64.95	V-C	3.6625E+04	-6.800	0.000	1.000	1.000
64.95	0.000	0.000	Strato2_3095_82743_L_0								
36 D	13.39	0.000	133.9 66.95	133.9	66.95	V-C	3.6625E+04	-7.000	0.000	1.000	1.000
66.95	0.000	0.000	Strato2_3095_82743_L_0								
37 D	13.79	0.000	137.9 68.95	137.9	68.95	V-C	3.6625E+04	-7.200	0.000	1.000	1.000
68.95	0.000	0.000	Strato2_3095_82743_L_0								
38 D	14.19	0.000	141.9 70.95	141.9	70.95	V-C	3.6625E+04	-7.400	0.000	1.000	1.000
70.95	0.000	0.000	Strato2_3095_82743_L_0								
39 D	14.59	0.000	145.9 72.95	145.9	72.95	V-C	3.6625E+04	-7.600	0.000	1.000	1.000
72.95	0.000	0.000	Strato2_3095_82743_L_0								
40 D	14.99	0.000	149.9 74.95	149.9	74.95	V-C	3.6625E+04	-7.800	0.000	1.000	1.000
74.95	0.000	0.000	Strato2_3095_82743_L_0								
41 D	15.39	0.000	153.9 76.95	153.9	76.95	V-C	3.6625E+04	-8.000	0.000	1.000	1.000
76.95	0.000	0.000	Strato2_3095_82743_L_0								
42 D	15.79	0.000	157.9 78.95	157.9	78.95	V-C	3.6625E+04	-8.200	0.000	1.000	1.000
78.95	0.000	0.000	Strato2_3095_82743_L_0								
43 D	16.19	0.000	161.9 80.95	161.9	80.95	V-C	3.6625E+04	-8.400	0.000	1.000	1.000
80.95	0.000	0.000	Strato2_3095_82743_L_0								
44 D	16.59	0.000	165.9 82.95	165.9	82.95	V-C	3.6625E+04	-8.600	0.000	1.000	1.000
82.95	0.000	0.000	Strato2_3095_82743_L_0								
45 D	16.99	0.000	169.9 84.95	169.9	84.95	V-C	3.6625E+04	-8.800	0.000	1.000	1.000
84.95	0.000	0.000	Strato2_3095_82743_L_0								
46 D	17.39	0.000	173.9 86.95	173.9	86.95	V-C	3.6625E+04	-9.000	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1071 di 1221
86.95	0.000	0.000	Strato2_3095_82743_L_0		
47 D	17.79	0.000	177.9 88.95 177.9	88.95	V-C 3.6625E+04 -9.200 0.000 1.000 1.000
88.95	0.000	0.000	Strato2_3095_82743_L_0		
48 D	18.19	0.000	181.9 90.95 181.9	90.95	V-C 3.6625E+04 -9.400 0.000 1.000 1.000
90.95	0.000	0.000	Strato2_3095_82743_L_0		
49 D	18.59	0.000	185.9 92.95 185.9	92.95	V-C 3.6625E+04 -9.600 0.000 1.000 1.000
92.95	0.000	0.000	Strato2_3095_82743_L_0		
50 D	18.99	0.000	189.9 94.95 189.9	94.95	V-C 3.6625E+04 -9.800 0.000 1.000 1.000
94.95	0.000	0.000	Strato2_3095_82743_L_0		
51 D	19.39	0.000	193.9 96.95 193.9	96.95	V-C 3.6625E+04 -10.00 0.000 1.000 1.000
96.95	0.000	0.000	Strato2_3095_82743_L_0		
52 D	19.79	0.000	197.9 98.95 197.9	98.95	V-C 3.6625E+04 -10.20 0.000 1.000 1.000
98.95	0.000	0.000	Strato2_3095_82743_L_0		
53 D	20.19	0.000	201.9 100.9 201.9	100.9	V-C 3.6625E+04 -10.40 0.000 1.000 1.000
100.9	0.000	0.000	Strato2_3095_82743_L_0		
54 D	20.59	0.000	205.9 102.9 205.9	102.9	V-C 3.6625E+04 -10.60 0.000 1.000 1.000
102.9	0.000	0.000	Strato2_3095_82743_L_0		
55 D	20.99	0.000	209.9 104.9 209.9	104.9	V-C 3.6625E+04 -10.80 0.000 1.000 1.000
104.9	0.000	0.000	Strato2_3095_82743_L_0		
56 D	21.39	0.000	213.9 106.9 213.9	106.9	V-C 3.6625E+04 -11.00 0.000 1.000 1.000
106.9	0.000	0.000	Strato2_3095_82743_L_0		
57 D	21.79	0.000	217.9 108.9 217.9	108.9	V-C 3.6625E+04 -11.20 0.000 1.000 1.000
108.9	0.000	0.000	Strato2_3095_82743_L_0		
58 D	22.19	0.000	221.9 110.9 221.9	110.9	V-C 3.6625E+04 -11.40 0.000 1.000 1.000
110.9	0.000	0.000	Strato2_3095_82743_L_0		
59 D	22.59	0.000	225.9 112.9 225.9	112.9	V-C 3.6625E+04 -11.60 0.000 1.000 1.000
112.9	0.000	0.000	Strato2_3095_82743_L_0		
60 D	22.99	0.000	229.9 114.9 229.9	114.9	V-C 3.6625E+04 -11.80 0.000 1.000 1.000
114.9	0.000	0.000	Strato2_3095_82743_L_0		
61 D	11.70	0.000	233.9 116.9 233.9	116.9	V-C 3.6625E+04 -12.00 0.000 1.000 1.000
117.0	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:02:27  |
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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_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60
C U R R E N T T I M E I S 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000
31	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1072 di
1221

32	0.0000	0.0000	0.0000	0.0000
33	0.0000	0.0000	0.0000	0.0000
34	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000
36	0.0000	0.0000	0.0000	0.0000
37	0.0000	0.0000	0.0000	0.0000
38	0.0000	0.0000	0.0000	0.0000
39	0.0000	0.0000	0.0000	0.0000
40	0.0000	0.0000	0.0000	0.0000
41	0.0000	0.0000	0.0000	0.0000
42	0.0000	0.0000	0.0000	0.0000
43	0.0000	0.0000	0.0000	0.0000
44	0.0000	0.0000	0.0000	0.0000
45	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000
47	0.0000	0.0000	0.0000	0.0000
48	0.0000	0.0000	0.0000	0.0000
49	0.0000	0.0000	0.0000	0.0000
50	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	0.0000	0.0000
52	0.0000	0.0000	0.0000	0.0000
53	0.0000	0.0000	0.0000	0.0000
54	0.0000	0.0000	0.0000	0.0000
55	0.0000	0.0000	0.0000	0.0000
56	0.0000	0.0000	0.0000	0.0000
57	0.0000	0.0000	0.0000	0.0000
58	0.0000	0.0000	0.0000	0.0000
59	0.0000	0.0000	0.0000	0.0000
60	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1073 di
1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:02:27  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

CURRENT TIME IS 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2775E+05 RIMNOR= 0.000
            RENORM= 883.0      REMNOR= 0.000      RATIO =0.1784      TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 26.79      RMMAX = 0.000
            RTSMAL=0.1000E-03 RMSMAL= 0.000
            RDT =0.2775E+05 RDR = 0.000
            RATIOT=0.1784      RATIOR= 0.000
            MAX UN= 4.062      IEQ= 15 NODE      8 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=0.2775E+05 RIMNOR= 0.000
            RENORM= 25.88      REMNOR=0.1049E-20 RATIO =0.3054E-01 TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 26.79      RMMAX = 0.000
            RTSMAL=0.1000E-03 RMSMAL= 0.000
            RDT =0.2775E+05 RDR = 0.000
            RATIOT=0.3054E-01 RATIOR= 0.000
            MAX UN= 2.209      IEQ= 5 NODE      3 DOF 1 Y-DISPL.F
            MIN UN=-.1062E-09 IEQ= 45 NODE      23 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      3  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2775E+05 RIMNOR= 0.000
            RENORM= 3.752      REMNOR=0.6266E-21 RATIO =0.1163E-01 TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 26.79      RMMAX = 0.000
            RTSMAL=0.1000E-03 RMSMAL= 0.000
            RDT =0.2775E+05 RDR = 0.000
            RATIOT=0.1163E-01 RATIOR= 0.000
            MAX UN= 1.331      IEQ= 31 NODE      16 DOF 1 Y-DISPL.F
            MIN UN=-.1133E-09 IEQ= 41 NODE      21 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2775E+05 RIMNOR= 0.000
            RENORM=0.7257E-02 REMNOR=0.6605E-21 RATIO =0.5114E-03 TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 26.79      RMMAX = 0.000
            RTSMAL=0.1000E-03 RMSMAL= 0.000
            RDT =0.2775E+05 RDR = 0.000
            RATIOT=0.5114E-03 RATIOR= 0.000
            MAX UN=0.6888E-01 IEQ= 63 NODE      32 DOF 1 Y-DISPL.F
            MIN UN=-.1444E-09 IEQ= 11 NODE      6 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.2775E+05 RIMNOR= 0.000
            RENORM=0.9203E-19 REMNOR=0.5776E-21 RATIO =0.1821E-11 TOLER =0.1000E-03  CONVERGED !
            RFMAX = 26.79      RMMAX = 0.000
            RTSMAL=0.1000E-03 RMSMAL= 0.000
            RDT =0.2775E+05 RDR = 0.000
            RATIOT=0.1821E-11 RATIOR= 0.000
            MAX UN=0.1106E-09 IEQ= 25 NODE      13 DOF 1 Y-DISPL.F
            MIN UN=-.1351E-09 IEQ= 19 NODE      10 DOF 1 Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1074 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019      18:02:27                             |
+-----+
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New Project

SOLUTION REACHED USING 5 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	7.0718135E-04	-1.0877791E-04	
2	6.8542902E-04	-1.0872912E-04	
3	6.6369714E-04	-1.0856879E-04	
4	6.4200954E-04	-1.0828789E-04	
5	6.2039026E-04	-1.0788271E-04	
6	5.9886535E-04	-1.0734415E-04	
7	5.7746202E-04	-1.0666426E-04	
8	5.5620964E-04	-1.0583436E-04	
9	5.3513874E-04	-1.0484757E-04	
10	5.1428138E-04	-1.0369932E-04	
11	4.9366985E-04	-1.0238849E-04	
12	4.7333682E-04	-1.0091504E-04	
13	4.5331454E-04	-9.9280964E-05	
14	4.3363491E-04	-9.7489831E-05	
15	4.1432869E-04	-9.5547466E-05	
16	3.9542548E-04	-9.3461631E-05	
17	3.7695286E-04	-9.1243383E-05	
18	3.5893602E-04	-8.8906804E-05	
19	3.4139693E-04	-8.6468490E-05	
20	3.2435414E-04	-8.3947413E-05	
21	3.0782203E-04	-8.1365264E-05	
22	2.9181049E-04	-7.8746356E-05	
23	2.7632458E-04	-7.6111031E-05	
24	2.6136651E-04	-7.3469212E-05	
25	2.4693734E-04	-7.0820743E-05	
26	2.3303932E-04	-6.8155556E-05	
27	2.1967765E-04	-6.5453427E-05	
28	2.0686250E-04	-6.2684154E-05	
29	1.9461110E-04	-5.9808198E-05	
30	1.8294957E-04	-5.6776889E-05	
31	1.7191452E-04	-5.3533002E-05	
32	1.6155492E-04	-5.0011706E-05	
33	1.5192654E-04	-4.6240579E-05	
34	1.4306773E-04	-4.2333778E-05	
35	1.3499563E-04	-3.8387976E-05	
36	1.2770981E-04	-3.4483112E-05	
37	1.2119540E-04	-3.0683509E-05	
38	1.1542607E-04	-2.7039443E-05	
39	1.1036672E-04	-2.3588983E-05	
40	1.0597572E-04	-2.0359865E-05	
41	1.0220675E-04	-1.7371033E-05	
42	9.9010560E-05	-1.4633453E-05	
43	9.6336333E-05	-1.2151420E-05	
44	9.4133043E-05	-9.9236269E-06	
45	9.2350330E-05	-7.9442412E-06	
46	9.0939432E-05	-6.2037174E-06	
47	8.9853716E-05	-4.6900917E-06	
48	8.9049188E-05	-3.3895760E-06	
49	8.8484702E-05	-2.2868136E-06	
50	8.8122377E-05	-1.3653484E-06	
51	8.7927619E-05	-6.0807973E-07	
52	8.7869359E-05	2.4088902E-09	
53	8.7919948E-05	4.8346020E-07	
54	8.8055262E-05	8.5232519E-07	
55	8.8254492E-05	1.1254032E-06	
56	8.8500076E-05	1.3182631E-06	
57	8.8777443E-05	1.4458178E-06	
58	8.9074997E-05	1.5222834E-06	
59	8.9383855E-05	1.5612176E-06	
60	8.9697854E-05	1.5756963E-06	
61	9.0013359E-05	1.5783215E-06	



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1075 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      18:02:27          |
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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

O_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
C U R R E N T T I M E I S 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	2.055	-7.0718E-04	54.80	20.55	54.80	29.04	ACTIVE	0.000	0.000	0.000	1.000	1.000
20.55	0.000	0.000	Stratol_2_8_L_0									
2 D	2.898	-6.8543E-04	38.63	14.49	38.63	20.48	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
14.49	0.000	0.000	Stratol_2_8_L_0									
3 D	2.756	-6.6370E-04	36.74	13.78	36.74	19.47	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
13.78	0.000	0.000	Stratol_2_8_L_0									
4 D	3.662	-6.4201E-04	48.83	18.31	48.83	25.88	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
18.31	0.000	0.000	Stratol_2_8_L_0									
5 D	3.647	-6.2039E-04	48.63	18.24	48.63	25.77	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
18.24	0.000	0.000	Stratol_2_8_L_0									
6 D	4.279	-5.9887E-04	57.05	21.39	57.05	30.24	ACTIVE	0.000	-1.000	0.000	1.000	1.000
21.39	0.000	0.000	Stratol_2_8_L_0									
7 D	4.344	-5.7746E-04	57.92	21.72	57.92	30.70	ACTIVE	0.000	-1.200	0.000	1.000	1.000
21.72	0.000	0.000	Stratol_2_8_L_0									
8 D	4.869	-5.5621E-04	64.92	24.35	64.92	34.41	ACTIVE	0.000	-1.400	0.000	1.000	1.000
24.35	0.000	0.000	Stratol_2_8_L_0									
9 D	4.916	-5.3514E-04	65.55	24.58	65.55	34.74	ACTIVE	0.000	-1.600	0.000	1.000	1.000
24.58	0.000	0.000	Stratol_2_8_L_0									
10 D	5.392	-5.1428E-04	71.89	26.96	71.89	38.10	ACTIVE	0.000	-1.800	0.000	1.000	1.000
26.96	0.000	0.000	Stratol_2_8_L_0									
11 D	5.541	-4.9367E-04	73.88	27.70	73.88	39.16	ACTIVE	0.000	-2.000	0.000	1.000	1.000
27.70	0.000	0.000	Stratol_2_8_L_0									
12 D	5.980	-4.7334E-04	79.73	29.90	79.73	42.26	ACTIVE	0.000	-2.200	0.000	1.000	1.000
29.90	0.000	0.000	Stratol_2_8_L_0									
13 D	6.148	-4.5331E-04	81.98	30.74	81.98	43.45	ACTIVE	0.000	-2.400	0.000	1.000	1.000
30.74	0.000	0.000	Stratol_2_8_L_0									
14 D	6.562	-4.3363E-04	87.49	32.81	87.49	46.37	ACTIVE	0.000	-2.600	0.000	1.000	1.000
32.81	0.000	0.000	Stratol_2_8_L_0									
15 D	6.745	-4.1433E-04	89.93	33.73	89.93	47.67	ACTIVE	0.000	-2.800	0.000	1.000	1.000
33.73	0.000	0.000	Stratol_2_8_L_0									
16 D	7.104	-3.9543E-04	94.72	35.52	94.72	50.20	ACTIVE	0.000	-3.000	0.000	1.000	1.000
35.52	0.000	0.000	Stratol_2_8_L_0									
17 D	7.302	-3.7695E-04	97.35	36.51	97.35	51.60	ACTIVE	0.000	-3.200	0.000	1.000	1.000
36.51	0.000	0.000	Stratol_2_8_L_0									
18 D	7.685	-3.5894E-04	102.5	38.43	102.5	54.31	ACTIVE	0.000	-3.400	0.000	1.000	1.000
38.43	0.000	0.000	Stratol_2_8_L_0									
19 D	7.891	-3.4140E-04	105.2	39.46	105.2	55.77	ACTIVE	0.000	-3.600	0.000	1.000	1.000
39.46	0.000	0.000	Stratol_2_8_L_0									
20 D	8.264	-3.2435E-04	110.2	41.32	110.2	58.40	ACTIVE	0.000	-3.800	0.000	1.000	1.000
41.32	0.000	0.000	Stratol_2_8_L_0									
21 D	8.477	-3.0782E-04	113.0	42.39	113.0	59.91	ACTIVE	0.000	-4.000	0.000	1.000	1.000
42.39	0.000	0.000	Stratol_2_8_L_0									
22 D	9.131	-2.9181E-04	117.9	45.66	117.9	62.48	UL-RL	5.7646E+04	-4.200	0.000	1.000	1.000
45.66	0.000	0.000	Stratol_2_8_L_0									
23 D	9.619	-2.7632E-04	120.8	48.10	120.8	64.03	UL-RL	5.7646E+04	-4.400	0.000	1.000	1.000
48.10	0.000	0.000	Stratol_2_8_L_0									
24 D	10.26	-2.6137E-04	125.2	51.31	125.2	66.38	UL-RL	5.7646E+04	-4.600	0.000	1.000	1.000
51.31	0.000	0.000	Stratol_2_8_L_0									
25 D	10.75	-2.4694E-04	128.2	53.73	128.2	67.97	UL-RL	5.7646E+04	-4.800	0.000	1.000	1.000
53.73	0.000	0.000	Stratol_2_8_L_0									
26 D	11.40	-2.3304E-04	132.9	57.02	132.9	70.45	UL-RL	5.7646E+04	-5.000	0.000	1.000	1.000
57.02	0.000	0.000	Stratol_2_8_L_0									
27 D	11.88	-2.1968E-04	136.0	59.41	136.0	72.08	UL-RL	5.7646E+04	-5.200	0.000	1.000	1.000
59.41	0.000	0.000	Stratol_2_8_L_0									
28 D	12.52	-2.0686E-04	140.6	62.60	140.6	74.52	UL-RL	5.7646E+04	-5.400	0.000	1.000	1.000
62.60	0.000	0.000	Stratol_2_8_L_0									
29 D	12.99	-1.9461E-04	143.7	64.95	143.7	76.17	UL-RL	5.7646E+04	-5.600	0.000	1.000	1.000
64.95	0.000	0.000	Stratol_2_8_L_0									
30 D	13.61	-1.8295E-04	148.3	68.04	148.3	78.59	UL-RL	5.7646E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1076 di 1221
68.04	0.000	0.000	Strato1_2_8_L_0		
31 D	14.04	-1.7191E-04	151.2 70.22	151.2	80.13
70.22	0.000	0.000	Strato1_2_8_L_0		
32 D	10.41	-1.6155E-04	155.8 52.05	155.8	77.90
52.05	0.000	0.000	Strato2_3095_82743_L_0		
33 D	11.06	-1.5193E-04	159.2 55.29	159.2	79.60
55.29	0.000	0.000	Strato2_3095_82743_L_0		
34 D	11.81	-1.4307E-04	163.9 59.04	163.9	81.93
59.04	0.000	0.000	Strato2_3095_82743_L_0		
35 D	12.41	-1.3500E-04	167.3 62.05	167.3	83.65
62.05	0.000	0.000	Strato2_3095_82743_L_0		
36 D	13.11	-1.2771E-04	171.9 65.53	171.9	85.96
65.53	0.000	0.000	Strato2_3095_82743_L_0		
37 D	13.66	-1.2120E-04	175.4 68.30	175.4	87.69
68.30	0.000	0.000	Strato2_3095_82743_L_0		
38 D	14.30	-1.1543E-04	180.0 71.52	180.0	89.99
71.52	0.000	0.000	Strato2_3095_82743_L_0		
39 D	14.79	-1.1037E-04	183.3 73.97	183.3	91.63
73.97	0.000	0.000	Strato2_3095_82743_L_0		
40 D	15.39	-1.0598E-04	187.8 76.96	187.8	93.91
76.96	0.000	0.000	Strato2_3095_82743_L_0		
41 D	15.86	-1.0221E-04	191.3 79.32	191.3	95.67
79.32	0.000	0.000	Strato2_3095_82743_L_0		
42 D	16.42	-9.9011E-05	195.9 82.10	195.9	97.94
82.10	0.000	0.000	Strato2_3095_82743_L_0		
43 D	16.86	-9.6336E-05	199.4 84.30	199.4	99.71
84.30	0.000	0.000	Strato2_3095_82743_L_0		
44 D	17.38	-9.4133E-05	203.9 86.90	203.9	102.0
86.90	0.000	0.000	Strato2_3095_82743_L_0		
45 D	17.79	-9.2350E-05	207.5 88.97	207.5	103.7
88.97	0.000	0.000	Strato2_3095_82743_L_0		
46 D	18.27	-9.0939E-05	211.8 91.35	211.8	105.9
91.35	0.000	0.000	Strato2_3095_82743_L_0		
47 D	18.66	-8.9854E-05	215.4 93.31	215.4	107.7
93.31	0.000	0.000	Strato2_3095_82743_L_0		
48 D	19.14	-8.9049E-05	219.8 95.68	219.8	109.9
95.68	0.000	0.000	Strato2_3095_82743_L_0		
49 D	19.51	-8.8485E-05	223.4 97.57	223.4	111.7
97.57	0.000	0.000	Strato2_3095_82743_L_0		
50 D	19.97	-8.8122E-05	227.9 99.85	227.9	113.9
99.85	0.000	0.000	Strato2_3095_82743_L_0		
51 D	20.34	-8.7928E-05	231.5 101.7	231.5	115.7
101.7	0.000	0.000	Strato2_3095_82743_L_0		
52 D	20.78	-8.7869E-05	235.9 103.9	235.9	118.0
103.9	0.000	0.000	Strato2_3095_82743_L_0		
53 D	21.14	-8.7920E-05	239.6 105.7	239.6	119.8
105.7	0.000	0.000	Strato2_3095_82743_L_0		
54 D	21.57	-8.8055E-05	243.8 107.8	243.8	121.9
107.8	0.000	0.000	Strato2_3095_82743_L_0		
55 D	21.92	-8.8254E-05	247.5 109.6	247.5	123.7
109.6	0.000	0.000	Strato2_3095_82743_L_0		
56 D	22.35	-8.8500E-05	251.9 111.8	251.9	125.9
111.8	0.000	0.000	Strato2_3095_82743_L_0		
57 D	22.71	-8.8777E-05	255.5 113.6	255.5	127.8
113.6	0.000	0.000	Strato2_3095_82743_L_0		
58 D	23.14	-8.9075E-05	259.9 115.7	259.9	130.0
115.7	0.000	0.000	Strato2_3095_82743_L_0		
59 D	23.50	-8.9384E-05	263.6 117.5	263.6	131.8
117.5	0.000	0.000	Strato2_3095_82743_L_0		
60 D	23.92	-8.9698E-05	267.9 119.6	267.9	134.0
119.6	0.000	0.000	Strato2_3095_82743_L_0		
61 D	12.13	-9.0013E-05	271.5 121.3	271.5	135.7
121.3	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A2M2R1_3514                                                                                       |
|          Exe Time :29 July 2019          18:02:27                                                                                           |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
 CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1078 di 1221							
41 D	16.04	1.0221E-04	153.9	80.22	153.9	80.93	UL-RL	1.0987E+05	-8.000	0.000	1.000	1.000
80.22	0.000	0.000	Strato2_3095_82743_L_0									
42 D	16.42	9.9011E-05	157.9	82.10	157.9	82.81	UL-RL	1.0987E+05	-8.200	0.000	1.000	1.000
82.10	0.000	0.000	Strato2_3095_82743_L_0									
43 D	16.80	9.6336E-05	161.9	84.02	161.9	84.71	UL-RL	1.0987E+05	-8.400	0.000	1.000	1.000
84.02	0.000	0.000	Strato2_3095_82743_L_0									
44 D	17.19	9.4133E-05	165.9	85.95	165.9	86.62	UL-RL	1.0987E+05	-8.600	0.000	1.000	1.000
85.95	0.000	0.000	Strato2_3095_82743_L_0									
45 D	17.58	9.2350E-05	169.9	87.91	169.9	88.54	UL-RL	1.0987E+05	-8.800	0.000	1.000	1.000
87.91	0.000	0.000	Strato2_3095_82743_L_0									
46 D	17.98	9.0939E-05	173.9	89.89	173.9	90.48	UL-RL	1.0987E+05	-9.000	0.000	1.000	1.000
89.89	0.000	0.000	Strato2_3095_82743_L_0									
47 D	18.38	8.9854E-05	177.9	91.88	177.9	92.42	UL-RL	1.0987E+05	-9.200	0.000	1.000	1.000
91.88	0.000	0.000	Strato2_3095_82743_L_0									
48 D	18.78	8.9049E-05	181.9	93.88	181.9	94.38	UL-RL	1.0987E+05	-9.400	0.000	1.000	1.000
93.88	0.000	0.000	Strato2_3095_82743_L_0									
49 D	19.18	8.8485E-05	185.9	95.90	185.9	96.34	UL-RL	1.0987E+05	-9.600	0.000	1.000	1.000
95.90	0.000	0.000	Strato2_3095_82743_L_0									
50 D	19.58	8.8122E-05	189.9	97.92	189.9	98.31	UL-RL	1.0987E+05	-9.800	0.000	1.000	1.000
97.92	0.000	0.000	Strato2_3095_82743_L_0									
51 D	19.99	8.7928E-05	193.9	99.95	193.9	100.3	UL-RL	1.0987E+05	-10.000	0.000	1.000	1.000
99.95	0.000	0.000	Strato2_3095_82743_L_0									
52 D	20.40	8.7869E-05	197.9	102.0	197.9	102.3	UL-RL	1.0987E+05	-10.200	0.000	1.000	1.000
102.0	0.000	0.000	Strato2_3095_82743_L_0									
53 D	20.80	8.7920E-05	201.9	104.0	201.9	104.2	UL-RL	1.0987E+05	-10.400	0.000	1.000	1.000
104.0	0.000	0.000	Strato2_3095_82743_L_0									
54 D	21.21	8.8055E-05	205.9	106.1	205.9	106.2	UL-RL	1.0987E+05	-10.600	0.000	1.000	1.000
106.1	0.000	0.000	Strato2_3095_82743_L_0									
55 D	21.62	8.8254E-05	209.9	108.1	209.9	108.2	UL-RL	1.0987E+05	-10.800	0.000	1.000	1.000
108.1	0.000	0.000	Strato2_3095_82743_L_0									
56 D	22.03	8.8500E-05	213.9	110.1	213.9	110.2	UL-RL	1.0987E+05	-11.000	0.000	1.000	1.000
110.1	0.000	0.000	Strato2_3095_82743_L_0									
57 D	22.44	8.8777E-05	217.9	112.2	217.9	112.2	UL-RL	1.0987E+05	-11.200	0.000	1.000	1.000
112.2	0.000	0.000	Strato2_3095_82743_L_0									
58 D	22.84	8.9075E-05	221.9	114.2	221.9	114.2	UL-RL	1.0987E+05	-11.400	0.000	1.000	1.000
114.2	0.000	0.000	Strato2_3095_82743_L_0									
59 D	23.24	8.9384E-05	225.9	116.2	225.9	116.2	UL-RL	1.0987E+05	-11.600	0.000	1.000	1.000
116.2	0.000	0.000	Strato2_3095_82743_L_0									
60 D	23.65	8.9698E-05	229.9	118.2	229.9	118.2	UL-RL	1.0987E+05	-11.800	0.000	1.000	1.000
118.2	0.000	0.000	Strato2_3095_82743_L_0									
61 D	12.02	9.0013E-05	233.9	120.2	233.9	120.3	UL-RL	1.0987E+05	-12.000	0.000	1.000	1.000
120.2	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                 NewProject.BaseDesignSection_28.A2M2R1_3514                               |
|                                                                 Exe Time :29 July 2019      18:02:27                               |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60
 CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	2.0550	-2.0550	-1.49059E-12	0.41100
2	2.6436	-2.6436	-0.41100	0.93972
3	2.4349	-2.4349	-0.93972	1.4267
4	2.8002	-2.8002	-1.4267	1.9867
5	2.8181	-2.8181	-1.9867	2.5504
6	3.1351	-3.1351	-2.5504	3.1774
7	3.1839	-3.1839	-3.1774	3.8142
8	3.4242	-3.4242	-3.8142	4.4990
9	3.3772	-3.3772	-4.4990	5.1744
10	3.4713	-3.4713	-5.1744	5.8687
11	3.3785	-3.3785	-5.8687	6.5444
12	3.3877	-3.3877	-6.5444	7.2219
13	3.2278	-3.2278	-7.2219	7.8675
14	3.1425	-3.1425	-7.8675	8.4960
15	2.9007	-2.9007	-8.4960	9.0761
16	2.6768	-2.6768	-9.0761	9.6115
17	2.3075	-2.3075	-9.6115	10.073
18	1.9778	-1.9778	-10.073	10.469
19	1.5083	-1.5083	-10.469	10.770
20	1.0642	-1.0642	-10.770	10.983

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



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GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1079 di 1221
21	0.48419	-0.48419	-10.983	11.080	
22	0.20731	-0.20731	-11.080	11.121	
23	6.62438E-02	-6.62438E-02	-11.121	11.135	
24	0.21388	-0.21388	-11.135	11.177	
25	0.49033	-0.49033	-11.177	11.275	
26	1.0663	-1.0663	-11.275	11.489	
27	1.7613	-1.7613	-11.489	11.841	
28	2.7325	-2.7325	-11.841	12.388	
29	3.8113	-3.8113	-12.388	13.150	
30	5.1430	-5.1430	-13.150	14.178	
31	6.5429	-6.5429	-14.178	15.487	
32	3.9799	-3.9799	-15.487	16.283	
33	1.7350	-1.7350	-16.283	16.630	
34	-9.22741E-02	9.22741E-02	-16.630	16.611	
35	-1.6321	1.6321	-16.611	16.285	
36	-2.8010	2.8010	-16.285	15.725	
37	-3.7515	3.7515	-15.725	14.975	
38	-4.4037	4.4037	-14.975	14.094	
39	-4.9198	4.9198	-14.094	13.110	
40	-5.2016	5.2016	-13.110	12.070	
41	-5.3818	5.3818	-12.070	10.993	
42	-5.3825	5.3825	-10.993	9.9167	
43	-5.3267	5.3267	-9.9167	8.8514	
44	-5.1365	5.1365	-8.8514	7.8241	
45	-4.9254	4.9254	-7.8241	6.8390	
46	-4.6321	4.6321	-6.8390	5.9126	
47	-4.3446	4.3446	-5.9126	5.0436	
48	-3.9852	3.9852	-5.0436	4.2466	
49	-3.6513	3.6513	-4.2466	3.5163	
50	-3.2653	3.2653	-3.5163	2.8633	
51	-2.9180	2.9180	-2.8633	2.2797	
52	-2.5326	2.5326	-2.2797	1.7732	
53	-2.1941	2.1941	-1.7732	1.3343	
54	-1.8407	1.8407	-1.3343	0.96621	
55	-1.5383	1.5383	-0.96621	0.65854	
56	-1.2125	1.2125	-0.65854	0.41604	
57	-0.93951	0.93951	-0.41604	0.22814	
58	-0.64141	0.64141	-0.22814	9.98602E-02	
59	-0.38872	0.38872	-9.98602E-02	2.21154E-02	
60	-0.11057	0.11057	-2.21154E-02	1.23096E-12	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1080 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:02:27  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 CURRENT TIME IS 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER 0 RNORM = 0.000  RMNORM= 0.000
RINORM=0.2168E+05 RIMNOR=0.1044E+05
RENORM= 676.5  REMNOR=0.5776E-21 RATIO =0.1766  TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 23.92  RMMAX = 16.63
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.2168E+05 RDR =0.1044E+05
RATIOT=0.1766  RATOR= 0.000
MAX UN= 6.987  IEQ= 29 NODE 15 DOF 1 Y-DISPL.F
MIN UN=-.3937E-10 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=0.2168E+05 RIMNOR=0.1044E+05
RENORM= 433.4  REMNOR=0.3625E-18 RATIO =0.1414  TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 23.92  RMMAX = 16.63
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.2168E+05 RDR =0.1044E+05
RATIOT=0.1414  RATOR= 0.000
MAX UN= 10.28  IEQ= 43 NODE 22 DOF 1 Y-DISPL.F
MIN UN=-.5365E-08 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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ITER 3 RNORM = 0.000  RMNORM= 0.000
RINORM=0.2168E+05 RIMNOR=0.1044E+05
RENORM= 149.8  REMNOR=0.1912E-18 RATIO =0.8311E-01 TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 23.92  RMMAX = 16.63
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.2168E+05 RDR =0.1044E+05
RATIOT=0.8311E-01 RATOR= 0.000
MAX UN= 7.877  IEQ= 71 NODE 36 DOF 1 Y-DISPL.F
MIN UN=-.3030E-08 IEQ= 7 NODE 4 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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ITER 4 RNORM = 0.000  RMNORM= 0.000
RINORM=0.2168E+05 RIMNOR=0.1044E+05
RENORM= 2.461  REMNOR=0.1089E-18 RATIO =0.1065E-01 TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 23.92  RMMAX = 16.63
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.2168E+05 RDR =0.1044E+05
RATIOT=0.1065E-01 RATOR= 0.000
MAX UN= 1.423  IEQ= 77 NODE 39 DOF 1 Y-DISPL.F
MIN UN=-.2752E-01 IEQ= 121 NODE 61 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
```

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ITER 5 RNORM = 0.000  RMNORM= 0.000
RINORM=0.2168E+05 RIMNOR=0.1044E+05
RENORM=0.4238E-16 REMNOR=0.1341E-18 RATIO =0.4421E-10 TOLER =0.1000E-03  CONVERGED !
RFMAX = 23.92  RMMAX = 16.63
RTSMAL=0.1000E-03 RMSMAL=0.1000E-03
RDT =0.2168E+05 RDR =0.1044E+05
RATIOT=0.4421E-10 RATOR= 0.000
MAX UN=0.3216E-08 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F
MIN UN=-.2665E-08 IEQ= 3 NODE 2 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1081 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                          |
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|          NewProject.BaseDesignSection_28.A2M2R1_3514          |
|          Exe Time :29 July 2019          18:02:27          |
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New Project
SOLUTION REACHED USING 5 ITERATIONS ON 100
PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	1.2433733E-02	-1.9270844E-03	
2	1.2048319E-02	-1.9270356E-03	
3	1.1662930E-02	-1.9268204E-03	
4	1.1277611E-02	-1.9263047E-03	
5	1.0892438E-02	-1.9253361E-03	
6	1.0507518E-02	-1.9237410E-03	
7	1.0122996E-02	-1.9213314E-03	
8	9.7390537E-03	-1.9179024E-03	
9	9.3559174E-03	-1.9132354E-03	
10	8.9738576E-03	-1.9070981E-03	
11	8.5931925E-03	-1.8992457E-03	
12	8.2142909E-03	-1.8894188E-03	
13	7.8375748E-03	-1.8773438E-03	
14	7.4635225E-03	-1.8627327E-03	
15	7.0926709E-03	-1.8452840E-03	
16	6.7256192E-03	-1.8246815E-03	
17	6.3630286E-03	-1.8006241E-03	
18	6.0056153E-03	-1.7728793E-03	
19	5.6541319E-03	-1.7413105E-03	
20	5.3093488E-03	-1.7058769E-03	
21	4.9720351E-03	-1.6666335E-03	
22	4.6429393E-03	-1.6237308E-03	
23	4.3227703E-03	-1.5774156E-03	
24	4.0121811E-03	-1.5279801E-03	
25	3.7117674E-03	-1.4757073E-03	
26	3.4220695E-03	-1.4208650E-03	
27	3.1435771E-03	-1.3637068E-03	
28	2.8767267E-03	-1.3044712E-03	
29	2.6219121E-03	-1.2433845E-03	
30	2.3794820E-03	-1.1806603E-03	
31	2.1497436E-03	-1.1165007E-03	
32	1.9329657E-03	-1.0510977E-03	
33	1.7293642E-03	-9.8481639E-04	
34	1.5390622E-03	-9.1818943E-04	
35	1.3620775E-03	-8.5172664E-04	
36	1.1983280E-03	-7.8591742E-04	
37	1.0476363E-03	-7.2123319E-04	
38	9.0973020E-04	-6.5812804E-04	
39	7.8425039E-04	-5.9704277E-04	
40	6.7074987E-04	-5.3840572E-04	
41	5.6869724E-04	-4.8263151E-04	
42	4.7748206E-04	-4.3008542E-04	
43	3.9642875E-04	-3.8105428E-04	
44	3.2481203E-04	-3.3574802E-04	
45	2.6187275E-04	-2.9429824E-04	
46	2.0683205E-04	-2.5676342E-04	
47	1.5890664E-04	-2.2313970E-04	
48	1.1731935E-04	-1.9336829E-04	
49	8.1309605E-05	-1.6734270E-04	
50	5.0142544E-05	-1.4491534E-04	
51	2.3115973E-05	-1.2590281E-04	
52	-4.3254217E-07	-1.1009111E-04	
53	-2.1117530E-05	-9.7241454E-05	
54	-3.9507882E-05	-8.7088970E-05	
55	-5.6114113E-05	-7.9351411E-05	
56	-7.1389401E-05	-7.3728172E-05	
57	-8.5725212E-05	-6.9902384E-05	
58	-9.9448055E-05	-6.7542110E-05	
59	-1.1281667E-04	-6.6301093E-05	
60	-1.2601909E-04	-6.5819065E-05	
61	-1.3917062E-04	-6.5722000E-05	



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1082 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:02:27  |
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New Project

STRESS RESULTS FOR GROUP NO. 1

0_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
 CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	2.055	-1.2434E-02	54.80	20.55	54.80	29.04	ACTIVE	0.000	0.000	0.000	1.000	1.000
20.55	0.000	0.000	Stratol_2_8_L_0									
2 D	2.898	-1.2048E-02	38.63	14.49	38.63	20.48	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
14.49	0.000	0.000	Stratol_2_8_L_0									
3 D	2.756	-1.1663E-02	36.74	13.78	36.74	19.47	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
13.78	0.000	0.000	Stratol_2_8_L_0									
4 D	3.662	-1.1278E-02	48.83	18.31	48.83	25.88	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
18.31	0.000	0.000	Stratol_2_8_L_0									
5 D	3.647	-1.0892E-02	48.63	18.24	48.63	25.77	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
18.24	0.000	0.000	Stratol_2_8_L_0									
6 D	4.279	-1.0508E-02	57.05	21.39	57.05	30.24	ACTIVE	0.000	-1.000	0.000	1.000	1.000
21.39	0.000	0.000	Stratol_2_8_L_0									
7 D	4.344	-1.0123E-02	57.92	21.72	57.92	30.70	ACTIVE	0.000	-1.200	0.000	1.000	1.000
21.72	0.000	0.000	Stratol_2_8_L_0									
8 D	4.869	-9.7391E-03	64.92	24.35	64.92	34.41	ACTIVE	0.000	-1.400	0.000	1.000	1.000
24.35	0.000	0.000	Stratol_2_8_L_0									
9 D	4.916	-9.3559E-03	65.55	24.58	65.55	34.74	ACTIVE	0.000	-1.600	0.000	1.000	1.000
24.58	0.000	0.000	Stratol_2_8_L_0									
10 D	5.392	-8.9739E-03	71.89	26.96	71.89	38.10	ACTIVE	0.000	-1.800	0.000	1.000	1.000
26.96	0.000	0.000	Stratol_2_8_L_0									
11 D	5.541	-8.5932E-03	73.88	27.70	73.88	39.16	ACTIVE	0.000	-2.000	0.000	1.000	1.000
27.70	0.000	0.000	Stratol_2_8_L_0									
12 D	5.980	-8.2143E-03	79.73	29.90	79.73	42.26	ACTIVE	0.000	-2.200	0.000	1.000	1.000
29.90	0.000	0.000	Stratol_2_8_L_0									
13 D	6.148	-7.8376E-03	81.98	30.74	81.98	43.45	ACTIVE	0.000	-2.400	0.000	1.000	1.000
30.74	0.000	0.000	Stratol_2_8_L_0									
14 D	6.562	-7.4635E-03	87.49	32.81	87.49	46.37	ACTIVE	0.000	-2.600	0.000	1.000	1.000
32.81	0.000	0.000	Stratol_2_8_L_0									
15 D	6.745	-7.0927E-03	89.93	33.73	89.93	47.67	ACTIVE	0.000	-2.800	0.000	1.000	1.000
33.73	0.000	0.000	Stratol_2_8_L_0									
16 D	7.104	-6.7256E-03	94.72	35.52	94.72	50.20	ACTIVE	0.000	-3.000	0.000	1.000	1.000
35.52	0.000	0.000	Stratol_2_8_L_0									
17 D	7.302	-6.3630E-03	97.35	36.51	97.35	51.60	ACTIVE	0.000	-3.200	0.000	1.000	1.000
36.51	0.000	0.000	Stratol_2_8_L_0									
18 D	7.685	-6.0056E-03	102.5	38.43	102.5	54.31	ACTIVE	0.000	-3.400	0.000	1.000	1.000
38.43	0.000	0.000	Stratol_2_8_L_0									
19 D	7.891	-5.6541E-03	105.2	39.46	105.2	55.77	ACTIVE	0.000	-3.600	0.000	1.000	1.000
39.46	0.000	0.000	Stratol_2_8_L_0									
20 D	8.264	-5.3093E-03	110.2	41.32	110.2	58.40	ACTIVE	0.000	-3.800	0.000	1.000	1.000
41.32	0.000	0.000	Stratol_2_8_L_0									
21 D	8.477	-4.9720E-03	113.0	42.39	113.0	59.91	ACTIVE	0.000	-4.000	0.000	1.000	1.000
42.39	0.000	0.000	Stratol_2_8_L_0									
22 D	8.841	-4.6429E-03	117.9	44.21	117.9	62.48	ACTIVE	0.000	-4.200	0.000	1.000	1.000
44.21	0.000	0.000	Stratol_2_8_L_0									
23 D	9.060	-4.3228E-03	120.8	45.30	120.8	64.03	ACTIVE	0.000	-4.400	0.000	1.000	1.000
45.30	0.000	0.000	Stratol_2_8_L_0									
24 D	9.393	-4.0122E-03	125.2	46.97	125.2	66.38	ACTIVE	0.000	-4.600	0.000	1.000	1.000
46.97	0.000	0.000	Stratol_2_8_L_0									
25 D	9.618	-3.7118E-03	128.2	48.09	128.2	67.97	ACTIVE	0.000	-4.800	0.000	1.000	1.000
48.09	0.000	0.000	Stratol_2_8_L_0									
26 D	9.970	-3.4221E-03	132.9	49.85	132.9	70.45	ACTIVE	0.000	-5.000	0.000	1.000	1.000
49.85	0.000	0.000	Stratol_2_8_L_0									
27 D	10.20	-3.1436E-03	136.0	51.00	136.0	72.08	ACTIVE	0.000	-5.200	0.000	1.000	1.000
51.00	0.000	0.000	Stratol_2_8_L_0									
28 D	10.55	-2.8767E-03	140.6	52.73	140.6	74.52	ACTIVE	0.000	-5.400	0.000	1.000	1.000
52.73	0.000	0.000	Stratol_2_8_L_0									
29 D	10.78	-2.6219E-03	143.7	53.89	143.7	76.17	ACTIVE	0.000	-5.600	0.000	1.000	1.000
53.89	0.000	0.000	Stratol_2_8_L_0									
30 D	11.12	-2.3795E-03	148.3	55.60	148.3	78.59	ACTIVE	0.000	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.				Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1083 di 1221
55.60	0.000	0.000	Strato1_2_8_L_0					
31 D	11.34	-2.1497E-03	151.2 56.69	151.2	80.13	ACTIVE	0.000	-6.000 0.000 1.000 1.000
56.69	0.000	0.000	Strato1_2_8_L_0					
32 D	5.842	-1.9330E-03	155.8 29.21	155.8	77.90	ACTIVE	0.000	-6.200 0.000 1.000 1.000
29.21	0.000	0.000	Strato2_3095_82743_L_0					
33 D	6.046	-1.7294E-03	159.2 30.23	159.2	79.60	ACTIVE	0.000	-6.400 0.000 1.000 1.000
30.23	0.000	0.000	Strato2_3095_82743_L_0					
34 D	6.326	-1.5391E-03	163.9 31.63	163.9	81.93	ACTIVE	0.000	-6.600 0.000 1.000 1.000
31.63	0.000	0.000	Strato2_3095_82743_L_0					
35 D	6.532	-1.3621E-03	167.3 32.66	167.3	83.65	ACTIVE	0.000	-6.800 0.000 1.000 1.000
32.66	0.000	0.000	Strato2_3095_82743_L_0					
36 D	6.810	-1.1983E-03	171.9 34.05	171.9	85.96	ACTIVE	0.000	-7.000 0.000 1.000 1.000
34.05	0.000	0.000	Strato2_3095_82743_L_0					
37 D	7.017	-1.0476E-03	175.4 35.09	175.4	87.69	ACTIVE	0.000	-7.200 0.000 1.000 1.000
35.09	0.000	0.000	Strato2_3095_82743_L_0					
38 D	7.293	-9.0973E-04	180.0 36.46	180.0	89.99	ACTIVE	0.000	-7.400 0.000 1.000 1.000
36.46	0.000	0.000	Strato2_3095_82743_L_0					
39 D	7.490	-7.8425E-04	183.3 37.45	183.3	91.63	ACTIVE	0.000	-7.600 0.000 1.000 1.000
37.45	0.000	0.000	Strato2_3095_82743_L_0					
40 D	7.914	-6.7075E-04	187.8 39.57	187.8	93.91	UL-RL	6.6201E+04	-7.800 0.000 1.000 1.000
39.57	0.000	0.000	Strato2_3095_82743_L_0					
41 D	9.688	-5.6870E-04	191.3 48.44	191.3	95.67	UL-RL	6.6201E+04	-8.000 0.000 1.000 1.000
48.44	0.000	0.000	Strato2_3095_82743_L_0					
42 D	11.41	-4.7748E-04	195.9 57.04	195.9	97.94	UL-RL	6.6201E+04	-8.200 0.000 1.000 1.000
57.04	0.000	0.000	Strato2_3095_82743_L_0					
43 D	12.89	-3.9643E-04	199.4 64.43	199.4	99.71	UL-RL	6.6201E+04	-8.400 0.000 1.000 1.000
64.43	0.000	0.000	Strato2_3095_82743_L_0					
44 D	14.33	-3.2481E-04	203.9 71.63	203.9	102.0	UL-RL	6.6201E+04	-8.600 0.000 1.000 1.000
71.63	0.000	0.000	Strato2_3095_82743_L_0					
45 D	15.55	-2.6187E-04	207.5 77.74	207.5	103.7	UL-RL	6.6201E+04	-8.800 0.000 1.000 1.000
77.74	0.000	0.000	Strato2_3095_82743_L_0					
46 D	16.74	-2.0683E-04	211.8 83.68	211.8	105.9	UL-RL	6.6201E+04	-9.000 0.000 1.000 1.000
83.68	0.000	0.000	Strato2_3095_82743_L_0					
47 D	17.75	-1.5891E-04	215.4 88.74	215.4	107.7	UL-RL	6.6201E+04	-9.200 0.000 1.000 1.000
88.74	0.000	0.000	Strato2_3095_82743_L_0					
48 D	18.76	-1.1732E-04	219.8 93.81	219.8	109.9	UL-RL	6.6201E+04	-9.400 0.000 1.000 1.000
93.81	0.000	0.000	Strato2_3095_82743_L_0					
49 D	19.61	-8.1310E-05	223.4 98.04	223.4	111.7	UL-RL	6.6201E+04	-9.600 0.000 1.000 1.000
98.04	0.000	0.000	Strato2_3095_82743_L_0					
50 D	20.47	-5.0143E-05	227.9 102.4	227.9	113.9	UL-RL	6.6201E+04	-9.800 0.000 1.000 1.000
102.4	0.000	0.000	Strato2_3095_82743_L_0					
51 D	21.19	-2.3116E-05	231.5 106.0	231.5	115.7	UL-RL	6.6201E+04	-10.00 0.000 1.000 1.000
106.0	0.000	0.000	Strato2_3095_82743_L_0					
52 D	21.95	4.3254E-07	235.9 109.8	235.9	118.0	UL-RL	6.6201E+04	-10.20 0.000 1.000 1.000
109.8	0.000	0.000	Strato2_3095_82743_L_0					
53 D	22.59	2.1118E-05	239.6 112.9	239.6	119.8	UL-RL	6.6201E+04	-10.40 0.000 1.000 1.000
112.9	0.000	0.000	Strato2_3095_82743_L_0					
54 D	23.25	3.9508E-05	243.8 116.3	243.8	121.9	UL-RL	6.6201E+04	-10.60 0.000 1.000 1.000
116.3	0.000	0.000	Strato2_3095_82743_L_0					
55 D	23.83	5.6114E-05	247.5 119.2	247.5	123.7	UL-RL	6.6201E+04	-10.80 0.000 1.000 1.000
119.2	0.000	0.000	Strato2_3095_82743_L_0					
56 D	24.47	7.1389E-05	251.9 122.4	251.9	125.9	UL-RL	6.6201E+04	-11.00 0.000 1.000 1.000
122.4	0.000	0.000	Strato2_3095_82743_L_0					
57 D	25.02	8.5725E-05	255.5 125.1	255.5	127.8	UL-RL	6.6201E+04	-11.20 0.000 1.000 1.000
125.1	0.000	0.000	Strato2_3095_82743_L_0					
58 D	25.64	9.9448E-05	259.9 128.2	259.9	130.0	UL-RL	6.6201E+04	-11.40 0.000 1.000 1.000
128.2	0.000	0.000	Strato2_3095_82743_L_0					
59 D	26.17	1.1282E-04	263.6 130.9	263.6	131.8	UL-RL	6.6201E+04	-11.60 0.000 1.000 1.000
130.9	0.000	0.000	Strato2_3095_82743_L_0					
60 D	26.78	1.2602E-04	267.9 133.9	267.9	134.0	UL-RL	6.6201E+04	-11.80 0.000 1.000 1.000
133.9	0.000	0.000	Strato2_3095_82743_L_0					
61 D	13.60	1.3917E-04	271.5 136.0	271.5	136.0	V-C	2.2067E+04	-12.00 0.000 1.000 1.000
136.0	0.000	0.000	Strato2_3095_82743_L_0					

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          NewProject.BaseDesignSection_28.A2M2R1_3514                                                                                   |
|          Exe Time :29 July 2019          18:02:27                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
 CURRENT TIME IS 3.0000

HARDENING 2D SOIL ELEMENT

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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1085 di 1221							
41 D	16.53	5.6870E-04	98.80	82.66	153.9	82.66	V-C	1.5155E+04	-8.000	0.000	1.000	1.000
82.66	0.000	0.000	Strato2_3095_82743_L_0									
42 D	16.65	4.7748E-04	102.8	83.23	157.9	83.23	V-C	1.5155E+04	-8.200	0.000	1.000	1.000
83.23	0.000	0.000	Strato2_3095_82743_L_0									
43 D	16.49	3.9643E-04	106.8	82.46	161.9	84.71	UL-RL	4.5465E+04	-8.400	0.000	1.000	1.000
82.46	0.000	0.000	Strato2_3095_82743_L_0									
44 D	16.26	3.2481E-04	110.8	81.28	165.9	86.62	UL-RL	4.5465E+04	-8.600	0.000	1.000	1.000
81.28	0.000	0.000	Strato2_3095_82743_L_0									
45 D	16.10	2.6187E-04	114.8	80.50	169.9	88.54	UL-RL	4.5465E+04	-8.800	0.000	1.000	1.000
80.50	0.000	0.000	Strato2_3095_82743_L_0									
46 D	16.01	2.0683E-04	118.8	80.07	173.9	90.48	UL-RL	4.5465E+04	-9.000	0.000	1.000	1.000
80.07	0.000	0.000	Strato2_3095_82743_L_0									
47 D	15.99	1.5891E-04	122.8	79.97	177.9	92.42	UL-RL	4.5465E+04	-9.200	0.000	1.000	1.000
79.97	0.000	0.000	Strato2_3095_82743_L_0									
48 D	16.03	1.1732E-04	126.8	80.15	181.9	94.38	UL-RL	4.5465E+04	-9.400	0.000	1.000	1.000
80.15	0.000	0.000	Strato2_3095_82743_L_0									
49 D	16.12	8.1310E-05	130.8	80.59	185.9	96.34	UL-RL	4.5465E+04	-9.600	0.000	1.000	1.000
80.59	0.000	0.000	Strato2_3095_82743_L_0									
50 D	16.25	5.0143E-05	134.8	81.24	189.9	98.31	UL-RL	4.5465E+04	-9.800	0.000	1.000	1.000
81.24	0.000	0.000	Strato2_3095_82743_L_0									
51 D	16.42	2.3116E-05	138.8	82.08	193.9	100.3	UL-RL	4.5465E+04	-10.000	0.000	1.000	1.000
82.08	0.000	0.000	Strato2_3095_82743_L_0									
52 D	16.61	-4.3254E-07	142.8	83.07	197.9	102.3	UL-RL	4.5465E+04	-10.200	0.000	1.000	1.000
83.07	0.000	0.000	Strato2_3095_82743_L_0									
53 D	16.84	-2.1118E-05	146.8	84.19	201.9	104.2	UL-RL	4.5465E+04	-10.400	0.000	1.000	1.000
84.19	0.000	0.000	Strato2_3095_82743_L_0									
54 D	17.08	-3.9508E-05	150.8	85.41	205.9	106.2	UL-RL	4.5465E+04	-10.600	0.000	1.000	1.000
85.41	0.000	0.000	Strato2_3095_82743_L_0									
55 D	17.34	-5.6114E-05	154.8	86.72	209.9	108.2	UL-RL	4.5465E+04	-10.800	0.000	1.000	1.000
86.72	0.000	0.000	Strato2_3095_82743_L_0									
56 D	17.62	-7.1389E-05	158.8	88.08	213.9	110.2	UL-RL	4.5465E+04	-11.000	0.000	1.000	1.000
88.08	0.000	0.000	Strato2_3095_82743_L_0									
57 D	17.90	-8.5725E-05	162.8	89.48	217.9	112.2	UL-RL	4.5465E+04	-11.200	0.000	1.000	1.000
89.48	0.000	0.000	Strato2_3095_82743_L_0									
58 D	18.18	-9.9448E-05	166.8	90.88	221.9	114.2	UL-RL	4.5465E+04	-11.400	0.000	1.000	1.000
90.88	0.000	0.000	Strato2_3095_82743_L_0									
59 D	18.46	-1.1282E-04	170.8	92.29	225.9	116.2	UL-RL	4.5465E+04	-11.600	0.000	1.000	1.000
92.29	0.000	0.000	Strato2_3095_82743_L_0									
60 D	18.74	-1.2602E-04	174.8	93.70	229.9	118.2	UL-RL	4.5465E+04	-11.800	0.000	1.000	1.000
93.70	0.000	0.000	Strato2_3095_82743_L_0									
61 D	9.512	-1.3917E-04	178.8	95.12	233.9	120.3	UL-RL	4.5465E+04	-12.000	0.000	1.000	1.000
95.12	0.000	0.000	Strato2_3095_82743_L_0									

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|
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      18:02:27
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60
 CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	2.0550	-2.0550	-1.33950E-10	0.41100
2	4.9525	-4.9525	-0.41100	1.4015
3	7.7081	-7.7081	-1.4015	2.9431
4	11.370	-11.370	-2.9431	5.2171
5	15.017	-15.017	-5.2171	8.2205
6	19.296	-19.296	-8.2205	12.080
7	23.640	-23.640	-12.080	16.808
8	28.509	-28.509	-16.808	22.509
9	33.425	-33.425	-22.509	29.194
10	38.817	-38.817	-29.194	36.958
11	44.358	-44.358	-36.958	45.829
12	50.337	-50.337	-45.829	55.897
13	56.486	-56.486	-55.897	67.194
14	63.047	-63.047	-67.194	79.803
15	69.792	-69.792	-79.803	93.762
16	75.742	-75.742	-93.762	108.91
17	79.580	-79.580	-108.91	124.83
18	81.493	-81.493	-124.83	141.13
19	81.304	-81.304	-141.13	157.39
20	79.178	-79.178	-157.39	173.22

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1086 di 1221
21	74.956	-74.956	-173.22	188.21	
22	68.790	-68.790	-188.21	201.97	
23	62.643	-62.643	-201.97	214.50	
24	56.874	-56.874	-214.50	225.87	
25	51.358	-51.358	-225.87	236.15	
26	46.208	-46.208	-236.15	245.39	
27	41.284	-41.284	-245.39	253.64	
28	36.688	-36.688	-253.64	260.98	
29	32.289	-32.289	-260.98	267.44	
30	28.177	-28.177	-267.44	273.07	
31	24.210	-24.210	-273.07	277.92	
32	12.772	-12.772	-277.92	280.47	
33	1.7891	-1.7891	-280.47	280.83	
34	-8.7043	8.7043	-280.83	279.09	
35	-18.826	18.826	-279.09	275.32	
36	-28.548	28.548	-275.32	269.61	
37	-37.981	37.981	-269.61	262.02	
38	-47.101	47.101	-262.02	252.60	
39	-56.025	56.025	-252.60	241.39	
40	-64.566	64.566	-241.39	228.48	
41	-71.411	71.411	-228.48	214.20	
42	-76.648	76.648	-214.20	198.87	
43	-80.254	80.254	-198.87	182.82	
44	-82.183	82.183	-182.82	166.38	
45	-82.734	82.734	-166.38	149.83	
46	-82.012	82.012	-149.83	133.43	
47	-80.257	80.257	-133.43	117.38	
48	-77.526	77.526	-117.38	101.87	
49	-74.036	74.036	-101.87	87.067	
50	-69.811	69.811	-87.067	73.105	
51	-65.032	65.032	-73.105	60.098	
52	-59.695	59.695	-60.098	48.160	
53	-53.947	53.947	-48.160	37.370	
54	-47.776	47.776	-37.370	27.815	
55	-41.285	41.285	-27.815	19.558	
56	-34.428	34.428	-19.558	12.672	
57	-27.303	27.303	-12.672	7.2118	
58	-19.843	19.843	-7.2118	3.2432	
59	-12.127	12.127	-3.2432	0.81768	
60	-4.0882	4.0882	-0.81768	1.72834E-12	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1087 di
1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:02:27  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1

CURRENT TIME IS 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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ITER      0  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.3716E+06  RIMNOR=0.3269E+07
            RENORM= 8234.      REMNOR=0.1341E-18  RATIO =0.1489      TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 90.74      RMMAX = 280.8
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT  =0.3716E+06  RDR  =0.3269E+07
            RATIOT=0.1489      RATOR= 0.000
            MAX UN=0.3216E-08  IEQ=   5 NODE      3 DOF   1  Y-DISPL.F
            MIN UN=-90.74      IEQ=  25 NODE     13 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

```

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ITER      2  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.3716E+06  RIMNOR=0.3269E+07
            RENORM= 14.95      REMNOR=0.9362E-19  RATIO =0.6344E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 90.74      RMMAX = 280.8
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT  =0.3716E+06  RDR  =0.3269E+07
            RATIOT=0.6344E-02  RATOR= 0.000
            MAX UN=0.9334E-09  IEQ=   41 NODE     21 DOF   1  Y-DISPL.F
            MIN UN=-1.654      IEQ=   3 NODE      2 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

```

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ITER      3  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.3716E+06  RIMNOR=0.3269E+07
            RENORM=0.5121      REMNOR=0.6274E-19  RATIO =0.1174E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 90.74      RMMAX = 280.8
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT  =0.3716E+06  RDR  =0.3269E+07
            RATIOT=0.1174E-02  RATOR= 0.000
            MAX UN=0.4676E-01  IEQ=   81 NODE     41 DOF   1  Y-DISPL.F
            MIN UN=-.5757      IEQ=   27 NODE     14 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM=0.3716E+06  RIMNOR=0.3269E+07
            RENORM=0.3907E-16  REMNOR=0.1117E-18  RATIO =0.1025E-10  TOLER =0.1000E-03  CONVERGED !
            RFMAX = 90.74      RMMAX = 280.8
            RTSMAL=0.1000E-03  RMSMAL=0.1000E-02
            RDT  =0.3716E+06  RDR  =0.3269E+07
            RATIOT=0.1025E-10  RATOR= 0.000
            MAX UN=0.2658E-08  IEQ=   3 NODE      2 DOF   1  Y-DISPL.F
            MIN UN=-.3113E-08  IEQ=   5 NODE      3 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1088 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019      18:02:27                             |
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New Project

SOLUTION REACHED USING 4 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 4 (AT TIME 4.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	1.1217615E-02	-1.7642928E-03	
2	1.0864762E-02	-1.7642076E-03	
3	1.0511953E-02	-1.7638196E-03	
4	1.0159272E-02	-1.7628695E-03	
5	9.8068609E-03	-1.7610773E-03	
6	9.4549176E-03	-1.7581384E-03	
7	9.1037033E-03	-1.7537321E-03	
8	8.7535452E-03	-1.7475192E-03	
9	8.4048397E-03	-1.7391448E-03	
10	8.0580561E-03	-1.7282396E-03	
11	7.7137381E-03	-1.7144209E-03	
12	7.3725085E-03	-1.6972900E-03	
13	7.0350706E-03	-1.6764329E-03	
14	6.7020688E-03	-1.6535745E-03	
15	6.3736602E-03	-1.6304251E-03	
16	6.0499487E-03	-1.6065258E-03	
17	5.7311311E-03	-1.5814079E-03	
18	5.4174975E-03	-1.5546110E-03	
19	5.1094247E-03	-1.5257433E-03	
20	4.8073567E-03	-1.4945272E-03	
21	4.5117814E-03	-1.4607985E-03	
22	4.2232082E-03	-1.4245069E-03	
23	3.9421453E-03	-1.3857150E-03	
24	3.6690805E-03	-1.3445476E-03	
25	3.4044758E-03	-1.3011364E-03	
26	3.1487668E-03	-1.2556132E-03	
27	2.9023638E-03	-1.2081101E-03	
28	2.6656473E-03	-1.1587581E-03	
29	2.4389750E-03	-1.1076890E-03	
30	2.2226774E-03	-1.0550338E-03	
31	2.0170585E-03	-1.0009237E-03	
32	1.8223971E-03	-9.4549003E-04	
33	1.6389331E-03	-8.8901173E-04	
34	1.4668337E-03	-8.3191474E-04	
35	1.3061802E-03	-7.7462267E-04	
36	1.1569695E-03	-7.1755700E-04	
37	1.0191150E-03	-6.6113752E-04	
38	8.9244432E-04	-6.0578136E-04	
39	7.7670381E-04	-5.5190499E-04	
40	6.7155600E-04	-4.9992359E-04	
41	5.7658064E-04	-4.5024810E-04	
42	4.9127846E-04	-4.0324713E-04	
43	4.1508381E-04	-3.5921591E-04	
44	3.4737910E-04	-3.1837958E-04	
45	2.8750905E-04	-2.8089158E-04	
46	2.3479394E-04	-2.4683598E-04	
47	1.8854419E-04	-2.1623732E-04	
48	1.4807044E-04	-1.8906735E-04	
49	1.1269364E-04	-1.6525160E-04	
50	8.1753980E-05	-1.4467540E-04	
51	5.4617664E-05	-1.2718879E-04	
52	3.0683942E-05	-1.1261124E-04	
53	9.3933773E-06	-1.0073705E-04	
54	-9.7745508E-06	-9.1334175E-05	
55	-2.7288356E-05	-8.4152239E-05	
56	-4.3565539E-05	-7.8921687E-05	
57	-5.8968001E-05	-7.5355688E-05	
58	-7.3798584E-05	-7.3151242E-05	
59	-8.8298036E-05	-7.1989877E-05	
60	-1.0264183E-04	-7.1537926E-05	
61	-1.1693797E-04	-7.1446755E-05	



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1089 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      18:02:27          |
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New Project

STRESS RESULTS FOR GROUP NO. 1

O_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
 CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	3.588	-1.1218E-02	54.80	35.88	54.80	35.88	V-C	7951.	0.000	0.000	1.000	1.000
35.88	0.000	0.000	Stratol_2_8_L_0									
2 D	5.578	-1.0865E-02	38.63	27.89	38.63	27.89	V-C	7951.	-0.2000	0.000	1.000	1.000
27.89	0.000	0.000	Stratol_2_8_L_0									
3 D	5.345	-1.0512E-02	36.74	26.73	36.74	26.73	V-C	7951.	-0.4000	0.000	1.000	1.000
26.73	0.000	0.000	Stratol_2_8_L_0									
4 D	6.449	-1.0159E-02	48.83	32.25	48.83	32.25	V-C	7951.	-0.6000	0.000	1.000	1.000
32.25	0.000	0.000	Stratol_2_8_L_0									
5 D	6.378	-9.8069E-03	48.63	31.89	48.63	31.89	V-C	7951.	-0.8000	0.000	1.000	1.000
31.89	0.000	0.000	Stratol_2_8_L_0									
6 D	7.132	-9.4549E-03	57.05	35.66	57.05	35.66	V-C	7951.	-1.000	0.000	1.000	1.000
35.66	0.000	0.000	Stratol_2_8_L_0									
7 D	7.162	-9.1037E-03	57.92	35.81	57.92	35.81	V-C	7951.	-1.200	0.000	1.000	1.000
35.81	0.000	0.000	Stratol_2_8_L_0									
8 D	7.778	-8.7535E-03	64.92	38.89	64.92	38.89	V-C	7951.	-1.400	0.000	1.000	1.000
38.89	0.000	0.000	Stratol_2_8_L_0									
9 D	7.783	-8.4048E-03	65.55	38.92	65.55	38.92	V-C	7951.	-1.600	0.000	1.000	1.000
38.92	0.000	0.000	Stratol_2_8_L_0									
10 D	8.334	-8.0581E-03	71.89	41.67	71.89	41.67	V-C	7951.	-1.800	0.000	1.000	1.000
41.67	0.000	0.000	Stratol_2_8_L_0									
11 D	8.466	-7.7137E-03	73.88	42.33	73.88	42.33	V-C	7951.	-2.000	0.000	1.000	1.000
42.33	0.000	0.000	Stratol_2_8_L_0									
12 D	8.966	-7.3725E-03	79.73	44.83	79.73	44.83	V-C	7951.	-2.200	0.000	1.000	1.000
44.83	0.000	0.000	Stratol_2_8_L_0									
13 D	9.119	-7.0351E-03	81.98	45.59	81.98	45.59	V-C	7951.	-2.400	0.000	1.000	1.000
45.59	0.000	0.000	Stratol_2_8_L_0									
14 D	9.581	-6.7021E-03	87.49	47.90	87.49	47.90	V-C	7951.	-2.600	0.000	1.000	1.000
47.90	0.000	0.000	Stratol_2_8_L_0									
15 D	9.747	-6.3737E-03	89.93	48.74	89.93	48.74	V-C	7951.	-2.800	0.000	1.000	1.000
48.74	0.000	0.000	Stratol_2_8_L_0									
16 D	10.14	-6.0499E-03	94.72	50.68	94.72	50.68	V-C	7951.	-3.000	0.000	1.000	1.000
50.68	0.000	0.000	Stratol_2_8_L_0									
17 D	10.32	-5.7311E-03	97.35	51.58	97.35	51.60	UL-RL	2.3853E+04	-3.200	0.000	1.000	1.000
51.58	0.000	0.000	Stratol_2_8_L_0									
18 D	10.49	-5.4175E-03	102.5	52.46	102.5	54.31	UL-RL	2.3853E+04	-3.400	0.000	1.000	1.000
52.46	0.000	0.000	Stratol_2_8_L_0									
19 D	10.49	-5.1094E-03	105.2	52.45	105.2	55.77	UL-RL	2.3853E+04	-3.600	0.000	1.000	1.000
52.45	0.000	0.000	Stratol_2_8_L_0									
20 D	10.66	-4.8074E-03	110.2	53.29	110.2	58.40	UL-RL	2.3853E+04	-3.800	0.000	1.000	1.000
53.29	0.000	0.000	Stratol_2_8_L_0									
21 D	10.67	-4.5118E-03	113.0	53.36	113.0	59.91	UL-RL	2.3853E+04	-4.000	0.000	1.000	1.000
53.36	0.000	0.000	Stratol_2_8_L_0									
22 D	10.84	-4.2232E-03	117.9	54.22	117.9	62.48	UL-RL	2.3853E+04	-4.200	0.000	1.000	1.000
54.22	0.000	0.000	Stratol_2_8_L_0									
23 D	10.88	-3.9421E-03	120.8	54.38	120.8	64.03	UL-RL	2.3853E+04	-4.400	0.000	1.000	1.000
54.38	0.000	0.000	Stratol_2_8_L_0									
24 D	11.03	-3.6691E-03	125.2	55.15	125.2	66.38	UL-RL	2.3853E+04	-4.600	0.000	1.000	1.000
55.15	0.000	0.000	Stratol_2_8_L_0									
25 D	11.08	-3.4045E-03	128.2	55.42	128.2	67.97	UL-RL	2.3853E+04	-4.800	0.000	1.000	1.000
55.42	0.000	0.000	Stratol_2_8_L_0									
26 D	11.27	-3.1488E-03	132.9	56.37	132.9	70.45	UL-RL	2.3853E+04	-5.000	0.000	1.000	1.000
56.37	0.000	0.000	Stratol_2_8_L_0									
27 D	11.35	-2.9024E-03	136.0	56.75	136.0	72.08	UL-RL	2.3853E+04	-5.200	0.000	1.000	1.000
56.75	0.000	0.000	Stratol_2_8_L_0									
28 D	11.55	-2.6656E-03	140.6	57.76	140.6	74.52	UL-RL	2.3853E+04	-5.400	0.000	1.000	1.000
57.76	0.000	0.000	Stratol_2_8_L_0									
29 D	11.65	-2.4390E-03	143.7	58.26	143.7	76.17	UL-RL	2.3853E+04	-5.600	0.000	1.000	1.000
58.26	0.000	0.000	Stratol_2_8_L_0									
30 D	11.87	-2.2227E-03	148.3	59.34	148.3	78.59	UL-RL	2.3853E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1090 di 1221
59.34	0.000	0.000	Strato1_2_8_L_0		
31 D	11.97	-2.0171E-03	151.2 59.86	151.2	80.13
59.86	0.000	0.000	Strato1_2_8_L_0		
32 D	7.306	-1.8224E-03	155.8 36.53	155.8	77.90
36.53	0.000	0.000	Strato2_3095_82743_L_0		
33 D	7.243	-1.6389E-03	159.2 36.22	159.2	79.60
36.22	0.000	0.000	Strato2_3095_82743_L_0		
34 D	7.283	-1.4668E-03	163.9 36.41	163.9	81.93
36.41	0.000	0.000	Strato2_3095_82743_L_0		
35 D	7.272	-1.3062E-03	167.3 36.36	167.3	83.65
36.36	0.000	0.000	Strato2_3095_82743_L_0		
36 D	7.357	-1.1570E-03	171.9 36.79	171.9	85.96
36.79	0.000	0.000	Strato2_3095_82743_L_0		
37 D	7.395	-1.0191E-03	175.4 36.97	175.4	87.69
36.97	0.000	0.000	Strato2_3095_82743_L_0		
38 D	7.522	-8.9244E-04	180.0 37.61	180.0	89.99
37.61	0.000	0.000	Strato2_3095_82743_L_0		
39 D	7.590	-7.7670E-04	183.3 37.95	183.3	91.63
37.95	0.000	0.000	Strato2_3095_82743_L_0		
40 D	7.904	-6.7156E-04	187.8 39.52	187.8	93.91
39.52	0.000	0.000	Strato2_3095_82743_L_0		
41 D	9.583	-5.7658E-04	191.3 47.92	191.3	95.67
47.92	0.000	0.000	Strato2_3095_82743_L_0		
42 D	11.23	-4.9128E-04	195.9 56.13	195.9	97.94
56.13	0.000	0.000	Strato2_3095_82743_L_0		
43 D	12.64	-4.1508E-04	199.4 63.19	199.4	99.71
63.19	0.000	0.000	Strato2_3095_82743_L_0		
44 D	14.03	-3.4738E-04	203.9 70.14	203.9	102.0
70.14	0.000	0.000	Strato2_3095_82743_L_0		
45 D	15.21	-2.8751E-04	207.5 76.05	207.5	103.7
76.05	0.000	0.000	Strato2_3095_82743_L_0		
46 D	16.37	-2.3479E-04	211.8 81.83	211.8	105.9
81.83	0.000	0.000	Strato2_3095_82743_L_0		
47 D	17.36	-1.8854E-04	215.4 86.78	215.4	107.7
86.78	0.000	0.000	Strato2_3095_82743_L_0		
48 D	18.35	-1.4807E-04	219.8 91.77	219.8	109.9
91.77	0.000	0.000	Strato2_3095_82743_L_0		
49 D	19.19	-1.1269E-04	223.4 95.96	223.4	111.7
95.96	0.000	0.000	Strato2_3095_82743_L_0		
50 D	20.05	-8.1754E-05	227.9 100.3	227.9	113.9
100.3	0.000	0.000	Strato2_3095_82743_L_0		
51 D	20.78	-5.4618E-05	231.5 103.9	231.5	115.7
103.9	0.000	0.000	Strato2_3095_82743_L_0		
52 D	21.54	-3.0684E-05	235.9 107.7	235.9	118.0
107.7	0.000	0.000	Strato2_3095_82743_L_0		
53 D	22.18	-9.3934E-06	239.6 110.9	239.6	119.8
110.9	0.000	0.000	Strato2_3095_82743_L_0		
54 D	22.86	9.7746E-06	243.8 114.3	243.8	121.9
114.3	0.000	0.000	Strato2_3095_82743_L_0		
55 D	23.45	2.7288E-05	247.5 117.3	247.5	123.7
117.3	0.000	0.000	Strato2_3095_82743_L_0		
56 D	24.10	4.3566E-05	251.9 120.5	251.9	125.9
120.5	0.000	0.000	Strato2_3095_82743_L_0		
57 D	24.67	5.8968E-05	255.5 123.3	255.5	127.8
123.3	0.000	0.000	Strato2_3095_82743_L_0		
58 D	25.30	7.3799E-05	259.9 126.5	259.9	130.0
126.5	0.000	0.000	Strato2_3095_82743_L_0		
59 D	25.85	8.8298E-05	263.6 129.2	263.6	131.8
129.2	0.000	0.000	Strato2_3095_82743_L_0		
60 D	26.47	1.0264E-04	267.9 132.3	267.9	134.0
132.3	0.000	0.000	Strato2_3095_82743_L_0		
61 D	13.45	1.1694E-04	271.5 134.5	271.5	136.0
134.5	0.000	0.000	Strato2_3095_82743_L_0		

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|
|          Exe Time :29 July 2019      18:02:27
|
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New Project

STRESS RESULTS FOR GROUP NO. 2

O_R :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
 CURRENT TIME IS 4.0000

HARDENING 2D SOIL ELEMENT

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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1092 di 1221
41 D	16.56	5.7658E-04	98.80	82.78	153.9
82.78	0.000	0.000	Strato2_3095_82743_L_0	82.78	V-C
42 D	16.69	4.9128E-04	102.8	83.44	157.9
83.44	0.000	0.000	Strato2_3095_82743_L_0	83.44	V-C
43 D	16.66	4.1508E-04	106.8	83.30	161.9
83.30	0.000	0.000	Strato2_3095_82743_L_0	84.71	UL-RL
44 D	16.46	3.4738E-04	110.8	82.31	165.9
82.31	0.000	0.000	Strato2_3095_82743_L_0	86.62	UL-RL
45 D	16.33	2.8751E-04	114.8	81.66	169.9
81.66	0.000	0.000	Strato2_3095_82743_L_0	88.54	UL-RL
46 D	16.27	2.3479E-04	118.8	81.34	173.9
81.34	0.000	0.000	Strato2_3095_82743_L_0	90.48	UL-RL
47 D	16.26	1.8854E-04	122.8	81.32	177.9
81.32	0.000	0.000	Strato2_3095_82743_L_0	92.42	UL-RL
48 D	16.31	1.4807E-04	126.8	81.55	181.9
81.55	0.000	0.000	Strato2_3095_82743_L_0	94.38	UL-RL
49 D	16.40	1.1269E-04	130.8	82.01	185.9
82.01	0.000	0.000	Strato2_3095_82743_L_0	96.34	UL-RL
50 D	16.54	8.1754E-05	134.8	82.68	189.9
82.68	0.000	0.000	Strato2_3095_82743_L_0	98.31	UL-RL
51 D	16.70	5.4618E-05	138.8	83.51	193.9
83.51	0.000	0.000	Strato2_3095_82743_L_0	100.3	UL-RL
52 D	16.90	3.0684E-05	142.8	84.48	197.9
84.48	0.000	0.000	Strato2_3095_82743_L_0	102.3	UL-RL
53 D	17.12	9.3934E-06	146.8	85.58	201.9
85.58	0.000	0.000	Strato2_3095_82743_L_0	104.2	UL-RL
54 D	17.35	-9.7746E-06	150.8	86.77	205.9
86.77	0.000	0.000	Strato2_3095_82743_L_0	106.2	UL-RL
55 D	17.61	-2.7288E-05	154.8	88.03	209.9
88.03	0.000	0.000	Strato2_3095_82743_L_0	108.2	UL-RL
56 D	17.87	-4.3566E-05	158.8	89.34	213.9
89.34	0.000	0.000	Strato2_3095_82743_L_0	110.2	UL-RL
57 D	18.14	-5.8968E-05	162.8	90.69	217.9
90.69	0.000	0.000	Strato2_3095_82743_L_0	112.2	UL-RL
58 D	18.41	-7.3799E-05	166.8	92.05	221.9
92.05	0.000	0.000	Strato2_3095_82743_L_0	114.2	UL-RL
59 D	18.68	-8.8298E-05	170.8	93.40	225.9
93.40	0.000	0.000	Strato2_3095_82743_L_0	116.2	UL-RL
60 D	18.95	-1.0264E-04	174.8	94.76	229.9
94.76	0.000	0.000	Strato2_3095_82743_L_0	118.2	UL-RL
61 D	9.613	-1.1694E-04	178.8	96.13	233.9
96.13	0.000	0.000	Strato2_3095_82743_L_0	120.3	UL-RL

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               NewProject.BaseDesignSection_28.A2M2R1_3514                       |
|                               Exe Time :29 July 2019      18:02:27                             |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60
CURRENT TIME IS 4.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	3.5882	-3.5882	9.27913E-11	0.71764
2	9.1663	-9.1663	-0.71764	2.5509
3	14.512	-14.512	-2.5509	5.4532
4	20.961	-20.961	-5.4532	9.6454
5	27.339	-27.339	-9.6454	15.113
6	34.471	-34.471	-15.113	22.007
7	41.633	-41.633	-22.007	30.334
8	49.411	-49.411	-30.334	40.216
9	57.194	-57.194	-40.216	51.655
10	65.528	-65.528	-51.655	64.760
11	73.994	-73.994	-64.760	79.559
12	82.960	-82.960	-79.559	96.151
13	1.3396	-1.3396	-96.151	96.419
14	10.920	-10.920	-96.419	98.603
15	20.667	-20.667	-98.603	102.74
16	30.661	-30.661	-102.74	108.87
17	40.065	-40.065	-108.87	116.88
18	47.159	-47.159	-116.88	126.31
19	51.767	-51.767	-126.31	136.67
20	54.063	-54.063	-136.67	147.48

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1093 di 1221
21	53.896	-53.896	-147.48	158.26	
22	51.426	-51.426	-158.26	168.54	
23	48.632	-48.632	-168.54	178.27	
24	45.885	-45.885	-178.27	187.45	
25	43.076	-43.076	-187.45	196.06	
26	40.333	-40.333	-196.06	204.13	
27	37.535	-37.535	-204.13	211.64	
28	34.798	-34.798	-211.64	218.60	
29	32.010	-32.010	-218.60	225.00	
30	29.279	-29.279	-225.00	230.85	
31	26.481	-26.481	-230.85	236.15	
32	17.512	-17.512	-236.15	239.65	
33	8.5489	-8.5489	-239.65	241.36	
34	-0.33140	0.33140	-241.36	241.30	
35	-9.2049	9.2049	-241.30	239.45	
36	-18.003	18.003	-239.45	235.85	
37	-26.799	26.799	-235.85	230.49	
38	-35.533	35.533	-230.49	223.39	
39	-44.288	44.288	-223.39	214.53	
40	-52.842	52.842	-214.53	203.96	
41	-59.816	59.816	-203.96	192.00	
42	-65.277	65.277	-192.00	178.94	
43	-69.300	69.300	-178.94	165.08	
44	-71.733	71.733	-165.08	150.74	
45	-72.856	72.856	-150.74	136.17	
46	-72.759	72.759	-136.17	121.61	
47	-71.666	71.666	-121.61	107.28	
48	-69.622	69.622	-107.28	93.356	
49	-66.832	66.832	-93.356	79.989	
50	-63.314	63.314	-79.989	67.327	
51	-59.238	59.238	-67.327	55.479	
52	-54.596	54.596	-55.479	44.560	
53	-49.530	49.530	-44.560	34.654	
54	-44.022	44.022	-34.654	25.850	
55	-38.175	38.175	-25.850	18.215	
56	-31.940	31.940	-18.215	11.827	
57	-25.412	25.412	-11.827	6.7445	
58	-18.525	18.525	-6.7445	3.0394	
59	-11.357	11.357	-3.0394	0.76803	
60	-3.8400	3.8400	-0.76803	6.17895E-13	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1094 di
1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|          |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  18:02:27  |
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New Project

STRESS RESULTS FOR GROUP NO. 4

Tirante1_429 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 4.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	93.940	-7.75160E-04	-7.75160E-04	0.0000	0.0000	0.0000	0.0000	BORN NOW JUST ACTIVATED

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2749E+06 RIMNOR=0.2517E+07
RENORM= 2859. REMNOR=0.1117E-18 RATIO =0.1020 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 90.74 RMMAX = 241.4
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.2749E+06 RDR =0.2517E+07
RATIOT=0.1020 RATOR= 0.000
MAX UN= 14.77 IEQ= 61 NODE 31 DOF 1 Y-DISPL.F
MIN UN=-.3113E-08 IEQ= 5 NODE 3 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2749E+06 RIMNOR=0.2517E+07
RENORM= 447.0 REMNOR=0.1981E-18 RATIO =0.4033E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 90.74 RMMAX = 241.4
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.2749E+06 RDR =0.2517E+07
RATIOT=0.4033E-01 RATOR= 0.000
MAX UN= 7.194 IEQ= 63 NODE 32 DOF 1 Y-DISPL.F
MIN UN=-.3150E-08 IEQ= 9 NODE 5 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2749E+06 RIMNOR=0.2517E+07
RENORM= 65.32 REMNOR=0.1392E-18 RATIO =0.1542E-01 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 90.74 RMMAX = 241.4
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.2749E+06 RDR =0.2517E+07
RATIOT=0.1542E-01 RATOR= 0.000
MAX UN= 2.987 IEQ= 87 NODE 44 DOF 1 Y-DISPL.F
MIN UN=-.1741 IEQ= 121 NODE 61 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2749E+06 RIMNOR=0.2517E+07
RENORM= 26.69 REMNOR=0.6693E-18 RATIO =0.9854E-02 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 90.74 RMMAX = 241.4
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.2749E+06 RDR =0.2517E+07
RATIOT=0.9854E-02 RATOR= 0.000
MAX UN= 4.327 IEQ= 91 NODE 46 DOF 1 Y-DISPL.F
MIN UN=-1.419 IEQ= 117 NODE 59 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
RINORM=0.2749E+06 RIMNOR=0.2517E+07
RENORM=0.2949E-01 REMNOR=0.3560E-18 RATIO =0.3276E-03 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 90.74 RMMAX = 241.4
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT =0.2749E+06 RDR =0.2517E+07
RATIOT=0.3276E-03 RATOR= 0.000
MAX UN=0.1717 IEQ= 95 NODE 48 DOF 1 Y-DISPL.F
MIN UN=-.3164E-08 IEQ= 37 NODE 19 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1095 di 1221
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RINORM=0.2749E+06 RIMNOR=0.2517E+07
RENORM=0.1368E-04 REMNOR=0.3442E-18 RATIO =0.7054E-05 TOLER =0.1000E-03      CONVERGED !
RFMAX = 90.74      RMMAX = 241.4
RTSMAL=0.1000E-03 RMSMAL=0.1000E-02
RDT      =0.2749E+06 RDR      =0.2517E+07
RATIOT=0.7054E-05 RATIOOR= 0.000
MAX UN=0.4446E-08 IEQ=      11 NODE      6 DOF      1 Y-DISPL.F
MIN UN=-.2504E-02 IEQ=     115 NODE     58 DOF      1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
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|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      18:02:27  |
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New Project
SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 5 (AT TIME 5.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	1.8808650E-02	-2.1052720E-03	
2	1.8387599E-02	-2.1052232E-03	
3	1.7966572E-02	-2.1050080E-03	
4	1.7545616E-02	-2.1044923E-03	
5	1.7124805E-02	-2.1035237E-03	
6	1.6704248E-02	-2.1019286E-03	
7	1.6284088E-02	-2.0995190E-03	
8	1.5864508E-02	-2.0960900E-03	
9	1.5445735E-02	-2.0914230E-03	
10	1.5028037E-02	-2.0852857E-03	
11	1.4611735E-02	-2.0774333E-03	
12	1.4197196E-02	-2.0676064E-03	
13	1.3784842E-02	-2.0555314E-03	
14	1.3374982E-02	-2.0434682E-03	
15	1.2967304E-02	-2.0336630E-03	
16	1.2561388E-02	-2.0258000E-03	
17	1.2156877E-02	-2.0195502E-03	
18	1.1753483E-02	-2.0145717E-03	
19	1.1350987E-02	-2.0105088E-03	
20	1.0949243E-02	-2.0069916E-03	
21	1.0548179E-02	-2.0036366E-03	
22	1.0147804E-02	-2.0000463E-03	
23	9.7482040E-03	-1.9958096E-03	
24	9.3495515E-03	-1.9905015E-03	
25	8.9521040E-03	-1.9836840E-03	
26	8.5562086E-03	-1.9749057E-03	
27	8.1623054E-03	-1.9637016E-03	
28	7.7709236E-03	-1.9495929E-03	
29	7.3826948E-03	-1.9320870E-03	
30	6.9983490E-03	-1.9106777E-03	
31	6.6187186E-03	-1.8848451E-03	
32	6.2447432E-03	-1.8540562E-03	
33	5.8774325E-03	-1.8182496E-03	
34	5.5177453E-03	-1.7779143E-03	
35	5.1665273E-03	-1.7336719E-03	
36	4.8244924E-03	-1.6861917E-03	
37	4.4922252E-03	-1.6361174E-03	
38	4.1701788E-03	-1.5840674E-03	
39	3.8586902E-03	-1.5306373E-03	
40	3.5579777E-03	-1.4763999E-03	
41	3.2681472E-03	-1.4219076E-03	
42	2.9891962E-03	-1.3676927E-03	
43	2.7210174E-03	-1.3142696E-03	
44	2.4634024E-03	-1.2621355E-03	
45	2.2160463E-03	-1.2117724E-03	
46	1.9785455E-03	-1.1636473E-03	
47	1.7504079E-03	-1.1182153E-03	
48	1.5310503E-03	-1.0759194E-03	
49	1.3198029E-03	-1.0371823E-03	
50	1.1159179E-03	-1.0023537E-03	
51	9.1858651E-04	-9.7166383E-04	
52	7.2696410E-04	-9.4522597E-04	
53	5.4021689E-04	-9.2304385E-04	
54	3.5747950E-04	-9.0500815E-04	
55	1.7795114E-04	-8.9090975E-04	
56	8.7387489E-07	-8.8043720E-04	



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1096 di 1221
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57 -1.7443808E-04 -8.7317980E-04
 58 -3.4857850E-04 -8.6862920E-04
 59 -5.2203100E-04 -8.6619724E-04
 60 -6.9515541E-04 -8.6523545E-04
 61 -8.6818476E-04 -8.6503752E-04

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          NewProject.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      18:02:27
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New Project

STRESS RESULTS FOR GROUP NO. 1

O_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 61
 CURRENT TIME IS 5.0000

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 FACTOR	UFACTOR
Peg	Su_a	Su_p	LAYER									
1 D	2.055	-1.8809E-02	54.80	20.55	54.80	35.88	ACTIVE	0.000	0.000	0.000	1.000	1.000
20.55	0.000	0.000	Strato1_2_8_L_0									
2 D	2.898	-1.8388E-02	38.63	14.49	38.63	27.89	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
14.49	0.000	0.000	Strato1_2_8_L_0									
3 D	2.756	-1.7967E-02	36.74	13.78	36.74	26.73	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
13.78	0.000	0.000	Strato1_2_8_L_0									
4 D	3.662	-1.7546E-02	48.83	18.31	48.83	32.25	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
18.31	0.000	0.000	Strato1_2_8_L_0									
5 D	3.647	-1.7125E-02	48.63	18.24	48.63	31.89	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
18.24	0.000	0.000	Strato1_2_8_L_0									
6 D	4.279	-1.6704E-02	57.05	21.39	57.05	35.66	ACTIVE	0.000	-1.000	0.000	1.000	1.000
21.39	0.000	0.000	Strato1_2_8_L_0									
7 D	4.344	-1.6284E-02	57.92	21.72	57.92	35.81	ACTIVE	0.000	-1.200	0.000	1.000	1.000
21.72	0.000	0.000	Strato1_2_8_L_0									
8 D	4.869	-1.5865E-02	64.92	24.35	64.92	38.89	ACTIVE	0.000	-1.400	0.000	1.000	1.000
24.35	0.000	0.000	Strato1_2_8_L_0									
9 D	4.916	-1.5446E-02	65.55	24.58	65.55	38.92	ACTIVE	0.000	-1.600	0.000	1.000	1.000
24.58	0.000	0.000	Strato1_2_8_L_0									
10 D	5.392	-1.5028E-02	71.89	26.96	71.89	41.67	ACTIVE	0.000	-1.800	0.000	1.000	1.000
26.96	0.000	0.000	Strato1_2_8_L_0									
11 D	5.541	-1.4612E-02	73.88	27.70	73.88	42.33	ACTIVE	0.000	-2.000	0.000	1.000	1.000
27.70	0.000	0.000	Strato1_2_8_L_0									
12 D	5.980	-1.4197E-02	79.73	29.90	79.73	44.83	ACTIVE	0.000	-2.200	0.000	1.000	1.000
29.90	0.000	0.000	Strato1_2_8_L_0									
13 D	6.148	-1.3785E-02	81.98	30.74	81.98	45.59	ACTIVE	0.000	-2.400	0.000	1.000	1.000
30.74	0.000	0.000	Strato1_2_8_L_0									
14 D	6.562	-1.3375E-02	87.49	32.81	87.49	47.90	ACTIVE	0.000	-2.600	0.000	1.000	1.000
32.81	0.000	0.000	Strato1_2_8_L_0									
15 D	6.745	-1.2967E-02	89.93	33.73	89.93	48.74	ACTIVE	0.000	-2.800	0.000	1.000	1.000
33.73	0.000	0.000	Strato1_2_8_L_0									
16 D	7.104	-1.2561E-02	94.72	35.52	94.72	50.68	ACTIVE	0.000	-3.000	0.000	1.000	1.000
35.52	0.000	0.000	Strato1_2_8_L_0									
17 D	7.302	-1.2157E-02	97.35	36.51	97.35	51.60	ACTIVE	0.000	-3.200	0.000	1.000	1.000
36.51	0.000	0.000	Strato1_2_8_L_0									
18 D	7.685	-1.1753E-02	102.5	38.43	102.5	54.31	ACTIVE	0.000	-3.400	0.000	1.000	1.000
38.43	0.000	0.000	Strato1_2_8_L_0									
19 D	7.891	-1.1351E-02	105.2	39.46	105.2	55.77	ACTIVE	0.000	-3.600	0.000	1.000	1.000
39.46	0.000	0.000	Strato1_2_8_L_0									
20 D	8.264	-1.0949E-02	110.2	41.32	110.2	58.40	ACTIVE	0.000	-3.800	0.000	1.000	1.000
41.32	0.000	0.000	Strato1_2_8_L_0									
21 D	8.477	-1.0548E-02	113.0	42.39	113.0	59.91	ACTIVE	0.000	-4.000	0.000	1.000	1.000
42.39	0.000	0.000	Strato1_2_8_L_0									
22 D	8.841	-1.0148E-02	117.9	44.21	117.9	62.48	ACTIVE	0.000	-4.200	0.000	1.000	1.000
44.21	0.000	0.000	Strato1_2_8_L_0									
23 D	9.060	-9.7482E-03	120.8	45.30	120.8	64.03	ACTIVE	0.000	-4.400	0.000	1.000	1.000
45.30	0.000	0.000	Strato1_2_8_L_0									
24 D	9.393	-9.3496E-03	125.2	46.97	125.2	66.38	ACTIVE	0.000	-4.600	0.000	1.000	1.000
46.97	0.000	0.000	Strato1_2_8_L_0									
25 D	9.618	-8.9521E-03	128.2	48.09	128.2	67.97	ACTIVE	0.000	-4.800	0.000	1.000	1.000
48.09	0.000	0.000	Strato1_2_8_L_0									
26 D	9.970	-8.5562E-03	132.9	49.85	132.9	70.45	ACTIVE	0.000	-5.000	0.000	1.000	1.000
49.85	0.000	0.000	Strato1_2_8_L_0									
27 D	10.20	-8.1623E-03	136.0	51.00	136.0	72.08	ACTIVE	0.000	-5.200	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.					Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1097 di 1221			
51.00	0.000	0.000	Strato1_2_8_L_0									
28 D	10.55	-7.7709E-03	140.6	52.73	140.6	74.52	ACTIVE	0.000	-5.400	0.000	1.000	1.000
52.73	0.000	0.000	Strato1_2_8_L_0									
29 D	10.78	-7.3827E-03	143.7	53.89	143.7	76.17	ACTIVE	0.000	-5.600	0.000	1.000	1.000
53.89	0.000	0.000	Strato1_2_8_L_0									
30 D	11.12	-6.9983E-03	148.3	55.60	148.3	78.59	ACTIVE	0.000	-5.800	0.000	1.000	1.000
55.60	0.000	0.000	Strato1_2_8_L_0									
31 D	11.34	-6.6187E-03	151.2	56.69	151.2	80.13	ACTIVE	0.000	-6.000	0.000	1.000	1.000
56.69	0.000	0.000	Strato1_2_8_L_0									
32 D	5.842	-6.2447E-03	155.8	29.21	155.8	77.90	ACTIVE	0.000	-6.200	0.000	1.000	1.000
29.21	0.000	0.000	Strato2_3095_82743_L_0									
33 D	6.046	-5.8774E-03	159.2	30.23	159.2	79.60	ACTIVE	0.000	-6.400	0.000	1.000	1.000
30.23	0.000	0.000	Strato2_3095_82743_L_0									
34 D	6.326	-5.5177E-03	163.9	31.63	163.9	81.93	ACTIVE	0.000	-6.600	0.000	1.000	1.000
31.63	0.000	0.000	Strato2_3095_82743_L_0									
35 D	6.532	-5.1665E-03	167.3	32.66	167.3	83.65	ACTIVE	0.000	-6.800	0.000	1.000	1.000
32.66	0.000	0.000	Strato2_3095_82743_L_0									
36 D	6.810	-4.8245E-03	171.9	34.05	171.9	85.96	ACTIVE	0.000	-7.000	0.000	1.000	1.000
34.05	0.000	0.000	Strato2_3095_82743_L_0									
37 D	7.017	-4.4922E-03	175.4	35.09	175.4	87.69	ACTIVE	0.000	-7.200	0.000	1.000	1.000
35.09	0.000	0.000	Strato2_3095_82743_L_0									
38 D	7.293	-4.1702E-03	180.0	36.46	180.0	89.99	ACTIVE	0.000	-7.400	0.000	1.000	1.000
36.46	0.000	0.000	Strato2_3095_82743_L_0									
39 D	7.490	-3.8587E-03	183.3	37.45	183.3	91.63	ACTIVE	0.000	-7.600	0.000	1.000	1.000
37.45	0.000	0.000	Strato2_3095_82743_L_0									
40 D	7.764	-3.5580E-03	187.8	38.82	187.8	93.91	ACTIVE	0.000	-7.800	0.000	1.000	1.000
38.82	0.000	0.000	Strato2_3095_82743_L_0									
41 D	7.975	-3.2681E-03	191.3	39.88	191.3	95.67	ACTIVE	0.000	-8.000	0.000	1.000	1.000
39.88	0.000	0.000	Strato2_3095_82743_L_0									
42 D	8.247	-2.9892E-03	195.9	41.24	195.9	97.94	ACTIVE	0.000	-8.200	0.000	1.000	1.000
41.24	0.000	0.000	Strato2_3095_82743_L_0									
43 D	8.459	-2.7210E-03	199.4	42.30	199.4	99.71	ACTIVE	0.000	-8.400	0.000	1.000	1.000
42.30	0.000	0.000	Strato2_3095_82743_L_0									
44 D	8.730	-2.4634E-03	203.9	43.65	203.9	102.0	ACTIVE	0.000	-8.600	0.000	1.000	1.000
43.65	0.000	0.000	Strato2_3095_82743_L_0									
45 D	8.943	-2.2160E-03	207.5	44.72	207.5	103.7	ACTIVE	0.000	-8.800	0.000	1.000	1.000
44.72	0.000	0.000	Strato2_3095_82743_L_0									
46 D	9.203	-1.9785E-03	211.8	46.01	211.8	105.9	ACTIVE	0.000	-9.000	0.000	1.000	1.000
46.01	0.000	0.000	Strato2_3095_82743_L_0									
47 D	9.417	-1.7504E-03	215.4	47.09	215.4	107.7	ACTIVE	0.000	-9.200	0.000	1.000	1.000
47.09	0.000	0.000	Strato2_3095_82743_L_0									
48 D	9.686	-1.5311E-03	219.8	48.43	219.8	109.9	ACTIVE	0.000	-9.400	0.000	1.000	1.000
48.43	0.000	0.000	Strato2_3095_82743_L_0									
49 D	11.47	-1.3198E-03	223.4	57.34	223.4	111.7	UL-RL	3.1997E+04	-9.600	0.000	1.000	1.000
57.34	0.000	0.000	Strato2_3095_82743_L_0									
50 D	13.44	-1.1159E-03	227.9	67.18	227.9	113.9	UL-RL	3.1997E+04	-9.800	0.000	1.000	1.000
67.18	0.000	0.000	Strato2_3095_82743_L_0									
51 D	15.25	-9.1859E-04	231.5	76.24	231.5	115.7	UL-RL	3.1997E+04	-10.000	0.000	1.000	1.000
76.24	0.000	0.000	Strato2_3095_82743_L_0									
52 D	17.08	-7.2696E-04	235.9	85.41	235.9	118.0	UL-RL	3.1997E+04	-10.200	0.000	1.000	1.000
85.41	0.000	0.000	Strato2_3095_82743_L_0									
53 D	18.78	-5.4022E-04	239.6	93.92	239.6	119.8	UL-RL	3.1997E+04	-10.400	0.000	1.000	1.000
93.92	0.000	0.000	Strato2_3095_82743_L_0									
54 D	20.51	-3.5748E-04	243.8	102.6	243.8	121.9	UL-RL	3.1997E+04	-10.600	0.000	1.000	1.000
102.6	0.000	0.000	Strato2_3095_82743_L_0									
55 D	22.14	-1.7795E-04	247.5	110.7	247.5	123.7	UL-RL	3.1997E+04	-10.800	0.000	1.000	1.000
110.7	0.000	0.000	Strato2_3095_82743_L_0									
56 D	23.82	-8.7387E-07	251.9	119.1	251.9	125.9	UL-RL	3.1997E+04	-11.000	0.000	1.000	1.000
119.1	0.000	0.000	Strato2_3095_82743_L_0									
57 D	25.41	1.7444E-04	255.5	127.0	255.5	127.8	UL-RL	3.1997E+04	-11.200	0.000	1.000	1.000
127.0	0.000	0.000	Strato2_3095_82743_L_0									
58 D	26.34	3.4858E-04	259.9	131.7	259.9	131.7	UL-RL	3.1997E+04	-11.400	0.000	1.000	1.000
131.7	0.000	0.000	Strato2_3095_82743_L_0									
59 D	27.11	5.2203E-04	263.6	135.6	263.6	135.6	UL-RL	3.1997E+04	-11.600	0.000	1.000	1.000
135.6	0.000	0.000	Strato2_3095_82743_L_0									
60 D	27.95	6.9516E-04	267.9	139.7	267.9	139.8	UL-RL	3.1997E+04	-11.800	0.000	1.000	1.000
139.7	0.000	0.000	Strato2_3095_82743_L_0									
61 D	14.35	8.6818E-04	271.5	143.5	271.5	143.5	UL-RL	3.1997E+04	-12.000	0.000	1.000	1.000
143.5	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                          |
|          NewProject.BaseDesignSection_28.A2M2R1_3514          |
|          Exe Time :29 July 2019          18:02:27          |
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New Project

STRESS RESULTS FOR GROUP NO. 2

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1099 di 1221							
38 D	19.57	4.1702E-03	26.00	97.84	141.9	97.84	V-C	7449.	-7.400	0.000	1.000	1.000
97.84	0.000	0.000	Strato2_3095_82743_L_0									
39 D	19.35	3.8587E-03	30.00	96.76	145.9	96.76	V-C	7449.	-7.600	0.000	1.000	1.000
96.76	0.000	0.000	Strato2_3095_82743_L_0									
40 D	19.16	3.5580E-03	34.00	95.82	149.9	95.82	V-C	7449.	-7.800	0.000	1.000	1.000
95.82	0.000	0.000	Strato2_3095_82743_L_0									
41 D	19.01	3.2681E-03	38.00	95.03	153.9	95.03	V-C	7449.	-8.000	0.000	1.000	1.000
95.03	0.000	0.000	Strato2_3095_82743_L_0									
42 D	18.88	2.9892E-03	42.00	94.38	157.9	94.38	V-C	7449.	-8.200	0.000	1.000	1.000
94.38	0.000	0.000	Strato2_3095_82743_L_0									
43 D	18.78	2.7210E-03	46.00	93.89	161.9	93.89	V-C	7449.	-8.400	0.000	1.000	1.000
93.89	0.000	0.000	Strato2_3095_82743_L_0									
44 D	18.71	2.4634E-03	50.00	93.53	165.9	93.53	V-C	7449.	-8.600	0.000	1.000	1.000
93.53	0.000	0.000	Strato2_3095_82743_L_0									
45 D	18.66	2.2160E-03	54.00	93.30	169.9	93.30	V-C	7449.	-8.800	0.000	1.000	1.000
93.30	0.000	0.000	Strato2_3095_82743_L_0									
46 D	18.64	1.9785E-03	58.00	93.21	173.9	93.21	V-C	7449.	-9.000	0.000	1.000	1.000
93.21	0.000	0.000	Strato2_3095_82743_L_0									
47 D	18.64	1.7504E-03	62.00	93.22	177.9	93.22	V-C	7449.	-9.200	0.000	1.000	1.000
93.22	0.000	0.000	Strato2_3095_82743_L_0									
48 D	18.26	1.5311E-03	66.00	91.31	181.9	94.38	UL-RL	2.2347E+04	-9.400	0.000	1.000	1.000
91.31	0.000	0.000	Strato2_3095_82743_L_0									
49 D	17.61	1.3198E-03	70.00	88.06	185.9	96.34	UL-RL	2.2347E+04	-9.600	0.000	1.000	1.000
88.06	0.000	0.000	Strato2_3095_82743_L_0									
50 D	17.01	1.1159E-03	74.00	85.06	189.9	98.31	UL-RL	2.2347E+04	-9.800	0.000	1.000	1.000
85.06	0.000	0.000	Strato2_3095_82743_L_0									
51 D	16.46	9.1859E-04	78.00	82.28	193.9	100.3	UL-RL	2.2347E+04	-10.00	0.000	1.000	1.000
82.28	0.000	0.000	Strato2_3095_82743_L_0									
52 D	15.94	7.2696E-04	82.00	79.68	197.9	102.3	UL-RL	2.2347E+04	-10.20	0.000	1.000	1.000
79.68	0.000	0.000	Strato2_3095_82743_L_0									
53 D	15.45	5.4022E-04	86.00	77.25	201.9	104.2	UL-RL	2.2347E+04	-10.40	0.000	1.000	1.000
77.25	0.000	0.000	Strato2_3095_82743_L_0									
54 D	14.99	3.5748E-04	90.00	74.93	205.9	106.2	UL-RL	2.2347E+04	-10.60	0.000	1.000	1.000
74.93	0.000	0.000	Strato2_3095_82743_L_0									
55 D	14.54	1.7795E-04	94.00	72.72	209.9	108.2	UL-RL	2.2347E+04	-10.80	0.000	1.000	1.000
72.72	0.000	0.000	Strato2_3095_82743_L_0									
56 D	14.11	8.7387E-07	98.00	70.57	213.9	110.2	UL-RL	2.2347E+04	-11.00	0.000	1.000	1.000
70.57	0.000	0.000	Strato2_3095_82743_L_0									
57 D	13.70	-1.7444E-04	102.0	68.48	217.9	112.2	UL-RL	2.2347E+04	-11.20	0.000	1.000	1.000
68.48	0.000	0.000	Strato2_3095_82743_L_0									
58 D	13.28	-3.4858E-04	106.0	66.40	221.9	114.2	UL-RL	2.2347E+04	-11.40	0.000	1.000	1.000
66.40	0.000	0.000	Strato2_3095_82743_L_0									
59 D	12.86	-5.2203E-04	110.0	64.31	225.9	116.2	UL-RL	2.2347E+04	-11.60	0.000	1.000	1.000
64.31	0.000	0.000	Strato2_3095_82743_L_0									
60 D	12.45	-6.9516E-04	114.0	62.24	229.9	118.2	UL-RL	2.2347E+04	-11.80	0.000	1.000	1.000
62.24	0.000	0.000	Strato2_3095_82743_L_0									
61 D	6.015	-8.6818E-04	118.0	60.15	233.9	120.3	UL-RL	2.2347E+04	-12.00	0.000	1.000	1.000
60.15	0.000	0.000	Strato2_3095_82743_L_0									

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
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|          NewProject.BaseDesignSection_28.A2M2R1_3514                                                                                       |
|          Exe Time :29 July 2019          18:02:27                                                                                       |
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New Project

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 60
CURRENT TIME IS 5.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	2.0550	-2.0550	-1.51753E-10	0.41100
2	4.9525	-4.9525	-0.41100	1.4015
3	7.7081	-7.7081	-1.4015	2.9431
4	11.370	-11.370	-2.9431	5.2171
5	15.017	-15.017	-5.2171	8.2205
6	19.296	-19.296	-8.2205	12.080
7	23.640	-23.640	-12.080	16.808
8	28.509	-28.509	-16.808	22.509
9	33.425	-33.425	-22.509	29.194
10	38.817	-38.817	-29.194	36.958
11	44.358	-44.358	-36.958	45.829
12	50.337	-50.337	-45.829	55.897
13	-50.837	50.837	-55.897	45.729
14	-44.276	44.276	-45.729	36.874

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1100 di 1221
15	-37.530	37.530	-36.874	29.368	
16	-30.426	30.426	-29.368	23.283	
17	-23.125	23.125	-23.283	18.658	
18	-15.439	15.439	-18.658	15.570	
19	-7.5479	7.5479	-15.570	14.061	
20	0.71616	-0.71616	-14.061	14.204	
21	9.1934	-9.1934	-14.204	16.043	
22	18.034	-18.034	-16.043	19.649	
23	27.095	-27.095	-19.649	25.068	
24	36.488	-36.488	-25.068	32.366	
25	46.106	-46.106	-32.366	41.587	
26	56.076	-56.076	-41.587	52.802	
27	66.275	-66.275	-52.802	66.057	
28	76.821	-76.821	-66.057	81.421	
29	87.600	-87.600	-81.421	98.941	
30	98.720	-98.720	-98.941	118.69	
31	110.06	-110.06	-118.69	140.70	
32	101.30	-101.30	-140.70	160.96	
33	89.460	-89.460	-160.96	178.85	
34	75.115	-75.115	-178.85	193.87	
35	61.275	-61.275	-193.87	206.13	
36	48.003	-48.003	-206.13	215.73	
37	35.207	-35.207	-215.73	222.77	
38	22.931	-22.931	-222.77	227.35	
39	11.070	-11.070	-227.35	229.57	
40	-0.32951	0.32951	-229.57	229.50	
41	-11.360	11.360	-229.50	227.23	
42	-21.989	21.989	-227.23	222.83	
43	-32.307	32.307	-222.83	216.37	
44	-42.282	42.282	-216.37	207.92	
45	-52.000	52.000	-207.92	197.52	
46	-61.438	61.438	-197.52	185.23	
47	-70.665	70.665	-185.23	171.09	
48	-79.241	79.241	-171.09	155.25	
49	-85.385	85.385	-155.25	138.17	
50	-88.961	88.961	-138.17	120.38	
51	-90.168	90.168	-120.38	102.34	
52	-89.022	89.022	-102.34	84.540	
53	-85.687	85.687	-84.540	67.402	
54	-80.163	80.163	-67.402	51.370	
55	-72.567	72.567	-51.370	36.856	
56	-62.863	62.863	-36.856	24.284	
57	-51.154	51.154	-24.284	14.053	
58	-38.088	38.088	-14.053	6.4352	
59	-23.839	23.839	-6.4352	1.6674	
60	-8.3366	8.3366	-1.6674	-3.34160E-12	

GENERAL CONTRACTOR

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ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

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Codifica Documento
E E2 CL GA 2701 002

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      18:02:27          |
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New Project

STRESS RESULTS FOR GROUP NO. 4

```

Tirante1_429      :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
CURRENT TIME IS   5.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	111.11	-7.75160E-04	5.74462E-03	0.0000	2633.3	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          NewProject.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019      18:02:27          |
+-----+

```

FINAL INCREMENTAL ANALYSIS

SUMMARY

STEP		NO. OF ITERATIONS
1	CONVERGENCE :YES	2
2	CONVERGENCE :YES	5
3	CONVERGENCE :YES	5
4	CONVERGENCE :YES	4
5	CONVERGENCE :YES	6

END OF PROCESS FOR PROBLEM

New Project

```

NONLINEAR SOLUTION CPU TIME .... 0.06 [sec]
DATABASE CREATION CPU TIME..... 0.20 [sec]

```

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1102 di
1221

5. BERLINESE DI MICROPALI

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

* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: Nominal

* Time:lunedì 29 luglio 2019 19:21:28

* 1: Defining general settings

UNIT m kN

TITLE 1468.1 - GA27 - Cepav2

DELTA 0.2

option param itemax 100

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)

WALL LeftWall_32 0 -10.2 0 1

* 3: Defining surfaces for wall(s)

SOIL 0_L LeftWall_32 -10.2 0 1 0

SOIL 0_R LeftWall_32 -10.2 0 2 180

* 4: Defining soil layers

*

* Soil Profile (Strato1_3095_78023_L_0)

*

LDATA Strato1_3095_78023_L_0 0 LeftWall_32

ATREST 0.5 0.5 1

WEIGHT 19 9 10

PERMEABILITY 1E-05

RESISTANCE 0 29

YOUNG 2.5E+04 4E+04

ENDL

*

* Soil Profile (Strato2_84780_84781_L_0)

*

LDATA Strato2_84780_84781_L_0 -5.35 LeftWall_32

ATREST 0.5 0.5 1

WEIGHT 19 9 10

PERMEABILITY 1E-05

RESISTANCE 20 35

YOUNG 5E+04 1.5E+05

ENDL

* 5: Defining structural materials

* Steel material: 113 Name=S275 E=210000000 kPa

MATERIAL S275_113 2.1E+08

* Concrete material: 104 Name=C25/30 E=31475800 kPa

MATERIAL C2530_104 3.148E+07

* Rebar material: 78036 Name=S275 E=210000000 kPa

MATERIAL S275_78036 2.1E+08

* 6: Defining structural elements

* 6.1: Beams and combined Wall Elements

BEAM WallElement_33 LeftWall_32 -10.2 0 S275_113 0.08153 00 00 0

* 6.2: Supports

WIRE Tieback_78031 LeftWall_32 -0.2 S275_78036 0.0003059 0 70 0 0

* 6.3: Strips

STRIP LeftWall_32 3 3 2.33 3 0 52.08 30

* 7: Defining Steps

STEP Stage0_86326

CHANGE Strato1_3095_78023_L_0 U-FRICT=29 LeftWall_32

CHANGE Strato1_3095_78023_L_0 D-FRICT=29 LeftWall_32

CHANGE Strato1_3095_78023_L_0 U-KA=0.319 LeftWall_32

CHANGE Strato1_3095_78023_L_0 U-KP=3.606 LeftWall_32

CHANGE Strato1_3095_78023_L_0 D-KA=0.319 LeftWall_32

CHANGE Strato1_3095_78023_L_0 D-KP=3.606 LeftWall_32

CHANGE Strato2_84780_84781_L_0 U-FRICT=35 LeftWall_32

CHANGE Strato2_84780_84781_L_0 D-FRICT=35 LeftWall_32

CHANGE Strato2_84780_84781_L_0 U-KA=0.248 LeftWall_32

CHANGE Strato2_84780_84781_L_0 U-KP=5.02 LeftWall_32

CHANGE Strato2_84780_84781_L_0 D-KA=0.248 LeftWall_32

CHANGE Strato2_84780_84781_L_0 D-KP=5.02 LeftWall_32

CHANGE Strato1_3095_78023_L_0 U-COHE=0 LeftWall_32

CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32

CHANGE Strato2_84780_84781_L_0 U-COHE=20 LeftWall_32

CHANGE Strato2_84780_84781_L_0 D-COHE=20 LeftWall_32

SETWALL LeftWall_32

GEOM 0 0

WATER -17 0 -10.2 0 0

ENDSTEP

GENERAL CONTRACTOR

Cepav due



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1103 di 1221
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```
STEP Stage1_31
CHANGE Strato1_3095_78023_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -17 0 -10.2 0 0
ADD WallElement_33 Tieback_78031
ENDSTEP
```

```
STEP Stage2_158
CHANGE Strato1_3095_78023_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -5.35
WATER -17 0 -10.2 0 0
ENDSTEP
```

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

```
+-----+
|           PARATIEPLUS(TM)   NLS ENGINE RELEASE   2017.1   FULL VERSION   *Build date:Jul 11, 2017* |
|                                                                                                   |
|           1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63 |
|           Exe Time :29 July 2019      19:21:28 |
+-----+
```

```
*****
*
* PARATIE PLUS Non-Linear Spring Engine
*
* AN ELASTOPLASTIC FINITE ELEMENT PROGRAM
* FOR FLEXIBLE EARTH-RETAINING STRUCTURES
*
* Written by Ce.A.S. s.r.l. (ITALY)
* with the scientific supervision of
* Roberto Nova - full professor SOIL MECHANICS
* at Politecnico di Milano (ITALY)
*
*****
*
* RELEASE 2017.1 *Build date:Jul 11, 2017*
*
*
* Ce.A.S. S.R.L CENTRO DI ANALISI STRUTTURALE
* VIALE GIUSTINIANO 10
* 20129 M I L A N O (ITALIA)
* TEL. +39 02 2020221 (+39 035 23 67 19)
* FAX +39 02 29512533 (+39 035 42285 49)
* email bruno.becci@ceas.it
* Web Page www.ceas.it
*****
```

```
JOB : 1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL STRESS >
ACCEPTED <PARAM ITEMAX 100 >
ACCEPTED <CONTROL HINGES 0 0.0001 0.001 >
```

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

PRELIMINARY OPERATIONS CPU TIME 0.01 [sec]

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1104 di
1221

```

-----+-----
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019      19:21:28  |
|-----+-----

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

1468.1 - GA27 - Cepav2

```

NO. OF NODAL POINTS (NUMNP) ..... 52
NO. OF COORDINATES (NCOORD) ..... 2
NO. OF NODE DOFS (NDOF) ..... 2
NO. OF EQUATIONS (NEQ) ..... 104
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 ..... 68
NO. OF LONG NAMES (LASTNAME) ..... 16
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH ..... 1
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 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019      19:21:28  |
|-----+-----

```

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 68

```

1 : UNIT m kN
2 : TITLE 1468.1 - GA27 - Cepav2
3 : DELTA 0.2
4 : option param itemax 100
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -10.2 0 1
7 : SOIL 0_L LeftWall_32 -10.2 0 1 0
8 : SOIL 0_R LeftWall_32 -10.2 0 2 180
9 : LDATA Strato1_3095_78023_L_0 0 LeftWall_32
10 : ATREST 0.5 0.5 1
11 : WEIGHT 19 9 10
12 : PERMEABILITY 1E-05
13 : RESISTANCE 0 29
14 : YOUNG 2.5E+04 4E+04
15 : ENDL
16 : LDATA Strato2_84780_84781_L_0 -5.35 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 19 9 10
19 : PERMEABILITY 1E-05
20 : RESISTANCE 20 35
21 : YOUNG 5E+04 1.5E+05
22 : ENDL

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1105 di 1221
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```

23 : MATERIAL S275_113 2.1E+08
24 : MATERIAL C2530_104 3.148E+07
25 : MATERIAL S275_78036 2.1E+08
26 : BEAM WallElement_33 LeftWall_32 -10.2 0 S275_113 0.08153 00 00 0
27 : WIRE Tieback_78031 LeftWall_32 -0.2 S275_78036 0.0003059 0 70 0 0
28 : STRIP LeftWall_32 3 3 2.33 3 0 52.08 30
29 : STEP Stage0_86326
30 : CHANGE Strato1_3095_78023_L_0 U-FRICT=29 LeftWall_32
31 : CHANGE Strato1_3095_78023_L_0 D-FRICT=29 LeftWall_32
32 : CHANGE Strato1_3095_78023_L_0 U-KA=0.319 LeftWall_32
33 : CHANGE Strato1_3095_78023_L_0 U-KP=3.606 LeftWall_32
34 : CHANGE Strato1_3095_78023_L_0 D-KA=0.319 LeftWall_32
35 : CHANGE Strato1_3095_78023_L_0 D-KP=3.606 LeftWall_32
36 : CHANGE Strato2_84780_84781_L_0 U-FRICT=35 LeftWall_32
37 : CHANGE Strato2_84780_84781_L_0 D-FRICT=35 LeftWall_32
38 : CHANGE Strato2_84780_84781_L_0 U-KA=0.248 LeftWall_32
39 : CHANGE Strato2_84780_84781_L_0 U-KP=5.02 LeftWall_32
40 : CHANGE Strato2_84780_84781_L_0 D-KA=0.248 LeftWall_32
41 : CHANGE Strato2_84780_84781_L_0 D-KP=5.02 LeftWall_32
42 : CHANGE Strato1_3095_78023_L_0 U-COHE=0 LeftWall_32
43 : CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
44 : CHANGE Strato2_84780_84781_L_0 U-COHE=20 LeftWall_32
45 : CHANGE Strato2_84780_84781_L_0 D-COHE=20 LeftWall_32
46 : SETWALL LeftWall_32
47 : GEOM 0 0
48 : WATER -17 0 -10.2 0 0
49 : ENDSTEP
50 : STEP Stage1_31
51 : CHANGE Strato1_3095_78023_L_0 D-FRICT=29 LeftWall_32
52 : CHANGE Strato2_84780_84781_L_0 D-FRICT=35 LeftWall_32
53 : CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
54 : CHANGE Strato2_84780_84781_L_0 D-COHE=20 LeftWall_32
55 : SETWALL LeftWall_32
56 : GEOM 0 0
57 : WATER -17 0 -10.2 0 0
58 : ADD WallElement_33 Tieback_78031
59 : ENDSTEP
60 : STEP Stage2_158
61 : CHANGE Strato1_3095_78023_L_0 D-FRICT=29 LeftWall_32
62 : CHANGE Strato2_84780_84781_L_0 D-FRICT=35 LeftWall_32
63 : CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
64 : CHANGE Strato2_84780_84781_L_0 D-COHE=20 LeftWall_32
65 : SETWALL LeftWall_32
66 : GEOM 0 -5.35
67 : WATER -17 0 -10.2 0 0
68 : ENDSTEP
    
```

```

-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      19:21:28
|
-----
    
```

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 / NODE
1	0.0000	0.0000 /	2	0.0000	-0.20000 /	3	0.0000	-0.40000 /
5	0.0000	-0.80000 /	6	0.0000	-1.0000 /	7	0.0000	-1.2000 /
9	0.0000	-1.6000 /	10	0.0000	-1.8000 /	11	0.0000	-2.0000 /
13	0.0000	-2.4000 /	14	0.0000	-2.6000 /	15	0.0000	-2.8000 /
17	0.0000	-3.2000 /	18	0.0000	-3.4000 /	19	0.0000	-3.6000 /
21	0.0000	-4.0000 /	22	0.0000	-4.2000 /	23	0.0000	-4.4000 /
25	0.0000	-4.8000 /	26	0.0000	-5.0000 /	27	0.0000	-5.2000 /
29	0.0000	-5.6000 /	30	0.0000	-5.8000 /	31	0.0000	-6.0000 /
33	0.0000	-6.4000 /	34	0.0000	-6.6000 /	35	0.0000	-6.8000 /
37	0.0000	-7.2000 /	38	0.0000	-7.4000 /	39	0.0000	-7.6000 /
41	0.0000	-8.0000 /	42	0.0000	-8.2000 /	43	0.0000	-8.4000 /
45	0.0000	-8.8000 /	46	0.0000	-9.0000 /	47	0.0000	-9.2000 /
49	0.0000	-9.6000 /	50	0.0000	-9.8000 /	51	0.0000	-10.000 /
			52	0.0000	-10.200 /			

```

-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      19:21:28
|
-----
    
```

ELEMENT GROUP NO. 1

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1106 di 1221
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```
0_L :
5 52 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 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
```

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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	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	0.1000	0.000	0.000	0.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1107 di 1221
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```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|          |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019      19:21:28  |
+-----+

```

```

ELEMENT GROUP NO.  2

0_R      :
 5 52  0  1  0  0  0  0  0  0  0  0  0  0  0  0  2  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

```

```

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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000
24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1108 di 1221
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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	0.1000	0.000	0.000	0.000	2.000

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019  19:21:28  |
+-----+

```

```

ELEMENT GROUP NO.  3

WallElement_33      :
  2 51  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  inactive
  2  active
  3  active

```

```

material set no.  1

prop( 1) young modulus      0.210000E+09
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future .....0.182200E-43

```

```

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      by-i      by-j
-----
  1  1  2  1  0.000  0.000  0.8153E-01  0.000  0.000
  2  2  3  1  0.000  0.000  0.8153E-01  0.000  0.000
  3  3  4  1  0.000  0.000  0.8153E-01  0.000  0.000
  4  4  5  1  0.000  0.000  0.8153E-01  0.000  0.000
  5  5  6  1  0.000  0.000  0.8153E-01  0.000  0.000
  6  6  7  1  0.000  0.000  0.8153E-01  0.000  0.000
  7  7  8  1  0.000  0.000  0.8153E-01  0.000  0.000
  8  8  9  1  0.000  0.000  0.8153E-01  0.000  0.000
  9  9 10  1  0.000  0.000  0.8153E-01  0.000  0.000
 10 10 11  1  0.000  0.000  0.8153E-01  0.000  0.000
 11 11 12  1  0.000  0.000  0.8153E-01  0.000  0.000
 12 12 13  1  0.000  0.000  0.8153E-01  0.000  0.000
 13 13 14  1  0.000  0.000  0.8153E-01  0.000  0.000
 14 14 15  1  0.000  0.000  0.8153E-01  0.000  0.000
 15 15 16  1  0.000  0.000  0.8153E-01  0.000  0.000
 16 16 17  1  0.000  0.000  0.8153E-01  0.000  0.000
 17 17 18  1  0.000  0.000  0.8153E-01  0.000  0.000
 18 18 19  1  0.000  0.000  0.8153E-01  0.000  0.000
 19 19 20  1  0.000  0.000  0.8153E-01  0.000  0.000
 20 20 21  1  0.000  0.000  0.8153E-01  0.000  0.000
 21 21 22  1  0.000  0.000  0.8153E-01  0.000  0.000
 22 22 23  1  0.000  0.000  0.8153E-01  0.000  0.000
 23 23 24  1  0.000  0.000  0.8153E-01  0.000  0.000
 24 24 25  1  0.000  0.000  0.8153E-01  0.000  0.000
 25 25 26  1  0.000  0.000  0.8153E-01  0.000  0.000
 26 26 27  1  0.000  0.000  0.8153E-01  0.000  0.000
 27 27 28  1  0.000  0.000  0.8153E-01  0.000  0.000
 28 28 29  1  0.000  0.000  0.8153E-01  0.000  0.000
 29 29 30  1  0.000  0.000  0.8153E-01  0.000  0.000
 30 30 31  1  0.000  0.000  0.8153E-01  0.000  0.000

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1109 di
1221

31	31	32	1	0.000	0.000	0.8153E-01	0.000	0.000
32	32	33	1	0.000	0.000	0.8153E-01	0.000	0.000
33	33	34	1	0.000	0.000	0.8153E-01	0.000	0.000
34	34	35	1	0.000	0.000	0.8153E-01	0.000	0.000
35	35	36	1	0.000	0.000	0.8153E-01	0.000	0.000
36	36	37	1	0.000	0.000	0.8153E-01	0.000	0.000
37	37	38	1	0.000	0.000	0.8153E-01	0.000	0.000
38	38	39	1	0.000	0.000	0.8153E-01	0.000	0.000
39	39	40	1	0.000	0.000	0.8153E-01	0.000	0.000
40	40	41	1	0.000	0.000	0.8153E-01	0.000	0.000
41	41	42	1	0.000	0.000	0.8153E-01	0.000	0.000
42	42	43	1	0.000	0.000	0.8153E-01	0.000	0.000
43	43	44	1	0.000	0.000	0.8153E-01	0.000	0.000
44	44	45	1	0.000	0.000	0.8153E-01	0.000	0.000
45	45	46	1	0.000	0.000	0.8153E-01	0.000	0.000
46	46	47	1	0.000	0.000	0.8153E-01	0.000	0.000
47	47	48	1	0.000	0.000	0.8153E-01	0.000	0.000
48	48	49	1	0.000	0.000	0.8153E-01	0.000	0.000
49	49	50	1	0.000	0.000	0.8153E-01	0.000	0.000
50	50	51	1	0.000	0.000	0.8153E-01	0.000	0.000
51	51	52	1	0.000	0.000	0.8153E-01	0.000	0.000

```

-----+-----
|               PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                                     |
|               1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63  |
|               Exe Time :29 July 2019      19:21:28  |
|               -----+-----

```

```

ELEMENT GROUP NO. 4

Tieback_78031      :
6 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0
.....
.....2D POST-TENSION ANCHOR.....
.....

```

```

element group behaviour throughout stage analysis

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

material set no. 1

prop( 1) angle      70.0000
prop( 2) young modulus 0.210000E+09
prop( 3) modification time 0.00000
prop( 4) new young modulus 0.00000

no. of step variable items: 2
step  -ve lim  +ve lim
-----
 1  0.000  0.000
 2  0.000  0.000
 3  0.000  0.000

```

```

element data

el  n  mat      a/l    pinit  yieldc  yieldt
-----
 1  2  1  0.3059E-03  0.000  0.000  0.000

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1110 di
1221

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|          |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63 |
|          Exe Time :29 July 2019      19:21:28 |
+-----+

```

```

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

```

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|          |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63 |
|          Exe Time :29 July 2019      19:21:28 |
+-----+

```

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

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1111 di 1221
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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  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019      19:21:28  |
+-----+

```

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  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019      19:21:28  |
+-----+

```

NO. OF LAYERS 2
 NO. OF DATA PER LAYER..... 100

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019      19:21:28  |
+-----+

```

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	>= 0.0000	(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.	9<U-FRICT	>= 29.000	(BOTH WALLS)
ITEM NO.	10<U-KA	>= 0.31900	WALL NO. 1
ITEM NO.	11<U-KP	>= 3.6060	WALL NO. 1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1112 di 1221
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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 >= 25000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 40000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.31900 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.6060 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (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 >= -5.3500 (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 >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.24800 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.0200 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.24800 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.0200 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (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 >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.31900 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.6060 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 >= 25000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 40000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.31900 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.6060 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (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 >= -5.3500 (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 >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.24800 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.0200 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)

GENERAL CONTRACTOR



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GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1113 di 1221
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ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.24800 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.0200 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (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 >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.31900 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.6060 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 >= 25000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 40000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.31900 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.6060 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (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 >= -5.3500 (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 >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.24800 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.0200 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.24800 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.0200 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 6 VALUES

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1114 di 1221
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|          PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017*   |
|          |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63   |
|          Exe Time :29 July 2019   19:21:28   |
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PHASE DESCRIPTORS

STEP NO.	1	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-17.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-10.20	-10.20
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	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-17.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-10.20	-10.20
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

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1115 di
1221

=====end of step 2

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STEP NO. 3
LEFT WALL RIGHT WALL
Y 0.000 -0.9990E+30
Z-PC 0.000 0.000
Z-EXCAVATION -5.350 0.000
Z-WATER_TABLE -17.00 -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL 0.000 0.000
ZQ 0.000 0.000
DZW_OF_THE_WATER_TABLE 0.000 0.000
QS_ON_THE_EXCAVATION_SIDE 0.000 0.000
ZQS -0.9990E+30 -0.9990E+30
ZCUT 0.000 0.000
BALANCE LEVEL FOR PORE PRESSURES -10.20 -10.20
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 -10.20000
UPPER LEVEL 0.00000

RIGHT-HAND WALL

LOWER LEVEL -10.20000
UPPER LEVEL 0.00000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017* |
|                                                                |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63 |
|          Exe Time :29 July 2019   19:21:28 |
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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 3.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 3.0000

TYPE BOUSSINESQ

```

HORIZONTAL DISTANCE (DY) 2.3300000000000000
FOUNDATION WIDTH (B) 3.0000000000000000
ZETA-F..... 0.0000000000000000E+000
Q-F ..... 52.0800000000000000
BETA ..... 30.0000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.0000000000000000E+000
  
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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1116 di 1221
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ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION 2422

NO. OF D.P.W FOR THIS AREA 6191
MAX NO. OF D.P.W. AVAILABLE 81920
** MAX NO OF ITERATIONS SET TO 100

```

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1258E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 19.00 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1258E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 104 NODE 52 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 1 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1258E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 19.00 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1258E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 104 NODE 52 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1258E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 19.00 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1258E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 104 NODE 52 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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| PARATIEPLUS(TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| | |
| 1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63 |
| Exe Time :29 July 2019 19:21:28 |
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1468.1 - GA27 - Cepav2

SOLUTION REACHED USING 2 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)

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

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Y-DISPL.F X-ROT. F
(02) (04) (

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ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1117 di
1221

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                     |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63                                     |
|          Exe Time :29 July 2019          19:21:28                                         |
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 1

0_L :

ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 52

CURRENT TIME IS 1.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	3.1207E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_3095_78023_L_0									
2 D	0.3800	0.000	3.800	1.900	3.800	1.900	V-C	3.1207E+04	-0.2000	0.000	1.000	1.000
1.900	0.000	0.000	Strato1_3095_78023_L_0									
3 D	0.7600	0.000	7.600	3.800	7.600	3.800	V-C	3.1207E+04	-0.4000	0.000	1.000	1.000
3.800	0.000	0.000	Strato1_3095_78023_L_0									
4 D	1.140	0.000	11.40	5.700	11.40	5.700	V-C	3.1207E+04	-0.6000	0.000	1.000	1.000
5.700	0.000	0.000	Strato1_3095_78023_L_0									
5 D	1.520	0.000	15.20	7.600	15.20	7.600	V-C	3.1207E+04	-0.8000	0.000	1.000	1.000
7.600	0.000	0.000	Strato1_3095_78023_L_0									
6 D	1.900	0.000	19.00	9.500	19.00	9.500	V-C	3.1207E+04	-1.000	0.000	1.000	1.000
9.500	0.000	0.000	Strato1_3095_78023_L_0									
7 D	2.280	0.000	22.80	11.40	22.80	11.40	V-C	3.1207E+04	-1.200	0.000	1.000	1.000
11.40	0.000	0.000	Strato1_3095_78023_L_0									
8 D	2.660	0.000	26.60	13.30	26.60	13.30	V-C	3.1207E+04	-1.400	0.000	1.000	1.000
13.30	0.000	0.000	Strato1_3095_78023_L_0									
9 D	3.040	0.000	30.40	15.20	30.40	15.20	V-C	3.1207E+04	-1.600	0.000	1.000	1.000
15.20	0.000	0.000	Strato1_3095_78023_L_0									
10 D	3.420	0.000	34.20	17.10	34.20	17.10	V-C	3.1207E+04	-1.800	0.000	1.000	1.000
17.10	0.000	0.000	Strato1_3095_78023_L_0									
11 D	3.800	0.000	38.00	19.00	38.00	19.00	V-C	3.1207E+04	-2.000	0.000	1.000	1.000
19.00	0.000	0.000	Strato1_3095_78023_L_0									
12 D	4.180	0.000	41.80	20.90	41.80	20.90	V-C	3.1207E+04	-2.200	0.000	1.000	1.000
20.90	0.000	0.000	Strato1_3095_78023_L_0									
13 D	4.560	0.000	45.60	22.80	45.60	22.80	V-C	3.1207E+04	-2.400	0.000	1.000	1.000
22.80	0.000	0.000	Strato1_3095_78023_L_0									
14 D	4.940	0.000	49.40	24.70	49.40	24.70	V-C	3.1207E+04	-2.600	0.000	1.000	1.000
24.70	0.000	0.000	Strato1_3095_78023_L_0									
15 D	5.320	0.000	53.20	26.60	53.20	26.60	V-C	3.1207E+04	-2.800	0.000	1.000	1.000
26.60	0.000	0.000	Strato1_3095_78023_L_0									
16 D	5.700	0.000	57.00	28.50	57.00	28.50	V-C	3.1207E+04	-3.000	0.000	1.000	1.000
28.50	0.000	0.000	Strato1_3095_78023_L_0									
17 D	6.080	0.000	60.80	30.40	60.80	30.40	V-C	3.1207E+04	-3.200	0.000	1.000	1.000
30.40	0.000	0.000	Strato1_3095_78023_L_0									
18 D	6.460	0.000	64.60	32.30	64.60	32.30	V-C	3.1207E+04	-3.400	0.000	1.000	1.000
32.30	0.000	0.000	Strato1_3095_78023_L_0									
19 D	6.840	0.000	68.40	34.20	68.40	34.20	V-C	3.1207E+04	-3.600	0.000	1.000	1.000
34.20	0.000	0.000	Strato1_3095_78023_L_0									
20 D	7.220	0.000	72.20	36.10	72.20	36.10	V-C	3.1207E+04	-3.800	0.000	1.000	1.000
36.10	0.000	0.000	Strato1_3095_78023_L_0									
21 D	7.600	0.000	76.00	38.00	76.00	38.00	V-C	3.1207E+04	-4.000	0.000	1.000	1.000
38.00	0.000	0.000	Strato1_3095_78023_L_0									
22 D	7.980	0.000	79.80	39.90	79.80	39.90	V-C	3.1207E+04	-4.200	0.000	1.000	1.000
39.90	0.000	0.000	Strato1_3095_78023_L_0									
23 D	8.360	0.000	83.60	41.80	83.60	41.80	V-C	3.1207E+04	-4.400	0.000	1.000	1.000
41.80	0.000	0.000	Strato1_3095_78023_L_0									
24 D	8.740	0.000	87.40	43.70	87.40	43.70	V-C	3.1207E+04	-4.600	0.000	1.000	1.000
43.70	0.000	0.000	Strato1_3095_78023_L_0									
25 D	9.120	0.000	91.20	45.60	91.20	45.60	V-C	3.1207E+04	-4.800	0.000	1.000	1.000
45.60	0.000	0.000	Strato1_3095_78023_L_0									
26 D	9.500	0.000	95.00	47.50	95.00	47.50	V-C	3.1207E+04	-5.000	0.000	1.000	1.000
47.50	0.000	0.000	Strato1_3095_78023_L_0									
27 D	9.880	0.000	98.80	49.40	98.80	49.40	V-C	3.1207E+04	-5.200	0.000	1.000	1.000
49.40	0.000	0.000	Strato1_3095_78023_L_0									
28 D	10.26	0.000	102.6	51.30	102.6	51.30	V-C	7.0624E+04	-5.400	0.000	1.000	1.000
51.30	0.000	0.000	Strato2_84780_84781_L_0									
29 D	10.64	0.000	106.4	53.20	106.4	53.20	V-C	7.0624E+04	-5.600	0.000	1.000	1.000
53.20	0.000	0.000	Strato2_84780_84781_L_0									
30 D	11.02	0.000	110.2	55.10	110.2	55.10	V-C	7.0624E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1118 di 1221
55.10	0.000	0.000	Strato2_84780_84781_L_0		
31 D	11.40	0.000	114.0 57.00 114.0	57.00	V-C 7.0624E+04 -6.000 0.000 1.000 1.000
57.00	0.000	0.000	Strato2_84780_84781_L_0		
32 D	11.78	0.000	117.8 58.90 117.8	58.90	V-C 7.0624E+04 -6.200 0.000 1.000 1.000
58.90	0.000	0.000	Strato2_84780_84781_L_0		
33 D	12.16	0.000	121.6 60.80 121.6	60.80	V-C 7.0624E+04 -6.400 0.000 1.000 1.000
60.80	0.000	0.000	Strato2_84780_84781_L_0		
34 D	12.54	0.000	125.4 62.70 125.4	62.70	V-C 7.0624E+04 -6.600 0.000 1.000 1.000
62.70	0.000	0.000	Strato2_84780_84781_L_0		
35 D	12.92	0.000	129.2 64.60 129.2	64.60	V-C 7.0624E+04 -6.800 0.000 1.000 1.000
64.60	0.000	0.000	Strato2_84780_84781_L_0		
36 D	13.30	0.000	133.0 66.50 133.0	66.50	V-C 7.0624E+04 -7.000 0.000 1.000 1.000
66.50	0.000	0.000	Strato2_84780_84781_L_0		
37 D	13.68	0.000	136.8 68.40 136.8	68.40	V-C 7.0624E+04 -7.200 0.000 1.000 1.000
68.40	0.000	0.000	Strato2_84780_84781_L_0		
38 D	14.06	0.000	140.6 70.30 140.6	70.30	V-C 7.0624E+04 -7.400 0.000 1.000 1.000
70.30	0.000	0.000	Strato2_84780_84781_L_0		
39 D	14.44	0.000	144.4 72.20 144.4	72.20	V-C 7.0624E+04 -7.600 0.000 1.000 1.000
72.20	0.000	0.000	Strato2_84780_84781_L_0		
40 D	14.82	0.000	148.2 74.10 148.2	74.10	V-C 7.0624E+04 -7.800 0.000 1.000 1.000
74.10	0.000	0.000	Strato2_84780_84781_L_0		
41 D	15.20	0.000	152.0 76.00 152.0	76.00	V-C 7.0624E+04 -8.000 0.000 1.000 1.000
76.00	0.000	0.000	Strato2_84780_84781_L_0		
42 D	15.58	0.000	155.8 77.90 155.8	77.90	V-C 7.0624E+04 -8.200 0.000 1.000 1.000
77.90	0.000	0.000	Strato2_84780_84781_L_0		
43 D	15.96	0.000	159.6 79.80 159.6	79.80	V-C 7.0624E+04 -8.400 0.000 1.000 1.000
79.80	0.000	0.000	Strato2_84780_84781_L_0		
44 D	16.34	0.000	163.4 81.70 163.4	81.70	V-C 7.0624E+04 -8.600 0.000 1.000 1.000
81.70	0.000	0.000	Strato2_84780_84781_L_0		
45 D	16.72	0.000	167.2 83.60 167.2	83.60	V-C 7.0624E+04 -8.800 0.000 1.000 1.000
83.60	0.000	0.000	Strato2_84780_84781_L_0		
46 D	17.10	0.000	171.0 85.50 171.0	85.50	V-C 7.0624E+04 -9.000 0.000 1.000 1.000
85.50	0.000	0.000	Strato2_84780_84781_L_0		
47 D	17.48	0.000	174.8 87.40 174.8	87.40	V-C 7.0624E+04 -9.200 0.000 1.000 1.000
87.40	0.000	0.000	Strato2_84780_84781_L_0		
48 D	17.86	0.000	178.6 89.30 178.6	89.30	V-C 7.0624E+04 -9.400 0.000 1.000 1.000
89.30	0.000	0.000	Strato2_84780_84781_L_0		
49 D	18.24	0.000	182.4 91.20 182.4	91.20	V-C 7.0624E+04 -9.600 0.000 1.000 1.000
91.20	0.000	0.000	Strato2_84780_84781_L_0		
50 D	18.62	0.000	186.2 93.10 186.2	93.10	V-C 7.0624E+04 -9.800 0.000 1.000 1.000
93.10	0.000	0.000	Strato2_84780_84781_L_0		
51 D	19.00	0.000	190.0 95.00 190.0	95.00	V-C 7.0624E+04 -10.000 0.000 1.000 1.000
95.00	0.000	0.000	Strato2_84780_84781_L_0		
52 D	9.690	0.000	193.8 96.90 193.8	96.90	V-C 7.0624E+04 -10.200 0.000 1.000 1.000
96.90	0.000	0.000	Strato2_84780_84781_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63                               |
|          Exe Time :29 July 2019  19:21:28                                                 |
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 52
CURRENT TIME IS 1.0000

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 FACTOR	UFACTOR
Peg	Su_a	Su_p	LAYER									
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	2.1656E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_3095_78023_L_0									
2 D	0.3800	0.000	3.800	1.900	3.800	1.900	V-C	2.1656E+04	-0.2000	0.000	1.000	1.000
1.900	0.000	0.000	Strato1_3095_78023_L_0									
3 D	0.7600	0.000	7.600	3.800	7.600	3.800	V-C	2.1656E+04	-0.4000	0.000	1.000	1.000
3.800	0.000	0.000	Strato1_3095_78023_L_0									
4 D	1.140	0.000	11.40	5.700	11.40	5.700	V-C	2.1656E+04	-0.6000	0.000	1.000	1.000
5.700	0.000	0.000	Strato1_3095_78023_L_0									
5 D	1.520	0.000	15.20	7.600	15.20	7.600	V-C	2.1656E+04	-0.8000	0.000	1.000	1.000
7.600	0.000	0.000	Strato1_3095_78023_L_0									
6 D	1.900	0.000	19.00	9.500	19.00	9.500	V-C	2.1656E+04	-1.0000	0.000	1.000	1.000
9.500	0.000	0.000	Strato1_3095_78023_L_0									
7 D	2.280	0.000	22.80	11.40	22.80	11.40	V-C	2.1656E+04	-1.2000	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.				Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1119 di 1221				
11.40	0.000	0.000	Strato1_3095_78023_L_0									
8 D	2.660	0.000	26.60	13.30	26.60	13.30	V-C	2.1656E+04	-1.400	0.000	1.000	1.000
13.30	0.000	0.000	Strato1_3095_78023_L_0									
9 D	3.040	0.000	30.40	15.20	30.40	15.20	V-C	2.1656E+04	-1.600	0.000	1.000	1.000
15.20	0.000	0.000	Strato1_3095_78023_L_0									
10 D	3.420	0.000	34.20	17.10	34.20	17.10	V-C	2.1656E+04	-1.800	0.000	1.000	1.000
17.10	0.000	0.000	Strato1_3095_78023_L_0									
11 D	3.800	0.000	38.00	19.00	38.00	19.00	V-C	2.1656E+04	-2.000	0.000	1.000	1.000
19.00	0.000	0.000	Strato1_3095_78023_L_0									
12 D	4.180	0.000	41.80	20.90	41.80	20.90	V-C	2.1656E+04	-2.200	0.000	1.000	1.000
20.90	0.000	0.000	Strato1_3095_78023_L_0									
13 D	4.560	0.000	45.60	22.80	45.60	22.80	V-C	2.1656E+04	-2.400	0.000	1.000	1.000
22.80	0.000	0.000	Strato1_3095_78023_L_0									
14 D	4.940	0.000	49.40	24.70	49.40	24.70	V-C	2.1656E+04	-2.600	0.000	1.000	1.000
24.70	0.000	0.000	Strato1_3095_78023_L_0									
15 D	5.320	0.000	53.20	26.60	53.20	26.60	V-C	2.1656E+04	-2.800	0.000	1.000	1.000
26.60	0.000	0.000	Strato1_3095_78023_L_0									
16 D	5.700	0.000	57.00	28.50	57.00	28.50	V-C	2.1656E+04	-3.000	0.000	1.000	1.000
28.50	0.000	0.000	Strato1_3095_78023_L_0									
17 D	6.080	0.000	60.80	30.40	60.80	30.40	V-C	2.1656E+04	-3.200	0.000	1.000	1.000
30.40	0.000	0.000	Strato1_3095_78023_L_0									
18 D	6.460	0.000	64.60	32.30	64.60	32.30	V-C	2.1656E+04	-3.400	0.000	1.000	1.000
32.30	0.000	0.000	Strato1_3095_78023_L_0									
19 D	6.840	0.000	68.40	34.20	68.40	34.20	V-C	2.1656E+04	-3.600	0.000	1.000	1.000
34.20	0.000	0.000	Strato1_3095_78023_L_0									
20 D	7.220	0.000	72.20	36.10	72.20	36.10	V-C	2.1656E+04	-3.800	0.000	1.000	1.000
36.10	0.000	0.000	Strato1_3095_78023_L_0									
21 D	7.600	0.000	76.00	38.00	76.00	38.00	V-C	2.1656E+04	-4.000	0.000	1.000	1.000
38.00	0.000	0.000	Strato1_3095_78023_L_0									
22 D	7.980	0.000	79.80	39.90	79.80	39.90	V-C	2.1656E+04	-4.200	0.000	1.000	1.000
39.90	0.000	0.000	Strato1_3095_78023_L_0									
23 D	8.360	0.000	83.60	41.80	83.60	41.80	V-C	2.1656E+04	-4.400	0.000	1.000	1.000
41.80	0.000	0.000	Strato1_3095_78023_L_0									
24 D	8.740	0.000	87.40	43.70	87.40	43.70	V-C	2.1656E+04	-4.600	0.000	1.000	1.000
43.70	0.000	0.000	Strato1_3095_78023_L_0									
25 D	9.120	0.000	91.20	45.60	91.20	45.60	V-C	2.1656E+04	-4.800	0.000	1.000	1.000
45.60	0.000	0.000	Strato1_3095_78023_L_0									
26 D	9.500	0.000	95.00	47.50	95.00	47.50	V-C	2.1656E+04	-5.000	0.000	1.000	1.000
47.50	0.000	0.000	Strato1_3095_78023_L_0									
27 D	9.880	0.000	98.80	49.40	98.80	49.40	V-C	2.1656E+04	-5.200	0.000	1.000	1.000
49.40	0.000	0.000	Strato1_3095_78023_L_0									
28 D	10.26	0.000	102.6	51.30	102.6	51.30	V-C	3.8277E+04	-5.400	0.000	1.000	1.000
51.30	0.000	0.000	Strato2_84780_84781_L_0									
29 D	10.64	0.000	106.4	53.20	106.4	53.20	V-C	3.8277E+04	-5.600	0.000	1.000	1.000
53.20	0.000	0.000	Strato2_84780_84781_L_0									
30 D	11.02	0.000	110.2	55.10	110.2	55.10	V-C	3.8277E+04	-5.800	0.000	1.000	1.000
55.10	0.000	0.000	Strato2_84780_84781_L_0									
31 D	11.40	0.000	114.0	57.00	114.0	57.00	V-C	3.8277E+04	-6.000	0.000	1.000	1.000
57.00	0.000	0.000	Strato2_84780_84781_L_0									
32 D	11.78	0.000	117.8	58.90	117.8	58.90	V-C	3.8277E+04	-6.200	0.000	1.000	1.000
58.90	0.000	0.000	Strato2_84780_84781_L_0									
33 D	12.16	0.000	121.6	60.80	121.6	60.80	V-C	3.8277E+04	-6.400	0.000	1.000	1.000
60.80	0.000	0.000	Strato2_84780_84781_L_0									
34 D	12.54	0.000	125.4	62.70	125.4	62.70	V-C	3.8277E+04	-6.600	0.000	1.000	1.000
62.70	0.000	0.000	Strato2_84780_84781_L_0									
35 D	12.92	0.000	129.2	64.60	129.2	64.60	V-C	3.8277E+04	-6.800	0.000	1.000	1.000
64.60	0.000	0.000	Strato2_84780_84781_L_0									
36 D	13.30	0.000	133.0	66.50	133.0	66.50	V-C	3.8277E+04	-7.000	0.000	1.000	1.000
66.50	0.000	0.000	Strato2_84780_84781_L_0									
37 D	13.68	0.000	136.8	68.40	136.8	68.40	V-C	3.8277E+04	-7.200	0.000	1.000	1.000
68.40	0.000	0.000	Strato2_84780_84781_L_0									
38 D	14.06	0.000	140.6	70.30	140.6	70.30	V-C	3.8277E+04	-7.400	0.000	1.000	1.000
70.30	0.000	0.000	Strato2_84780_84781_L_0									
39 D	14.44	0.000	144.4	72.20	144.4	72.20	V-C	3.8277E+04	-7.600	0.000	1.000	1.000
72.20	0.000	0.000	Strato2_84780_84781_L_0									
40 D	14.82	0.000	148.2	74.10	148.2	74.10	V-C	3.8277E+04	-7.800	0.000	1.000	1.000
74.10	0.000	0.000	Strato2_84780_84781_L_0									
41 D	15.20	0.000	152.0	76.00	152.0	76.00	V-C	3.8277E+04	-8.000	0.000	1.000	1.000
76.00	0.000	0.000	Strato2_84780_84781_L_0									
42 D	15.58	0.000	155.8	77.90	155.8	77.90	V-C	3.8277E+04	-8.200	0.000	1.000	1.000
77.90	0.000	0.000	Strato2_84780_84781_L_0									
43 D	15.96	0.000	159.6	79.80	159.6	79.80	V-C	3.8277E+04	-8.400	0.000	1.000	1.000
79.80	0.000	0.000	Strato2_84780_84781_L_0									
44 D	16.34	0.000	163.4	81.70	163.4	81.70	V-C	3.8277E+04	-8.600	0.000	1.000	1.000
81.70	0.000	0.000	Strato2_84780_84781_L_0									
45 D	16.72	0.000	167.2	83.60	167.2	83.60	V-C	3.8277E+04	-8.800	0.000	1.000	1.000
83.60	0.000	0.000	Strato2_84780_84781_L_0									
46 D	17.10	0.000	171.0	85.50	171.0	85.50	V-C	3.8277E+04	-9.000	0.000	1.000	1.000
85.50	0.000	0.000	Strato2_84780_84781_L_0									
47 D	17.48	0.000	174.8	87.40	174.8	87.40	V-C	3.8277E+04	-9.200	0.000	1.000	1.000
87.40	0.000	0.000	Strato2_84780_84781_L_0									
48 D	17.86	0.000	178.6	89.30	178.6	89.30	V-C	3.8277E+04	-9.400	0.000	1.000	1.000
89.30	0.000	0.000	Strato2_84780_84781_L_0									
49 D	18.24	0.000	182.4	91.20	182.4	91.20	V-C	3.8277E+04	-9.600	0.000	1.000	1.000
91.20	0.000	0.000	Strato2_84780_84781_L_0									

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1120 di 1221
50 D 18.62 0.000 186.2 93.10 186.2 93.10	V-C	3.8277E+04	-9.800 0.000	1.000	1.000
93.10 0.000 0.000 Strato2_84780_84781_L_0					
51 D 19.00 0.000 190.0 95.00 190.0 95.00	V-C	3.8277E+04	-10.00 0.000	1.000	1.000
95.00 0.000 0.000 Strato2_84780_84781_L_0					
52 D 9.690 0.000 193.8 96.90 193.8 96.90	V-C	3.8277E+04	-10.20 0.000	1.000	1.000
96.90 0.000 0.000 Strato2_84780_84781_L_0					

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019  19:21:28  |
+-----+
    
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 51
 CURRENT TIME IS 1.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019  19:21:28  |
+-----+
    
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 4

Tieback_78031 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 CURRENT TIME IS 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

ITER 0 RNORM = 0.000  RMNORM= 0.000
      RINORM=0.1258E+05 RIMNOR= 0.000
      RENORM= 0.000  REMNOR= 0.000  RATIO = 0.000  TOLER =0.1000E-03  CONVERGED !
      RFMAX = 19.00  RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =0.1258E+05 RDR = 0.000
      RATIOT= 0.000  RATIOR= 0.000
      MAX UN= 0.000  IEQ= 104 NODE 52 DOF 2 X-ROT. F
      MIN UN= 0.000  IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
```

```

ITER 1 RNORM = 0.000  RMNORM= 0.000
      RINORM=0.1258E+05 RIMNOR= 0.000
      RENORM= 0.000  REMNOR= 0.000  RATIO = 0.000  TOLER =0.1000E-03  CONVERGED !
      RFMAX = 19.00  RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =0.1258E+05 RDR = 0.000
      RATIOT= 0.000  RATIOR= 0.000
      MAX UN= 0.000  IEQ= 104 NODE 52 DOF 2 X-ROT. F
      MIN UN= 0.000  IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
      NO. OF CONTACT CONSTRAINT VIOLATIONS 0
    
```

```

ITER 2 RNORM = 0.000  RMNORM= 0.000
      RINORM=0.1258E+05 RIMNOR= 0.000
      RENORM= 0.000  REMNOR= 0.000  RATIO = 0.000  TOLER =0.1000E-03  CONVERGED !
      RFMAX = 19.00  RMMAX = 0.000
      RTSMAL=0.1000E-03 RMSMAL= 0.000
      RDT =0.1258E+05 RDR = 0.000
      RATIOT= 0.000  RATIOR= 0.000
    
```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto INOR

Lotto 12

Codifica Documento E E2 CL GA 2701 002

Rev. A

Foglio 1121 di 1221

MAX UN= 0.000 IEQ= 104 NODE 52 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

-----+
| PARATIEPLUS(TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| |
| 1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63 |
| Exe Time :29 July 2019 19:21:28 |
|-----+

1468.1 - GA27 - Cepav2
SOLUTION REACHED USING 2 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

Y-DISPL.F X-ROT. F
(02) (04) (

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

-----+
| PARATIEPLUS(TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| |
| 1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63 |
| Exe Time :29 July 2019 19:21:28 |
|-----+

1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 1

0_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 52
CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

Table with 12 columns: EL * Peg, FORCE Su_a, DISPL-Y Su_p, VERTICAL-P LAYER, HORIZON.-P, MAX-V-P, MAX-H-P, STATE, STIFFNESS Z-LEVEL, PORE, E FACTOR, UFACTOR. It contains 16 rows of data for different elements.

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.			Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1122 di 1221
28.50	0.000	0.000	Strato1_3095_78023_L_0				
17 D	6.080	0.000	60.80 30.40	60.80	30.40	UL-RL 4.9931E+04	-3.200 0.000 1.000 1.000
30.40	0.000	0.000	Strato1_3095_78023_L_0				
18 D	6.460	0.000	64.60 32.30	64.60	32.30	UL-RL 4.9931E+04	-3.400 0.000 1.000 1.000
32.30	0.000	0.000	Strato1_3095_78023_L_0				
19 D	6.840	0.000	68.40 34.20	68.40	34.20	UL-RL 4.9931E+04	-3.600 0.000 1.000 1.000
34.20	0.000	0.000	Strato1_3095_78023_L_0				
20 D	7.220	0.000	72.20 36.10	72.20	36.10	UL-RL 4.9931E+04	-3.800 0.000 1.000 1.000
36.10	0.000	0.000	Strato1_3095_78023_L_0				
21 D	7.600	0.000	76.00 38.00	76.00	38.00	UL-RL 4.9931E+04	-4.000 0.000 1.000 1.000
38.00	0.000	0.000	Strato1_3095_78023_L_0				
22 D	7.980	0.000	79.80 39.90	79.80	39.90	UL-RL 4.9931E+04	-4.200 0.000 1.000 1.000
39.90	0.000	0.000	Strato1_3095_78023_L_0				
23 D	8.360	0.000	83.60 41.80	83.60	41.80	UL-RL 4.9931E+04	-4.400 0.000 1.000 1.000
41.80	0.000	0.000	Strato1_3095_78023_L_0				
24 D	8.740	0.000	87.40 43.70	87.40	43.70	UL-RL 4.9931E+04	-4.600 0.000 1.000 1.000
43.70	0.000	0.000	Strato1_3095_78023_L_0				
25 D	9.120	0.000	91.20 45.60	91.20	45.60	UL-RL 4.9931E+04	-4.800 0.000 1.000 1.000
45.60	0.000	0.000	Strato1_3095_78023_L_0				
26 D	9.500	0.000	95.00 47.50	95.00	47.50	UL-RL 4.9931E+04	-5.000 0.000 1.000 1.000
47.50	0.000	0.000	Strato1_3095_78023_L_0				
27 D	9.880	0.000	98.80 49.40	98.80	49.40	UL-RL 4.9931E+04	-5.200 0.000 1.000 1.000
49.40	0.000	0.000	Strato1_3095_78023_L_0				
28 D	10.26	0.000	102.6 51.30	102.6	51.30	UL-RL 2.1187E+05	-5.400 0.000 1.000 1.000
51.30	0.000	0.000	Strato2_84780_84781_L_0				
29 D	10.64	0.000	106.4 53.20	106.4	53.20	UL-RL 2.1187E+05	-5.600 0.000 1.000 1.000
53.20	0.000	0.000	Strato2_84780_84781_L_0				
30 D	11.02	0.000	110.2 55.10	110.2	55.10	UL-RL 2.1187E+05	-5.800 0.000 1.000 1.000
55.10	0.000	0.000	Strato2_84780_84781_L_0				
31 D	11.40	0.000	114.0 57.00	114.0	57.00	UL-RL 2.1187E+05	-6.000 0.000 1.000 1.000
57.00	0.000	0.000	Strato2_84780_84781_L_0				
32 D	11.78	0.000	117.8 58.90	117.8	58.90	UL-RL 2.1187E+05	-6.200 0.000 1.000 1.000
58.90	0.000	0.000	Strato2_84780_84781_L_0				
33 D	12.16	0.000	121.6 60.80	121.6	60.80	UL-RL 2.1187E+05	-6.400 0.000 1.000 1.000
60.80	0.000	0.000	Strato2_84780_84781_L_0				
34 D	12.54	0.000	125.4 62.70	125.4	62.70	UL-RL 2.1187E+05	-6.600 0.000 1.000 1.000
62.70	0.000	0.000	Strato2_84780_84781_L_0				
35 D	12.92	0.000	129.2 64.60	129.2	64.60	UL-RL 2.1187E+05	-6.800 0.000 1.000 1.000
64.60	0.000	0.000	Strato2_84780_84781_L_0				
36 D	13.30	0.000	133.0 66.50	133.0	66.50	UL-RL 2.1187E+05	-7.000 0.000 1.000 1.000
66.50	0.000	0.000	Strato2_84780_84781_L_0				
37 D	13.68	0.000	136.8 68.40	136.8	68.40	UL-RL 2.1187E+05	-7.200 0.000 1.000 1.000
68.40	0.000	0.000	Strato2_84780_84781_L_0				
38 D	14.06	0.000	140.6 70.30	140.6	70.30	UL-RL 2.1187E+05	-7.400 0.000 1.000 1.000
70.30	0.000	0.000	Strato2_84780_84781_L_0				
39 D	14.44	0.000	144.4 72.20	144.4	72.20	UL-RL 2.1187E+05	-7.600 0.000 1.000 1.000
72.20	0.000	0.000	Strato2_84780_84781_L_0				
40 D	14.82	0.000	148.2 74.10	148.2	74.10	UL-RL 2.1187E+05	-7.800 0.000 1.000 1.000
74.10	0.000	0.000	Strato2_84780_84781_L_0				
41 D	15.20	0.000	152.0 76.00	152.0	76.00	UL-RL 2.1187E+05	-8.000 0.000 1.000 1.000
76.00	0.000	0.000	Strato2_84780_84781_L_0				
42 D	15.58	0.000	155.8 77.90	155.8	77.90	UL-RL 2.1187E+05	-8.200 0.000 1.000 1.000
77.90	0.000	0.000	Strato2_84780_84781_L_0				
43 D	15.96	0.000	159.6 79.80	159.6	79.80	UL-RL 2.1187E+05	-8.400 0.000 1.000 1.000
79.80	0.000	0.000	Strato2_84780_84781_L_0				
44 D	16.34	0.000	163.4 81.70	163.4	81.70	UL-RL 2.1187E+05	-8.600 0.000 1.000 1.000
81.70	0.000	0.000	Strato2_84780_84781_L_0				
45 D	16.72	0.000	167.2 83.60	167.2	83.60	UL-RL 2.1187E+05	-8.800 0.000 1.000 1.000
83.60	0.000	0.000	Strato2_84780_84781_L_0				
46 D	17.10	0.000	171.0 85.50	171.0	85.50	UL-RL 2.1187E+05	-9.000 0.000 1.000 1.000
85.50	0.000	0.000	Strato2_84780_84781_L_0				
47 D	17.48	0.000	174.8 87.40	174.8	87.40	UL-RL 2.1187E+05	-9.200 0.000 1.000 1.000
87.40	0.000	0.000	Strato2_84780_84781_L_0				
48 D	17.86	0.000	178.6 89.30	178.6	89.30	UL-RL 2.1187E+05	-9.400 0.000 1.000 1.000
89.30	0.000	0.000	Strato2_84780_84781_L_0				
49 D	18.24	0.000	182.4 91.20	182.4	91.20	UL-RL 2.1187E+05	-9.600 0.000 1.000 1.000
91.20	0.000	0.000	Strato2_84780_84781_L_0				
50 D	18.62	0.000	186.2 93.10	186.2	93.10	UL-RL 2.1187E+05	-9.800 0.000 1.000 1.000
93.10	0.000	0.000	Strato2_84780_84781_L_0				
51 D	19.00	0.000	190.0 95.00	190.0	95.00	UL-RL 2.1187E+05	-10.00 0.000 1.000 1.000
95.00	0.000	0.000	Strato2_84780_84781_L_0				
52 D	9.690	0.000	193.8 96.90	193.8	96.90	UL-RL 2.1187E+05	-10.20 0.000 1.000 1.000
96.90	0.000	0.000	Strato2_84780_84781_L_0				

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| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| |
| 1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63 |
| Exe Time :29 July 2019 19:21:28 |
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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1124 di 1221							
36 D	13.30	0.000	133.0	66.50	133.0	66.50	UL-RL	1.1483E+05	-7.000	0.000	1.000	1.000
66.50	0.000	0.000	Strato2_84780_84781_L_0									
37 D	13.68	0.000	136.8	68.40	136.8	68.40	UL-RL	1.1483E+05	-7.200	0.000	1.000	1.000
68.40	0.000	0.000	Strato2_84780_84781_L_0									
38 D	14.06	0.000	140.6	70.30	140.6	70.30	UL-RL	1.1483E+05	-7.400	0.000	1.000	1.000
70.30	0.000	0.000	Strato2_84780_84781_L_0									
39 D	14.44	0.000	144.4	72.20	144.4	72.20	UL-RL	1.1483E+05	-7.600	0.000	1.000	1.000
72.20	0.000	0.000	Strato2_84780_84781_L_0									
40 D	14.82	0.000	148.2	74.10	148.2	74.10	UL-RL	1.1483E+05	-7.800	0.000	1.000	1.000
74.10	0.000	0.000	Strato2_84780_84781_L_0									
41 D	15.20	0.000	152.0	76.00	152.0	76.00	UL-RL	1.1483E+05	-8.000	0.000	1.000	1.000
76.00	0.000	0.000	Strato2_84780_84781_L_0									
42 D	15.58	0.000	155.8	77.90	155.8	77.90	UL-RL	1.1483E+05	-8.200	0.000	1.000	1.000
77.90	0.000	0.000	Strato2_84780_84781_L_0									
43 D	15.96	0.000	159.6	79.80	159.6	79.80	UL-RL	1.1483E+05	-8.400	0.000	1.000	1.000
79.80	0.000	0.000	Strato2_84780_84781_L_0									
44 D	16.34	0.000	163.4	81.70	163.4	81.70	UL-RL	1.1483E+05	-8.600	0.000	1.000	1.000
81.70	0.000	0.000	Strato2_84780_84781_L_0									
45 D	16.72	0.000	167.2	83.60	167.2	83.60	UL-RL	1.1483E+05	-8.800	0.000	1.000	1.000
83.60	0.000	0.000	Strato2_84780_84781_L_0									
46 D	17.10	0.000	171.0	85.50	171.0	85.50	UL-RL	1.1483E+05	-9.000	0.000	1.000	1.000
85.50	0.000	0.000	Strato2_84780_84781_L_0									
47 D	17.48	0.000	174.8	87.40	174.8	87.40	UL-RL	1.1483E+05	-9.200	0.000	1.000	1.000
87.40	0.000	0.000	Strato2_84780_84781_L_0									
48 D	17.86	0.000	178.6	89.30	178.6	89.30	UL-RL	1.1483E+05	-9.400	0.000	1.000	1.000
89.30	0.000	0.000	Strato2_84780_84781_L_0									
49 D	18.24	0.000	182.4	91.20	182.4	91.20	UL-RL	1.1483E+05	-9.600	0.000	1.000	1.000
91.20	0.000	0.000	Strato2_84780_84781_L_0									
50 D	18.62	0.000	186.2	93.10	186.2	93.10	UL-RL	1.1483E+05	-9.800	0.000	1.000	1.000
93.10	0.000	0.000	Strato2_84780_84781_L_0									
51 D	19.00	0.000	190.0	95.00	190.0	95.00	UL-RL	1.1483E+05	-10.00	0.000	1.000	1.000
95.00	0.000	0.000	Strato2_84780_84781_L_0									
52 D	9.690	0.000	193.8	96.90	193.8	96.90	UL-RL	1.1483E+05	-10.20	0.000	1.000	1.000
96.90	0.000	0.000	Strato2_84780_84781_L_0									

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
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|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63          |
|          Exe Time :29 July 2019          19:21:28          |
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 51
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1125 di 1221
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29	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000
31	0.0000	0.0000	0.0000	0.0000
32	0.0000	0.0000	0.0000	0.0000
33	0.0000	0.0000	0.0000	0.0000
34	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000
36	0.0000	0.0000	0.0000	0.0000
37	0.0000	0.0000	0.0000	0.0000
38	0.0000	0.0000	0.0000	0.0000
39	0.0000	0.0000	0.0000	0.0000
40	0.0000	0.0000	0.0000	0.0000
41	0.0000	0.0000	0.0000	0.0000
42	0.0000	0.0000	0.0000	0.0000
43	0.0000	0.0000	0.0000	0.0000
44	0.0000	0.0000	0.0000	0.0000
45	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000
47	0.0000	0.0000	0.0000	0.0000
48	0.0000	0.0000	0.0000	0.0000
49	0.0000	0.0000	0.0000	0.0000
50	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	0.0000	0.0000

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
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|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63  |
|          Exe Time :29 July 2019  19:21:28  |
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 4

Tieback_78031 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 CURRENT TIME IS 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	0.0000	0.0000	0.0000	0.0000	64239.	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS
ITER	0	RNORM = 0.000	RMNORM= 0.000						
		RINORM= 9106.	RIMNOR= 0.000						
		RENORM= 2740.	REMNR= 0.000	RATIO =0.5485	TOLER =0.1000E-03				NOT CONVERGED
		RFMAX = 19.75	RMMAX = 0.000						
		RTSMAL=0.1000E-03	RMSMAL= 0.000						
		RDT = 9106.	RDR = 0.000						
		RATIOT=0.5485	RATIOR= 0.000						
		MAX UN= 11.10	IEQ= 53 NODE	27 DOF	1	Y-DISPL.F			
		MIN UN= 0.000	IEQ= 1 NODE	1 DOF	1	Y-DISPL.F			
		NO. OF CONTACT CONSTRAINT VIOLATIONS							0
ITER	2	RNORM = 0.000	RMNORM= 0.000						
		RINORM= 9106.	RIMNOR= 0.000						
		RENORM= 277.7	REMNR=0.1416E-22	RATIO =0.1746	TOLER =0.1000E-03				NOT CONVERGED
		RFMAX = 19.75	RMMAX = 0.000						
		RTSMAL=0.1000E-03	RMSMAL= 0.000						
		RDT = 9106.	RDR = 0.000						
		RATIOT=0.1746	RATIOR= 0.000						
		MAX UN= 5.043	IEQ= 55 NODE	28 DOF	1	Y-DISPL.F			
		MIN UN=-.2203E-11	IEQ= 85 NODE	43 DOF	1	Y-DISPL.F			
		NO. OF CONTACT CONSTRAINT VIOLATIONS							0
ITER	3	RNORM = 0.000	RMNORM= 0.000						
		RINORM= 9106.	RIMNOR= 0.000						
		RENORM= 404.6	REMNR=0.1219E-21	RATIO =0.2108	TOLER =0.1000E-03				NOT CONVERGED
		RFMAX = 19.75	RMMAX = 0.000						
		RTSMAL=0.1000E-03	RMSMAL= 0.000						
		RDT = 9106.	RDR = 0.000						
		RATIOT=0.2108	RATIOR= 0.000						
		MAX UN= 12.26	IEQ= 55 NODE	28 DOF	1	Y-DISPL.F			
		MIN UN=-.1223E-09	IEQ= 21 NODE	11 DOF	1	Y-DISPL.F			
		NO. OF CONTACT CONSTRAINT VIOLATIONS							0
ITER	4	RNORM = 0.000	RMNORM= 0.000						



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1126 di 1221
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RINORM= 9106. RIMNOR= 0.000
 RENORM= 60.75 REMNOR=0.6660E-22 RATIO =0.8168E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 19.75 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT = 9106. RDR = 0.000
 RATIO=0.8168E-01 RATIO= 0.000
 MAX UN= 7.669 IEQ= 65 NODE 33 DOF 1 Y-DISPL.F
 MIN UN=-.6625E-10 IEQ= 15 NODE 8 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM= 9106. RIMNOR= 0.000
 RENORM=0.7063E-01 REMNOR=0.4590E-22 RATIO =0.2785E-02 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 19.75 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT = 9106. RDR = 0.000
 RATIO=0.2785E-02 RATIO= 0.000
 MAX UN=0.2658 IEQ= 67 NODE 34 DOF 1 Y-DISPL.F
 MIN UN=-.3559E-10 IEQ= 37 NODE 19 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000
 RINORM= 9106. RIMNOR= 0.000
 RENORM=0.2274E-19 REMNOR=0.8395E-22 RATIO =0.1580E-11 TOLER =0.1000E-03 CONVERGED !
 RFMAX = 19.75 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT = 9106. RDR = 0.000
 RATIO=0.1580E-11 RATIO= 0.000
 MAX UN=0.5457E-10 IEQ= 25 NODE 13 DOF 1 Y-DISPL.F
 MIN UN=-.7156E-10 IEQ= 23 NODE 12 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                               1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63                |
|                               Exe Time :29 July 2019      19:21:28                          |
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1468.1 - GA27 - Cepav2
 SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)
1	2.1283799E-03	1.0574121E-02
2	4.2432040E-03	1.0574121E-02
3	6.3535796E-03	1.0507392E-02
4	8.4373321E-03	1.0308234E-02
5	1.0468217E-02	9.9792306E-03
6	1.2420611E-02	9.5240310E-03
7	1.4269732E-02	8.9473702E-03
8	1.5991852E-02	8.2550955E-03
9	1.7564528E-02	7.4541874E-03
10	1.8966848E-02	6.5531027E-03
11	2.0179774E-02	5.5620923E-03
12	2.1186486E-02	4.4930947E-03
13	2.1972714E-02	3.3596299E-03
14	2.2527042E-02	2.1767229E-03
15	2.2841204E-02	9.6083692E-04
16	2.2910368E-02	-2.7017539E-04
17	2.2733404E-02	-1.4971229E-03
18	2.2313148E-02	-2.6996192E-03
19	2.1656607E-02	-3.8563632E-03
20	2.0775131E-02	-4.9451829E-03
21	1.9684604E-02	-5.9430259E-03
22	1.8405586E-02	-6.8259688E-03
23	1.6963532E-02	-7.5691785E-03
24	1.5388946E-02	-8.1469248E-03
25	1.3717569E-02	-8.5325679E-03
26	1.1990563E-02	-8.6985514E-03
27	1.0254700E-02	-8.6163977E-03
28	8.5625153E-03	-8.2566994E-03
29	6.9691029E-03	-7.6407569E-03
30	5.5184623E-03	-6.8410679E-03
31	4.2403693E-03	-5.9259742E-03
32	3.1517401E-03	-4.9559479E-03

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1128 di 1221							
20 D	5.569	-2.0775E-02	87.29	27.85	87.29	43.64	ACTIVE	0.000	-3.800	0.000	1.000	1.000
27.85	0.000	0.000	Strato1_3095_78023_L_0									
21 D	5.780	-1.9685E-02	90.60	28.90	90.60	45.30	ACTIVE	0.000	-4.000	0.000	1.000	1.000
28.90	0.000	0.000	Strato1_3095_78023_L_0									
22 D	5.993	-1.8406E-02	93.94	29.97	93.94	46.97	ACTIVE	0.000	-4.200	0.000	1.000	1.000
29.97	0.000	0.000	Strato1_3095_78023_L_0									
23 D	6.208	-1.6964E-02	97.30	31.04	97.30	48.65	ACTIVE	0.000	-4.400	0.000	1.000	1.000
31.04	0.000	0.000	Strato1_3095_78023_L_0									
24 D	6.425	-1.5389E-02	100.7	32.12	100.7	50.35	ACTIVE	0.000	-4.600	0.000	1.000	1.000
32.12	0.000	0.000	Strato1_3095_78023_L_0									
25 D	6.643	-1.3718E-02	104.1	33.21	104.1	52.06	ACTIVE	0.000	-4.800	0.000	1.000	1.000
33.21	0.000	0.000	Strato1_3095_78023_L_0									
26 D	6.862	-1.1991E-02	107.6	34.31	107.6	53.78	ACTIVE	0.000	-5.000	0.000	1.000	1.000
34.31	0.000	0.000	Strato1_3095_78023_L_0									
27 D	7.083	-1.0255E-02	111.0	35.41	111.0	55.51	ACTIVE	0.000	-5.200	0.000	1.000	1.000
35.41	0.000	0.000	Strato1_3095_78023_L_0									
28 D	1.695	-8.5625E-03	114.5	8.474	114.5	57.24	ACTIVE	0.000	-5.400	0.000	1.000	1.000
8.474	0.000	0.000	Strato2_84780_84781_L_0									
29 D	1.868	-6.9691E-03	118.0	9.340	118.0	58.99	ACTIVE	0.000	-5.600	0.000	1.000	1.000
9.340	0.000	0.000	Strato2_84780_84781_L_0									
30 D	2.042	-5.5185E-03	121.5	10.21	121.5	60.75	ACTIVE	0.000	-5.800	0.000	1.000	1.000
10.21	0.000	0.000	Strato2_84780_84781_L_0									
31 D	2.217	-4.2404E-03	125.0	11.08	125.0	62.51	ACTIVE	0.000	-6.000	0.000	1.000	1.000
11.08	0.000	0.000	Strato2_84780_84781_L_0									
32 D	2.392	-3.1517E-03	128.6	11.96	128.6	64.28	ACTIVE	0.000	-6.200	0.000	1.000	1.000
11.96	0.000	0.000	Strato2_84780_84781_L_0									
33 D	2.568	-2.2581E-03	132.1	12.84	132.1	66.05	ACTIVE	0.000	-6.400	0.000	1.000	1.000
12.84	0.000	0.000	Strato2_84780_84781_L_0									
34 D	2.745	-1.5548E-03	135.7	13.72	135.7	67.83	ACTIVE	0.000	-6.600	0.000	1.000	1.000
13.72	0.000	0.000	Strato2_84780_84781_L_0									
35 D	5.211	-1.0280E-03	139.2	26.06	139.2	69.62	UL-RL	4.2375E+04	-6.800	0.000	1.000	1.000
26.06	0.000	0.000	Strato2_84780_84781_L_0									
36 D	8.722	-6.5600E-04	142.8	43.61	142.8	71.41	UL-RL	4.2375E+04	-7.000	0.000	1.000	1.000
43.61	0.000	0.000	Strato2_84780_84781_L_0									
37 D	11.15	-4.1239E-04	146.4	55.73	146.4	73.20	UL-RL	4.2375E+04	-7.200	0.000	1.000	1.000
55.73	0.000	0.000	Strato2_84780_84781_L_0									
38 D	12.71	-2.6969E-04	150.0	63.57	150.0	75.00	UL-RL	4.2375E+04	-7.400	0.000	1.000	1.000
63.57	0.000	0.000	Strato2_84780_84781_L_0									
39 D	13.65	-2.0211E-04	153.6	68.24	153.6	76.80	UL-RL	4.2375E+04	-7.600	0.000	1.000	1.000
68.24	0.000	0.000	Strato2_84780_84781_L_0									
40 D	14.14	-1.8714E-04	157.2	70.68	157.2	78.61	UL-RL	4.2375E+04	-7.800	0.000	1.000	1.000
70.68	0.000	0.000	Strato2_84780_84781_L_0									
41 D	14.34	-2.0621E-04	160.8	71.69	160.8	80.42	UL-RL	4.2375E+04	-8.000	0.000	1.000	1.000
71.69	0.000	0.000	Strato2_84780_84781_L_0									
42 D	14.37	-2.4484E-04	164.5	71.86	164.5	82.24	UL-RL	4.2375E+04	-8.200	0.000	1.000	1.000
71.86	0.000	0.000	Strato2_84780_84781_L_0									
43 D	14.33	-2.9242E-04	168.1	71.67	168.1	84.06	UL-RL	4.2375E+04	-8.400	0.000	1.000	1.000
71.67	0.000	0.000	Strato2_84780_84781_L_0									
44 D	14.28	-3.4166E-04	171.8	71.40	171.8	85.88	UL-RL	4.2375E+04	-8.600	0.000	1.000	1.000
71.40	0.000	0.000	Strato2_84780_84781_L_0									
45 D	14.25	-3.8808E-04	175.4	71.26	175.4	87.70	UL-RL	4.2375E+04	-8.800	0.000	1.000	1.000
71.26	0.000	0.000	Strato2_84780_84781_L_0									
46 D	14.27	-4.2939E-04	179.1	71.33	179.1	89.53	UL-RL	4.2375E+04	-9.000	0.000	1.000	1.000
71.33	0.000	0.000	Strato2_84780_84781_L_0									
47 D	14.33	-4.6490E-04	182.7	71.66	182.7	91.36	UL-RL	4.2375E+04	-9.200	0.000	1.000	1.000
71.66	0.000	0.000	Strato2_84780_84781_L_0									
48 D	14.44	-4.9505E-04	186.4	72.21	186.4	93.19	UL-RL	4.2375E+04	-9.400	0.000	1.000	1.000
72.21	0.000	0.000	Strato2_84780_84781_L_0									
49 D	14.59	-5.2093E-04	190.1	72.97	190.1	95.05	UL-RL	4.2375E+04	-9.600	0.000	1.000	1.000
72.97	0.000	0.000	Strato2_84780_84781_L_0									
50 D	14.77	-5.4393E-04	193.8	73.86	193.8	96.91	UL-RL	4.2375E+04	-9.800	0.000	1.000	1.000
73.86	0.000	0.000	Strato2_84780_84781_L_0									
51 D	14.96	-5.6539E-04	197.5	74.81	197.5	98.77	UL-RL	4.2375E+04	-10.000	0.000	1.000	1.000
74.81	0.000	0.000	Strato2_84780_84781_L_0									
52 D	7.579	-5.8630E-04	201.3	75.79	201.3	100.6	UL-RL	4.2375E+04	-10.200	0.000	1.000	1.000
75.79	0.000	0.000	Strato2_84780_84781_L_0									

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63                                                                            |
|          Exe Time :29 July 2019  19:21:28                                                                                                                                            |
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 2

O_R :

ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 52

CURRENT TIME IS 3.0000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1129 di 1221
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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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
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	not available									
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
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	not available									
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
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	not available									
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available									
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
0.000	0.000	0.000	not available									
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available									
24	0.000	--	--	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
0.000	0.000	0.000	not available									
25	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available									
26	0.000	--	--	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
0.000	0.000	0.000	not available									
27	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available									
28 D	18.88	8.5625E-03	0.9500	94.39	102.6	94.39	PASSIVE	0.000	-5.400	0.000	1.000	1.000
94.39	0.000	0.000	Strato2_84780_84781_L_0									
29 D	19.06	6.9691E-03	4.750	95.31	106.4	95.31	V-C	8050.	-5.600	0.000	1.000	1.000
95.31	0.000	0.000	Strato2_84780_84781_L_0									
30 D	17.25	5.5185E-03	8.550	86.27	110.2	86.27	V-C	8050.	-5.800	0.000	1.000	1.000
86.27	0.000	0.000	Strato2_84780_84781_L_0									
31 D	15.68	4.2404E-03	12.35	78.39	114.0	78.39	V-C	8050.	-6.000	0.000	1.000	1.000
78.39	0.000	0.000	Strato2_84780_84781_L_0									
32 D	14.38	3.1517E-03	16.15	71.91	117.8	71.91	V-C	8050.	-6.200	0.000	1.000	1.000
71.91	0.000	0.000	Strato2_84780_84781_L_0									
33 D	13.38	2.2581E-03	19.95	66.92	121.6	66.92	V-C	8050.	-6.400	0.000	1.000	1.000
66.92	0.000	0.000	Strato2_84780_84781_L_0									
34 D	12.68	1.5548E-03	23.75	63.41	125.4	63.41	V-C	8050.	-6.600	0.000	1.000	1.000
63.41	0.000	0.000	Strato2_84780_84781_L_0									
35 D	10.93	1.0280E-03	27.55	54.66	129.2	64.60	UL-RL	2.4150E+04	-6.800	0.000	1.000	1.000
54.66	0.000	0.000	Strato2_84780_84781_L_0									
36 D	9.626	6.5600E-04	31.35	48.13	133.0	66.50	UL-RL	2.4150E+04	-7.000	0.000	1.000	1.000
48.13	0.000	0.000	Strato2_84780_84781_L_0									
37 D	8.926	4.1239E-04	35.15	44.63	136.8	68.40	UL-RL	2.4150E+04	-7.200	0.000	1.000	1.000
44.63	0.000	0.000	Strato2_84780_84781_L_0									
38 D	8.703	2.6969E-04	38.95	43.51	140.6	70.30	UL-RL	2.4150E+04	-7.400	0.000	1.000	1.000
43.51	0.000	0.000	Strato2_84780_84781_L_0									
39 D	8.833	2.0211E-04	42.75	44.17	144.4	72.20	UL-RL	2.4150E+04	-7.600	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1130 di 1221
44.17	0.000	0.000	Strato2_84780_84781_L_0		
40 D	9.210	1.8714E-04	46.55 46.05 148.2	74.10	UL-RL 2.4150E+04 -7.800 0.000 1.000 1.000
46.05	0.000	0.000	Strato2_84780_84781_L_0		
41 D	9.744	2.0621E-04	50.35 48.72 152.0	76.00	UL-RL 2.4150E+04 -8.000 0.000 1.000 1.000
48.72	0.000	0.000	Strato2_84780_84781_L_0		
42 D	10.37	2.4484E-04	54.15 51.84 155.8	77.90	UL-RL 2.4150E+04 -8.200 0.000 1.000 1.000
51.84	0.000	0.000	Strato2_84780_84781_L_0		
43 D	11.03	2.9242E-04	57.95 55.15 159.6	79.80	UL-RL 2.4150E+04 -8.400 0.000 1.000 1.000
55.15	0.000	0.000	Strato2_84780_84781_L_0		
44 D	11.70	3.4166E-04	61.75 58.48 163.4	81.70	UL-RL 2.4150E+04 -8.600 0.000 1.000 1.000
58.48	0.000	0.000	Strato2_84780_84781_L_0		
45 D	12.34	3.8808E-04	65.55 61.72 167.2	83.60	UL-RL 2.4150E+04 -8.800 0.000 1.000 1.000
61.72	0.000	0.000	Strato2_84780_84781_L_0		
46 D	12.96	4.2939E-04	69.35 64.82 171.0	85.50	UL-RL 2.4150E+04 -9.000 0.000 1.000 1.000
64.82	0.000	0.000	Strato2_84780_84781_L_0		
47 D	13.55	4.6490E-04	73.15 67.77 174.8	87.40	UL-RL 2.4150E+04 -9.200 0.000 1.000 1.000
67.77	0.000	0.000	Strato2_84780_84781_L_0		
48 D	14.11	4.9505E-04	76.95 70.57 178.6	89.30	UL-RL 2.4150E+04 -9.400 0.000 1.000 1.000
70.57	0.000	0.000	Strato2_84780_84781_L_0		
49 D	14.65	5.2093E-04	80.75 73.26 182.4	91.20	UL-RL 2.4150E+04 -9.600 0.000 1.000 1.000
73.26	0.000	0.000	Strato2_84780_84781_L_0		
50 D	15.17	5.4393E-04	84.55 75.87 186.2	93.10	UL-RL 2.4150E+04 -9.800 0.000 1.000 1.000
75.87	0.000	0.000	Strato2_84780_84781_L_0		
51 D	15.69	5.6539E-04	88.35 78.44 190.0	95.00	UL-RL 2.4150E+04 -10.00 0.000 1.000 1.000
78.44	0.000	0.000	Strato2_84780_84781_L_0		
52 D	8.098	5.8630E-04	92.15 80.98 193.8	96.90	UL-RL 2.4150E+04 -10.20 0.000 1.000 1.000
80.98	0.000	0.000	Strato2_84780_84781_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019  19:21:28
|
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1468.1 - GA27 - Cepav2

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STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 51
CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1-5.58220E-13	5.58220E-13	-7.77711E-14	-4.50862E-13	
2	-31.643	31.643	6.50313E-13	-6.3286
3	-31.155	31.155	6.3286	-12.560
4	-30.417	30.417	12.560	-18.643
5	-29.425	29.425	18.643	-24.528
6	-28.172	28.172	24.528	-30.162
7	-26.652	26.652	30.162	-35.493
8	-24.862	24.862	35.493	-40.465
9	-22.642	22.642	40.465	-44.994
10	-20.001	20.001	44.994	-48.994
11	-16.981	16.981	48.994	-52.390
12	-13.589	13.589	52.390	-55.108
13	-9.8561	9.8561	55.108	-57.079
14	-5.7824	5.7824	57.079	-58.235
15	-1.3905	1.3905	58.235	-58.513
16	3.3209	-3.3209	58.513	-57.849
17	8.2709	-8.2709	57.849	-56.195
18	13.425	-13.425	56.195	-53.510
19	18.785	-18.785	53.510	-49.753
20	24.354	-24.354	49.753	-44.882
21	30.134	-30.134	44.882	-38.856
22	36.127	-36.127	38.856	-31.630
23	42.335	-42.335	31.630	-23.163
24	48.760	-48.760	23.163	-13.411
25	55.402	-55.402	13.411	-2.3307
26	62.264	-62.264	2.3307	10.122
27	69.347	-69.347	-10.122	23.992
28	52.164	-52.164	-23.992	34.424
29	34.969	-34.969	-34.424	41.418
30	19.756	-19.756	-41.418	45.369
31	6.2952	-6.2952	-45.369	46.628
32	-5.6942	5.6942	-46.628	45.489
33	-16.510	16.510	-45.489	42.187
34	-26.447	26.447	-42.187	36.898
35	-32.167	32.167	-36.898	30.464

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1131 di 1221
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36	-33.071	33.071	-30.464	23.850
37	-30.852	30.852	-23.850	17.680
38	-26.841	26.841	-17.680	12.312
39	-22.026	22.026	-12.312	7.9065
40	-17.099	17.099	-7.9065	4.4867
41	-12.506	12.506	-4.4867	1.9855
42	-8.5009	8.5009	-1.9855	0.28535
43	-5.1973	5.1973	-0.28535	-0.75411
44	-2.6124	2.6124	0.75411	-1.2766
45	-0.70452	0.70452	1.2766	-1.4175
46	0.59821	-0.59821	1.4175	-1.2978
47	1.3763	-1.3763	1.2978	-1.0226
48	1.7043	-1.7043	1.0226	-0.68172
49	1.6461	-1.6461	0.68172	-0.35250
50	1.2436	-1.2436	0.35250	-0.10379
51	0.51891	-0.51891	0.10379	-7.74866E-14

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      19:21:28
|
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 4

Tieback_78031 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	93.228	0.0000	1.45126E-03	0.0000	64239.	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

```

-----
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|
|          1468.1-GA27-Cepav2.BaseDesignSection_28.Nominal_63
|          Exe Time :29 July 2019      19:21:28
|
-----

```

FINAL INCREMENTAL ANALYSIS

SUMMARY

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

END OF PROCESS FOR PROBLEM
1468.1 - GA27 - Cepav2
NONLINEAR SOLUTION CPU TIME 0.03 [sec]
DATABASE CREATION CPU TIME..... 0.12 [sec]

5.3. Design Assumption : SLE (Rara) - File di Paratie - File di input (.d)

```

* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: SLE (Rara)
* Time:lunedì 29 luglio 2019 19:21:29
* 1: Defining general settings
UNIT m kN
TITLE 1468.1 - GA27 - Cepav2
DELTA 0.2
option param itemax 100
option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_32 0 -10.2 0 1

* 3: Defining surfaces for wall(s)

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1132 di 1221
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SOIL 0_L LeftWall_32 -10.2 0 1 0
SOIL 0_R LeftWall_32 -10.2 0 2 180

* 4: Defining soil layers

*
* Soil Profile (Strato1_3095_78023_L_0)

*
LDATA Strato1_3095_78023_L_0 0 LeftWall_32
ATREST 0.5 0.5 1
WEIGHT 19 9 10
PERMEABILITY 1E-05
RESISTANCE 0 29
YOUNG 2.5E+04 4E+04
ENDL

*
* Soil Profile (Strato2_84780_84781_L_0)

*
LDATA Strato2_84780_84781_L_0 -5.35 LeftWall_32
ATREST 0.5 0.5 1
WEIGHT 19 9 10
PERMEABILITY 1E-05
RESISTANCE 20 35
YOUNG 5E+04 1.5E+05
ENDL

* 5: Defining structural materials

* Steel material: 113 Name=S275 E=210000000 kPa
MATERIAL S275_113 2.1E+08
* Concrete material: 104 Name=C25/30 E=31475800 kPa
MATERIAL C2530_104 3.148E+07
* Rebar material: 78036 Name=S275 E=210000000 kPa
MATERIAL S275_78036 2.1E+08

* 6: Defining structural elements

* 6.1: Beams and combined Wall Elements
BEAM WallElement_33 LeftWall_32 -10.2 0 S275_113 0.08153 00 00 0

* 6.2: Supports

WIRE Tieback_78031 LeftWall_32 -0.2 S275_78036 0.0003059 0 70 0 0

* 6.3: Strips

STRIP LeftWall_32 3 3 2.33 3 0 52.08 30

* 7: Defining Steps

STEP Stage0_86326
CHANGE Strato1_3095_78023_L_0 U-FRICT=29 LeftWall_32
CHANGE Strato1_3095_78023_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato1_3095_78023_L_0 U-KA=0.319 LeftWall_32
CHANGE Strato1_3095_78023_L_0 U-KP=3.606 LeftWall_32
CHANGE Strato1_3095_78023_L_0 D-KA=0.319 LeftWall_32
CHANGE Strato1_3095_78023_L_0 D-KP=3.606 LeftWall_32
CHANGE Strato2_84780_84781_L_0 U-FRICT=35 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato2_84780_84781_L_0 U-KA=0.248 LeftWall_32
CHANGE Strato2_84780_84781_L_0 U-KP=5.02 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-KA=0.248 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-KP=5.02 LeftWall_32
CHANGE Strato1_3095_78023_L_0 U-COHE=0 LeftWall_32
CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_84780_84781_L_0 U-COHE=20 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -17 0 -10.2 0 0
ENDSTEP

STEP Stage1_31

CHANGE Strato1_3095_78023_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -17 0 -10.2 0 0
ADD WallElement_33 Tieback_78031
ENDSTEP

STEP Stage2_158

CHANGE Strato1_3095_78023_L_0 D-FRICT=29 LeftWall_32

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1133 di
1221

CHANGE Strato2_84780_84781_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -5.35
WATER -17 0 -10.2 0 0
ENDSTEP

5.4. Design Assumption : SLE (Rara) - File di Paratie - File di output (.out)

```
-----+-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454                               |
|          Exe Time :29 July 2019      19:21:29                                             |
|-----+-----
```

```
*****
*                                                                                               *
*  PARATIE PLUS Non-Linear Spring Engine                                                       *
*                                                                                               *
*          AN ELASTOPLASTIC FINITE ELEMENT PROGRAM                                           *
*          FOR FLEXIBLE EARTH-RETAINING STRUCTURES                                           *
*                                                                                               *
*          Written by Ce.A.S. s.r.l. (ITALY)                                                  *
*          with the scientific supervision of                                                  *
*          Roberto Nova - full professor SOIL MECHANICS *
*          at Politecnico di Milano (ITALY)                                                  *
*                                                                                               *
*****
*                                                                                               *
*  RELEASE  2017.1      *Build date:Jul 11, 2017*  *
*                                                                                               *
*                                                                                               *
*  Ce.A.S.    S.R.L  CENTRO DI ANALISI STRUTTURALE                                           *
*          VIALE  GIUSTINIANO 10                                                             *
*          20129  M I L A N O (ITALIA)                                                       *
*  TEL.      +39 02 2020221  (+39 035 23 67 19)                                             *
*  FAX       +39 02 29512533  (+39 035 42285 49)                                           *
*  email     bruno.becci@ceas.it                                                            *
*  Web Page  www.ceas.it                                                                    *
*****
```

```
JOB : 1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL_STRESS >
ACCEPTED <PARAM ITEMAX 100 >
ACCEPTED <CONTROL HINGES 0 0.0001 0.001 >
```

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

PRELIMINARY OPERATIONS CPU TIME 0.00 [sec]

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1134 di 1221
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```

-----+-----
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454                               |
|          Exe Time :29 July 2019      19:21:29                                               |
|-----+-----

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

1468.1 - GA27 - Cepav2

```

NO. OF NODAL POINTS (NUMNP) ..... 52
NO. OF COORDINATES (NCOORD) ..... 2
NO. OF NODE DOFS (NDOF) ..... 2
NO. OF EQUATIONS (NEQ) ..... 104
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 ..... 68
NO. OF LONG NAMES (LASTNAME) ..... 16
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH ..... 1
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 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454                               |
|          Exe Time :29 July 2019      19:21:29                                               |
|-----+-----

```

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 68

```

1 : UNIT m kN
2 : TITLE 1468.1 - GA27 - Cepav2
3 : DELTA 0.2
4 : option param itemax 100
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -10.2 0 1
7 : SOIL 0_L LeftWall_32 -10.2 0 1 0
8 : SOIL 0_R LeftWall_32 -10.2 0 2 180
9 : LDATA Strato1_3095_78023_L_0 0 LeftWall_32
10 : ATREST 0.5 0.5 1
11 : WEIGHT 19 9 10
12 : PERMEABILITY 1E-05
13 : RESISTANCE 0 29
14 : YOUNG 2.5E+04 4E+04
15 : ENDL
16 : LDATA Strato2_84780_84781_L_0 -5.35 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 19 9 10
19 : PERMEABILITY 1E-05
20 : RESISTANCE 20 35
21 : YOUNG 5E+04 1.5E+05
22 : ENDL

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1135 di 1221
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```

23 : MATERIAL S275_113 2.1E+08
24 : MATERIAL C2530_104 3.148E+07
25 : MATERIAL S275_78036 2.1E+08
26 : BEAM WallElement_33 LeftWall_32 -10.2 0 S275_113 0.08153 00 00 0
27 : WIRE Tieback_78031 LeftWall_32 -0.2 S275_78036 0.0003059 0 70 0 0
28 : STRIP LeftWall_32 3 3 2.33 3 0 52.08 30
29 : STEP Stage0_86326
30 : CHANGE Strato1_3095_78023_L_0 U-FRICT=29 LeftWall_32
31 : CHANGE Strato1_3095_78023_L_0 D-FRICT=29 LeftWall_32
32 : CHANGE Strato1_3095_78023_L_0 U-KA=0.319 LeftWall_32
33 : CHANGE Strato1_3095_78023_L_0 U-KP=3.606 LeftWall_32
34 : CHANGE Strato1_3095_78023_L_0 D-KA=0.319 LeftWall_32
35 : CHANGE Strato1_3095_78023_L_0 D-KP=3.606 LeftWall_32
36 : CHANGE Strato2_84780_84781_L_0 U-FRICT=35 LeftWall_32
37 : CHANGE Strato2_84780_84781_L_0 D-FRICT=35 LeftWall_32
38 : CHANGE Strato2_84780_84781_L_0 U-KA=0.248 LeftWall_32
39 : CHANGE Strato2_84780_84781_L_0 U-KP=5.02 LeftWall_32
40 : CHANGE Strato2_84780_84781_L_0 D-KA=0.248 LeftWall_32
41 : CHANGE Strato2_84780_84781_L_0 D-KP=5.02 LeftWall_32
42 : CHANGE Strato1_3095_78023_L_0 U-COHE=0 LeftWall_32
43 : CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
44 : CHANGE Strato2_84780_84781_L_0 U-COHE=20 LeftWall_32
45 : CHANGE Strato2_84780_84781_L_0 D-COHE=20 LeftWall_32
46 : SETWALL LeftWall_32
47 : GEOM 0 0
48 : WATER -17 0 -10.2 0 0
49 : ENDSTEP
50 : STEP Stage1_31
51 : CHANGE Strato1_3095_78023_L_0 D-FRICT=29 LeftWall_32
52 : CHANGE Strato2_84780_84781_L_0 D-FRICT=35 LeftWall_32
53 : CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
54 : CHANGE Strato2_84780_84781_L_0 D-COHE=20 LeftWall_32
55 : SETWALL LeftWall_32
56 : GEOM 0 0
57 : WATER -17 0 -10.2 0 0
58 : ADD WallElement_33 Tieback_78031
59 : ENDSTEP
60 : STEP Stage2_158
61 : CHANGE Strato1_3095_78023_L_0 D-FRICT=29 LeftWall_32
62 : CHANGE Strato2_84780_84781_L_0 D-FRICT=35 LeftWall_32
63 : CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
64 : CHANGE Strato2_84780_84781_L_0 D-COHE=20 LeftWall_32
65 : SETWALL LeftWall_32
66 : GEOM 0 -5.35
67 : WATER -17 0 -10.2 0 0
68 : ENDSTEP
    
```

```

-----
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  19:21:29  |
-----
    
```

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 / NODE
1	0.0000	0.0000 /	2	0.0000	-0.20000 /	3	0.0000	-0.40000 /
5	0.0000	-0.80000 /	6	0.0000	-1.0000 /	7	0.0000	-1.2000 /
9	0.0000	-1.6000 /	10	0.0000	-1.8000 /	11	0.0000	-2.0000 /
13	0.0000	-2.4000 /	14	0.0000	-2.6000 /	15	0.0000	-2.8000 /
17	0.0000	-3.2000 /	18	0.0000	-3.4000 /	19	0.0000	-3.6000 /
21	0.0000	-4.0000 /	22	0.0000	-4.2000 /	23	0.0000	-4.4000 /
25	0.0000	-4.8000 /	26	0.0000	-5.0000 /	27	0.0000	-5.2000 /
29	0.0000	-5.6000 /	30	0.0000	-5.8000 /	31	0.0000	-6.0000 /
33	0.0000	-6.4000 /	34	0.0000	-6.6000 /	35	0.0000	-6.8000 /
37	0.0000	-7.2000 /	38	0.0000	-7.4000 /	39	0.0000	-7.6000 /
41	0.0000	-8.0000 /	42	0.0000	-8.2000 /	43	0.0000	-8.4000 /
45	0.0000	-8.8000 /	46	0.0000	-9.0000 /	47	0.0000	-9.2000 /
49	0.0000	-9.6000 /	50	0.0000	-9.8000 /	51	0.0000	-10.000 /
			52	0.0000	-10.200 /			

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1136 di 1221
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```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  19:21:29  |
+-----+

```

```

ELEMENT GROUP NO. 1

0_L
_ 5 52 0 1 0 0 0 0 0 0 0 0 0 0 0 0 2 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 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

```

```

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  1  0.2000  0.000  0.000  0.000  1.000
22 22  1  0.2000  0.000  0.000  0.000  1.000
23 23  1  0.2000  0.000  0.000  0.000  1.000
24 24  1  0.2000  0.000  0.000  0.000  1.000
25 25  1  0.2000  0.000  0.000  0.000  1.000
26 26  1  0.2000  0.000  0.000  0.000  1.000
27 27  1  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

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1137 di 1221
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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	0.1000	0.000	0.000	0.000	1.000

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection 28.SLERara_3454  |
|          Exe Time :29 July 2019  19:21:29  |
+-----+

```

```

ELEMENT GROUP NO.  2

0_R
 5 52  0  1  0  0  0  0  0  0  0  0  0  0  0  0  2  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

```

```

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  1  0.2000  0.000  0.000  0.000  2.000
22 22  1  0.2000  0.000  0.000  0.000  2.000
23 23  1  0.2000  0.000  0.000  0.000  2.000
24 24  1  0.2000  0.000  0.000  0.000  2.000
25 25  1  0.2000  0.000  0.000  0.000  2.000
26 26  1  0.2000  0.000  0.000  0.000  2.000
27 27  1  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

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1138 di 1221
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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	0.1000	0.000	0.000	0.000	2.000

```

-----
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019    19:21:29
|
-----

```

```

ELEMENT GROUP NO.  3

WallElement_33
  2 51  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  inactive
  2  active
  3  active

```

```

material set no.  1

prop( 1) young modulus      0.210000E+09
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future .....0.182200E-43

```

```

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

```

```

element data
-----
el  na  nb  mat      erc1      erc2      thick      by-i      by-j
-----
  1  1   2   1   0.000     0.000     0.8153E-01  0.000     0.000
  2  2   3   1   0.000     0.000     0.8153E-01  0.000     0.000
  3  3   4   1   0.000     0.000     0.8153E-01  0.000     0.000
  4  4   5   1   0.000     0.000     0.8153E-01  0.000     0.000
  5  5   6   1   0.000     0.000     0.8153E-01  0.000     0.000
  6  6   7   1   0.000     0.000     0.8153E-01  0.000     0.000
  7  7   8   1   0.000     0.000     0.8153E-01  0.000     0.000
  8  8   9   1   0.000     0.000     0.8153E-01  0.000     0.000
  9  9  10   1   0.000     0.000     0.8153E-01  0.000     0.000
 10 10 11   1   0.000     0.000     0.8153E-01  0.000     0.000
 11 11 12   1   0.000     0.000     0.8153E-01  0.000     0.000
 12 12 13   1   0.000     0.000     0.8153E-01  0.000     0.000
 13 13 14   1   0.000     0.000     0.8153E-01  0.000     0.000
 14 14 15   1   0.000     0.000     0.8153E-01  0.000     0.000
 15 15 16   1   0.000     0.000     0.8153E-01  0.000     0.000
 16 16 17   1   0.000     0.000     0.8153E-01  0.000     0.000
 17 17 18   1   0.000     0.000     0.8153E-01  0.000     0.000
 18 18 19   1   0.000     0.000     0.8153E-01  0.000     0.000
 19 19 20   1   0.000     0.000     0.8153E-01  0.000     0.000
 20 20 21   1   0.000     0.000     0.8153E-01  0.000     0.000

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1139 di 1221
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21	21	22	1	0.000	0.000	0.8153E-01	0.000	0.000
22	22	23	1	0.000	0.000	0.8153E-01	0.000	0.000
23	23	24	1	0.000	0.000	0.8153E-01	0.000	0.000
24	24	25	1	0.000	0.000	0.8153E-01	0.000	0.000
25	25	26	1	0.000	0.000	0.8153E-01	0.000	0.000
26	26	27	1	0.000	0.000	0.8153E-01	0.000	0.000
27	27	28	1	0.000	0.000	0.8153E-01	0.000	0.000
28	28	29	1	0.000	0.000	0.8153E-01	0.000	0.000
29	29	30	1	0.000	0.000	0.8153E-01	0.000	0.000
30	30	31	1	0.000	0.000	0.8153E-01	0.000	0.000
31	31	32	1	0.000	0.000	0.8153E-01	0.000	0.000
32	32	33	1	0.000	0.000	0.8153E-01	0.000	0.000
33	33	34	1	0.000	0.000	0.8153E-01	0.000	0.000
34	34	35	1	0.000	0.000	0.8153E-01	0.000	0.000
35	35	36	1	0.000	0.000	0.8153E-01	0.000	0.000
36	36	37	1	0.000	0.000	0.8153E-01	0.000	0.000
37	37	38	1	0.000	0.000	0.8153E-01	0.000	0.000
38	38	39	1	0.000	0.000	0.8153E-01	0.000	0.000
39	39	40	1	0.000	0.000	0.8153E-01	0.000	0.000
40	40	41	1	0.000	0.000	0.8153E-01	0.000	0.000
41	41	42	1	0.000	0.000	0.8153E-01	0.000	0.000
42	42	43	1	0.000	0.000	0.8153E-01	0.000	0.000
43	43	44	1	0.000	0.000	0.8153E-01	0.000	0.000
44	44	45	1	0.000	0.000	0.8153E-01	0.000	0.000
45	45	46	1	0.000	0.000	0.8153E-01	0.000	0.000
46	46	47	1	0.000	0.000	0.8153E-01	0.000	0.000
47	47	48	1	0.000	0.000	0.8153E-01	0.000	0.000
48	48	49	1	0.000	0.000	0.8153E-01	0.000	0.000
49	49	50	1	0.000	0.000	0.8153E-01	0.000	0.000
50	50	51	1	0.000	0.000	0.8153E-01	0.000	0.000
51	51	52	1	0.000	0.000	0.8153E-01	0.000	0.000

```

-----+-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  19:21:29  |
|                                                                                               |
-----+-----

```

```

ELEMENT GROUP NO.  4

Tieback_78031      :
6  1  0  1  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  2  0
.....
.....2D POST-TENSION ANCHOR.....
.....

```

```

element group behaviour throughout stage analysis

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

material set no.  1

prop( 1) angle      70.0000
prop( 2) young modulus 0.210000E+09
prop( 3) modification time 0.00000
prop( 4) new young modulus 0.00000

no. of step variable items:  2
step  -ve lim  +ve lim
-----
  1  0.000  0.000
  2  0.000  0.000
  3  0.000  0.000

element data

el  n  mat      a/l  pinit  yieldc  yieldt
-----
  1  2  1  0.3059E-03  0.000  0.000  0.000

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1140 di
1221

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      19:21:29  |
+-----+

```

```

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

```

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      19:21:29  |
+-----+

```

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

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1141 di 1221
---------	------------------	-------------	---	-----------	---------------------------

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  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      19:21:29  |
+-----+

```

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  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      19:21:29  |
+-----+

```

NO. OF LAYERS 2
 NO. OF DATA PER LAYER..... 100

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019      19:21:29  |
+-----+

```

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	>= 0.0000	(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.	9<U-FRICT	>= 29.000	(BOTH WALLS)
ITEM NO.	10<U-KA	>= 0.31900	WALL NO. 1
ITEM NO.	11<U-KP	>= 3.6060	WALL NO. 1
ITEM NO.	12<K0-NC	>= 0.50000	(BOTH WALLS)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1142 di 1221
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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 >= 25000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 40000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.31900 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.6060 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (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 >= -5.3500 (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 >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.24800 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.0200 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.24800 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.0200 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (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 >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.31900 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.6060 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 >= 25000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 40000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.31900 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.6060 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (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 >= -5.3500 (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 >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.24800 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.0200 WALL NO. 1
 ITEM NO. 12<K0-NC >= 0.50000 (BOTH WALLS)
 ITEM NO. 13<NEXP >= 0.50000 (BOTH WALLS)

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1143 di 1221
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ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.24800 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.0200 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (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 >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.31900 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.6060 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 >= 25000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 40000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.31900 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.6060 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (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 >= -5.3500 (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 >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.24800 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.0200 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.24800 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.0200 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 6 VALUES

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1144 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454                               |
|          Exe Time :29 July 2019  19:21:29                                                    |
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PHASE DESCRIPTORS

STEP NO.	1	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-17.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-10.20	-10.20
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	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-17.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-10.20	-10.20
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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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1145 di 1221
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=====end of step 2

STEP NO.	3		
		LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-5.350	0.000
Z-WATER_TABLE		-17.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-10.20	-10.20
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 -10.20000
UPPER LEVEL 0.00000

RIGHT-HAND WALL

LOWER LEVEL -10.20000
UPPER LEVEL 0.00000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                    |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  19:21:29  |
|                                                                    |
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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 3.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 3.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 2.3300000000000000
FOUNDATION WIDTH (B) 3.0000000000000000
ZETA-F..... 0.0000000000000000E+000
Q-F 52.0800000000000000
BETA 30.0000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.0000000000000000E+000

GENERAL CONTRACTOR

Cepav due



ALTA SORVEGLIANZA



ITALFERR

GRUPPO FERROVIE DELLO STATO ITALIANE

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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1146 di
1221

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION 2422

NO. OF D.P.W FOR THIS AREA 6191
MAX NO. OF D.P.W. AVAILABLE 81920
** MAX NO OF ITERATIONS SET TO 100

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1258E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 19.00 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1258E+05 RDR = 0.000
RATIOT= 0.000 RATIO= 0.000
MAX UN= 0.000 IEQ= 104 NODE 52 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1258E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 19.00 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1258E+05 RDR = 0.000
RATIOT= 0.000 RATIO= 0.000
MAX UN= 0.000 IEQ= 104 NODE 52 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1258E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 19.00 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1258E+05 RDR = 0.000
RATIOT= 0.000 RATIO= 0.000
MAX UN= 0.000 IEQ= 104 NODE 52 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

| PARATIEPLUS(TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| |
| 1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454 |
Exe Time :29 July 2019 19:21:29

1468.1 - GA27 - Cepav2
SOLUTION REACHED USING 2 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)

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

Y-DISPL.F X-ROT. F
(02) (04) (

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1147 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      19:21:29
|
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 1

0_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 52
 CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	3.1207E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_3095_78023_L_0									
2 D	0.3800	0.000	3.800	1.900	3.800	1.900	V-C	3.1207E+04	-0.2000	0.000	1.000	1.000
1.900	0.000	0.000	Strato1_3095_78023_L_0									
3 D	0.7600	0.000	7.600	3.800	7.600	3.800	V-C	3.1207E+04	-0.4000	0.000	1.000	1.000
3.800	0.000	0.000	Strato1_3095_78023_L_0									
4 D	1.140	0.000	11.40	5.700	11.40	5.700	V-C	3.1207E+04	-0.6000	0.000	1.000	1.000
5.700	0.000	0.000	Strato1_3095_78023_L_0									
5 D	1.520	0.000	15.20	7.600	15.20	7.600	V-C	3.1207E+04	-0.8000	0.000	1.000	1.000
7.600	0.000	0.000	Strato1_3095_78023_L_0									
6 D	1.900	0.000	19.00	9.500	19.00	9.500	V-C	3.1207E+04	-1.000	0.000	1.000	1.000
9.500	0.000	0.000	Strato1_3095_78023_L_0									
7 D	2.280	0.000	22.80	11.40	22.80	11.40	V-C	3.1207E+04	-1.200	0.000	1.000	1.000
11.40	0.000	0.000	Strato1_3095_78023_L_0									
8 D	2.660	0.000	26.60	13.30	26.60	13.30	V-C	3.1207E+04	-1.400	0.000	1.000	1.000
13.30	0.000	0.000	Strato1_3095_78023_L_0									
9 D	3.040	0.000	30.40	15.20	30.40	15.20	V-C	3.1207E+04	-1.600	0.000	1.000	1.000
15.20	0.000	0.000	Strato1_3095_78023_L_0									
10 D	3.420	0.000	34.20	17.10	34.20	17.10	V-C	3.1207E+04	-1.800	0.000	1.000	1.000
17.10	0.000	0.000	Strato1_3095_78023_L_0									
11 D	3.800	0.000	38.00	19.00	38.00	19.00	V-C	3.1207E+04	-2.000	0.000	1.000	1.000
19.00	0.000	0.000	Strato1_3095_78023_L_0									
12 D	4.180	0.000	41.80	20.90	41.80	20.90	V-C	3.1207E+04	-2.200	0.000	1.000	1.000
20.90	0.000	0.000	Strato1_3095_78023_L_0									
13 D	4.560	0.000	45.60	22.80	45.60	22.80	V-C	3.1207E+04	-2.400	0.000	1.000	1.000
22.80	0.000	0.000	Strato1_3095_78023_L_0									
14 D	4.940	0.000	49.40	24.70	49.40	24.70	V-C	3.1207E+04	-2.600	0.000	1.000	1.000
24.70	0.000	0.000	Strato1_3095_78023_L_0									
15 D	5.320	0.000	53.20	26.60	53.20	26.60	V-C	3.1207E+04	-2.800	0.000	1.000	1.000
26.60	0.000	0.000	Strato1_3095_78023_L_0									
16 D	5.700	0.000	57.00	28.50	57.00	28.50	V-C	3.1207E+04	-3.000	0.000	1.000	1.000
28.50	0.000	0.000	Strato1_3095_78023_L_0									
17 D	6.080	0.000	60.80	30.40	60.80	30.40	V-C	3.1207E+04	-3.200	0.000	1.000	1.000
30.40	0.000	0.000	Strato1_3095_78023_L_0									
18 D	6.460	0.000	64.60	32.30	64.60	32.30	V-C	3.1207E+04	-3.400	0.000	1.000	1.000
32.30	0.000	0.000	Strato1_3095_78023_L_0									
19 D	6.840	0.000	68.40	34.20	68.40	34.20	V-C	3.1207E+04	-3.600	0.000	1.000	1.000
34.20	0.000	0.000	Strato1_3095_78023_L_0									
20 D	7.220	0.000	72.20	36.10	72.20	36.10	V-C	3.1207E+04	-3.800	0.000	1.000	1.000
36.10	0.000	0.000	Strato1_3095_78023_L_0									
21 D	7.600	0.000	76.00	38.00	76.00	38.00	V-C	3.1207E+04	-4.000	0.000	1.000	1.000
38.00	0.000	0.000	Strato1_3095_78023_L_0									
22 D	7.980	0.000	79.80	39.90	79.80	39.90	V-C	3.1207E+04	-4.200	0.000	1.000	1.000
39.90	0.000	0.000	Strato1_3095_78023_L_0									
23 D	8.360	0.000	83.60	41.80	83.60	41.80	V-C	3.1207E+04	-4.400	0.000	1.000	1.000
41.80	0.000	0.000	Strato1_3095_78023_L_0									
24 D	8.740	0.000	87.40	43.70	87.40	43.70	V-C	3.1207E+04	-4.600	0.000	1.000	1.000
43.70	0.000	0.000	Strato1_3095_78023_L_0									
25 D	9.120	0.000	91.20	45.60	91.20	45.60	V-C	3.1207E+04	-4.800	0.000	1.000	1.000
45.60	0.000	0.000	Strato1_3095_78023_L_0									
26 D	9.500	0.000	95.00	47.50	95.00	47.50	V-C	3.1207E+04	-5.000	0.000	1.000	1.000
47.50	0.000	0.000	Strato1_3095_78023_L_0									
27 D	9.880	0.000	98.80	49.40	98.80	49.40	V-C	3.1207E+04	-5.200	0.000	1.000	1.000
49.40	0.000	0.000	Strato1_3095_78023_L_0									
28 D	10.26	0.000	102.6	51.30	102.6	51.30	V-C	7.0624E+04	-5.400	0.000	1.000	1.000
51.30	0.000	0.000	Strato2_84780_84781_L_0									
29 D	10.64	0.000	106.4	53.20	106.4	53.20	V-C	7.0624E+04	-5.600	0.000	1.000	1.000
53.20	0.000	0.000	Strato2_84780_84781_L_0									
30 D	11.02	0.000	110.2	55.10	110.2	55.10	V-C	7.0624E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1148 di 1221
55.10	0.000	0.000	Strato2_84780_84781_L_0		
31 D	11.40	0.000	114.0 57.00 114.0	57.00	V-C 7.0624E+04 -6.000 0.000 1.000 1.000
57.00	0.000	0.000	Strato2_84780_84781_L_0		
32 D	11.78	0.000	117.8 58.90 117.8	58.90	V-C 7.0624E+04 -6.200 0.000 1.000 1.000
58.90	0.000	0.000	Strato2_84780_84781_L_0		
33 D	12.16	0.000	121.6 60.80 121.6	60.80	V-C 7.0624E+04 -6.400 0.000 1.000 1.000
60.80	0.000	0.000	Strato2_84780_84781_L_0		
34 D	12.54	0.000	125.4 62.70 125.4	62.70	V-C 7.0624E+04 -6.600 0.000 1.000 1.000
62.70	0.000	0.000	Strato2_84780_84781_L_0		
35 D	12.92	0.000	129.2 64.60 129.2	64.60	V-C 7.0624E+04 -6.800 0.000 1.000 1.000
64.60	0.000	0.000	Strato2_84780_84781_L_0		
36 D	13.30	0.000	133.0 66.50 133.0	66.50	V-C 7.0624E+04 -7.000 0.000 1.000 1.000
66.50	0.000	0.000	Strato2_84780_84781_L_0		
37 D	13.68	0.000	136.8 68.40 136.8	68.40	V-C 7.0624E+04 -7.200 0.000 1.000 1.000
68.40	0.000	0.000	Strato2_84780_84781_L_0		
38 D	14.06	0.000	140.6 70.30 140.6	70.30	V-C 7.0624E+04 -7.400 0.000 1.000 1.000
70.30	0.000	0.000	Strato2_84780_84781_L_0		
39 D	14.44	0.000	144.4 72.20 144.4	72.20	V-C 7.0624E+04 -7.600 0.000 1.000 1.000
72.20	0.000	0.000	Strato2_84780_84781_L_0		
40 D	14.82	0.000	148.2 74.10 148.2	74.10	V-C 7.0624E+04 -7.800 0.000 1.000 1.000
74.10	0.000	0.000	Strato2_84780_84781_L_0		
41 D	15.20	0.000	152.0 76.00 152.0	76.00	V-C 7.0624E+04 -8.000 0.000 1.000 1.000
76.00	0.000	0.000	Strato2_84780_84781_L_0		
42 D	15.58	0.000	155.8 77.90 155.8	77.90	V-C 7.0624E+04 -8.200 0.000 1.000 1.000
77.90	0.000	0.000	Strato2_84780_84781_L_0		
43 D	15.96	0.000	159.6 79.80 159.6	79.80	V-C 7.0624E+04 -8.400 0.000 1.000 1.000
79.80	0.000	0.000	Strato2_84780_84781_L_0		
44 D	16.34	0.000	163.4 81.70 163.4	81.70	V-C 7.0624E+04 -8.600 0.000 1.000 1.000
81.70	0.000	0.000	Strato2_84780_84781_L_0		
45 D	16.72	0.000	167.2 83.60 167.2	83.60	V-C 7.0624E+04 -8.800 0.000 1.000 1.000
83.60	0.000	0.000	Strato2_84780_84781_L_0		
46 D	17.10	0.000	171.0 85.50 171.0	85.50	V-C 7.0624E+04 -9.000 0.000 1.000 1.000
85.50	0.000	0.000	Strato2_84780_84781_L_0		
47 D	17.48	0.000	174.8 87.40 174.8	87.40	V-C 7.0624E+04 -9.200 0.000 1.000 1.000
87.40	0.000	0.000	Strato2_84780_84781_L_0		
48 D	17.86	0.000	178.6 89.30 178.6	89.30	V-C 7.0624E+04 -9.400 0.000 1.000 1.000
89.30	0.000	0.000	Strato2_84780_84781_L_0		
49 D	18.24	0.000	182.4 91.20 182.4	91.20	V-C 7.0624E+04 -9.600 0.000 1.000 1.000
91.20	0.000	0.000	Strato2_84780_84781_L_0		
50 D	18.62	0.000	186.2 93.10 186.2	93.10	V-C 7.0624E+04 -9.800 0.000 1.000 1.000
93.10	0.000	0.000	Strato2_84780_84781_L_0		
51 D	19.00	0.000	190.0 95.00 190.0	95.00	V-C 7.0624E+04 -10.000 0.000 1.000 1.000
95.00	0.000	0.000	Strato2_84780_84781_L_0		
52 D	9.690	0.000	193.8 96.90 193.8	96.90	V-C 7.0624E+04 -10.200 0.000 1.000 1.000
96.90	0.000	0.000	Strato2_84780_84781_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  19:21:29  |
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 52
CURRENT TIME IS 1.0000

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 FACTOR	UFACTOR
Peg	Su_a	Su_p	LAYER									
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	2.1656E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_3095_78023_L_0									
2 D	0.3800	0.000	3.800	1.900	3.800	1.900	V-C	2.1656E+04	-0.2000	0.000	1.000	1.000
1.900	0.000	0.000	Strato1_3095_78023_L_0									
3 D	0.7600	0.000	7.600	3.800	7.600	3.800	V-C	2.1656E+04	-0.4000	0.000	1.000	1.000
3.800	0.000	0.000	Strato1_3095_78023_L_0									
4 D	1.140	0.000	11.40	5.700	11.40	5.700	V-C	2.1656E+04	-0.6000	0.000	1.000	1.000
5.700	0.000	0.000	Strato1_3095_78023_L_0									
5 D	1.520	0.000	15.20	7.600	15.20	7.600	V-C	2.1656E+04	-0.8000	0.000	1.000	1.000
7.600	0.000	0.000	Strato1_3095_78023_L_0									
6 D	1.900	0.000	19.00	9.500	19.00	9.500	V-C	2.1656E+04	-1.0000	0.000	1.000	1.000
9.500	0.000	0.000	Strato1_3095_78023_L_0									
7 D	2.280	0.000	22.80	11.40	22.80	11.40	V-C	2.1656E+04	-1.2000	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.				Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1149 di 1221				
11.40	0.000	0.000	Strato1_3095_78023_L_0									
8 D	2.660	0.000	26.60	13.30	26.60	13.30	V-C	2.1656E+04	-1.400	0.000	1.000	1.000
13.30	0.000	0.000	Strato1_3095_78023_L_0									
9 D	3.040	0.000	30.40	15.20	30.40	15.20	V-C	2.1656E+04	-1.600	0.000	1.000	1.000
15.20	0.000	0.000	Strato1_3095_78023_L_0									
10 D	3.420	0.000	34.20	17.10	34.20	17.10	V-C	2.1656E+04	-1.800	0.000	1.000	1.000
17.10	0.000	0.000	Strato1_3095_78023_L_0									
11 D	3.800	0.000	38.00	19.00	38.00	19.00	V-C	2.1656E+04	-2.000	0.000	1.000	1.000
19.00	0.000	0.000	Strato1_3095_78023_L_0									
12 D	4.180	0.000	41.80	20.90	41.80	20.90	V-C	2.1656E+04	-2.200	0.000	1.000	1.000
20.90	0.000	0.000	Strato1_3095_78023_L_0									
13 D	4.560	0.000	45.60	22.80	45.60	22.80	V-C	2.1656E+04	-2.400	0.000	1.000	1.000
22.80	0.000	0.000	Strato1_3095_78023_L_0									
14 D	4.940	0.000	49.40	24.70	49.40	24.70	V-C	2.1656E+04	-2.600	0.000	1.000	1.000
24.70	0.000	0.000	Strato1_3095_78023_L_0									
15 D	5.320	0.000	53.20	26.60	53.20	26.60	V-C	2.1656E+04	-2.800	0.000	1.000	1.000
26.60	0.000	0.000	Strato1_3095_78023_L_0									
16 D	5.700	0.000	57.00	28.50	57.00	28.50	V-C	2.1656E+04	-3.000	0.000	1.000	1.000
28.50	0.000	0.000	Strato1_3095_78023_L_0									
17 D	6.080	0.000	60.80	30.40	60.80	30.40	V-C	2.1656E+04	-3.200	0.000	1.000	1.000
30.40	0.000	0.000	Strato1_3095_78023_L_0									
18 D	6.460	0.000	64.60	32.30	64.60	32.30	V-C	2.1656E+04	-3.400	0.000	1.000	1.000
32.30	0.000	0.000	Strato1_3095_78023_L_0									
19 D	6.840	0.000	68.40	34.20	68.40	34.20	V-C	2.1656E+04	-3.600	0.000	1.000	1.000
34.20	0.000	0.000	Strato1_3095_78023_L_0									
20 D	7.220	0.000	72.20	36.10	72.20	36.10	V-C	2.1656E+04	-3.800	0.000	1.000	1.000
36.10	0.000	0.000	Strato1_3095_78023_L_0									
21 D	7.600	0.000	76.00	38.00	76.00	38.00	V-C	2.1656E+04	-4.000	0.000	1.000	1.000
38.00	0.000	0.000	Strato1_3095_78023_L_0									
22 D	7.980	0.000	79.80	39.90	79.80	39.90	V-C	2.1656E+04	-4.200	0.000	1.000	1.000
39.90	0.000	0.000	Strato1_3095_78023_L_0									
23 D	8.360	0.000	83.60	41.80	83.60	41.80	V-C	2.1656E+04	-4.400	0.000	1.000	1.000
41.80	0.000	0.000	Strato1_3095_78023_L_0									
24 D	8.740	0.000	87.40	43.70	87.40	43.70	V-C	2.1656E+04	-4.600	0.000	1.000	1.000
43.70	0.000	0.000	Strato1_3095_78023_L_0									
25 D	9.120	0.000	91.20	45.60	91.20	45.60	V-C	2.1656E+04	-4.800	0.000	1.000	1.000
45.60	0.000	0.000	Strato1_3095_78023_L_0									
26 D	9.500	0.000	95.00	47.50	95.00	47.50	V-C	2.1656E+04	-5.000	0.000	1.000	1.000
47.50	0.000	0.000	Strato1_3095_78023_L_0									
27 D	9.880	0.000	98.80	49.40	98.80	49.40	V-C	2.1656E+04	-5.200	0.000	1.000	1.000
49.40	0.000	0.000	Strato1_3095_78023_L_0									
28 D	10.26	0.000	102.6	51.30	102.6	51.30	V-C	3.8277E+04	-5.400	0.000	1.000	1.000
51.30	0.000	0.000	Strato2_84780_84781_L_0									
29 D	10.64	0.000	106.4	53.20	106.4	53.20	V-C	3.8277E+04	-5.600	0.000	1.000	1.000
53.20	0.000	0.000	Strato2_84780_84781_L_0									
30 D	11.02	0.000	110.2	55.10	110.2	55.10	V-C	3.8277E+04	-5.800	0.000	1.000	1.000
55.10	0.000	0.000	Strato2_84780_84781_L_0									
31 D	11.40	0.000	114.0	57.00	114.0	57.00	V-C	3.8277E+04	-6.000	0.000	1.000	1.000
57.00	0.000	0.000	Strato2_84780_84781_L_0									
32 D	11.78	0.000	117.8	58.90	117.8	58.90	V-C	3.8277E+04	-6.200	0.000	1.000	1.000
58.90	0.000	0.000	Strato2_84780_84781_L_0									
33 D	12.16	0.000	121.6	60.80	121.6	60.80	V-C	3.8277E+04	-6.400	0.000	1.000	1.000
60.80	0.000	0.000	Strato2_84780_84781_L_0									
34 D	12.54	0.000	125.4	62.70	125.4	62.70	V-C	3.8277E+04	-6.600	0.000	1.000	1.000
62.70	0.000	0.000	Strato2_84780_84781_L_0									
35 D	12.92	0.000	129.2	64.60	129.2	64.60	V-C	3.8277E+04	-6.800	0.000	1.000	1.000
64.60	0.000	0.000	Strato2_84780_84781_L_0									
36 D	13.30	0.000	133.0	66.50	133.0	66.50	V-C	3.8277E+04	-7.000	0.000	1.000	1.000
66.50	0.000	0.000	Strato2_84780_84781_L_0									
37 D	13.68	0.000	136.8	68.40	136.8	68.40	V-C	3.8277E+04	-7.200	0.000	1.000	1.000
68.40	0.000	0.000	Strato2_84780_84781_L_0									
38 D	14.06	0.000	140.6	70.30	140.6	70.30	V-C	3.8277E+04	-7.400	0.000	1.000	1.000
70.30	0.000	0.000	Strato2_84780_84781_L_0									
39 D	14.44	0.000	144.4	72.20	144.4	72.20	V-C	3.8277E+04	-7.600	0.000	1.000	1.000
72.20	0.000	0.000	Strato2_84780_84781_L_0									
40 D	14.82	0.000	148.2	74.10	148.2	74.10	V-C	3.8277E+04	-7.800	0.000	1.000	1.000
74.10	0.000	0.000	Strato2_84780_84781_L_0									
41 D	15.20	0.000	152.0	76.00	152.0	76.00	V-C	3.8277E+04	-8.000	0.000	1.000	1.000
76.00	0.000	0.000	Strato2_84780_84781_L_0									
42 D	15.58	0.000	155.8	77.90	155.8	77.90	V-C	3.8277E+04	-8.200	0.000	1.000	1.000
77.90	0.000	0.000	Strato2_84780_84781_L_0									
43 D	15.96	0.000	159.6	79.80	159.6	79.80	V-C	3.8277E+04	-8.400	0.000	1.000	1.000
79.80	0.000	0.000	Strato2_84780_84781_L_0									
44 D	16.34	0.000	163.4	81.70	163.4	81.70	V-C	3.8277E+04	-8.600	0.000	1.000	1.000
81.70	0.000	0.000	Strato2_84780_84781_L_0									
45 D	16.72	0.000	167.2	83.60	167.2	83.60	V-C	3.8277E+04	-8.800	0.000	1.000	1.000
83.60	0.000	0.000	Strato2_84780_84781_L_0									
46 D	17.10	0.000	171.0	85.50	171.0	85.50	V-C	3.8277E+04	-9.000	0.000	1.000	1.000
85.50	0.000	0.000	Strato2_84780_84781_L_0									
47 D	17.48	0.000	174.8	87.40	174.8	87.40	V-C	3.8277E+04	-9.200	0.000	1.000	1.000
87.40	0.000	0.000	Strato2_84780_84781_L_0									
48 D	17.86	0.000	178.6	89.30	178.6	89.30	V-C	3.8277E+04	-9.400	0.000	1.000	1.000
89.30	0.000	0.000	Strato2_84780_84781_L_0									
49 D	18.24	0.000	182.4	91.20	182.4	91.20	V-C	3.8277E+04	-9.600	0.000	1.000	1.000
91.20	0.000	0.000	Strato2_84780_84781_L_0									

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1150 di 1221
50 D 18.62 0.000 186.2 93.10 186.2 93.10	V-C	3.8277E+04	-9.800 0.000	1.000	1.000
93.10 0.000 0.000 Strato2_84780_84781_L_0					
51 D 19.00 0.000 190.0 95.00 190.0 95.00	V-C	3.8277E+04	-10.00 0.000	1.000	1.000
95.00 0.000 0.000 Strato2_84780_84781_L_0					
52 D 9.690 0.000 193.8 96.90 193.8 96.90	V-C	3.8277E+04	-10.20 0.000	1.000	1.000
96.90 0.000 0.000 Strato2_84780_84781_L_0					

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection 28.SLERara_3454  |
|          Exe Time :29 July 2019  19:21:29  |
+-----+
1468.1 - GA27 - Cepav2

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STRESS RESULTS FOR GROUP NO. 3

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Wallelement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 51
CURRENT TIME IS 1.0000

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WALL2D ELEMENT

EL	TA	TB	MA	MB

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection 28.SLERara_3454  |
|          Exe Time :29 July 2019  19:21:29  |
+-----+
1468.1 - GA27 - Cepav2

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STRESS RESULTS FOR GROUP NO. 4

```

Tieback_78031 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 1.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

```

ITER 0 RNORM = 0.000  RMNORM= 0.000
RINORM=0.1258E+05 RIMNOR= 0.000
RENORM= 0.000  REMNOR= 0.000  RATIO = 0.000  TOLER =0.1000E-03  CONVERGED !
RFMAX = 19.00  RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1258E+05 RDR = 0.000
RATIOT= 0.000  RATOR= 0.000
MAX UN= 0.000  IEQ= 104 NODE 52 DOF 2 X-ROT. F
MIN UN= 0.000  IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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```

ITER 1 RNORM = 0.000  RMNORM= 0.000
RINORM=0.1258E+05 RIMNOR= 0.000
RENORM= 0.000  REMNOR= 0.000  RATIO = 0.000  TOLER =0.1000E-03  CONVERGED !
RFMAX = 19.00  RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1258E+05 RDR = 0.000
RATIOT= 0.000  RATOR= 0.000
MAX UN= 0.000  IEQ= 104 NODE 52 DOF 2 X-ROT. F
MIN UN= 0.000  IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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```

ITER 2 RNORM = 0.000  RMNORM= 0.000
RINORM=0.1258E+05 RIMNOR= 0.000
RENORM= 0.000  REMNOR= 0.000  RATIO = 0.000  TOLER =0.1000E-03  CONVERGED !
RFMAX = 19.00  RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000

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GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1151 di
1221

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RDT =0.1258E+05 RDR = 0.000
RATIOT= 0.000 RATIO= 0.000
MAX UN= 0.000 IEQ= 104 NODE 52 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| |
| 1468.1-GA27-Cepav2.BaseDesignSection 28.SLERara_3454 |
| Exe Time :29 July 2019 19:21:29 |
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1468.1 - GA27 - Cepav2

SOLUTION REACHED USING 2 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

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Y-DISPL.F X-ROT. F
(02) (04) (

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ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

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| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| |
| 1468.1-GA27-Cepav2.BaseDesignSection 28.SLERara_3454 |
| Exe Time :29 July 2019 19:21:29 |
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 1

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O_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 52
CURRENT TIME IS 2.0000

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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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1 D	0.000	0.000	0.000	0.000	0.000	0.000	UL-RL	4.9931E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_3095_78023_L_0									
2 D	0.3800	0.000	3.800	1.900	3.800	1.900	UL-RL	4.9931E+04	-0.2000	0.000	1.000	1.000
1.900	0.000	0.000	Strato1_3095_78023_L_0									
3 D	0.7600	0.000	7.600	3.800	7.600	3.800	UL-RL	4.9931E+04	-0.4000	0.000	1.000	1.000
3.800	0.000	0.000	Strato1_3095_78023_L_0									
4 D	1.140	0.000	11.40	5.700	11.40	5.700	UL-RL	4.9931E+04	-0.6000	0.000	1.000	1.000
5.700	0.000	0.000	Strato1_3095_78023_L_0									
5 D	1.520	0.000	15.20	7.600	15.20	7.600	UL-RL	4.9931E+04	-0.8000	0.000	1.000	1.000
7.600	0.000	0.000	Strato1_3095_78023_L_0									
6 D	1.900	0.000	19.00	9.500	19.00	9.500	UL-RL	4.9931E+04	-1.000	0.000	1.000	1.000
9.500	0.000	0.000	Strato1_3095_78023_L_0									
7 D	2.280	0.000	22.80	11.40	22.80	11.40	UL-RL	4.9931E+04	-1.200	0.000	1.000	1.000
11.40	0.000	0.000	Strato1_3095_78023_L_0									
8 D	2.660	0.000	26.60	13.30	26.60	13.30	UL-RL	4.9931E+04	-1.400	0.000	1.000	1.000
13.30	0.000	0.000	Strato1_3095_78023_L_0									
9 D	3.040	0.000	30.40	15.20	30.40	15.20	UL-RL	4.9931E+04	-1.600	0.000	1.000	1.000
15.20	0.000	0.000	Strato1_3095_78023_L_0									
10 D	3.420	0.000	34.20	17.10	34.20	17.10	UL-RL	4.9931E+04	-1.800	0.000	1.000	1.000
17.10	0.000	0.000	Strato1_3095_78023_L_0									
11 D	3.800	0.000	38.00	19.00	38.00	19.00	UL-RL	4.9931E+04	-2.000	0.000	1.000	1.000
19.00	0.000	0.000	Strato1_3095_78023_L_0									
12 D	4.180	0.000	41.80	20.90	41.80	20.90	UL-RL	4.9931E+04	-2.200	0.000	1.000	1.000
20.90	0.000	0.000	Strato1_3095_78023_L_0									
13 D	4.560	0.000	45.60	22.80	45.60	22.80	UL-RL	4.9931E+04	-2.400	0.000	1.000	1.000
22.80	0.000	0.000	Strato1_3095_78023_L_0									
14 D	4.940	0.000	49.40	24.70	49.40	24.70	UL-RL	4.9931E+04	-2.600	0.000	1.000	1.000
24.70	0.000	0.000	Strato1_3095_78023_L_0									
15 D	5.320	0.000	53.20	26.60	53.20	26.60	UL-RL	4.9931E+04	-2.800	0.000	1.000	1.000

GENERAL CONTRACTOR



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Doc. N.				Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1152 di 1221		
26.60	0.000	0.000	Strato1_3095_78023_L_0							
16 D	5.700	0.000	57.00 28.50	57.00	28.50	UL-RL 4.9931E+04	-3.000	0.000	1.000	1.000
28.50	0.000	0.000	Strato1_3095_78023_L_0							
17 D	6.080	0.000	60.80 30.40	60.80	30.40	UL-RL 4.9931E+04	-3.200	0.000	1.000	1.000
30.40	0.000	0.000	Strato1_3095_78023_L_0							
18 D	6.460	0.000	64.60 32.30	64.60	32.30	UL-RL 4.9931E+04	-3.400	0.000	1.000	1.000
32.30	0.000	0.000	Strato1_3095_78023_L_0							
19 D	6.840	0.000	68.40 34.20	68.40	34.20	UL-RL 4.9931E+04	-3.600	0.000	1.000	1.000
34.20	0.000	0.000	Strato1_3095_78023_L_0							
20 D	7.220	0.000	72.20 36.10	72.20	36.10	UL-RL 4.9931E+04	-3.800	0.000	1.000	1.000
36.10	0.000	0.000	Strato1_3095_78023_L_0							
21 D	7.600	0.000	76.00 38.00	76.00	38.00	UL-RL 4.9931E+04	-4.000	0.000	1.000	1.000
38.00	0.000	0.000	Strato1_3095_78023_L_0							
22 D	7.980	0.000	79.80 39.90	79.80	39.90	UL-RL 4.9931E+04	-4.200	0.000	1.000	1.000
39.90	0.000	0.000	Strato1_3095_78023_L_0							
23 D	8.360	0.000	83.60 41.80	83.60	41.80	UL-RL 4.9931E+04	-4.400	0.000	1.000	1.000
41.80	0.000	0.000	Strato1_3095_78023_L_0							
24 D	8.740	0.000	87.40 43.70	87.40	43.70	UL-RL 4.9931E+04	-4.600	0.000	1.000	1.000
43.70	0.000	0.000	Strato1_3095_78023_L_0							
25 D	9.120	0.000	91.20 45.60	91.20	45.60	UL-RL 4.9931E+04	-4.800	0.000	1.000	1.000
45.60	0.000	0.000	Strato1_3095_78023_L_0							
26 D	9.500	0.000	95.00 47.50	95.00	47.50	UL-RL 4.9931E+04	-5.000	0.000	1.000	1.000
47.50	0.000	0.000	Strato1_3095_78023_L_0							
27 D	9.880	0.000	98.80 49.40	98.80	49.40	UL-RL 4.9931E+04	-5.200	0.000	1.000	1.000
49.40	0.000	0.000	Strato1_3095_78023_L_0							
28 D	10.26	0.000	102.6 51.30	102.6	51.30	UL-RL 2.1187E+05	-5.400	0.000	1.000	1.000
51.30	0.000	0.000	Strato2_84780_84781_L_0							
29 D	10.64	0.000	106.4 53.20	106.4	53.20	UL-RL 2.1187E+05	-5.600	0.000	1.000	1.000
53.20	0.000	0.000	Strato2_84780_84781_L_0							
30 D	11.02	0.000	110.2 55.10	110.2	55.10	UL-RL 2.1187E+05	-5.800	0.000	1.000	1.000
55.10	0.000	0.000	Strato2_84780_84781_L_0							
31 D	11.40	0.000	114.0 57.00	114.0	57.00	UL-RL 2.1187E+05	-6.000	0.000	1.000	1.000
57.00	0.000	0.000	Strato2_84780_84781_L_0							
32 D	11.78	0.000	117.8 58.90	117.8	58.90	UL-RL 2.1187E+05	-6.200	0.000	1.000	1.000
58.90	0.000	0.000	Strato2_84780_84781_L_0							
33 D	12.16	0.000	121.6 60.80	121.6	60.80	UL-RL 2.1187E+05	-6.400	0.000	1.000	1.000
60.80	0.000	0.000	Strato2_84780_84781_L_0							
34 D	12.54	0.000	125.4 62.70	125.4	62.70	UL-RL 2.1187E+05	-6.600	0.000	1.000	1.000
62.70	0.000	0.000	Strato2_84780_84781_L_0							
35 D	12.92	0.000	129.2 64.60	129.2	64.60	UL-RL 2.1187E+05	-6.800	0.000	1.000	1.000
64.60	0.000	0.000	Strato2_84780_84781_L_0							
36 D	13.30	0.000	133.0 66.50	133.0	66.50	UL-RL 2.1187E+05	-7.000	0.000	1.000	1.000
66.50	0.000	0.000	Strato2_84780_84781_L_0							
37 D	13.68	0.000	136.8 68.40	136.8	68.40	UL-RL 2.1187E+05	-7.200	0.000	1.000	1.000
68.40	0.000	0.000	Strato2_84780_84781_L_0							
38 D	14.06	0.000	140.6 70.30	140.6	70.30	UL-RL 2.1187E+05	-7.400	0.000	1.000	1.000
70.30	0.000	0.000	Strato2_84780_84781_L_0							
39 D	14.44	0.000	144.4 72.20	144.4	72.20	UL-RL 2.1187E+05	-7.600	0.000	1.000	1.000
72.20	0.000	0.000	Strato2_84780_84781_L_0							
40 D	14.82	0.000	148.2 74.10	148.2	74.10	UL-RL 2.1187E+05	-7.800	0.000	1.000	1.000
74.10	0.000	0.000	Strato2_84780_84781_L_0							
41 D	15.20	0.000	152.0 76.00	152.0	76.00	UL-RL 2.1187E+05	-8.000	0.000	1.000	1.000
76.00	0.000	0.000	Strato2_84780_84781_L_0							
42 D	15.58	0.000	155.8 77.90	155.8	77.90	UL-RL 2.1187E+05	-8.200	0.000	1.000	1.000
77.90	0.000	0.000	Strato2_84780_84781_L_0							
43 D	15.96	0.000	159.6 79.80	159.6	79.80	UL-RL 2.1187E+05	-8.400	0.000	1.000	1.000
79.80	0.000	0.000	Strato2_84780_84781_L_0							
44 D	16.34	0.000	163.4 81.70	163.4	81.70	UL-RL 2.1187E+05	-8.600	0.000	1.000	1.000
81.70	0.000	0.000	Strato2_84780_84781_L_0							
45 D	16.72	0.000	167.2 83.60	167.2	83.60	UL-RL 2.1187E+05	-8.800	0.000	1.000	1.000
83.60	0.000	0.000	Strato2_84780_84781_L_0							
46 D	17.10	0.000	171.0 85.50	171.0	85.50	UL-RL 2.1187E+05	-9.000	0.000	1.000	1.000
85.50	0.000	0.000	Strato2_84780_84781_L_0							
47 D	17.48	0.000	174.8 87.40	174.8	87.40	UL-RL 2.1187E+05	-9.200	0.000	1.000	1.000
87.40	0.000	0.000	Strato2_84780_84781_L_0							
48 D	17.86	0.000	178.6 89.30	178.6	89.30	UL-RL 2.1187E+05	-9.400	0.000	1.000	1.000
89.30	0.000	0.000	Strato2_84780_84781_L_0							
49 D	18.24	0.000	182.4 91.20	182.4	91.20	UL-RL 2.1187E+05	-9.600	0.000	1.000	1.000
91.20	0.000	0.000	Strato2_84780_84781_L_0							
50 D	18.62	0.000	186.2 93.10	186.2	93.10	UL-RL 2.1187E+05	-9.800	0.000	1.000	1.000
93.10	0.000	0.000	Strato2_84780_84781_L_0							
51 D	19.00	0.000	190.0 95.00	190.0	95.00	UL-RL 2.1187E+05	-10.00	0.000	1.000	1.000
95.00	0.000	0.000	Strato2_84780_84781_L_0							
52 D	9.690	0.000	193.8 96.90	193.8	96.90	UL-RL 2.1187E+05	-10.20	0.000	1.000	1.000
96.90	0.000	0.000	Strato2_84780_84781_L_0							

PARATIEPLUS(TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017*

1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454
Exe Time :29 July 2019 19:21:29



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1154 di 1221							
35 D	12.92	0.000	129.2	64.60	129.2	64.60	UL-RL	1.1483E+05	-6.800	0.000	1.000	1.000
64.60	0.000	0.000	Strato2_84780_84781_L_0									
36 D	13.30	0.000	133.0	66.50	133.0	66.50	UL-RL	1.1483E+05	-7.000	0.000	1.000	1.000
66.50	0.000	0.000	Strato2_84780_84781_L_0									
37 D	13.68	0.000	136.8	68.40	136.8	68.40	UL-RL	1.1483E+05	-7.200	0.000	1.000	1.000
68.40	0.000	0.000	Strato2_84780_84781_L_0									
38 D	14.06	0.000	140.6	70.30	140.6	70.30	UL-RL	1.1483E+05	-7.400	0.000	1.000	1.000
70.30	0.000	0.000	Strato2_84780_84781_L_0									
39 D	14.44	0.000	144.4	72.20	144.4	72.20	UL-RL	1.1483E+05	-7.600	0.000	1.000	1.000
72.20	0.000	0.000	Strato2_84780_84781_L_0									
40 D	14.82	0.000	148.2	74.10	148.2	74.10	UL-RL	1.1483E+05	-7.800	0.000	1.000	1.000
74.10	0.000	0.000	Strato2_84780_84781_L_0									
41 D	15.20	0.000	152.0	76.00	152.0	76.00	UL-RL	1.1483E+05	-8.000	0.000	1.000	1.000
76.00	0.000	0.000	Strato2_84780_84781_L_0									
42 D	15.58	0.000	155.8	77.90	155.8	77.90	UL-RL	1.1483E+05	-8.200	0.000	1.000	1.000
77.90	0.000	0.000	Strato2_84780_84781_L_0									
43 D	15.96	0.000	159.6	79.80	159.6	79.80	UL-RL	1.1483E+05	-8.400	0.000	1.000	1.000
79.80	0.000	0.000	Strato2_84780_84781_L_0									
44 D	16.34	0.000	163.4	81.70	163.4	81.70	UL-RL	1.1483E+05	-8.600	0.000	1.000	1.000
81.70	0.000	0.000	Strato2_84780_84781_L_0									
45 D	16.72	0.000	167.2	83.60	167.2	83.60	UL-RL	1.1483E+05	-8.800	0.000	1.000	1.000
83.60	0.000	0.000	Strato2_84780_84781_L_0									
46 D	17.10	0.000	171.0	85.50	171.0	85.50	UL-RL	1.1483E+05	-9.000	0.000	1.000	1.000
85.50	0.000	0.000	Strato2_84780_84781_L_0									
47 D	17.48	0.000	174.8	87.40	174.8	87.40	UL-RL	1.1483E+05	-9.200	0.000	1.000	1.000
87.40	0.000	0.000	Strato2_84780_84781_L_0									
48 D	17.86	0.000	178.6	89.30	178.6	89.30	UL-RL	1.1483E+05	-9.400	0.000	1.000	1.000
89.30	0.000	0.000	Strato2_84780_84781_L_0									
49 D	18.24	0.000	182.4	91.20	182.4	91.20	UL-RL	1.1483E+05	-9.600	0.000	1.000	1.000
91.20	0.000	0.000	Strato2_84780_84781_L_0									
50 D	18.62	0.000	186.2	93.10	186.2	93.10	UL-RL	1.1483E+05	-9.800	0.000	1.000	1.000
93.10	0.000	0.000	Strato2_84780_84781_L_0									
51 D	19.00	0.000	190.0	95.00	190.0	95.00	UL-RL	1.1483E+05	-10.00	0.000	1.000	1.000
95.00	0.000	0.000	Strato2_84780_84781_L_0									
52 D	9.690	0.000	193.8	96.90	193.8	96.90	UL-RL	1.1483E+05	-10.20	0.000	1.000	1.000
96.90	0.000	0.000	Strato2_84780_84781_L_0									

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|
|          PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017*
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|
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019   19:21:29
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 3

Wallelement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 51
CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1155 di 1221
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27	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000
31	0.0000	0.0000	0.0000	0.0000
32	0.0000	0.0000	0.0000	0.0000
33	0.0000	0.0000	0.0000	0.0000
34	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000
36	0.0000	0.0000	0.0000	0.0000
37	0.0000	0.0000	0.0000	0.0000
38	0.0000	0.0000	0.0000	0.0000
39	0.0000	0.0000	0.0000	0.0000
40	0.0000	0.0000	0.0000	0.0000
41	0.0000	0.0000	0.0000	0.0000
42	0.0000	0.0000	0.0000	0.0000
43	0.0000	0.0000	0.0000	0.0000
44	0.0000	0.0000	0.0000	0.0000
45	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000
47	0.0000	0.0000	0.0000	0.0000
48	0.0000	0.0000	0.0000	0.0000
49	0.0000	0.0000	0.0000	0.0000
50	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	0.0000	0.0000

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454  |
|          Exe Time :29 July 2019  19:21:29  |
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 4

Tieback_78031 :
ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	0.0000	0.0000	0.0000	0.0000	64239.	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM= 9106. RIMNOR= 0.000
RENORM= 2740. REMNOR= 0.000 RATIO =0.5485 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 19.75 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT = 9106. RDR = 0.000
RATIOT=0.5485 RATOR= 0.000
MAX UN= 11.10 IEQ= 53 NODE 27 DOF 1 Y-DISPL.F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM= 9106. RIMNOR= 0.000
RENORM= 277.7 REMNOR=0.1416E-22 RATIO =0.1746 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 19.75 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT = 9106. RDR = 0.000
RATIOT=0.1746 RATOR= 0.000
MAX UN= 5.043 IEQ= 55 NODE 28 DOF 1 Y-DISPL.F
MIN UN=-.2203E-11 IEQ= 85 NODE 43 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
RINORM= 9106. RIMNOR= 0.000
RENORM= 404.6 REMNOR=0.1219E-21 RATIO =0.2108 TOLER =0.1000E-03 NOT CONVERGED
RFMAX = 19.75 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT = 9106. RDR = 0.000
RATIOT=0.2108 RATOR= 0.000
MAX UN= 12.26 IEQ= 55 NODE 28 DOF 1 Y-DISPL.F
MIN UN=-.1223E-09 IEQ= 21 NODE 11 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

GENERAL CONTRACTOR

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12

Codifica Documento
E E2 CL GA 2701 002

Rev.
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1156 di
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ITER      4  RNORM = 0.000      RMNORM= 0.000
            RINORM= 9106.      RIMNOR= 0.000
            RENORM= 60.75      REMNOR=0.6660E-22  RATIO =0.8168E-01  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 19.75      RMMAX = 0.000
            RTSMAL=0.1000E-03  RMSMAL= 0.000
            RDT  = 9106.      RDR  = 0.000
            RATIOT=0.8168E-01  RATIO= 0.000
            MAX UN= 7.669      IEQ=   65 NODE      33 DOF   1  Y-DISPL.F
            MIN UN=-.6625E-10  IEQ=   15 NODE      8 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0
    
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ITER      5  RNORM = 0.000      RMNORM= 0.000
            RINORM= 9106.      RIMNOR= 0.000
            RENORM=0.7063E-01  REMNOR=0.4590E-22  RATIO =0.2785E-02  TOLER =0.1000E-03  NOT CONVERGED
            RFMAX = 19.75      RMMAX = 0.000
            RTSMAL=0.1000E-03  RMSMAL= 0.000
            RDT  = 9106.      RDR  = 0.000
            RATIOT=0.2785E-02  RATIO= 0.000
            MAX UN=0.2658      IEQ=   67 NODE      34 DOF   1  Y-DISPL.F
            MIN UN=-.3559E-10  IEQ=   37 NODE      19 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0
    
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ITER      6  RNORM = 0.000      RMNORM= 0.000
            RINORM= 9106.      RIMNOR= 0.000
            RENORM=0.2274E-19  REMNOR=0.8395E-22  RATIO =0.1580E-11  TOLER =0.1000E-03      CONVERGED !
            RFMAX = 19.75      RMMAX = 0.000
            RTSMAL=0.1000E-03  RMSMAL= 0.000
            RDT  = 9106.      RDR  = 0.000
            RATIOT=0.1580E-11  RATIO= 0.000
            MAX UN=0.5457E-10  IEQ=   25 NODE      13 DOF   1  Y-DISPL.F
            MIN UN=-.7156E-10  IEQ=   23 NODE      12 DOF   1  Y-DISPL.F
            NO. OF CONTACT CONSTRAINT VIOLATIONS      0
    
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                  |
|                                                                                                  |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454                                  |
|          Exe Time :29 July 2019      19:21:29                                                  |
|                                                                                                  |
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1468.1 - GA27 - Cepav2
SOLUTION REACHED USING 6 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	2.1283799E-03	1.0574121E-02	
2	4.2432040E-03	1.0574121E-02	
3	6.3535796E-03	1.0507392E-02	
4	8.4373321E-03	1.0308234E-02	
5	1.0468217E-02	9.9792306E-03	
6	1.2420611E-02	9.5240310E-03	
7	1.4269732E-02	8.9473702E-03	
8	1.5991852E-02	8.2550955E-03	
9	1.7564528E-02	7.4541874E-03	
10	1.8966848E-02	6.5531027E-03	
11	2.0179774E-02	5.5620923E-03	
12	2.1186486E-02	4.4930947E-03	
13	2.1972714E-02	3.3596299E-03	
14	2.2527042E-02	2.1767229E-03	
15	2.2841204E-02	9.6083692E-04	
16	2.2910368E-02	-2.7017539E-04	
17	2.2733404E-02	-1.4971229E-03	
18	2.2313148E-02	-2.6996192E-03	
19	2.1656607E-02	-3.8563632E-03	
20	2.0775131E-02	-4.9451829E-03	
21	1.9684604E-02	-5.9430259E-03	
22	1.8405586E-02	-6.8259688E-03	
23	1.6963532E-02	-7.5691785E-03	
24	1.5388946E-02	-8.1469248E-03	
25	1.3717569E-02	-8.5325679E-03	
26	1.1990563E-02	-8.6985514E-03	
27	1.0254700E-02	-8.6163977E-03	
28	8.5625153E-03	-8.2566994E-03	
29	6.9691029E-03	-7.6407569E-03	
30	5.5184623E-03	-6.8410679E-03	

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1158 di 1221							
19 D	5.360	-2.1657E-02	84.02	26.80	84.02	42.01	ACTIVE	0.000	-3.600	0.000	1.000	1.000
26.80	0.000	0.000	Strato1_3095_78023_L_0									
20 D	5.569	-2.0775E-02	87.29	27.85	87.29	43.64	ACTIVE	0.000	-3.800	0.000	1.000	1.000
27.85	0.000	0.000	Strato1_3095_78023_L_0									
21 D	5.780	-1.9685E-02	90.60	28.90	90.60	45.30	ACTIVE	0.000	-4.000	0.000	1.000	1.000
28.90	0.000	0.000	Strato1_3095_78023_L_0									
22 D	5.993	-1.8406E-02	93.94	29.97	93.94	46.97	ACTIVE	0.000	-4.200	0.000	1.000	1.000
29.97	0.000	0.000	Strato1_3095_78023_L_0									
23 D	6.208	-1.6964E-02	97.30	31.04	97.30	48.65	ACTIVE	0.000	-4.400	0.000	1.000	1.000
31.04	0.000	0.000	Strato1_3095_78023_L_0									
24 D	6.425	-1.5389E-02	100.7	32.12	100.7	50.35	ACTIVE	0.000	-4.600	0.000	1.000	1.000
32.12	0.000	0.000	Strato1_3095_78023_L_0									
25 D	6.643	-1.3718E-02	104.1	33.21	104.1	52.06	ACTIVE	0.000	-4.800	0.000	1.000	1.000
33.21	0.000	0.000	Strato1_3095_78023_L_0									
26 D	6.862	-1.1991E-02	107.6	34.31	107.6	53.78	ACTIVE	0.000	-5.000	0.000	1.000	1.000
34.31	0.000	0.000	Strato1_3095_78023_L_0									
27 D	7.083	-1.0255E-02	111.0	35.41	111.0	55.51	ACTIVE	0.000	-5.200	0.000	1.000	1.000
35.41	0.000	0.000	Strato1_3095_78023_L_0									
28 D	1.695	-8.5625E-03	114.5	8.474	114.5	57.24	ACTIVE	0.000	-5.400	0.000	1.000	1.000
8.474	0.000	0.000	Strato2_84780_84781_L_0									
29 D	1.868	-6.9691E-03	118.0	9.340	118.0	58.99	ACTIVE	0.000	-5.600	0.000	1.000	1.000
9.340	0.000	0.000	Strato2_84780_84781_L_0									
30 D	2.042	-5.5185E-03	121.5	10.21	121.5	60.75	ACTIVE	0.000	-5.800	0.000	1.000	1.000
10.21	0.000	0.000	Strato2_84780_84781_L_0									
31 D	2.217	-4.2404E-03	125.0	11.08	125.0	62.51	ACTIVE	0.000	-6.000	0.000	1.000	1.000
11.08	0.000	0.000	Strato2_84780_84781_L_0									
32 D	2.392	-3.1517E-03	128.6	11.96	128.6	64.28	ACTIVE	0.000	-6.200	0.000	1.000	1.000
11.96	0.000	0.000	Strato2_84780_84781_L_0									
33 D	2.568	-2.2581E-03	132.1	12.84	132.1	66.05	ACTIVE	0.000	-6.400	0.000	1.000	1.000
12.84	0.000	0.000	Strato2_84780_84781_L_0									
34 D	2.745	-1.5548E-03	135.7	13.72	135.7	67.83	ACTIVE	0.000	-6.600	0.000	1.000	1.000
13.72	0.000	0.000	Strato2_84780_84781_L_0									
35 D	5.211	-1.0280E-03	139.2	26.06	139.2	69.62	UL-RL	4.2375E+04	-6.800	0.000	1.000	1.000
26.06	0.000	0.000	Strato2_84780_84781_L_0									
36 D	8.722	-6.5600E-04	142.8	43.61	142.8	71.41	UL-RL	4.2375E+04	-7.000	0.000	1.000	1.000
43.61	0.000	0.000	Strato2_84780_84781_L_0									
37 D	11.15	-4.1239E-04	146.4	55.73	146.4	73.20	UL-RL	4.2375E+04	-7.200	0.000	1.000	1.000
55.73	0.000	0.000	Strato2_84780_84781_L_0									
38 D	12.71	-2.6969E-04	150.0	63.57	150.0	75.00	UL-RL	4.2375E+04	-7.400	0.000	1.000	1.000
63.57	0.000	0.000	Strato2_84780_84781_L_0									
39 D	13.65	-2.0211E-04	153.6	68.24	153.6	76.80	UL-RL	4.2375E+04	-7.600	0.000	1.000	1.000
68.24	0.000	0.000	Strato2_84780_84781_L_0									
40 D	14.14	-1.8714E-04	157.2	70.68	157.2	78.61	UL-RL	4.2375E+04	-7.800	0.000	1.000	1.000
70.68	0.000	0.000	Strato2_84780_84781_L_0									
41 D	14.34	-2.0621E-04	160.8	71.69	160.8	80.42	UL-RL	4.2375E+04	-8.000	0.000	1.000	1.000
71.69	0.000	0.000	Strato2_84780_84781_L_0									
42 D	14.37	-2.4484E-04	164.5	71.86	164.5	82.24	UL-RL	4.2375E+04	-8.200	0.000	1.000	1.000
71.86	0.000	0.000	Strato2_84780_84781_L_0									
43 D	14.33	-2.9242E-04	168.1	71.67	168.1	84.06	UL-RL	4.2375E+04	-8.400	0.000	1.000	1.000
71.67	0.000	0.000	Strato2_84780_84781_L_0									
44 D	14.28	-3.4166E-04	171.8	71.40	171.8	85.88	UL-RL	4.2375E+04	-8.600	0.000	1.000	1.000
71.40	0.000	0.000	Strato2_84780_84781_L_0									
45 D	14.25	-3.8808E-04	175.4	71.26	175.4	87.70	UL-RL	4.2375E+04	-8.800	0.000	1.000	1.000
71.26	0.000	0.000	Strato2_84780_84781_L_0									
46 D	14.27	-4.2939E-04	179.1	71.33	179.1	89.53	UL-RL	4.2375E+04	-9.000	0.000	1.000	1.000
71.33	0.000	0.000	Strato2_84780_84781_L_0									
47 D	14.33	-4.6490E-04	182.7	71.66	182.7	91.36	UL-RL	4.2375E+04	-9.200	0.000	1.000	1.000
71.66	0.000	0.000	Strato2_84780_84781_L_0									
48 D	14.44	-4.9505E-04	186.4	72.21	186.4	93.19	UL-RL	4.2375E+04	-9.400	0.000	1.000	1.000
72.21	0.000	0.000	Strato2_84780_84781_L_0									
49 D	14.59	-5.2093E-04	190.1	72.97	190.1	95.05	UL-RL	4.2375E+04	-9.600	0.000	1.000	1.000
72.97	0.000	0.000	Strato2_84780_84781_L_0									
50 D	14.77	-5.4393E-04	193.8	73.86	193.8	96.91	UL-RL	4.2375E+04	-9.800	0.000	1.000	1.000
73.86	0.000	0.000	Strato2_84780_84781_L_0									
51 D	14.96	-5.6539E-04	197.5	74.81	197.5	98.77	UL-RL	4.2375E+04	-10.00	0.000	1.000	1.000
74.81	0.000	0.000	Strato2_84780_84781_L_0									
52 D	7.579	-5.8630E-04	201.3	75.79	201.3	100.6	UL-RL	4.2375E+04	-10.20	0.000	1.000	1.000
75.79	0.000	0.000	Strato2_84780_84781_L_0									

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454          |
|          Exe Time :29 July 2019          19:21:29          |
+-----+
1468.1 - GA27 - Cepav2

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STRESS RESULTS FOR GROUP NO. 2

0_R :

ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 52

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1159 di
1221

CURRENT TIME IS 3.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1	0.000	--	--	--	--	--	REMOVED	--	0.000	0.000	1.000	1.000
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	not available									
3	0.000	--	--	--	--	--	REMOVED	--	-0.4000	0.000	1.000	1.000
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	not available									
5	0.000	--	--	--	--	--	REMOVED	--	-0.8000	0.000	1.000	1.000
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	not available									
7	0.000	--	--	--	--	--	REMOVED	--	-1.200	0.000	1.000	1.000
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	not available									
9	0.000	--	--	--	--	--	REMOVED	--	-1.600	0.000	1.000	1.000
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	not available									
11	0.000	--	--	--	--	--	REMOVED	--	-2.000	0.000	1.000	1.000
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	not available									
13	0.000	--	--	--	--	--	REMOVED	--	-2.400	0.000	1.000	1.000
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	not available									
15	0.000	--	--	--	--	--	REMOVED	--	-2.800	0.000	1.000	1.000
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	not available									
17	0.000	--	--	--	--	--	REMOVED	--	-3.200	0.000	1.000	1.000
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	not available									
19	0.000	--	--	--	--	--	REMOVED	--	-3.600	0.000	1.000	1.000
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	not available									
21	0.000	--	--	--	--	--	REMOVED	--	-4.000	0.000	1.000	1.000
0.000	0.000	0.000	not available									
22	0.000	--	--	--	--	--	REMOVED	--	-4.200	0.000	1.000	1.000
0.000	0.000	0.000	not available									
23	0.000	--	--	--	--	--	REMOVED	--	-4.400	0.000	1.000	1.000
0.000	0.000	0.000	not available									
24	0.000	--	--	--	--	--	REMOVED	--	-4.600	0.000	1.000	1.000
0.000	0.000	0.000	not available									
25	0.000	--	--	--	--	--	REMOVED	--	-4.800	0.000	1.000	1.000
0.000	0.000	0.000	not available									
26	0.000	--	--	--	--	--	REMOVED	--	-5.000	0.000	1.000	1.000
0.000	0.000	0.000	not available									
27	0.000	--	--	--	--	--	REMOVED	--	-5.200	0.000	1.000	1.000
0.000	0.000	0.000	not available									
28 D	18.88	8.5625E-03	0.9500	94.39	102.6	94.39	PASSIVE	0.000	-5.400	0.000	1.000	1.000
94.39	0.000	0.000	Strato2_84780_84781_L_0									
29 D	19.06	6.9691E-03	4.750	95.31	106.4	95.31	V-C	8050.	-5.600	0.000	1.000	1.000
95.31	0.000	0.000	Strato2_84780_84781_L_0									
30 D	17.25	5.5185E-03	8.550	86.27	110.2	86.27	V-C	8050.	-5.800	0.000	1.000	1.000
86.27	0.000	0.000	Strato2_84780_84781_L_0									
31 D	15.68	4.2404E-03	12.35	78.39	114.0	78.39	V-C	8050.	-6.000	0.000	1.000	1.000
78.39	0.000	0.000	Strato2_84780_84781_L_0									
32 D	14.38	3.1517E-03	16.15	71.91	117.8	71.91	V-C	8050.	-6.200	0.000	1.000	1.000
71.91	0.000	0.000	Strato2_84780_84781_L_0									
33 D	13.38	2.2581E-03	19.95	66.92	121.6	66.92	V-C	8050.	-6.400	0.000	1.000	1.000
66.92	0.000	0.000	Strato2_84780_84781_L_0									
34 D	12.68	1.5548E-03	23.75	63.41	125.4	63.41	V-C	8050.	-6.600	0.000	1.000	1.000
63.41	0.000	0.000	Strato2_84780_84781_L_0									
35 D	10.93	1.0280E-03	27.55	54.66	129.2	64.60	UL-RL	2.4150E+04	-6.800	0.000	1.000	1.000
54.66	0.000	0.000	Strato2_84780_84781_L_0									
36 D	9.626	6.5600E-04	31.35	48.13	133.0	66.50	UL-RL	2.4150E+04	-7.000	0.000	1.000	1.000
48.13	0.000	0.000	Strato2_84780_84781_L_0									
37 D	8.926	4.1239E-04	35.15	44.63	136.8	68.40	UL-RL	2.4150E+04	-7.200	0.000	1.000	1.000
44.63	0.000	0.000	Strato2_84780_84781_L_0									
38 D	8.703	2.6969E-04	38.95	43.51	140.6	70.30	UL-RL	2.4150E+04	-7.400	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1160 di 1221
43.51	0.000	0.000	Strato2_84780_84781_L_0		
39 D	8.833	2.0211E-04	42.75 44.17 144.4	72.20	UL-RL 2.4150E+04 -7.600 0.000 1.000 1.000
44.17	0.000	0.000	Strato2_84780_84781_L_0		
40 D	9.210	1.8714E-04	46.55 46.05 148.2	74.10	UL-RL 2.4150E+04 -7.800 0.000 1.000 1.000
46.05	0.000	0.000	Strato2_84780_84781_L_0		
41 D	9.744	2.0621E-04	50.35 48.72 152.0	76.00	UL-RL 2.4150E+04 -8.000 0.000 1.000 1.000
48.72	0.000	0.000	Strato2_84780_84781_L_0		
42 D	10.37	2.4484E-04	54.15 51.84 155.8	77.90	UL-RL 2.4150E+04 -8.200 0.000 1.000 1.000
51.84	0.000	0.000	Strato2_84780_84781_L_0		
43 D	11.03	2.9242E-04	57.95 55.15 159.6	79.80	UL-RL 2.4150E+04 -8.400 0.000 1.000 1.000
55.15	0.000	0.000	Strato2_84780_84781_L_0		
44 D	11.70	3.4166E-04	61.75 58.48 163.4	81.70	UL-RL 2.4150E+04 -8.600 0.000 1.000 1.000
58.48	0.000	0.000	Strato2_84780_84781_L_0		
45 D	12.34	3.8808E-04	65.55 61.72 167.2	83.60	UL-RL 2.4150E+04 -8.800 0.000 1.000 1.000
61.72	0.000	0.000	Strato2_84780_84781_L_0		
46 D	12.96	4.2939E-04	69.35 64.82 171.0	85.50	UL-RL 2.4150E+04 -9.000 0.000 1.000 1.000
64.82	0.000	0.000	Strato2_84780_84781_L_0		
47 D	13.55	4.6490E-04	73.15 67.77 174.8	87.40	UL-RL 2.4150E+04 -9.200 0.000 1.000 1.000
67.77	0.000	0.000	Strato2_84780_84781_L_0		
48 D	14.11	4.9505E-04	76.95 70.57 178.6	89.30	UL-RL 2.4150E+04 -9.400 0.000 1.000 1.000
70.57	0.000	0.000	Strato2_84780_84781_L_0		
49 D	14.65	5.2093E-04	80.75 73.26 182.4	91.20	UL-RL 2.4150E+04 -9.600 0.000 1.000 1.000
73.26	0.000	0.000	Strato2_84780_84781_L_0		
50 D	15.17	5.4393E-04	84.55 75.87 186.2	93.10	UL-RL 2.4150E+04 -9.800 0.000 1.000 1.000
75.87	0.000	0.000	Strato2_84780_84781_L_0		
51 D	15.69	5.6539E-04	88.35 78.44 190.0	95.00	UL-RL 2.4150E+04 -10.00 0.000 1.000 1.000
78.44	0.000	0.000	Strato2_84780_84781_L_0		
52 D	8.098	5.8630E-04	92.15 80.98 193.8	96.90	UL-RL 2.4150E+04 -10.20 0.000 1.000 1.000
80.98	0.000	0.000	Strato2_84780_84781_L_0		

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                          |
|          1468.1-GA27-Cepav2.BaseDesignSection 28.SLERara_3454                                          |
|          Exe Time :29 July 2019          19:21:29                                          |
+-----+

```

1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 51
 CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1-5.58220E-13	5.58220E-13	7.77711E-14	4.50862E-13	
2	-31.643	31.643	6.50313E-13	-6.3286
3	-31.155	31.155	6.3286	-12.560
4	-30.417	30.417	12.560	-18.643
5	-29.425	29.425	18.643	-24.528
6	-28.172	28.172	24.528	-30.162
7	-26.652	26.652	30.162	-35.493
8	-24.862	24.862	35.493	-40.465
9	-22.642	22.642	40.465	-44.994
10	-20.001	20.001	44.994	-48.994
11	-16.981	16.981	48.994	-52.390
12	-13.589	13.589	52.390	-55.108
13	-9.8561	9.8561	55.108	-57.079
14	-5.7824	5.7824	57.079	-58.235
15	-1.3905	1.3905	58.235	-58.513
16	3.3209	-3.3209	58.513	-57.849
17	8.2709	-8.2709	57.849	-56.195
18	13.425	-13.425	56.195	-53.510
19	18.785	-18.785	53.510	-49.753
20	24.354	-24.354	49.753	-44.882
21	30.134	-30.134	44.882	-38.856
22	36.127	-36.127	38.856	-31.630
23	42.335	-42.335	31.630	-23.163
24	48.760	-48.760	23.163	-13.411
25	55.402	-55.402	13.411	-2.3307
26	62.264	-62.264	2.3307	10.122
27	69.347	-69.347	-10.122	23.992
28	52.164	-52.164	-23.992	34.424
29	34.969	-34.969	-34.424	41.418
30	19.756	-19.756	-41.418	45.369
31	6.2952	-6.2952	-45.369	46.628
32	-5.6942	5.6942	-46.628	45.489
33	-16.510	16.510	-45.489	42.187

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1161 di 1221
---------	------------------	-------------	---	-----------	---------------------------

34	-26.447	26.447	-42.187	36.898
35	-32.167	32.167	-36.898	30.464
36	-33.071	33.071	-30.464	23.850
37	-30.852	30.852	-23.850	17.680
38	-26.841	26.841	-17.680	12.312
39	-22.026	22.026	-12.312	7.9065
40	-17.099	17.099	-7.9065	4.4867
41	-12.506	12.506	-4.4867	1.9855
42	-8.5009	8.5009	-1.9855	0.28535
43	-5.1973	5.1973	-0.28535	-0.75411
44	-2.6124	2.6124	0.75411	-1.2766
45	-0.70452	0.70452	1.2766	-1.4175
46	0.59821	-0.59821	1.4175	-1.2978
47	1.3763	-1.3763	1.2978	-1.0226
48	1.7043	-1.7043	1.0226	-0.68172
49	1.6461	-1.6461	0.68172	-0.35250
50	1.2436	-1.2436	0.35250	-0.10379
51	0.51891	-0.51891	0.10379	-7.74866E-14

```

-----+-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      19:21:29
|
-----+-----

```

1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 4

```

Tieback_78031      :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
CURRENT TIME IS   3.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	93.228	0.0000	1.45126E-03	0.0000	64239.	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

```

-----+-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          1468.1-GA27-Cepav2.BaseDesignSection_28.SLERara_3454
|          Exe Time :29 July 2019      19:21:29
|
-----+-----

```

FINAL INCREMENTAL ANALYSIS

SUMMARY

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

END OF PROCESS FOR PROBLEM

1468.1 - GA27 - Cepav2

NONLINEAR SOLUTION CPU TIME 0.04 [sec]

DATABASE CREATION CPU TIME..... 0.12 [sec]

5.5. Design Assumption : A1+M1+R1 - File di Paratie - File di input (.d)

* PARATIE ANALYSIS FOR DESIGN SECTION:Base Design Section USING ASSUMPTION: A1+M1+R1

* Time:lunedì 29 luglio 2019 19:21:29

* 1: Defining general settings

UNIT m kN

TITLE 1468.1 - GA27 - Cepav2

DELTA 0.2

option param itemax 100

option control hinges 0 0.0001 0.001

* 2: Defining wall(s)

WALL LeftWall_32 0 -10.2 0 1

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1162 di 1221
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```
* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_32 -10.2 0 1 0
SOIL 0_R LeftWall_32 -10.2 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Strato1_3095_78023_L_0)
*
LDATA Strato1_3095_78023_L_0 0 LeftWall_32
ATREST 0.5 0.5 1
WEIGHT 19 9 10
PERMEABILITY 1E-05
RESISTANCE 0 29
YOUNG 2.5E+04 4E+04
ENDL
*
* Soil Profile (Strato2_84780_84781_L_0)
*
LDATA Strato2_84780_84781_L_0 -5.35 LeftWall_32
ATREST 0.5 0.5 1
WEIGHT 19 9 10
PERMEABILITY 1E-05
RESISTANCE 20 35
YOUNG 5E+04 1.5E+05
ENDL

* 5: Defining structural materials
* Steel material: 113 Name=S275 E=210000000 kPa
MATERIAL S275_113 2.1E+08
* Concrete material: 104 Name=C25/30 E=31475800 kPa
MATERIAL C2530_104 3.148E+07
* Rebar material: 78036 Name=S275 E=210000000 kPa
MATERIAL S275_78036 2.1E+08

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
BEAM WallElement_33 LeftWall_32 -10.2 0 S275_113 0.08153 00 00 0

* 6.2: Supports
WIRE Tieback_78031 LeftWall_32 -0.2 S275_78036 0.0003059 0 70 0 0

* 6.3: Strips
STRIP LeftWall_32 3 3 2.33 3 0 60.09 30

* 7: Defining Steps
STEP Stage0_86326
CHANGE Strato1_3095_78023_L_0 U-FRICT=29 LeftWall_32
CHANGE Strato1_3095_78023_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato1_3095_78023_L_0 U-KA=0.319 LeftWall_32
CHANGE Strato1_3095_78023_L_0 U-KP=3.606 LeftWall_32
CHANGE Strato1_3095_78023_L_0 D-KA=0.319 LeftWall_32
CHANGE Strato1_3095_78023_L_0 D-KP=3.606 LeftWall_32
CHANGE Strato2_84780_84781_L_0 U-FRICT=35 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato2_84780_84781_L_0 U-KA=0.248 LeftWall_32
CHANGE Strato2_84780_84781_L_0 U-KP=5.02 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-KA=0.248 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-KP=5.02 LeftWall_32
CHANGE Strato1_3095_78023_L_0 U-COHE=0 LeftWall_32
CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_84780_84781_L_0 U-COHE=20 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -17 0 -10.2 0 0
ENDSTEP

STEP Stage1_31
CHANGE Strato1_3095_78023_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -17 0 -10.2 0 0
ADD WallElement_33 Tieback_78031
ENDSTEP

STEP Stage2_158
CHANGE Strato1_3095_78023_L_0 D-FRICT=29 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-FRICT=35 LeftWall_32
CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1163 di
1221

CHANGE Strato2_84780_84781_L_0 D-COHE=20 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -5.35
WATER -17 0 -10.2 0 0
ENDSTEP

5.6. Design Assumption : A1+M1+R1 - File di Paratie - File di output (.out)

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      19:21:29  |
+-----+

```

```

*****
*                                                                 *
*  PARATIE PLUS Non-Linear Spring Engine                        *
*                                                                 *
*  AN ELASTOPLASTIC FINITE ELEMENT PROGRAM                    *
*  FOR FLEXIBLE EARTH-RETAINING STRUCTURES                     *
*                                                                 *
*  Written by Ce.A.S. s.r.l. (ITALY)                            *
*  with the scientific supervision of                            *
*  Roberto Nova - full professor SOIL MECHANICS                *
*  at Politecnico di Milano (ITALY)                            *
*                                                                 *
*****
*  RELEASE  2017.1      *Build date:Jul 11, 2017*  *          *
*                                                                 *
*  Ce.A.S.    S.R.L  CENTRO DI ANALISI STRUTTURALE             *
*  VIALE     GIUSTINIANO 10                                    *
*  20129     M I L A N O (ITALIA)                              *
*  TEL.      +39 02 2020221  (+39 035 23 67 19)                *
*  FAX       +39 02 29512533  (+39 035 42285 49)                *
*  email     bruno.becci@ceas.it                               *
*  Web Page  www.ceas.it                                       *
*****

```

```

JOB : 1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484
STARTING
ACCEPTED <FILE,GENW                                     >
ACCEPTED <FILE,PLOTTER,BINARY                           >
ACCEPTED <SOLVE TOTAL_STRESS                            >
ACCEPTED <PARAM ITEM MAX 100                             >
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  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      19:21:29  |
+-----+

```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

1468.1 - GA27 - Cepav2

```

NO. OF NODAL POINTS (NUMNP) ..... 52
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2

```

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1164 di 1221
---------	------------------	-------------	---	-----------	---------------------------

NO. OF EQUATIONS (NEQ)..... 104
 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 68
 NO. OF LONG NAMES (LASTNAME) 16
 LENGTH UNIT CHOICE 3 (M)
 FORCE UNIT CHOICE 3 (KN)
 MAX PORE PRESSURE TABLE LENGTH..... 1
 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 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection 28.A1M1R1_3484  |
|          Exe Time :29 July 2019  19:21:29  |
|-----+-----
    
```

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 68

```

1 : UNIT m kN
2 : TITLE 1468.1 - GA27 - Cepav2
3 : DELTA 0.2
4 : option param itemax 100
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -10.2 0 1
7 : SOIL 0_L LeftWall_32 -10.2 0 1 0
8 : SOIL 0_R LeftWall_32 -10.2 0 2 180
9 : LDATA Strato1_3095_78023_L_0 0 LeftWall_32
10 : ATREST 0.5 0.5 1
11 : WEIGHT 19 9 10
12 : PERMEABILITY 1E-05
13 : RESISTANCE 0 29
14 : YOUNG 2.5E+04 4E+04
15 : ENDL
16 : LDATA Strato2_84780_84781_L_0 -5.35 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 19 9 10
19 : PERMEABILITY 1E-05
20 : RESISTANCE 20 35
21 : YOUNG 5E+04 1.5E+05
22 : ENDL
23 : MATERIAL S275_113 2.1E+08
24 : MATERIAL C2530_104 3.148E+07
25 : MATERIAL S275_78036 2.1E+08
26 : BEAM WallElement_33 LeftWall_32 -10.2 0 S275_113 0.08153 00 00 0
27 : WIRE Tieback_78031 LeftWall_32 -0.2 S275_78036 0.0003059 0 70 0 0
28 : STRIP LeftWall_32 3 3 2.33 3 0 60.09 30
29 : STEP Stage0_86326
30 : CHANGE Strato1_3095_78023_L_0 U-FRICT=29 LeftWall_32
31 : CHANGE Strato1_3095_78023_L_0 D-FRICT=29 LeftWall_32
32 : CHANGE Strato1_3095_78023_L_0 U-KA=0.319 LeftWall_32
33 : CHANGE Strato1_3095_78023_L_0 U-KP=3.606 LeftWall_32
34 : CHANGE Strato1_3095_78023_L_0 D-KA=0.319 LeftWall_32
35 : CHANGE Strato1_3095_78023_L_0 D-KP=3.606 LeftWall_32
36 : CHANGE Strato2_84780_84781_L_0 U-FRICT=35 LeftWall_32
37 : CHANGE Strato2_84780_84781_L_0 D-FRICT=35 LeftWall_32
38 : CHANGE Strato2_84780_84781_L_0 U-KA=0.248 LeftWall_32
39 : CHANGE Strato2_84780_84781_L_0 U-KP=5.02 LeftWall_32
40 : CHANGE Strato2_84780_84781_L_0 D-KA=0.248 LeftWall_32
41 : CHANGE Strato2_84780_84781_L_0 D-KP=5.02 LeftWall_32
42 : CHANGE Strato1_3095_78023_L_0 U-COHE=0 LeftWall_32
    
```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1165 di 1221
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```

43 : CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
44 : CHANGE Strato2_84780_84781_L_0 U-COHE=20 LeftWall_32
45 : CHANGE Strato2_84780_84781_L_0 D-COHE=20 LeftWall_32
46 : SETWALL LeftWall_32
47 : GEOM 0 0
48 : WATER -17 0 -10.2 0 0
49 : ENDSTEP
50 : STEP Stage1_31
51 : CHANGE Strato1_3095_78023_L_0 D-FRICT=29 LeftWall_32
52 : CHANGE Strato2_84780_84781_L_0 D-FRICT=35 LeftWall_32
53 : CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
54 : CHANGE Strato2_84780_84781_L_0 D-COHE=20 LeftWall_32
55 : SETWALL LeftWall_32
56 : GEOM 0 0
57 : WATER -17 0 -10.2 0 0
58 : ADD WallElement_33 Tieback_78031
59 : ENDSTEP
60 : STEP Stage2_158
61 : CHANGE Strato1_3095_78023_L_0 D-FRICT=29 LeftWall_32
62 : CHANGE Strato2_84780_84781_L_0 D-FRICT=35 LeftWall_32
63 : CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
64 : CHANGE Strato2_84780_84781_L_0 D-COHE=20 LeftWall_32
65 : SETWALL LeftWall_32
66 : GEOM 0 -5.35
67 : WATER -17 0 -10.2 0 0
68 : ENDSTEP

```

```

-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484
|          Exe Time :29 July 2019      19:21:29
|
-----

```

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 /
5	0.0000	-0.80000 /	6	0.0000	-1.0000	/	7	0.0000	-1.2000 /
9	0.0000	-1.6000 /	10	0.0000	-1.8000	/	11	0.0000	-2.0000 /
13	0.0000	-2.4000 /	14	0.0000	-2.6000	/	15	0.0000	-2.8000 /
17	0.0000	-3.2000 /	18	0.0000	-3.4000	/	19	0.0000	-3.6000 /
21	0.0000	-4.0000 /	22	0.0000	-4.2000	/	23	0.0000	-4.4000 /
25	0.0000	-4.8000 /	26	0.0000	-5.0000	/	27	0.0000	-5.2000 /
29	0.0000	-5.6000 /	30	0.0000	-5.8000	/	31	0.0000	-6.0000 /
33	0.0000	-6.4000 /	34	0.0000	-6.6000	/	35	0.0000	-6.8000 /
37	0.0000	-7.2000 /	38	0.0000	-7.4000	/	39	0.0000	-7.6000 /
41	0.0000	-8.0000 /	42	0.0000	-8.2000	/	43	0.0000	-8.4000 /
45	0.0000	-8.8000 /	46	0.0000	-9.0000	/	47	0.0000	-9.2000 /
49	0.0000	-9.6000 /	50	0.0000	-9.8000	/	51	0.0000	-10.000 /
						/	52	0.0000	-10.200 /

```

-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484
|          Exe Time :29 July 2019      19:21:29
|
-----

```

ELEMENT GROUP NO. 1

```

O_L
5 52 0 1 0 0 0 0 0 0 0 0 0 0 0 0 2 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

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1166 di 1221
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material set no. 2

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

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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	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	0.1000	0.000	0.000	0.000	1.000

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          19:21:29          |
+-----+

```

ELEMENT GROUP NO. 2

```

O_R          :
 5 52  0  1  0  0  0  0  0  0  0  0  0  0  0  2  0  0  0  0
.....
.....2D PLASTIC SOIL .....
.....

```

element group behaviour throughout stage analysis

stage status

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1167 di 1221
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- 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

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	1	0.2000	0.000	0.000	0.000	2.000
22	22	1	0.2000	0.000	0.000	0.000	2.000
23	23	1	0.2000	0.000	0.000	0.000	2.000
24	24	1	0.2000	0.000	0.000	0.000	2.000
25	25	1	0.2000	0.000	0.000	0.000	2.000
26	26	1	0.2000	0.000	0.000	0.000	2.000
27	27	1	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	0.1000	0.000	0.000	0.000	2.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1168 di
1221

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  19:21:29  |
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```

ELEMENT GROUP NO. 3

```

WallElement_33      :
  2 51 0 1 0 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  inactive
  2  active
  3  active

```

material set no. 1

```

prop( 1) young modulus      0.210000E+09
prop( 2) modification time  0.00000
prop( 3) new young modulus  0.00000
prop( 4) poisson ratio      0.00000
prop( 5) future .....0.182200E-43

```

```

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	by-i	by-j
1	1	2	1	0.000	0.000	0.8153E-01	0.000	0.000
2	2	3	1	0.000	0.000	0.8153E-01	0.000	0.000
3	3	4	1	0.000	0.000	0.8153E-01	0.000	0.000
4	4	5	1	0.000	0.000	0.8153E-01	0.000	0.000
5	5	6	1	0.000	0.000	0.8153E-01	0.000	0.000
6	6	7	1	0.000	0.000	0.8153E-01	0.000	0.000
7	7	8	1	0.000	0.000	0.8153E-01	0.000	0.000
8	8	9	1	0.000	0.000	0.8153E-01	0.000	0.000
9	9	10	1	0.000	0.000	0.8153E-01	0.000	0.000
10	10	11	1	0.000	0.000	0.8153E-01	0.000	0.000
11	11	12	1	0.000	0.000	0.8153E-01	0.000	0.000
12	12	13	1	0.000	0.000	0.8153E-01	0.000	0.000
13	13	14	1	0.000	0.000	0.8153E-01	0.000	0.000
14	14	15	1	0.000	0.000	0.8153E-01	0.000	0.000
15	15	16	1	0.000	0.000	0.8153E-01	0.000	0.000
16	16	17	1	0.000	0.000	0.8153E-01	0.000	0.000
17	17	18	1	0.000	0.000	0.8153E-01	0.000	0.000
18	18	19	1	0.000	0.000	0.8153E-01	0.000	0.000
19	19	20	1	0.000	0.000	0.8153E-01	0.000	0.000
20	20	21	1	0.000	0.000	0.8153E-01	0.000	0.000
21	21	22	1	0.000	0.000	0.8153E-01	0.000	0.000
22	22	23	1	0.000	0.000	0.8153E-01	0.000	0.000
23	23	24	1	0.000	0.000	0.8153E-01	0.000	0.000
24	24	25	1	0.000	0.000	0.8153E-01	0.000	0.000
25	25	26	1	0.000	0.000	0.8153E-01	0.000	0.000
26	26	27	1	0.000	0.000	0.8153E-01	0.000	0.000
27	27	28	1	0.000	0.000	0.8153E-01	0.000	0.000
28	28	29	1	0.000	0.000	0.8153E-01	0.000	0.000
29	29	30	1	0.000	0.000	0.8153E-01	0.000	0.000
30	30	31	1	0.000	0.000	0.8153E-01	0.000	0.000
31	31	32	1	0.000	0.000	0.8153E-01	0.000	0.000
32	32	33	1	0.000	0.000	0.8153E-01	0.000	0.000
33	33	34	1	0.000	0.000	0.8153E-01	0.000	0.000
34	34	35	1	0.000	0.000	0.8153E-01	0.000	0.000
35	35	36	1	0.000	0.000	0.8153E-01	0.000	0.000
36	36	37	1	0.000	0.000	0.8153E-01	0.000	0.000
37	37	38	1	0.000	0.000	0.8153E-01	0.000	0.000
38	38	39	1	0.000	0.000	0.8153E-01	0.000	0.000
39	39	40	1	0.000	0.000	0.8153E-01	0.000	0.000
40	40	41	1	0.000	0.000	0.8153E-01	0.000	0.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1169 di 1221
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41	41	42	1	0.000	0.000	0.8153E-01	0.000	0.000
42	42	43	1	0.000	0.000	0.8153E-01	0.000	0.000
43	43	44	1	0.000	0.000	0.8153E-01	0.000	0.000
44	44	45	1	0.000	0.000	0.8153E-01	0.000	0.000
45	45	46	1	0.000	0.000	0.8153E-01	0.000	0.000
46	46	47	1	0.000	0.000	0.8153E-01	0.000	0.000
47	47	48	1	0.000	0.000	0.8153E-01	0.000	0.000
48	48	49	1	0.000	0.000	0.8153E-01	0.000	0.000
49	49	50	1	0.000	0.000	0.8153E-01	0.000	0.000
50	50	51	1	0.000	0.000	0.8153E-01	0.000	0.000
51	51	52	1	0.000	0.000	0.8153E-01	0.000	0.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484
|          Exe Time :29 July 2019      19:21:29
|
-----

```

```

ELEMENT GROUP NO.  4

Tieback_78031      :
6  1  0  1  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  2  0
.....
.....2D POST-TENSION ANCHOR.....
.....

```

element group behaviour throughout stage analysis

```

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

```

```

material set no.  1

prop( 1) angle      70.0000
prop( 2) young modulus 0.210000E+09
prop( 3) modification time 0.000000
prop( 4) new young modulus 0.000000

```

```

no. of step variable items:  2
step  -ve lim  +ve lim
-----
1  0.000  0.000
2  0.000  0.000
3  0.000  0.000

```

```

element data

el  n  mat      a/l    pinit    yieldc    yieldt
-----
1  2  1  0.3059E-03  0.000    0.000    0.000

```

```

-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484
|          Exe Time :29 July 2019      19:21:29
|
-----

```

```

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

```

```

-----
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484
|          Exe Time :29 July 2019      19:21:29
|
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```

L O A D D A T A

LOAD FUNCTION NUMBER = 1

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1171 di 1221
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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  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      19:21:29  |
+-----+

```

```

NO. OF LAYERS ..... 2
NO. OF DATA PER LAYER..... 100

```

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      19:21:29  |
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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  >= 0.0000    (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.  9<U-FRICT >= 29.000    (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.31900  WALL NO.    1
ITEM NO. 11<U-KP   >= 3.6060    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   >= 25000.    (BOTH WALLS)
ITEM NO. 18<EUR   >= 40000.    (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000    (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000    (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 29.000    (BOTH WALLS)
ITEM NO. 60<D-KA   >= 0.31900  WALL NO.    1
ITEM NO. 61<D-KP   >= 3.6060    WALL NO.    1
ITEM NO. 77<D-PERM >= 0.10000E-04 (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  >= -5.3500    (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 >= 20.000    (BOTH WALLS)
ITEM NO.  9<U-FRICT >= 35.000    (BOTH WALLS)
ITEM NO. 10<U-KA   >= 0.24800  WALL NO.    1
ITEM NO. 11<U-KP   >= 5.0200    WALL NO.    1
ITEM NO. 12<K0-NC >= 0.50000    (BOTH WALLS)
ITEM NO. 13<NEXP  >= 0.50000    (BOTH WALLS)

```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1172 di 1221
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ITEM NO. 14<OCR >= 1.0000 (BOTH WALLS)
 ITEM NO. 16<MODEL >= 1.0000 (BOTH WALLS)
 ITEM NO. 17<EVC >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.24800 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.0200 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (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 >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.31900 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.6060 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 >= 25000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 40000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.31900 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.6060 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (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 >= -5.3500 (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 >= 20.000 (BOTH WALLS)
 ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.24800 WALL NO. 1
 ITEM NO. 11<U-KP >= 5.0200 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
 ITEM NO. 60<D-KA >= 0.24800 WALL NO. 1
 ITEM NO. 61<D-KP >= 5.0200 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (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 >= 0.0000 (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. 9<U-FRICT >= 29.000 (BOTH WALLS)
 ITEM NO. 10<U-KA >= 0.31900 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.6060 WALL NO. 1

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1173 di 1221
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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 >= 25000. (BOTH WALLS)
ITEM NO. 18<EUR >= 40000. (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 29.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.31900 WALL NO. 1
ITEM NO. 61<D-KP >= 3.6060 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (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 >= -5.3500 (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 >= 20.000 (BOTH WALLS)
ITEM NO. 9<U-FRICT >= 35.000 (BOTH WALLS)
ITEM NO. 10<U-KA >= 0.24800 WALL NO. 1
ITEM NO. 11<U-KP >= 5.0200 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 >= 50000. (BOTH WALLS)
ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
ITEM NO. 58<D-COHE >= 20.000 (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 35.000 (BOTH WALLS)
ITEM NO. 60<D-KA >= 0.24800 WALL NO. 1
ITEM NO. 61<D-KP >= 5.0200 WALL NO. 1
ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)
    
```

DEFAULT WATER UNIT WEIGHT = 10.000
AVERAGED ON 6 VALUES

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  19:21:29  |
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PHASE DESCRIPTORS

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STEP NO. 1
LEFT WALL  RIGHT WALL
Y          0.000  -0.9990E+30
Z-PC      0.000  0.000
Z-EXCAVATION 0.000  0.000
Z-WATER_TABLE -17.00  -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL 0.000  0.000
ZQ        0.000  0.000
DZW_OF_THE_WATER_TABLE 0.000  0.000
QS_ON_THE_EXCAVATION_SIDE 0.000  0.000
ZQS      -0.9990E+30 -0.9990E+30
ZCUT     0.000  0.000
BALANCE LEVEL FOR PORE PRESSURES -10.20 -10.20
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
    
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GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1174 di 1221
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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	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER_TABLE		-17.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-10.20	-10.20
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	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		-5.350	0.000
Z-WATER_TABLE		-17.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-10.20	-10.20
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

GENERAL CONTRACTOR



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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1175 di
1221

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

LEFT-HAND WALL

LOWER LEVEL -10.20000
UPPER LEVEL 0.00000

RIGHT-HAND WALL

LOWER LEVEL -10.20000
UPPER LEVEL 0.00000

| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| |
| 1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484 |
Exe Time :29 July 2019 19:21:29

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 3.0000
END TIME (TIME BEYOND WHICH IT IS REMOVED) 3.0000

TYPE BOUSSINESQ

HORIZONTAL DISTANCE (DY) 2.3300000000000000
FOUNDATION WIDTH (B) 3.0000000000000000
ZETA-F..... 0.0000000000000000E+000
Q-F 60.0900000000000000
BETA 30.0000000000000000
BEHAVIOUR (0=FREE, 1=REFLECTING) 0.0000000000000000E+000

ELEMENT GROUPS BACKUP AREA CAN STAY IN CORE AT
POSITION 2422

NO. OF D.P.W FOR THIS AREA 6191
MAX NO. OF D.P.W. AVAILABLE 81920
** MAX NO OF ITERATIONS SET TO 100

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1258E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 19.00 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1258E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 104 NODE 52 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1258E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 19.00 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1258E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 104 NODE 52 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1258E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 19.00 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000

GENERAL CONTRACTOR



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Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1176 di
1221

RDT =0.1258E+05 RDR = 0.000
 RATIO= 0.000 RATIO= 0.000
 MAX UN= 0.000 IEQ= 104 NODE 52 DOF 2 X-ROT. F
 MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          1468.1-GA27-Cepav2.BaseDesignSection 28.A1M1R1_3484
|          Exe Time :29 July 2019      19:21:29
|
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1468.1 - GA27 - Cepav2

SOLUTION REACHED USING 2 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 1 (AT TIME 1.000)

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

Y-DISPL.F X-ROT. F
 (02) (04) (

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          1468.1-GA27-Cepav2.BaseDesignSection 28.A1M1R1_3484
|          Exe Time :29 July 2019      19:21:29
|
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 1

0_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 52
 CURRENT TIME IS 1.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	3.1207E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_3095_78023_L_0									
2 D	0.3800	0.000	3.800	1.900	3.800	1.900	V-C	3.1207E+04	-0.2000	0.000	1.000	1.000
1.900	0.000	0.000	Strato1_3095_78023_L_0									
3 D	0.7600	0.000	7.600	3.800	7.600	3.800	V-C	3.1207E+04	-0.4000	0.000	1.000	1.000
3.800	0.000	0.000	Strato1_3095_78023_L_0									
4 D	1.140	0.000	11.40	5.700	11.40	5.700	V-C	3.1207E+04	-0.6000	0.000	1.000	1.000
5.700	0.000	0.000	Strato1_3095_78023_L_0									
5 D	1.520	0.000	15.20	7.600	15.20	7.600	V-C	3.1207E+04	-0.8000	0.000	1.000	1.000
7.600	0.000	0.000	Strato1_3095_78023_L_0									
6 D	1.900	0.000	19.00	9.500	19.00	9.500	V-C	3.1207E+04	-1.000	0.000	1.000	1.000
9.500	0.000	0.000	Strato1_3095_78023_L_0									
7 D	2.280	0.000	22.80	11.40	22.80	11.40	V-C	3.1207E+04	-1.200	0.000	1.000	1.000
11.40	0.000	0.000	Strato1_3095_78023_L_0									
8 D	2.660	0.000	26.60	13.30	26.60	13.30	V-C	3.1207E+04	-1.400	0.000	1.000	1.000
13.30	0.000	0.000	Strato1_3095_78023_L_0									
9 D	3.040	0.000	30.40	15.20	30.40	15.20	V-C	3.1207E+04	-1.600	0.000	1.000	1.000
15.20	0.000	0.000	Strato1_3095_78023_L_0									
10 D	3.420	0.000	34.20	17.10	34.20	17.10	V-C	3.1207E+04	-1.800	0.000	1.000	1.000
17.10	0.000	0.000	Strato1_3095_78023_L_0									
11 D	3.800	0.000	38.00	19.00	38.00	19.00	V-C	3.1207E+04	-2.000	0.000	1.000	1.000
19.00	0.000	0.000	Strato1_3095_78023_L_0									
12 D	4.180	0.000	41.80	20.90	41.80	20.90	V-C	3.1207E+04	-2.200	0.000	1.000	1.000
20.90	0.000	0.000	Strato1_3095_78023_L_0									
13 D	4.560	0.000	45.60	22.80	45.60	22.80	V-C	3.1207E+04	-2.400	0.000	1.000	1.000
22.80	0.000	0.000	Strato1_3095_78023_L_0									
14 D	4.940	0.000	49.40	24.70	49.40	24.70	V-C	3.1207E+04	-2.600	0.000	1.000	1.000
24.70	0.000	0.000	Strato1_3095_78023_L_0									
15 D	5.320	0.000	53.20	26.60	53.20	26.60	V-C	3.1207E+04	-2.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1177 di 1221
26.60	0.000	0.000	Strato1_3095_78023_L_0		
16 D	5.700	0.000	57.00 28.50 57.00	28.50	V-C 3.1207E+04 -3.000 0.000 1.000 1.000
28.50	0.000	0.000	Strato1_3095_78023_L_0		
17 D	6.080	0.000	60.80 30.40 60.80	30.40	V-C 3.1207E+04 -3.200 0.000 1.000 1.000
30.40	0.000	0.000	Strato1_3095_78023_L_0		
18 D	6.460	0.000	64.60 32.30 64.60	32.30	V-C 3.1207E+04 -3.400 0.000 1.000 1.000
32.30	0.000	0.000	Strato1_3095_78023_L_0		
19 D	6.840	0.000	68.40 34.20 68.40	34.20	V-C 3.1207E+04 -3.600 0.000 1.000 1.000
34.20	0.000	0.000	Strato1_3095_78023_L_0		
20 D	7.220	0.000	72.20 36.10 72.20	36.10	V-C 3.1207E+04 -3.800 0.000 1.000 1.000
36.10	0.000	0.000	Strato1_3095_78023_L_0		
21 D	7.600	0.000	76.00 38.00 76.00	38.00	V-C 3.1207E+04 -4.000 0.000 1.000 1.000
38.00	0.000	0.000	Strato1_3095_78023_L_0		
22 D	7.980	0.000	79.80 39.90 79.80	39.90	V-C 3.1207E+04 -4.200 0.000 1.000 1.000
39.90	0.000	0.000	Strato1_3095_78023_L_0		
23 D	8.360	0.000	83.60 41.80 83.60	41.80	V-C 3.1207E+04 -4.400 0.000 1.000 1.000
41.80	0.000	0.000	Strato1_3095_78023_L_0		
24 D	8.740	0.000	87.40 43.70 87.40	43.70	V-C 3.1207E+04 -4.600 0.000 1.000 1.000
43.70	0.000	0.000	Strato1_3095_78023_L_0		
25 D	9.120	0.000	91.20 45.60 91.20	45.60	V-C 3.1207E+04 -4.800 0.000 1.000 1.000
45.60	0.000	0.000	Strato1_3095_78023_L_0		
26 D	9.500	0.000	95.00 47.50 95.00	47.50	V-C 3.1207E+04 -5.000 0.000 1.000 1.000
47.50	0.000	0.000	Strato1_3095_78023_L_0		
27 D	9.880	0.000	98.80 49.40 98.80	49.40	V-C 3.1207E+04 -5.200 0.000 1.000 1.000
49.40	0.000	0.000	Strato1_3095_78023_L_0		
28 D	10.26	0.000	102.6 51.30 102.6	51.30	V-C 7.0624E+04 -5.400 0.000 1.000 1.000
51.30	0.000	0.000	Strato2_84780_84781_L_0		
29 D	10.64	0.000	106.4 53.20 106.4	53.20	V-C 7.0624E+04 -5.600 0.000 1.000 1.000
53.20	0.000	0.000	Strato2_84780_84781_L_0		
30 D	11.02	0.000	110.2 55.10 110.2	55.10	V-C 7.0624E+04 -5.800 0.000 1.000 1.000
55.10	0.000	0.000	Strato2_84780_84781_L_0		
31 D	11.40	0.000	114.0 57.00 114.0	57.00	V-C 7.0624E+04 -6.000 0.000 1.000 1.000
57.00	0.000	0.000	Strato2_84780_84781_L_0		
32 D	11.78	0.000	117.8 58.90 117.8	58.90	V-C 7.0624E+04 -6.200 0.000 1.000 1.000
58.90	0.000	0.000	Strato2_84780_84781_L_0		
33 D	12.16	0.000	121.6 60.80 121.6	60.80	V-C 7.0624E+04 -6.400 0.000 1.000 1.000
60.80	0.000	0.000	Strato2_84780_84781_L_0		
34 D	12.54	0.000	125.4 62.70 125.4	62.70	V-C 7.0624E+04 -6.600 0.000 1.000 1.000
62.70	0.000	0.000	Strato2_84780_84781_L_0		
35 D	12.92	0.000	129.2 64.60 129.2	64.60	V-C 7.0624E+04 -6.800 0.000 1.000 1.000
64.60	0.000	0.000	Strato2_84780_84781_L_0		
36 D	13.30	0.000	133.0 66.50 133.0	66.50	V-C 7.0624E+04 -7.000 0.000 1.000 1.000
66.50	0.000	0.000	Strato2_84780_84781_L_0		
37 D	13.68	0.000	136.8 68.40 136.8	68.40	V-C 7.0624E+04 -7.200 0.000 1.000 1.000
68.40	0.000	0.000	Strato2_84780_84781_L_0		
38 D	14.06	0.000	140.6 70.30 140.6	70.30	V-C 7.0624E+04 -7.400 0.000 1.000 1.000
70.30	0.000	0.000	Strato2_84780_84781_L_0		
39 D	14.44	0.000	144.4 72.20 144.4	72.20	V-C 7.0624E+04 -7.600 0.000 1.000 1.000
72.20	0.000	0.000	Strato2_84780_84781_L_0		
40 D	14.82	0.000	148.2 74.10 148.2	74.10	V-C 7.0624E+04 -7.800 0.000 1.000 1.000
74.10	0.000	0.000	Strato2_84780_84781_L_0		
41 D	15.20	0.000	152.0 76.00 152.0	76.00	V-C 7.0624E+04 -8.000 0.000 1.000 1.000
76.00	0.000	0.000	Strato2_84780_84781_L_0		
42 D	15.58	0.000	155.8 77.90 155.8	77.90	V-C 7.0624E+04 -8.200 0.000 1.000 1.000
77.90	0.000	0.000	Strato2_84780_84781_L_0		
43 D	15.96	0.000	159.6 79.80 159.6	79.80	V-C 7.0624E+04 -8.400 0.000 1.000 1.000
79.80	0.000	0.000	Strato2_84780_84781_L_0		
44 D	16.34	0.000	163.4 81.70 163.4	81.70	V-C 7.0624E+04 -8.600 0.000 1.000 1.000
81.70	0.000	0.000	Strato2_84780_84781_L_0		
45 D	16.72	0.000	167.2 83.60 167.2	83.60	V-C 7.0624E+04 -8.800 0.000 1.000 1.000
83.60	0.000	0.000	Strato2_84780_84781_L_0		
46 D	17.10	0.000	171.0 85.50 171.0	85.50	V-C 7.0624E+04 -9.000 0.000 1.000 1.000
85.50	0.000	0.000	Strato2_84780_84781_L_0		
47 D	17.48	0.000	174.8 87.40 174.8	87.40	V-C 7.0624E+04 -9.200 0.000 1.000 1.000
87.40	0.000	0.000	Strato2_84780_84781_L_0		
48 D	17.86	0.000	178.6 89.30 178.6	89.30	V-C 7.0624E+04 -9.400 0.000 1.000 1.000
89.30	0.000	0.000	Strato2_84780_84781_L_0		
49 D	18.24	0.000	182.4 91.20 182.4	91.20	V-C 7.0624E+04 -9.600 0.000 1.000 1.000
91.20	0.000	0.000	Strato2_84780_84781_L_0		
50 D	18.62	0.000	186.2 93.10 186.2	93.10	V-C 7.0624E+04 -9.800 0.000 1.000 1.000
93.10	0.000	0.000	Strato2_84780_84781_L_0		
51 D	19.00	0.000	190.0 95.00 190.0	95.00	V-C 7.0624E+04 -10.00 0.000 1.000 1.000
95.00	0.000	0.000	Strato2_84780_84781_L_0		
52 D	9.690	0.000	193.8 96.90 193.8	96.90	V-C 7.0624E+04 -10.20 0.000 1.000 1.000
96.90	0.000	0.000	Strato2_84780_84781_L_0		



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1178 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|          |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  19:21:29  |
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 52
CURRENT TIME IS 1.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	2.1656E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_3095_78023_L_0									
2 D	0.3800	0.000	3.800	1.900	3.800	1.900	V-C	2.1656E+04	-0.2000	0.000	1.000	1.000
1.900	0.000	0.000	Strato1_3095_78023_L_0									
3 D	0.7600	0.000	7.600	3.800	7.600	3.800	V-C	2.1656E+04	-0.4000	0.000	1.000	1.000
3.800	0.000	0.000	Strato1_3095_78023_L_0									
4 D	1.140	0.000	11.40	5.700	11.40	5.700	V-C	2.1656E+04	-0.6000	0.000	1.000	1.000
5.700	0.000	0.000	Strato1_3095_78023_L_0									
5 D	1.520	0.000	15.20	7.600	15.20	7.600	V-C	2.1656E+04	-0.8000	0.000	1.000	1.000
7.600	0.000	0.000	Strato1_3095_78023_L_0									
6 D	1.900	0.000	19.00	9.500	19.00	9.500	V-C	2.1656E+04	-1.000	0.000	1.000	1.000
9.500	0.000	0.000	Strato1_3095_78023_L_0									
7 D	2.280	0.000	22.80	11.40	22.80	11.40	V-C	2.1656E+04	-1.200	0.000	1.000	1.000
11.40	0.000	0.000	Strato1_3095_78023_L_0									
8 D	2.660	0.000	26.60	13.30	26.60	13.30	V-C	2.1656E+04	-1.400	0.000	1.000	1.000
13.30	0.000	0.000	Strato1_3095_78023_L_0									
9 D	3.040	0.000	30.40	15.20	30.40	15.20	V-C	2.1656E+04	-1.600	0.000	1.000	1.000
15.20	0.000	0.000	Strato1_3095_78023_L_0									
10 D	3.420	0.000	34.20	17.10	34.20	17.10	V-C	2.1656E+04	-1.800	0.000	1.000	1.000
17.10	0.000	0.000	Strato1_3095_78023_L_0									
11 D	3.800	0.000	38.00	19.00	38.00	19.00	V-C	2.1656E+04	-2.000	0.000	1.000	1.000
19.00	0.000	0.000	Strato1_3095_78023_L_0									
12 D	4.180	0.000	41.80	20.90	41.80	20.90	V-C	2.1656E+04	-2.200	0.000	1.000	1.000
20.90	0.000	0.000	Strato1_3095_78023_L_0									
13 D	4.560	0.000	45.60	22.80	45.60	22.80	V-C	2.1656E+04	-2.400	0.000	1.000	1.000
22.80	0.000	0.000	Strato1_3095_78023_L_0									
14 D	4.940	0.000	49.40	24.70	49.40	24.70	V-C	2.1656E+04	-2.600	0.000	1.000	1.000
24.70	0.000	0.000	Strato1_3095_78023_L_0									
15 D	5.320	0.000	53.20	26.60	53.20	26.60	V-C	2.1656E+04	-2.800	0.000	1.000	1.000
26.60	0.000	0.000	Strato1_3095_78023_L_0									
16 D	5.700	0.000	57.00	28.50	57.00	28.50	V-C	2.1656E+04	-3.000	0.000	1.000	1.000
28.50	0.000	0.000	Strato1_3095_78023_L_0									
17 D	6.080	0.000	60.80	30.40	60.80	30.40	V-C	2.1656E+04	-3.200	0.000	1.000	1.000
30.40	0.000	0.000	Strato1_3095_78023_L_0									
18 D	6.460	0.000	64.60	32.30	64.60	32.30	V-C	2.1656E+04	-3.400	0.000	1.000	1.000
32.30	0.000	0.000	Strato1_3095_78023_L_0									
19 D	6.840	0.000	68.40	34.20	68.40	34.20	V-C	2.1656E+04	-3.600	0.000	1.000	1.000
34.20	0.000	0.000	Strato1_3095_78023_L_0									
20 D	7.220	0.000	72.20	36.10	72.20	36.10	V-C	2.1656E+04	-3.800	0.000	1.000	1.000
36.10	0.000	0.000	Strato1_3095_78023_L_0									
21 D	7.600	0.000	76.00	38.00	76.00	38.00	V-C	2.1656E+04	-4.000	0.000	1.000	1.000
38.00	0.000	0.000	Strato1_3095_78023_L_0									
22 D	7.980	0.000	79.80	39.90	79.80	39.90	V-C	2.1656E+04	-4.200	0.000	1.000	1.000
39.90	0.000	0.000	Strato1_3095_78023_L_0									
23 D	8.360	0.000	83.60	41.80	83.60	41.80	V-C	2.1656E+04	-4.400	0.000	1.000	1.000
41.80	0.000	0.000	Strato1_3095_78023_L_0									
24 D	8.740	0.000	87.40	43.70	87.40	43.70	V-C	2.1656E+04	-4.600	0.000	1.000	1.000
43.70	0.000	0.000	Strato1_3095_78023_L_0									
25 D	9.120	0.000	91.20	45.60	91.20	45.60	V-C	2.1656E+04	-4.800	0.000	1.000	1.000
45.60	0.000	0.000	Strato1_3095_78023_L_0									
26 D	9.500	0.000	95.00	47.50	95.00	47.50	V-C	2.1656E+04	-5.000	0.000	1.000	1.000
47.50	0.000	0.000	Strato1_3095_78023_L_0									
27 D	9.880	0.000	98.80	49.40	98.80	49.40	V-C	2.1656E+04	-5.200	0.000	1.000	1.000
49.40	0.000	0.000	Strato1_3095_78023_L_0									
28 D	10.26	0.000	102.6	51.30	102.6	51.30	V-C	3.8277E+04	-5.400	0.000	1.000	1.000
51.30	0.000	0.000	Strato2_84780_84781_L_0									
29 D	10.64	0.000	106.4	53.20	106.4	53.20	V-C	3.8277E+04	-5.600	0.000	1.000	1.000
53.20	0.000	0.000	Strato2_84780_84781_L_0									
30 D	11.02	0.000	110.2	55.10	110.2	55.10	V-C	3.8277E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1179 di 1221
55.10	0.000	0.000	Strato2_84780_84781_L_0		
31 D	11.40	0.000	114.0 57.00 114.0	57.00	V-C 3.8277E+04 -6.000 0.000 1.000 1.000
57.00	0.000	0.000	Strato2_84780_84781_L_0		
32 D	11.78	0.000	117.8 58.90 117.8	58.90	V-C 3.8277E+04 -6.200 0.000 1.000 1.000
58.90	0.000	0.000	Strato2_84780_84781_L_0		
33 D	12.16	0.000	121.6 60.80 121.6	60.80	V-C 3.8277E+04 -6.400 0.000 1.000 1.000
60.80	0.000	0.000	Strato2_84780_84781_L_0		
34 D	12.54	0.000	125.4 62.70 125.4	62.70	V-C 3.8277E+04 -6.600 0.000 1.000 1.000
62.70	0.000	0.000	Strato2_84780_84781_L_0		
35 D	12.92	0.000	129.2 64.60 129.2	64.60	V-C 3.8277E+04 -6.800 0.000 1.000 1.000
64.60	0.000	0.000	Strato2_84780_84781_L_0		
36 D	13.30	0.000	133.0 66.50 133.0	66.50	V-C 3.8277E+04 -7.000 0.000 1.000 1.000
66.50	0.000	0.000	Strato2_84780_84781_L_0		
37 D	13.68	0.000	136.8 68.40 136.8	68.40	V-C 3.8277E+04 -7.200 0.000 1.000 1.000
68.40	0.000	0.000	Strato2_84780_84781_L_0		
38 D	14.06	0.000	140.6 70.30 140.6	70.30	V-C 3.8277E+04 -7.400 0.000 1.000 1.000
70.30	0.000	0.000	Strato2_84780_84781_L_0		
39 D	14.44	0.000	144.4 72.20 144.4	72.20	V-C 3.8277E+04 -7.600 0.000 1.000 1.000
72.20	0.000	0.000	Strato2_84780_84781_L_0		
40 D	14.82	0.000	148.2 74.10 148.2	74.10	V-C 3.8277E+04 -7.800 0.000 1.000 1.000
74.10	0.000	0.000	Strato2_84780_84781_L_0		
41 D	15.20	0.000	152.0 76.00 152.0	76.00	V-C 3.8277E+04 -8.000 0.000 1.000 1.000
76.00	0.000	0.000	Strato2_84780_84781_L_0		
42 D	15.58	0.000	155.8 77.90 155.8	77.90	V-C 3.8277E+04 -8.200 0.000 1.000 1.000
77.90	0.000	0.000	Strato2_84780_84781_L_0		
43 D	15.96	0.000	159.6 79.80 159.6	79.80	V-C 3.8277E+04 -8.400 0.000 1.000 1.000
79.80	0.000	0.000	Strato2_84780_84781_L_0		
44 D	16.34	0.000	163.4 81.70 163.4	81.70	V-C 3.8277E+04 -8.600 0.000 1.000 1.000
81.70	0.000	0.000	Strato2_84780_84781_L_0		
45 D	16.72	0.000	167.2 83.60 167.2	83.60	V-C 3.8277E+04 -8.800 0.000 1.000 1.000
83.60	0.000	0.000	Strato2_84780_84781_L_0		
46 D	17.10	0.000	171.0 85.50 171.0	85.50	V-C 3.8277E+04 -9.000 0.000 1.000 1.000
85.50	0.000	0.000	Strato2_84780_84781_L_0		
47 D	17.48	0.000	174.8 87.40 174.8	87.40	V-C 3.8277E+04 -9.200 0.000 1.000 1.000
87.40	0.000	0.000	Strato2_84780_84781_L_0		
48 D	17.86	0.000	178.6 89.30 178.6	89.30	V-C 3.8277E+04 -9.400 0.000 1.000 1.000
89.30	0.000	0.000	Strato2_84780_84781_L_0		
49 D	18.24	0.000	182.4 91.20 182.4	91.20	V-C 3.8277E+04 -9.600 0.000 1.000 1.000
91.20	0.000	0.000	Strato2_84780_84781_L_0		
50 D	18.62	0.000	186.2 93.10 186.2	93.10	V-C 3.8277E+04 -9.800 0.000 1.000 1.000
93.10	0.000	0.000	Strato2_84780_84781_L_0		
51 D	19.00	0.000	190.0 95.00 190.0	95.00	V-C 3.8277E+04 -10.00 0.000 1.000 1.000
95.00	0.000	0.000	Strato2_84780_84781_L_0		
52 D	9.690	0.000	193.8 96.90 193.8	96.90	V-C 3.8277E+04 -10.20 0.000 1.000 1.000
96.90	0.000	0.000	Strato2_84780_84781_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          19:21:29          |
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 3

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Wallelement_33          :
ELEMENT TYPE          2 NO.OF ELEMENTS. IN THIS GROUP          51
CURRENT TIME IS          1.0000

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WALL2D ELEMENT

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EL      TA      TB      MA      MB
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484          |
|          Exe Time :29 July 2019          19:21:29          |
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 4

Tieback_78031

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.

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Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1180 di
1221

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL FORCE d0 EDISPL pl. eps K -ve limit +ve limit

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1258E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 19.00 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1258E+05 RDR = 0.000
RATIOT= 0.000 RATIOR= 0.000
MAX UN= 0.000 IEQ= 104 NODE 52 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1258E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 19.00 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1258E+05 RDR = 0.000
RATIOT= 0.000 RATIOR= 0.000
MAX UN= 0.000 IEQ= 104 NODE 52 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1258E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 19.00 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1258E+05 RDR = 0.000
RATIOT= 0.000 RATIOR= 0.000
MAX UN= 0.000 IEQ= 104 NODE 52 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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| PARATIEPLUS(TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| | |
| 1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484 |
| Exe Time :29 July 2019 19:21:29 |
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1468.1 - GA27 - Cepav2
SOLUTION REACHED USING 2 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

Y-DISPL.F X-ROT. F
(02) (04) (

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1181 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  19:21:29  |
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 1

O_L :
 ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 52
 CURRENT TIME IS 2.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.000	0.000	0.000	0.000	0.000	0.000	UL-RL	4.9931E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_3095_78023_L_0									
2 D	0.3800	0.000	3.800	1.900	3.800	1.900	UL-RL	4.9931E+04	-0.2000	0.000	1.000	1.000
1.900	0.000	0.000	Strato1_3095_78023_L_0									
3 D	0.7600	0.000	7.600	3.800	7.600	3.800	UL-RL	4.9931E+04	-0.4000	0.000	1.000	1.000
3.800	0.000	0.000	Strato1_3095_78023_L_0									
4 D	1.140	0.000	11.40	5.700	11.40	5.700	UL-RL	4.9931E+04	-0.6000	0.000	1.000	1.000
5.700	0.000	0.000	Strato1_3095_78023_L_0									
5 D	1.520	0.000	15.20	7.600	15.20	7.600	UL-RL	4.9931E+04	-0.8000	0.000	1.000	1.000
7.600	0.000	0.000	Strato1_3095_78023_L_0									
6 D	1.900	0.000	19.00	9.500	19.00	9.500	UL-RL	4.9931E+04	-1.000	0.000	1.000	1.000
9.500	0.000	0.000	Strato1_3095_78023_L_0									
7 D	2.280	0.000	22.80	11.40	22.80	11.40	UL-RL	4.9931E+04	-1.200	0.000	1.000	1.000
11.40	0.000	0.000	Strato1_3095_78023_L_0									
8 D	2.660	0.000	26.60	13.30	26.60	13.30	UL-RL	4.9931E+04	-1.400	0.000	1.000	1.000
13.30	0.000	0.000	Strato1_3095_78023_L_0									
9 D	3.040	0.000	30.40	15.20	30.40	15.20	UL-RL	4.9931E+04	-1.600	0.000	1.000	1.000
15.20	0.000	0.000	Strato1_3095_78023_L_0									
10 D	3.420	0.000	34.20	17.10	34.20	17.10	UL-RL	4.9931E+04	-1.800	0.000	1.000	1.000
17.10	0.000	0.000	Strato1_3095_78023_L_0									
11 D	3.800	0.000	38.00	19.00	38.00	19.00	UL-RL	4.9931E+04	-2.000	0.000	1.000	1.000
19.00	0.000	0.000	Strato1_3095_78023_L_0									
12 D	4.180	0.000	41.80	20.90	41.80	20.90	UL-RL	4.9931E+04	-2.200	0.000	1.000	1.000
20.90	0.000	0.000	Strato1_3095_78023_L_0									
13 D	4.560	0.000	45.60	22.80	45.60	22.80	UL-RL	4.9931E+04	-2.400	0.000	1.000	1.000
22.80	0.000	0.000	Strato1_3095_78023_L_0									
14 D	4.940	0.000	49.40	24.70	49.40	24.70	UL-RL	4.9931E+04	-2.600	0.000	1.000	1.000
24.70	0.000	0.000	Strato1_3095_78023_L_0									
15 D	5.320	0.000	53.20	26.60	53.20	26.60	UL-RL	4.9931E+04	-2.800	0.000	1.000	1.000
26.60	0.000	0.000	Strato1_3095_78023_L_0									
16 D	5.700	0.000	57.00	28.50	57.00	28.50	UL-RL	4.9931E+04	-3.000	0.000	1.000	1.000
28.50	0.000	0.000	Strato1_3095_78023_L_0									
17 D	6.080	0.000	60.80	30.40	60.80	30.40	UL-RL	4.9931E+04	-3.200	0.000	1.000	1.000
30.40	0.000	0.000	Strato1_3095_78023_L_0									
18 D	6.460	0.000	64.60	32.30	64.60	32.30	UL-RL	4.9931E+04	-3.400	0.000	1.000	1.000
32.30	0.000	0.000	Strato1_3095_78023_L_0									
19 D	6.840	0.000	68.40	34.20	68.40	34.20	UL-RL	4.9931E+04	-3.600	0.000	1.000	1.000
34.20	0.000	0.000	Strato1_3095_78023_L_0									
20 D	7.220	0.000	72.20	36.10	72.20	36.10	UL-RL	4.9931E+04	-3.800	0.000	1.000	1.000
36.10	0.000	0.000	Strato1_3095_78023_L_0									
21 D	7.600	0.000	76.00	38.00	76.00	38.00	UL-RL	4.9931E+04	-4.000	0.000	1.000	1.000
38.00	0.000	0.000	Strato1_3095_78023_L_0									
22 D	7.980	0.000	79.80	39.90	79.80	39.90	UL-RL	4.9931E+04	-4.200	0.000	1.000	1.000
39.90	0.000	0.000	Strato1_3095_78023_L_0									
23 D	8.360	0.000	83.60	41.80	83.60	41.80	UL-RL	4.9931E+04	-4.400	0.000	1.000	1.000
41.80	0.000	0.000	Strato1_3095_78023_L_0									
24 D	8.740	0.000	87.40	43.70	87.40	43.70	UL-RL	4.9931E+04	-4.600	0.000	1.000	1.000
43.70	0.000	0.000	Strato1_3095_78023_L_0									
25 D	9.120	0.000	91.20	45.60	91.20	45.60	UL-RL	4.9931E+04	-4.800	0.000	1.000	1.000
45.60	0.000	0.000	Strato1_3095_78023_L_0									
26 D	9.500	0.000	95.00	47.50	95.00	47.50	UL-RL	4.9931E+04	-5.000	0.000	1.000	1.000
47.50	0.000	0.000	Strato1_3095_78023_L_0									
27 D	9.880	0.000	98.80	49.40	98.80	49.40	UL-RL	4.9931E+04	-5.200	0.000	1.000	1.000
49.40	0.000	0.000	Strato1_3095_78023_L_0									
28 D	10.26	0.000	102.6	51.30	102.6	51.30	UL-RL	2.1187E+05	-5.400	0.000	1.000	1.000
51.30	0.000	0.000	Strato2_84780_84781_L_0									
29 D	10.64	0.000	106.4	53.20	106.4	53.20	UL-RL	2.1187E+05	-5.600	0.000	1.000	1.000
53.20	0.000	0.000	Strato2_84780_84781_L_0									
30 D	11.02	0.000	110.2	55.10	110.2	55.10	UL-RL	2.1187E+05	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1182 di 1221
55.10	0.000	0.000	Strato2_84780_84781_L_0		
31 D	11.40	0.000	114.0 57.00 114.0	57.00	UL-RL 2.1187E+05 -6.000 0.000 1.000 1.000
57.00	0.000	0.000	Strato2_84780_84781_L_0		
32 D	11.78	0.000	117.8 58.90 117.8	58.90	UL-RL 2.1187E+05 -6.200 0.000 1.000 1.000
58.90	0.000	0.000	Strato2_84780_84781_L_0		
33 D	12.16	0.000	121.6 60.80 121.6	60.80	UL-RL 2.1187E+05 -6.400 0.000 1.000 1.000
60.80	0.000	0.000	Strato2_84780_84781_L_0		
34 D	12.54	0.000	125.4 62.70 125.4	62.70	UL-RL 2.1187E+05 -6.600 0.000 1.000 1.000
62.70	0.000	0.000	Strato2_84780_84781_L_0		
35 D	12.92	0.000	129.2 64.60 129.2	64.60	UL-RL 2.1187E+05 -6.800 0.000 1.000 1.000
64.60	0.000	0.000	Strato2_84780_84781_L_0		
36 D	13.30	0.000	133.0 66.50 133.0	66.50	UL-RL 2.1187E+05 -7.000 0.000 1.000 1.000
66.50	0.000	0.000	Strato2_84780_84781_L_0		
37 D	13.68	0.000	136.8 68.40 136.8	68.40	UL-RL 2.1187E+05 -7.200 0.000 1.000 1.000
68.40	0.000	0.000	Strato2_84780_84781_L_0		
38 D	14.06	0.000	140.6 70.30 140.6	70.30	UL-RL 2.1187E+05 -7.400 0.000 1.000 1.000
70.30	0.000	0.000	Strato2_84780_84781_L_0		
39 D	14.44	0.000	144.4 72.20 144.4	72.20	UL-RL 2.1187E+05 -7.600 0.000 1.000 1.000
72.20	0.000	0.000	Strato2_84780_84781_L_0		
40 D	14.82	0.000	148.2 74.10 148.2	74.10	UL-RL 2.1187E+05 -7.800 0.000 1.000 1.000
74.10	0.000	0.000	Strato2_84780_84781_L_0		
41 D	15.20	0.000	152.0 76.00 152.0	76.00	UL-RL 2.1187E+05 -8.000 0.000 1.000 1.000
76.00	0.000	0.000	Strato2_84780_84781_L_0		
42 D	15.58	0.000	155.8 77.90 155.8	77.90	UL-RL 2.1187E+05 -8.200 0.000 1.000 1.000
77.90	0.000	0.000	Strato2_84780_84781_L_0		
43 D	15.96	0.000	159.6 79.80 159.6	79.80	UL-RL 2.1187E+05 -8.400 0.000 1.000 1.000
79.80	0.000	0.000	Strato2_84780_84781_L_0		
44 D	16.34	0.000	163.4 81.70 163.4	81.70	UL-RL 2.1187E+05 -8.600 0.000 1.000 1.000
81.70	0.000	0.000	Strato2_84780_84781_L_0		
45 D	16.72	0.000	167.2 83.60 167.2	83.60	UL-RL 2.1187E+05 -8.800 0.000 1.000 1.000
83.60	0.000	0.000	Strato2_84780_84781_L_0		
46 D	17.10	0.000	171.0 85.50 171.0	85.50	UL-RL 2.1187E+05 -9.000 0.000 1.000 1.000
85.50	0.000	0.000	Strato2_84780_84781_L_0		
47 D	17.48	0.000	174.8 87.40 174.8	87.40	UL-RL 2.1187E+05 -9.200 0.000 1.000 1.000
87.40	0.000	0.000	Strato2_84780_84781_L_0		
48 D	17.86	0.000	178.6 89.30 178.6	89.30	UL-RL 2.1187E+05 -9.400 0.000 1.000 1.000
89.30	0.000	0.000	Strato2_84780_84781_L_0		
49 D	18.24	0.000	182.4 91.20 182.4	91.20	UL-RL 2.1187E+05 -9.600 0.000 1.000 1.000
91.20	0.000	0.000	Strato2_84780_84781_L_0		
50 D	18.62	0.000	186.2 93.10 186.2	93.10	UL-RL 2.1187E+05 -9.800 0.000 1.000 1.000
93.10	0.000	0.000	Strato2_84780_84781_L_0		
51 D	19.00	0.000	190.0 95.00 190.0	95.00	UL-RL 2.1187E+05 -10.000 0.000 1.000 1.000
95.00	0.000	0.000	Strato2_84780_84781_L_0		
52 D	9.690	0.000	193.8 96.90 193.8	96.90	UL-RL 2.1187E+05 -10.200 0.000 1.000 1.000
96.90	0.000	0.000	Strato2_84780_84781_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  19:21:29  |
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 52
CURRENT TIME IS 2.0000

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 FACTOR	UFACTOR
Peg	Su_a	Su_p	LAYER									
1 D	0.000	0.000	0.000	0.000	0.000	0.000	UL-RL	3.4650E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_3095_78023_L_0									
2 D	0.3800	0.000	3.800	1.900	3.800	1.900	UL-RL	3.4650E+04	-0.2000	0.000	1.000	1.000
1.900	0.000	0.000	Strato1_3095_78023_L_0									
3 D	0.7600	0.000	7.600	3.800	7.600	3.800	UL-RL	3.4650E+04	-0.4000	0.000	1.000	1.000
3.800	0.000	0.000	Strato1_3095_78023_L_0									
4 D	1.140	0.000	11.40	5.700	11.40	5.700	UL-RL	3.4650E+04	-0.6000	0.000	1.000	1.000
5.700	0.000	0.000	Strato1_3095_78023_L_0									
5 D	1.520	0.000	15.20	7.600	15.20	7.600	UL-RL	3.4650E+04	-0.8000	0.000	1.000	1.000
7.600	0.000	0.000	Strato1_3095_78023_L_0									
6 D	1.900	0.000	19.00	9.500	19.00	9.500	UL-RL	3.4650E+04	-1.0000	0.000	1.000	1.000
9.500	0.000	0.000	Strato1_3095_78023_L_0									
7 D	2.280	0.000	22.80	11.40	22.80	11.40	UL-RL	3.4650E+04	-1.2000	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.				Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1183 di 1221				
11.40	0.000	0.000	Strato1_3095_78023_L_0									
8 D	2.660	0.000	26.60	13.30	26.60	13.30	UL-RL	3.4650E+04	-1.400	0.000	1.000	1.000
13.30	0.000	0.000	Strato1_3095_78023_L_0									
9 D	3.040	0.000	30.40	15.20	30.40	15.20	UL-RL	3.4650E+04	-1.600	0.000	1.000	1.000
15.20	0.000	0.000	Strato1_3095_78023_L_0									
10 D	3.420	0.000	34.20	17.10	34.20	17.10	UL-RL	3.4650E+04	-1.800	0.000	1.000	1.000
17.10	0.000	0.000	Strato1_3095_78023_L_0									
11 D	3.800	0.000	38.00	19.00	38.00	19.00	UL-RL	3.4650E+04	-2.000	0.000	1.000	1.000
19.00	0.000	0.000	Strato1_3095_78023_L_0									
12 D	4.180	0.000	41.80	20.90	41.80	20.90	UL-RL	3.4650E+04	-2.200	0.000	1.000	1.000
20.90	0.000	0.000	Strato1_3095_78023_L_0									
13 D	4.560	0.000	45.60	22.80	45.60	22.80	UL-RL	3.4650E+04	-2.400	0.000	1.000	1.000
22.80	0.000	0.000	Strato1_3095_78023_L_0									
14 D	4.940	0.000	49.40	24.70	49.40	24.70	UL-RL	3.4650E+04	-2.600	0.000	1.000	1.000
24.70	0.000	0.000	Strato1_3095_78023_L_0									
15 D	5.320	0.000	53.20	26.60	53.20	26.60	UL-RL	3.4650E+04	-2.800	0.000	1.000	1.000
26.60	0.000	0.000	Strato1_3095_78023_L_0									
16 D	5.700	0.000	57.00	28.50	57.00	28.50	UL-RL	3.4650E+04	-3.000	0.000	1.000	1.000
28.50	0.000	0.000	Strato1_3095_78023_L_0									
17 D	6.080	0.000	60.80	30.40	60.80	30.40	UL-RL	3.4650E+04	-3.200	0.000	1.000	1.000
30.40	0.000	0.000	Strato1_3095_78023_L_0									
18 D	6.460	0.000	64.60	32.30	64.60	32.30	UL-RL	3.4650E+04	-3.400	0.000	1.000	1.000
32.30	0.000	0.000	Strato1_3095_78023_L_0									
19 D	6.840	0.000	68.40	34.20	68.40	34.20	UL-RL	3.4650E+04	-3.600	0.000	1.000	1.000
34.20	0.000	0.000	Strato1_3095_78023_L_0									
20 D	7.220	0.000	72.20	36.10	72.20	36.10	UL-RL	3.4650E+04	-3.800	0.000	1.000	1.000
36.10	0.000	0.000	Strato1_3095_78023_L_0									
21 D	7.600	0.000	76.00	38.00	76.00	38.00	UL-RL	3.4650E+04	-4.000	0.000	1.000	1.000
38.00	0.000	0.000	Strato1_3095_78023_L_0									
22 D	7.980	0.000	79.80	39.90	79.80	39.90	UL-RL	3.4650E+04	-4.200	0.000	1.000	1.000
39.90	0.000	0.000	Strato1_3095_78023_L_0									
23 D	8.360	0.000	83.60	41.80	83.60	41.80	UL-RL	3.4650E+04	-4.400	0.000	1.000	1.000
41.80	0.000	0.000	Strato1_3095_78023_L_0									
24 D	8.740	0.000	87.40	43.70	87.40	43.70	UL-RL	3.4650E+04	-4.600	0.000	1.000	1.000
43.70	0.000	0.000	Strato1_3095_78023_L_0									
25 D	9.120	0.000	91.20	45.60	91.20	45.60	UL-RL	3.4650E+04	-4.800	0.000	1.000	1.000
45.60	0.000	0.000	Strato1_3095_78023_L_0									
26 D	9.500	0.000	95.00	47.50	95.00	47.50	UL-RL	3.4650E+04	-5.000	0.000	1.000	1.000
47.50	0.000	0.000	Strato1_3095_78023_L_0									
27 D	9.880	0.000	98.80	49.40	98.80	49.40	UL-RL	3.4650E+04	-5.200	0.000	1.000	1.000
49.40	0.000	0.000	Strato1_3095_78023_L_0									
28 D	10.26	0.000	102.6	51.30	102.6	51.30	UL-RL	1.1483E+05	-5.400	0.000	1.000	1.000
51.30	0.000	0.000	Strato2_84780_84781_L_0									
29 D	10.64	0.000	106.4	53.20	106.4	53.20	UL-RL	1.1483E+05	-5.600	0.000	1.000	1.000
53.20	0.000	0.000	Strato2_84780_84781_L_0									
30 D	11.02	0.000	110.2	55.10	110.2	55.10	UL-RL	1.1483E+05	-5.800	0.000	1.000	1.000
55.10	0.000	0.000	Strato2_84780_84781_L_0									
31 D	11.40	0.000	114.0	57.00	114.0	57.00	UL-RL	1.1483E+05	-6.000	0.000	1.000	1.000
57.00	0.000	0.000	Strato2_84780_84781_L_0									
32 D	11.78	0.000	117.8	58.90	117.8	58.90	UL-RL	1.1483E+05	-6.200	0.000	1.000	1.000
58.90	0.000	0.000	Strato2_84780_84781_L_0									
33 D	12.16	0.000	121.6	60.80	121.6	60.80	UL-RL	1.1483E+05	-6.400	0.000	1.000	1.000
60.80	0.000	0.000	Strato2_84780_84781_L_0									
34 D	12.54	0.000	125.4	62.70	125.4	62.70	UL-RL	1.1483E+05	-6.600	0.000	1.000	1.000
62.70	0.000	0.000	Strato2_84780_84781_L_0									
35 D	12.92	0.000	129.2	64.60	129.2	64.60	UL-RL	1.1483E+05	-6.800	0.000	1.000	1.000
64.60	0.000	0.000	Strato2_84780_84781_L_0									
36 D	13.30	0.000	133.0	66.50	133.0	66.50	UL-RL	1.1483E+05	-7.000	0.000	1.000	1.000
66.50	0.000	0.000	Strato2_84780_84781_L_0									
37 D	13.68	0.000	136.8	68.40	136.8	68.40	UL-RL	1.1483E+05	-7.200	0.000	1.000	1.000
68.40	0.000	0.000	Strato2_84780_84781_L_0									
38 D	14.06	0.000	140.6	70.30	140.6	70.30	UL-RL	1.1483E+05	-7.400	0.000	1.000	1.000
70.30	0.000	0.000	Strato2_84780_84781_L_0									
39 D	14.44	0.000	144.4	72.20	144.4	72.20	UL-RL	1.1483E+05	-7.600	0.000	1.000	1.000
72.20	0.000	0.000	Strato2_84780_84781_L_0									
40 D	14.82	0.000	148.2	74.10	148.2	74.10	UL-RL	1.1483E+05	-7.800	0.000	1.000	1.000
74.10	0.000	0.000	Strato2_84780_84781_L_0									
41 D	15.20	0.000	152.0	76.00	152.0	76.00	UL-RL	1.1483E+05	-8.000	0.000	1.000	1.000
76.00	0.000	0.000	Strato2_84780_84781_L_0									
42 D	15.58	0.000	155.8	77.90	155.8	77.90	UL-RL	1.1483E+05	-8.200	0.000	1.000	1.000
77.90	0.000	0.000	Strato2_84780_84781_L_0									
43 D	15.96	0.000	159.6	79.80	159.6	79.80	UL-RL	1.1483E+05	-8.400	0.000	1.000	1.000
79.80	0.000	0.000	Strato2_84780_84781_L_0									
44 D	16.34	0.000	163.4	81.70	163.4	81.70	UL-RL	1.1483E+05	-8.600	0.000	1.000	1.000
81.70	0.000	0.000	Strato2_84780_84781_L_0									
45 D	16.72	0.000	167.2	83.60	167.2	83.60	UL-RL	1.1483E+05	-8.800	0.000	1.000	1.000
83.60	0.000	0.000	Strato2_84780_84781_L_0									
46 D	17.10	0.000	171.0	85.50	171.0	85.50	UL-RL	1.1483E+05	-9.000	0.000	1.000	1.000
85.50	0.000	0.000	Strato2_84780_84781_L_0									
47 D	17.48	0.000	174.8	87.40	174.8	87.40	UL-RL	1.1483E+05	-9.200	0.000	1.000	1.000
87.40	0.000	0.000	Strato2_84780_84781_L_0									
48 D	17.86	0.000	178.6	89.30	178.6	89.30	UL-RL	1.1483E+05	-9.400	0.000	1.000	1.000
89.30	0.000	0.000	Strato2_84780_84781_L_0									
49 D	18.24	0.000	182.4	91.20	182.4	91.20	UL-RL	1.1483E+05	-9.600	0.000	1.000	1.000
91.20	0.000	0.000	Strato2_84780_84781_L_0									

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1184 di 1221
50 D 18.62 0.000 186.2 93.10 186.2	93.10	UL-RL	1.1483E+05 -9.800 0.000	1.000	1.000
93.10 0.000 0.000 Strato2_84780_84781_L_0					
51 D 19.00 0.000 190.0 95.00 190.0	95.00	UL-RL	1.1483E+05 -10.00 0.000	1.000	1.000
95.00 0.000 0.000 Strato2_84780_84781_L_0					
52 D 9.690 0.000 193.8 96.90 193.8	96.90	UL-RL	1.1483E+05 -10.20 0.000	1.000	1.000
96.90 0.000 0.000 Strato2_84780_84781_L_0					

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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019  19:21:29  |
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
 ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 51
 CURRENT TIME IS 2.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000
31	0.0000	0.0000	0.0000	0.0000
32	0.0000	0.0000	0.0000	0.0000
33	0.0000	0.0000	0.0000	0.0000
34	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000
36	0.0000	0.0000	0.0000	0.0000
37	0.0000	0.0000	0.0000	0.0000
38	0.0000	0.0000	0.0000	0.0000
39	0.0000	0.0000	0.0000	0.0000
40	0.0000	0.0000	0.0000	0.0000
41	0.0000	0.0000	0.0000	0.0000
42	0.0000	0.0000	0.0000	0.0000
43	0.0000	0.0000	0.0000	0.0000
44	0.0000	0.0000	0.0000	0.0000
45	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000
47	0.0000	0.0000	0.0000	0.0000
48	0.0000	0.0000	0.0000	0.0000
49	0.0000	0.0000	0.0000	0.0000
50	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	0.0000	0.0000



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1187 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484
|          Exe Time :29 July 2019      19:21:29
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1468.1 - GA27 - Cepav2

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 52
C U R R E N T T I M E I S 3.0000

HARDENING 2D SOIL ELEMENT

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

EL * Peq	FORCE Su_a	DISPL-Y Su_p	VERTICAL-P LAYER	HORIZON.-P	MAX-V-P	MAX-H-P	STATE	STIFFNESS	Z-LEVEL	PORE	E FACTOR	UFACTOR
1 D	0.000	-2.1740E-03	0.000	0.000	0.000	0.000	PASSIVE	0.000	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_3095_78023_L_0									
2 D	0.2429	-4.3592E-03	3.807	1.215	3.807	1.904	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
1.215	0.000	0.000	Strato1_3095_78023_L_0									
3 D	0.4885	-6.5399E-03	7.657	2.443	7.657	3.828	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
2.443	0.000	0.000	Strato1_3095_78023_L_0									
4 D	0.7390	-8.6931E-03	11.58	3.695	11.58	5.792	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
3.695	0.000	0.000	Strato1_3095_78023_L_0									
5 D	0.9959	-1.0792E-02	15.61	4.979	15.61	7.805	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
4.979	0.000	0.000	Strato1_3095_78023_L_0									
6 D	1.259	-1.2810E-02	19.74	6.297	19.74	9.871	ACTIVE	0.000	-1.000	0.000	1.000	1.000
6.297	0.000	0.000	Strato1_3095_78023_L_0									
7 D	1.530	-1.4722E-02	23.97	7.648	23.97	11.99	ACTIVE	0.000	-1.200	0.000	1.000	1.000
7.648	0.000	0.000	Strato1_3095_78023_L_0									
8 D	1.805	-1.6504E-02	28.29	9.025	28.29	14.15	ACTIVE	0.000	-1.400	0.000	1.000	1.000
9.025	0.000	0.000	Strato1_3095_78023_L_0									
9 D	2.263	-1.8131E-02	35.47	11.31	35.47	17.73	ACTIVE	0.000	-1.600	0.000	1.000	1.000
11.31	0.000	0.000	Strato1_3095_78023_L_0									
10 D	2.712	-1.9583E-02	42.51	13.56	42.51	21.25	ACTIVE	0.000	-1.800	0.000	1.000	1.000
13.56	0.000	0.000	Strato1_3095_78023_L_0									
11 D	3.111	-2.0840E-02	48.77	15.56	48.77	24.38	ACTIVE	0.000	-2.000	0.000	1.000	1.000
15.56	0.000	0.000	Strato1_3095_78023_L_0									
12 D	3.503	-2.1885E-02	54.90	17.51	54.90	27.45	ACTIVE	0.000	-2.200	0.000	1.000	1.000
17.51	0.000	0.000	Strato1_3095_78023_L_0									
13 D	3.860	-2.2702E-02	60.50	19.30	60.50	30.25	ACTIVE	0.000	-2.400	0.000	1.000	1.000
19.30	0.000	0.000	Strato1_3095_78023_L_0									
14 D	4.215	-2.3280E-02	66.07	21.08	66.07	33.04	ACTIVE	0.000	-2.600	0.000	1.000	1.000
21.08	0.000	0.000	Strato1_3095_78023_L_0									
15 D	4.545	-2.3610E-02	71.24	22.73	71.24	35.62	ACTIVE	0.000	-2.800	0.000	1.000	1.000
22.73	0.000	0.000	Strato1_3095_78023_L_0									
16 D	4.877	-2.3687E-02	76.44	24.38	76.44	38.22	ACTIVE	0.000	-3.000	0.000	1.000	1.000
24.38	0.000	0.000	Strato1_3095_78023_L_0									
17 D	5.115	-2.3510E-02	80.17	25.57	80.17	40.08	ACTIVE	0.000	-3.200	0.000	1.000	1.000
25.57	0.000	0.000	Strato1_3095_78023_L_0									
18 D	5.313	-2.3082E-02	83.27	26.56	83.27	41.63	ACTIVE	0.000	-3.400	0.000	1.000	1.000
26.56	0.000	0.000	Strato1_3095_78023_L_0									
19 D	5.513	-2.2410E-02	86.42	27.57	86.42	43.21	ACTIVE	0.000	-3.600	0.000	1.000	1.000
27.57	0.000	0.000	Strato1_3095_78023_L_0									
20 D	5.717	-2.1506E-02	89.61	28.59	89.61	44.80	ACTIVE	0.000	-3.800	0.000	1.000	1.000
28.59	0.000	0.000	Strato1_3095_78023_L_0									
21 D	5.923	-2.0386E-02	92.84	29.62	92.84	46.42	ACTIVE	0.000	-4.000	0.000	1.000	1.000
29.62	0.000	0.000	Strato1_3095_78023_L_0									
22 D	6.132	-1.9071E-02	96.11	30.66	96.11	48.06	ACTIVE	0.000	-4.200	0.000	1.000	1.000
30.66	0.000	0.000	Strato1_3095_78023_L_0									
23 D	6.343	-1.7587E-02	99.41	31.71	99.41	49.71	ACTIVE	0.000	-4.400	0.000	1.000	1.000
31.71	0.000	0.000	Strato1_3095_78023_L_0									
24 D	6.555	-1.5966E-02	102.7	32.78	102.7	51.37	ACTIVE	0.000	-4.600	0.000	1.000	1.000
32.78	0.000	0.000	Strato1_3095_78023_L_0									
25 D	6.769	-1.4245E-02	106.1	33.85	106.1	53.05	ACTIVE	0.000	-4.800	0.000	1.000	1.000
33.85	0.000	0.000	Strato1_3095_78023_L_0									
26 D	6.985	-1.2465E-02	109.5	34.93	109.5	54.74	ACTIVE	0.000	-5.000	0.000	1.000	1.000
34.93	0.000	0.000	Strato1_3095_78023_L_0									
27 D	7.202	-1.0674E-02	112.9	36.01	112.9	56.45	ACTIVE	0.000	-5.200	0.000	1.000	1.000
36.01	0.000	0.000	Strato1_3095_78023_L_0									
28 D	1.785	-8.9268E-03	116.3	8.927	116.3	58.16	ACTIVE	0.000	-5.400	0.000	1.000	1.000
8.927	0.000	0.000	Strato2_84780_84781_L_0									
29 D	1.956	-7.2794E-03	119.8	9.782	119.8	59.88	ACTIVE	0.000	-5.600	0.000	1.000	1.000
9.782	0.000	0.000	Strato2_84780_84781_L_0									
30 D	2.128	-5.7770E-03	123.2	10.64	123.2	61.61	ACTIVE	0.000	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1189 di 1221
9	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
10	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
11	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
12	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
13	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
14	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
15	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
16	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
17	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
18	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
19	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
20	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
21	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
22	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
23	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
24	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
25	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
26	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
27	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
28 D	18.88	8.9268E-03	0.9500 94.39 102.6	94.39	1.000
94.39	0.000	0.000	Strato2_84780_84781_L_0		1.000
29 D	19.56	7.2794E-03	4.750 97.81 106.4	97.81	1.000
97.81	0.000	0.000	Strato2_84780_84781_L_0	V-C 8050.	1.000
30 D	17.67	5.7770E-03	8.550 88.35 110.2	88.35	1.000
88.35	0.000	0.000	Strato2_84780_84781_L_0	V-C 8050.	1.000
31 D	16.02	4.4507E-03	12.35 80.08 114.0	80.08	1.000
80.08	0.000	0.000	Strato2_84780_84781_L_0	V-C 8050.	1.000
32 D	14.65	3.3180E-03	16.15 73.25 117.8	73.25	1.000
73.25	0.000	0.000	Strato2_84780_84781_L_0	V-C 8050.	1.000
33 D	13.59	2.3852E-03	19.95 67.94 121.6	67.94	1.000
67.94	0.000	0.000	Strato2_84780_84781_L_0	V-C 8050.	1.000
34 D	12.83	1.6480E-03	23.75 64.16 125.4	64.16	1.000
64.16	0.000	0.000	Strato2_84780_84781_L_0	V-C 8050.	1.000
35 D	11.24	1.0929E-03	27.55 56.22 129.2	64.60	1.000
56.22	0.000	0.000	Strato2_84780_84781_L_0	UL-RL 2.4150E+04	1.000
36 D	9.831	6.9855E-04	31.35 49.16 133.0	66.50	1.000
49.16	0.000	0.000	Strato2_84780_84781_L_0	UL-RL 2.4150E+04	1.000
37 D	9.050	4.3807E-04	35.15 45.25 136.8	68.40	1.000
45.25	0.000	0.000	Strato2_84780_84781_L_0	UL-RL 2.4150E+04	1.000
38 D	8.769	2.8338E-04	38.95 43.84 140.6	70.30	1.000
43.84	0.000	0.000	Strato2_84780_84781_L_0	UL-RL 2.4150E+04	1.000
39 D	8.861	2.0790E-04	42.75 44.31 144.4	72.20	1.000
44.31	0.000	0.000	Strato2_84780_84781_L_0	UL-RL 2.4150E+04	1.000
40 D	9.215	1.8824E-04	46.55 46.08 148.2	74.10	1.000
46.08	0.000	0.000	Strato2_84780_84781_L_0	UL-RL 2.4150E+04	1.000
41 D	9.739	2.0502E-04	50.35 48.69 152.0	76.00	1.000
48.69	0.000	0.000	Strato2_84780_84781_L_0	UL-RL 2.4150E+04	1.000
42 D	10.36	2.4308E-04	54.15 51.80 155.8	77.90	1.000
51.80	0.000	0.000	Strato2_84780_84781_L_0	UL-RL 2.4150E+04	1.000
43 D	11.02	2.9118E-04	57.95 55.12 159.6	79.80	1.000
55.12	0.000	0.000	Strato2_84780_84781_L_0	UL-RL 2.4150E+04	1.000
44 D	11.69	3.4161E-04	61.75 58.47 163.4	81.70	1.000
58.47	0.000	0.000	Strato2_84780_84781_L_0	UL-RL 2.4150E+04	1.000
45 D	12.35	3.8956E-04	65.55 61.75 167.2	83.60	1.000
61.75	0.000	0.000	Strato2_84780_84781_L_0	UL-RL 2.4150E+04	1.000
46 D	12.98	4.3249E-04	69.35 64.89 171.0	85.50	1.000
64.89	0.000	0.000	Strato2_84780_84781_L_0	UL-RL 2.4150E+04	1.000
47 D	13.58	4.6961E-04	73.15 67.88 174.8	87.40	1.000
67.88	0.000	0.000	Strato2_84780_84781_L_0	UL-RL 2.4150E+04	1.000
48 D	14.14	5.0127E-04	76.95 70.72 178.6	89.30	1.000
70.72	0.000	0.000	Strato2_84780_84781_L_0	UL-RL 2.4150E+04	1.000
49 D	14.69	5.2857E-04	80.75 73.45 182.4	91.20	1.000
73.45	0.000	0.000	Strato2_84780_84781_L_0	UL-RL 2.4150E+04	1.000
50 D	15.22	5.5290E-04	84.55 76.09 186.2	93.10	1.000
76.09	0.000	0.000	Strato2_84780_84781_L_0	UL-RL 2.4150E+04	1.000
51 D	15.74	5.7564E-04	88.35 78.68 190.0	95.00	1.000
				UL-RL 2.4150E+04	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1190 di 1221
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78.68	0.000	0.000	Strato2_84780_84781_L_0									
52 D	8.126	5.9782E-04	92.15	81.26	193.8	96.90	UL-RL	2.4150E+04	-10.20	0.000	1.000	1.000
81.26	0.000	0.000	Strato2_84780_84781_L_0									

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|
|           PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017*
|
|
|           1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484
|
|           Exe Time :29 July 2019   19:21:29
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 51
CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	4.79439E-12	-4.79439E-12	4.48752E-13	1.09890E-12
2	-32.515	32.515	-5.80980E-13	-6.5029
3	-32.026	32.026	6.5029	-12.908
4	-31.287	31.287	12.908	-19.166
5	-30.291	30.291	19.166	-25.224
6	-29.032	29.032	25.224	-31.030
7	-27.502	27.502	31.030	-36.531
8	-25.697	25.697	36.531	-41.670
9	-23.435	23.435	41.670	-46.357
10	-20.723	20.723	46.357	-50.502
11	-17.611	17.611	50.502	-54.024
12	-14.108	14.108	54.024	-56.845
13	-10.248	10.248	56.845	-58.895
14	-6.0328	6.0328	58.895	-60.102
15	-1.4874	1.4874	60.102	-60.399
16	3.3893	-3.3893	60.399	-59.721
17	8.5041	-8.5041	59.721	-58.020
18	13.817	-13.817	58.020	-55.257
19	19.330	-19.330	55.257	-51.391
20	25.047	-25.047	51.391	-46.382
21	30.970	-30.970	46.382	-40.188
22	37.102	-37.102	40.188	-32.767
23	43.445	-43.445	32.767	-24.078
24	50.000	-50.000	24.078	-14.078
25	56.769	-56.769	14.078	-2.7242
26	63.754	-63.754	2.7242	10.027
27	70.957	-70.957	-10.027	24.218
28	53.864	-53.864	-24.218	34.991
29	36.258	-36.258	-34.991	42.242
30	20.715	-20.715	-42.242	46.386
31	6.9999	-6.9999	-46.386	47.785
32	-5.1752	5.1752	-47.785	46.750
33	-16.115	16.115	-46.750	43.527
34	-26.125	26.125	-43.527	38.302
35	-32.555	32.555	-38.302	31.791
36	-33.874	33.874	-31.791	25.017
37	-31.849	31.849	-25.017	18.647
38	-27.875	27.875	-18.647	13.072
39	-22.995	22.995	-13.072	8.4731
40	-17.944	17.944	-8.4731	4.8843
41	-13.199	13.199	-4.8843	2.2445
42	-9.0372	9.0372	-2.2445	0.43706
43	-5.5862	5.5862	-0.43706	-0.68018
44	-2.8722	2.8722	0.68018	-1.2546
45	-0.85783	0.85783	1.2546	-1.4262
46	0.52750	-0.52750	1.4262	-1.3207
47	1.3647	-1.3647	1.3207	-1.0478
48	1.7295	-1.7295	1.0478	-0.70186
49	1.6880	-1.6880	0.70186	-0.36426
50	1.2832	-1.2832	0.36426	-0.10762
51	0.53811	-0.53811	0.10762	-1.71391E-14

GENERAL CONTRACTOR



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Doc. N.

Progetto
INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1191 di
1221

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      19:21:29  |
+-----+

```

1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 4

```

Tieback_78031      :
ELEMENT TYPE      6 NO.OF ELEMENTS. IN THIS GROUP      1
CURRENT TIME IS   3.0000

```

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	95.777	0.0000	1.49094E-03	0.0000	64239.	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A1M1R1_3484  |
|          Exe Time :29 July 2019      19:21:29  |
+-----+

```

FINAL INCREMENTAL ANALYSIS

SUMMARY

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

```

END OF PROCESS FOR PROBLEM
1468.1 - GA27 - Cepav2
NONLINEAR SOLUTION CPU TIME .... 0.03 [sec]
DATABASE CREATION CPU TIME..... 0.12 [sec]

```

5.7. 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:lunedì 29 luglio 2019 19:21:30
* 1: Defining general settings
UNIT m kN
TITLE 1468.1 - GA27 - Cepav2
DELTA 0.2
option param itemax 100
option control hinges 0 0.0001 0.001

* 2: Defining wall(s)
WALL LeftWall_32 0 -10.2 0 1

* 3: Defining surfaces for wall(s)
SOIL 0_L LeftWall_32 -10.2 0 1 0
SOIL 0_R LeftWall_32 -10.2 0 2 180

* 4: Defining soil layers
*
* Soil Profile (Strato1_3095_78023_L_0)
*
LDATA Strato1_3095_78023_L_0 0 LeftWall_32
ATREST 0.5 0.5 1
WEIGHT 19 9 10
PERMEABILITY 1E-05
RESISTANCE 0 29
YOUNG 2.5E+04 4E+04
ENDL
*
* Soil Profile (Strato2_84780_84781_L_0)
*

```


GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1192 di 1221
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```

LDATA Strato2_84780_84781_L_0 -5.35 LeftWall_32
ATREST 0.5 0.5 1
WEIGHT 19 9 10
PERMEABILITY 1E-05
RESISTANCE 20 35
YOUNG 5E+04 1.5E+05
ENDL

* 5: Defining structural materials
* Steel material: 113 Name=S275 E=210000000 kPa
MATERIAL S275_113 2.1E+08
* Concrete material: 104 Name=C25/30 E=31475800 kPa
MATERIAL C2530_104 3.148E+07
* Rebar material: 78036 Name=S275 E=210000000 kPa
MATERIAL S275_78036 2.1E+08

* 6: Defining structural elements
* 6.1: Beams and combined Wall Elements
BEAM WallElement_33 LeftWall_32 -10.2 0 S275_113 0.08153 00 00 0

* 6.2: Supports
WIRE Tieback_78031 LeftWall_32 -0.2 S275_78036 0.0003059 0 70 0 0

* 6.3: Strips
STRIP LeftWall_32 3 3 2.33 3 0 67.7 30

* 7: Defining Steps
STEP Stage0_86326
CHANGE Strato1_3095_78023_L_0 U-FRICT=23.91 LeftWall_32
CHANGE Strato1_3095_78023_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato1_3095_78023_L_0 U-KA=0.392 LeftWall_32
CHANGE Strato1_3095_78023_L_0 U-KP=2.792 LeftWall_32
CHANGE Strato1_3095_78023_L_0 D-KA=0.392 LeftWall_32
CHANGE Strato1_3095_78023_L_0 D-KP=2.792 LeftWall_32
CHANGE Strato2_84780_84781_L_0 U-FRICT=29.26 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato2_84780_84781_L_0 U-KA=0.316 LeftWall_32
CHANGE Strato2_84780_84781_L_0 U-KP=3.655 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-KA=0.316 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-KP=3.655 LeftWall_32
CHANGE Strato1_3095_78023_L_0 U-COHE=0 LeftWall_32
CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_84780_84781_L_0 U-COHE=16 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -17 0 -10.2 0 0
ENDSTEP

STEP Stage1_31
CHANGE Strato1_3095_78023_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 0
WATER -17 0 -10.2 0 0
ADD WallElement_33 Tieback_78031
ENDSTEP

STEP Stage2_158
CHANGE Strato1_3095_78023_L_0 D-FRICT=23.91 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-FRICT=29.26 LeftWall_32
CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
CHANGE Strato2_84780_84781_L_0 D-COHE=16 LeftWall_32
SETWALL LeftWall_32
GEOM 0 -5.35
WATER -17 0 -10.2 0 0
ENDSTEP
    
```

5.8. Design Assumption : A2+M2+R1 - File di Paratie - File di output (.out)

```

+-----+
|          PARATIEPLUS (TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017*          |
+-----+
    
```

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1193 di 1221
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```
|
| 1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514 |
| Exe Time :29 July 2019 19:21:30 |
|-----|
```

```
*****
*
* PARATIE PLUS Non-Linear Spring Engine *
*
* AN ELASTOPLASTIC FINITE ELEMENT PROGRAM *
* FOR FLEXIBLE EARTH-RETAINING STRUCTURES *
*
* Written by Ce.A.S. s.r.l. (ITALY) *
* with the scientific supervision of *
* Roberto Nova - full professor SOIL MECHANICS *
* at Politecnico di Milano (ITALY) *
*
*****
*
* RELEASE 2017.1 *Build date:Jul 11, 2017* *
*
*
* Ce.A.S. S.R.L. CENTRO DI ANALISI STRUTTURALE *
* VIALE GIUSTINIANO 10 *
* 20129 M I L A N O (ITALIA) *
* TEL. +39 02 2020221 (+39 035 23 67 19) *
* FAX +39 02 29512533 (+39 035 42285 49) *
* email bruno.becci@ceas.it *
* Web Page www.ceas.it *
*****
```

```
JOB : 1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514
STARTING
ACCEPTED <FILE,GENW >
ACCEPTED <FILE,PLOTTER,BINARY >
ACCEPTED <SOLVE TOTAL_STRESS >
ACCEPTED <PARAM ITEMAX 100 >
ACCEPTED <CONTROL HINGES 0 0.0001 0.001 >
```

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

PRELIMINARY OPERATIONS CPU TIME 0.01 [sec]

```
|-----|
| PARATIEPLUS (TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| | |
| 1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514 |
| Exe Time :29 July 2019 19:21:30 |
|-----|
```

INPUT FILE HAS BEEN GENERATED BY WALGEN PROGRAM

1468.1 - GA27 - Cepav2

```
NO. OF NODAL POINTS (NUMNP) ..... 52
NO. OF COORDINATES (NCOORD)..... 2
NO. OF NODE DOFS (NDOF)..... 2
NO. OF EQUATIONS (NEQ)..... 104
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 ..... 68
NO. OF LONG NAMES (LASTNAME) ..... 16
LENGTH UNIT CHOICE ..... 3 (M )
FORCE UNIT CHOICE ..... 3 (KN )
MAX PORE PRESSURE TABLE LENGTH..... 1
NO. OF ELEMENT GROUPS REQUIRING ADD. SLIP DOF . 0
```

IDOFA (01) = 2 Y-DISPL.F

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1194 di 1221
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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 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| |
| 1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514 |
Exe Time :29 July 2019 19:21:30

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 68

1 : UNIT m kN
2 : TITLE 1468.1 - GA27 - Cepav2
3 : DELTA 0.2
4 : option param itemax 100
5 : option control hinges 0 0.0001 0.001
6 : WALL LeftWall_32 0 -10.2 0 1
7 : SOIL 0_L LeftWall_32 -10.2 0 1 0
8 : SOIL 0_R LeftWall_32 -10.2 0 2 180
9 : LDATA Strato1_3095_78023_L_0 0 LeftWall_32
10 : ATREST 0.5 0.5 1
11 : WEIGHT 19 9 10
12 : PERMEABILITY 1E-05
13 : RESISTANCE 0 29
14 : YOUNG 2.5E+04 4E+04
15 : ENDL
16 : LDATA Strato2_84780_84781_L_0 -5.35 LeftWall_32
17 : ATREST 0.5 0.5 1
18 : WEIGHT 19 9 10
19 : PERMEABILITY 1E-05
20 : RESISTANCE 20 35
21 : YOUNG 5E+04 1.5E+05
22 : ENDL
23 : MATERIAL S275_113 2.1E+08
24 : MATERIAL C2530_104 3.148E+07
25 : MATERIAL S275_78036 2.1E+08
26 : BEAM WallElement_33 LeftWall_32 -10.2 0 S275_113 0.08153 00 00 0
27 : WIRE Tieback_78031 LeftWall_32 -0.2 S275_78036 0.0003059 0 70 0 0
28 : STRIP LeftWall_32 3 3 2.33 3 0 67.7 30
29 : STEP Stage0_86326
30 : CHANGE Strato1_3095_78023_L_0 U-FRICT=23.91 LeftWall_32
31 : CHANGE Strato1_3095_78023_L_0 D-FRICT=23.91 LeftWall_32
32 : CHANGE Strato1_3095_78023_L_0 U-KA=0.392 LeftWall_32
33 : CHANGE Strato1_3095_78023_L_0 U-KP=2.792 LeftWall_32
34 : CHANGE Strato1_3095_78023_L_0 D-KA=0.392 LeftWall_32
35 : CHANGE Strato1_3095_78023_L_0 D-KP=2.792 LeftWall_32
36 : CHANGE Strato2_84780_84781_L_0 U-FRICT=29.26 LeftWall_32
37 : CHANGE Strato2_84780_84781_L_0 D-FRICT=29.26 LeftWall_32
38 : CHANGE Strato2_84780_84781_L_0 U-KA=0.316 LeftWall_32
39 : CHANGE Strato2_84780_84781_L_0 U-KP=3.655 LeftWall_32
40 : CHANGE Strato2_84780_84781_L_0 D-KA=0.316 LeftWall_32
41 : CHANGE Strato2_84780_84781_L_0 D-KP=3.655 LeftWall_32
42 : CHANGE Strato1_3095_78023_L_0 U-COHE=0 LeftWall_32
43 : CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
44 : CHANGE Strato2_84780_84781_L_0 U-COHE=16 LeftWall_32
45 : CHANGE Strato2_84780_84781_L_0 D-COHE=16 LeftWall_32
46 : SETWALL LeftWall_32
47 : GEOM 0 0
48 : WATER -17 0 -10.2 0 0
49 : ENDSTEP
50 : STEP Stage1_31
51 : CHANGE Strato1_3095_78023_L_0 D-FRICT=23.91 LeftWall_32
52 : CHANGE Strato2_84780_84781_L_0 D-FRICT=29.26 LeftWall_32
53 : CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
54 : CHANGE Strato2_84780_84781_L_0 D-COHE=16 LeftWall_32
55 : SETWALL LeftWall_32
56 : GEOM 0 0

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1195 di 1221
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```

57 : WATER -17 0 -10.2 0 0
58 : ADD WallElement_33 Tieback_78031
59 : ENDSTEP
60 : STEP Stage2_158
61 : CHANGE Strato1_3095_78023_L_0 D-FRICT=23.91 LeftWall_32
62 : CHANGE Strato2_84780_84781_L_0 D-FRICT=29.26 LeftWall_32
63 : CHANGE Strato1_3095_78023_L_0 D-COHE=0 LeftWall_32
64 : CHANGE Strato2_84780_84781_L_0 D-COHE=16 LeftWall_32
65 : SETWALL LeftWall_32
66 : GEOM 0 -5.35
67 : WATER -17 0 -10.2 0 0
68 : ENDSTEP

```

```

-----+-----
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  19:21:30  |
-----+-----

```

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 -10.000 /	52	0.0000 -10.200 /

```

-----+-----
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  19:21:30  |
-----+-----

```

ELEMENT GROUP NO. 1

```

0_L
_5 52 0 1 0 0 0 0 0 0 0 0 0 0 2 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

```

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

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1196 di 1221
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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	1	0.2000	0.000	0.000	0.000	1.000
22	22	1	0.2000	0.000	0.000	0.000	1.000
23	23	1	0.2000	0.000	0.000	0.000	1.000
24	24	1	0.2000	0.000	0.000	0.000	1.000
25	25	1	0.2000	0.000	0.000	0.000	1.000
26	26	1	0.2000	0.000	0.000	0.000	1.000
27	27	1	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	0.1000	0.000	0.000	0.000	1.000

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                       |
|          1468.1-GA27-Cepav2.BaseDesignSection 28.A2M2R1_3514          |
|          Exe Time :29 July 2019          19:21:30          |
+-----+

```

```

ELEMENT GROUP NO.  2

0_R
 5 52  0  1  0  0  0  0  0  0  0  0  0  0  0  0  2  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

```


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12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1198 di
1221

material set no. 1

prop(1) young modulus 0.210000E+09
prop(2) modification time 0.00000
prop(3) new young modulus 0.00000
prop(4) poisson ratio 0.00000
prop(5) future0.182200E-43

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	by-i	by-j
1	1	2	1	0.000	0.000	0.8153E-01	0.000	0.000
2	2	3	1	0.000	0.000	0.8153E-01	0.000	0.000
3	3	4	1	0.000	0.000	0.8153E-01	0.000	0.000
4	4	5	1	0.000	0.000	0.8153E-01	0.000	0.000
5	5	6	1	0.000	0.000	0.8153E-01	0.000	0.000
6	6	7	1	0.000	0.000	0.8153E-01	0.000	0.000
7	7	8	1	0.000	0.000	0.8153E-01	0.000	0.000
8	8	9	1	0.000	0.000	0.8153E-01	0.000	0.000
9	9	10	1	0.000	0.000	0.8153E-01	0.000	0.000
10	10	11	1	0.000	0.000	0.8153E-01	0.000	0.000
11	11	12	1	0.000	0.000	0.8153E-01	0.000	0.000
12	12	13	1	0.000	0.000	0.8153E-01	0.000	0.000
13	13	14	1	0.000	0.000	0.8153E-01	0.000	0.000
14	14	15	1	0.000	0.000	0.8153E-01	0.000	0.000
15	15	16	1	0.000	0.000	0.8153E-01	0.000	0.000
16	16	17	1	0.000	0.000	0.8153E-01	0.000	0.000
17	17	18	1	0.000	0.000	0.8153E-01	0.000	0.000
18	18	19	1	0.000	0.000	0.8153E-01	0.000	0.000
19	19	20	1	0.000	0.000	0.8153E-01	0.000	0.000
20	20	21	1	0.000	0.000	0.8153E-01	0.000	0.000
21	21	22	1	0.000	0.000	0.8153E-01	0.000	0.000
22	22	23	1	0.000	0.000	0.8153E-01	0.000	0.000
23	23	24	1	0.000	0.000	0.8153E-01	0.000	0.000
24	24	25	1	0.000	0.000	0.8153E-01	0.000	0.000
25	25	26	1	0.000	0.000	0.8153E-01	0.000	0.000
26	26	27	1	0.000	0.000	0.8153E-01	0.000	0.000
27	27	28	1	0.000	0.000	0.8153E-01	0.000	0.000
28	28	29	1	0.000	0.000	0.8153E-01	0.000	0.000
29	29	30	1	0.000	0.000	0.8153E-01	0.000	0.000
30	30	31	1	0.000	0.000	0.8153E-01	0.000	0.000
31	31	32	1	0.000	0.000	0.8153E-01	0.000	0.000
32	32	33	1	0.000	0.000	0.8153E-01	0.000	0.000
33	33	34	1	0.000	0.000	0.8153E-01	0.000	0.000
34	34	35	1	0.000	0.000	0.8153E-01	0.000	0.000
35	35	36	1	0.000	0.000	0.8153E-01	0.000	0.000
36	36	37	1	0.000	0.000	0.8153E-01	0.000	0.000
37	37	38	1	0.000	0.000	0.8153E-01	0.000	0.000
38	38	39	1	0.000	0.000	0.8153E-01	0.000	0.000
39	39	40	1	0.000	0.000	0.8153E-01	0.000	0.000
40	40	41	1	0.000	0.000	0.8153E-01	0.000	0.000
41	41	42	1	0.000	0.000	0.8153E-01	0.000	0.000
42	42	43	1	0.000	0.000	0.8153E-01	0.000	0.000
43	43	44	1	0.000	0.000	0.8153E-01	0.000	0.000
44	44	45	1	0.000	0.000	0.8153E-01	0.000	0.000
45	45	46	1	0.000	0.000	0.8153E-01	0.000	0.000
46	46	47	1	0.000	0.000	0.8153E-01	0.000	0.000
47	47	48	1	0.000	0.000	0.8153E-01	0.000	0.000
48	48	49	1	0.000	0.000	0.8153E-01	0.000	0.000
49	49	50	1	0.000	0.000	0.8153E-01	0.000	0.000
50	50	51	1	0.000	0.000	0.8153E-01	0.000	0.000
51	51	52	1	0.000	0.000	0.8153E-01	0.000	0.000

| PARATIEPLUS(TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| |
| 1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514 |
Exe Time :29 July 2019 19:21:30

ELEMENT GROUP NO. 4

Tieback_78031 :
6 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 2 0

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Lotto
12

Codifica Documento
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Rev.
A

Foglio
1199 di
1221

.....
.....2D POST-TENSION ANCHOR.....
.....

element group behaviour throughout stage analysis

stage	status
1	inactive
2	active
3	active

material set no. 1

prop(1) angle 70.0000
 prop(2) young modulus 0.210000E+09
 prop(3) modification time 0.00000
 prop(4) new young modulus 0.00000

no. of step variable items: 2
 step -ve lim +ve lim

1	0.000	0.000
2	0.000	0.000
3	0.000	0.000

element data

el	n	mat	a/l	pinit	yieldc	yieldt
1	2	1	0.3059E-03	0.000	0.000	0.000

```

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  19:21:30  |
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```

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

```

+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  19:21:30  |
+-----+

```

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

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INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1200 di
1221

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 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514                                                                            |
|          Exe Time :29 July 2019      19:21:30                                                                                              |
+-----+

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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

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Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1201 di
1221

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+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019          19:21:30  |
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NO. OF LAYERS 2
 NO. OF DATA PER LAYER..... 100

```

+-----+
|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019          19:21:30  |
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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  >=  0.0000   (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.  9<U-FRICT >= 23.910   WALL NO.    1
ITEM NO.  9<U-FRICT >= 29.000   WALL NO.    2
ITEM NO. 10<U-KA   >=  0.39200  WALL NO.    1
ITEM NO. 11<U-KP   >=  2.7920  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    >= 25000.   (BOTH WALLS)
ITEM NO. 18<EUR    >= 40000.   (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 53<D-LEVEL >=  0.0000   (BOTH WALLS)
ITEM NO. 59<D-FRICT >= 23.910   WALL NO.    1
ITEM NO. 59<D-FRICT >= 29.000   WALL NO.    2
ITEM NO. 60<D-KA   >=  0.39200  WALL NO.    1
ITEM NO. 61<D-KP   >=  2.7920  WALL NO.    1
ITEM NO. 77<D-PERM >= 0.10000E-04 (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  >= -5.3500   (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 >= 16.000   WALL NO.    1
ITEM NO.  8<U-COHE >= 20.000   WALL NO.    2
ITEM NO.  9<U-FRICT >= 29.260   WALL NO.    1
ITEM NO.  9<U-FRICT >= 35.000   WALL NO.    2
ITEM NO. 10<U-KA   >=  0.31600  WALL NO.    1
ITEM NO. 11<U-KP   >=  3.6550  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    >= 50000.   (BOTH WALLS)
ITEM NO. 18<EUR    >= 0.15000E+06 (BOTH WALLS)
ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
ITEM NO. 52<D-NATURE>= 1.0000   (BOTH WALLS)
ITEM NO. 53<D-LEVEL >=  0.0000   (BOTH WALLS)
ITEM NO. 58<D-COHE >= 16.000   WALL NO.    1
ITEM NO. 58<D-COHE >= 20.000   WALL NO.    2
ITEM NO. 59<D-FRICT >= 29.260   WALL NO.    1
ITEM NO. 59<D-FRICT >= 35.000   WALL NO.    2
ITEM NO. 60<D-KA   >=  0.31600  WALL NO.    1
ITEM NO. 61<D-KP   >=  3.6550  WALL NO.    1

```

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GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1202 di 1221
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ITEM NO. 77<D-PERM >= 0.10000E-04 (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 >= 0.0000 (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. 9<U-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.39200 WALL NO. 1
 ITEM NO. 11<U-KP >= 2.7920 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 >= 25000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 40000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.39200 WALL NO. 1
 ITEM NO. 61<D-KP >= 2.7920 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (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 >= -5.3500 (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 >= 16.000 WALL NO. 1
 ITEM NO. 8<U-COHE >= 20.000 WALL NO. 2
 ITEM NO. 9<U-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.31600 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.6550 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 16.000 WALL NO. 1
 ITEM NO. 58<D-COHE >= 20.000 WALL NO. 2
 ITEM NO. 59<D-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.31600 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.6550 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (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 >= 0.0000 (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. 9<U-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.39200 WALL NO. 1
 ITEM NO. 11<U-KP >= 2.7920 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)

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1203 di 1221
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ITEM NO. 17<EVC >= 25000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 40000. (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 59<D-FRICT >= 23.910 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 29.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.39200 WALL NO. 1
 ITEM NO. 61<D-KP >= 2.7920 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (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 >= -5.3500 (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 >= 16.000 WALL NO. 1
 ITEM NO. 8<U-COHE >= 20.000 WALL NO. 2
 ITEM NO. 9<U-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 9<U-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 10<U-KA >= 0.31600 WALL NO. 1
 ITEM NO. 11<U-KP >= 3.6550 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 >= 50000. (BOTH WALLS)
 ITEM NO. 18<EUR >= 0.15000E+06 (BOTH WALLS)
 ITEM NO. 27<U-PERM >= 0.10000E-04 (BOTH WALLS)
 ITEM NO. 52<D-NATURE>= 1.0000 (BOTH WALLS)
 ITEM NO. 53<D-LEVEL >= 0.0000 (BOTH WALLS)
 ITEM NO. 58<D-COHE >= 16.000 WALL NO. 1
 ITEM NO. 58<D-COHE >= 20.000 WALL NO. 2
 ITEM NO. 59<D-FRICT >= 29.260 WALL NO. 1
 ITEM NO. 59<D-FRICT >= 35.000 WALL NO. 2
 ITEM NO. 60<D-KA >= 0.31600 WALL NO. 1
 ITEM NO. 61<D-KP >= 3.6550 WALL NO. 1
 ITEM NO. 77<D-PERM >= 0.10000E-04 (BOTH WALLS)

DEFAULT WATER UNIT WEIGHT = 10.000
 AVERAGED ON 6 VALUES

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+-----+
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          1468.1-GA27-Cepav2.BaseDesignSection.28.A2M2R1_3514          |
|          Exe Time :29 July 2019          19:21:30          |
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PHASE DESCRIPTORS

STEP NO.	1	LEFT WALL	RIGHT WALL
Y		0.000	-0.9990E+30
Z-PC		0.000	0.000
Z-EXCAVATION		0.000	0.000
Z-WATER TABLE		-17.00	-0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL		0.000	0.000
ZQ		0.000	0.000
DZW_OF_THE_WATER_TABLE		0.000	0.000
QS_ON_THE_EXCAVATION_SIDE		0.000	0.000
ZQS		-0.9990E+30	-0.9990E+30
ZCUT		0.000	0.000
BALANCE LEVEL FOR PORE PRESSURES		-10.20	-10.20
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

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1204 di 1221
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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
                LEFT WALL  RIGHT WALL
Y              0.000      -0.9990E+30
Z-PC           0.000      0.000
Z-EXCAVATION   0.000      0.000
Z-WATER_TABLE -17.00     -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL            0.000      0.000
ZQ             0.000      0.000
DZW_OF_THE_WATER_TABLE               0.000      0.000
QS_ON_THE_EXCAVATION_SIDE            0.000      0.000
ZQS           -0.9990E+30  -0.9990E+30
ZCUT           0.000      0.000
BALANCE LEVEL FOR PORE PRESSURES     -10.20     -10.20
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
                LEFT WALL  RIGHT WALL
Y              0.000      -0.9990E+30
Z-PC           0.000      0.000
Z-EXCAVATION   -5.350      0.000
Z-WATER_TABLE -17.00     -0.9990E+30
Q_AT_THE_FREE_FIELD_LEVEL            0.000      0.000
ZQ             0.000      0.000
DZW_OF_THE_WATER_TABLE               0.000      0.000
QS_ON_THE_EXCAVATION_SIDE            0.000      0.000
ZQS           -0.9990E+30  -0.9990E+30
ZCUT           0.000      0.000
BALANCE LEVEL FOR PORE PRESSURES     -10.20     -10.20
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
    
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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1208 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                       |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514          |
|          Exe Time :29 July 2019          19:21:30          |
+-----+
    
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 2

O_R :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 52
CURRENT TIME IS 1.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1 D	0.000	0.000	0.000	0.000	0.000	0.000	V-C	2.3916E+04	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_3095_78023_L_0									
2 D	0.3800	0.000	3.800	1.900	3.800	1.900	V-C	2.3916E+04	-0.2000	0.000	1.000	1.000
1.900	0.000	0.000	Strato1_3095_78023_L_0									
3 D	0.7600	0.000	7.600	3.800	7.600	3.800	V-C	2.3916E+04	-0.4000	0.000	1.000	1.000
3.800	0.000	0.000	Strato1_3095_78023_L_0									
4 D	1.140	0.000	11.40	5.700	11.40	5.700	V-C	2.3916E+04	-0.6000	0.000	1.000	1.000
5.700	0.000	0.000	Strato1_3095_78023_L_0									
5 D	1.520	0.000	15.20	7.600	15.20	7.600	V-C	2.3916E+04	-0.8000	0.000	1.000	1.000
7.600	0.000	0.000	Strato1_3095_78023_L_0									
6 D	1.900	0.000	19.00	9.500	19.00	9.500	V-C	2.3916E+04	-1.000	0.000	1.000	1.000
9.500	0.000	0.000	Strato1_3095_78023_L_0									
7 D	2.280	0.000	22.80	11.40	22.80	11.40	V-C	2.3916E+04	-1.200	0.000	1.000	1.000
11.40	0.000	0.000	Strato1_3095_78023_L_0									
8 D	2.660	0.000	26.60	13.30	26.60	13.30	V-C	2.3916E+04	-1.400	0.000	1.000	1.000
13.30	0.000	0.000	Strato1_3095_78023_L_0									
9 D	3.040	0.000	30.40	15.20	30.40	15.20	V-C	2.3916E+04	-1.600	0.000	1.000	1.000
15.20	0.000	0.000	Strato1_3095_78023_L_0									
10 D	3.420	0.000	34.20	17.10	34.20	17.10	V-C	2.3916E+04	-1.800	0.000	1.000	1.000
17.10	0.000	0.000	Strato1_3095_78023_L_0									
11 D	3.800	0.000	38.00	19.00	38.00	19.00	V-C	2.3916E+04	-2.000	0.000	1.000	1.000
19.00	0.000	0.000	Strato1_3095_78023_L_0									
12 D	4.180	0.000	41.80	20.90	41.80	20.90	V-C	2.3916E+04	-2.200	0.000	1.000	1.000
20.90	0.000	0.000	Strato1_3095_78023_L_0									
13 D	4.560	0.000	45.60	22.80	45.60	22.80	V-C	2.3916E+04	-2.400	0.000	1.000	1.000
22.80	0.000	0.000	Strato1_3095_78023_L_0									
14 D	4.940	0.000	49.40	24.70	49.40	24.70	V-C	2.3916E+04	-2.600	0.000	1.000	1.000
24.70	0.000	0.000	Strato1_3095_78023_L_0									
15 D	5.320	0.000	53.20	26.60	53.20	26.60	V-C	2.3916E+04	-2.800	0.000	1.000	1.000
26.60	0.000	0.000	Strato1_3095_78023_L_0									
16 D	5.700	0.000	57.00	28.50	57.00	28.50	V-C	2.3916E+04	-3.000	0.000	1.000	1.000
28.50	0.000	0.000	Strato1_3095_78023_L_0									
17 D	6.080	0.000	60.80	30.40	60.80	30.40	V-C	2.3916E+04	-3.200	0.000	1.000	1.000
30.40	0.000	0.000	Strato1_3095_78023_L_0									
18 D	6.460	0.000	64.60	32.30	64.60	32.30	V-C	2.3916E+04	-3.400	0.000	1.000	1.000
32.30	0.000	0.000	Strato1_3095_78023_L_0									
19 D	6.840	0.000	68.40	34.20	68.40	34.20	V-C	2.3916E+04	-3.600	0.000	1.000	1.000
34.20	0.000	0.000	Strato1_3095_78023_L_0									
20 D	7.220	0.000	72.20	36.10	72.20	36.10	V-C	2.3916E+04	-3.800	0.000	1.000	1.000
36.10	0.000	0.000	Strato1_3095_78023_L_0									
21 D	7.600	0.000	76.00	38.00	76.00	38.00	V-C	2.3916E+04	-4.000	0.000	1.000	1.000
38.00	0.000	0.000	Strato1_3095_78023_L_0									
22 D	7.980	0.000	79.80	39.90	79.80	39.90	V-C	2.3916E+04	-4.200	0.000	1.000	1.000
39.90	0.000	0.000	Strato1_3095_78023_L_0									
23 D	8.360	0.000	83.60	41.80	83.60	41.80	V-C	2.3916E+04	-4.400	0.000	1.000	1.000
41.80	0.000	0.000	Strato1_3095_78023_L_0									
24 D	8.740	0.000	87.40	43.70	87.40	43.70	V-C	2.3916E+04	-4.600	0.000	1.000	1.000
43.70	0.000	0.000	Strato1_3095_78023_L_0									
25 D	9.120	0.000	91.20	45.60	91.20	45.60	V-C	2.3916E+04	-4.800	0.000	1.000	1.000
45.60	0.000	0.000	Strato1_3095_78023_L_0									
26 D	9.500	0.000	95.00	47.50	95.00	47.50	V-C	2.3916E+04	-5.000	0.000	1.000	1.000
47.50	0.000	0.000	Strato1_3095_78023_L_0									
27 D	9.880	0.000	98.80	49.40	98.80	49.40	V-C	2.3916E+04	-5.200	0.000	1.000	1.000
49.40	0.000	0.000	Strato1_3095_78023_L_0									
28 D	10.26	0.000	102.6	51.30	102.6	51.30	V-C	4.3088E+04	-5.400	0.000	1.000	1.000
51.30	0.000	0.000	Strato2_84780_84781_L_0									
29 D	10.64	0.000	106.4	53.20	106.4	53.20	V-C	4.3088E+04	-5.600	0.000	1.000	1.000
53.20	0.000	0.000	Strato2_84780_84781_L_0									
30 D	11.02	0.000	110.2	55.10	110.2	55.10	V-C	4.3088E+04	-5.800	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1209 di 1221
55.10	0.000	0.000	Strato2_84780_84781_L_0		
31 D	11.40	0.000	114.0 57.00 114.0	57.00	V-C 4.3088E+04 -6.000 0.000 1.000 1.000
57.00	0.000	0.000	Strato2_84780_84781_L_0		
32 D	11.78	0.000	117.8 58.90 117.8	58.90	V-C 4.3088E+04 -6.200 0.000 1.000 1.000
58.90	0.000	0.000	Strato2_84780_84781_L_0		
33 D	12.16	0.000	121.6 60.80 121.6	60.80	V-C 4.3088E+04 -6.400 0.000 1.000 1.000
60.80	0.000	0.000	Strato2_84780_84781_L_0		
34 D	12.54	0.000	125.4 62.70 125.4	62.70	V-C 4.3088E+04 -6.600 0.000 1.000 1.000
62.70	0.000	0.000	Strato2_84780_84781_L_0		
35 D	12.92	0.000	129.2 64.60 129.2	64.60	V-C 4.3088E+04 -6.800 0.000 1.000 1.000
64.60	0.000	0.000	Strato2_84780_84781_L_0		
36 D	13.30	0.000	133.0 66.50 133.0	66.50	V-C 4.3088E+04 -7.000 0.000 1.000 1.000
66.50	0.000	0.000	Strato2_84780_84781_L_0		
37 D	13.68	0.000	136.8 68.40 136.8	68.40	V-C 4.3088E+04 -7.200 0.000 1.000 1.000
68.40	0.000	0.000	Strato2_84780_84781_L_0		
38 D	14.06	0.000	140.6 70.30 140.6	70.30	V-C 4.3088E+04 -7.400 0.000 1.000 1.000
70.30	0.000	0.000	Strato2_84780_84781_L_0		
39 D	14.44	0.000	144.4 72.20 144.4	72.20	V-C 4.3088E+04 -7.600 0.000 1.000 1.000
72.20	0.000	0.000	Strato2_84780_84781_L_0		
40 D	14.82	0.000	148.2 74.10 148.2	74.10	V-C 4.3088E+04 -7.800 0.000 1.000 1.000
74.10	0.000	0.000	Strato2_84780_84781_L_0		
41 D	15.20	0.000	152.0 76.00 152.0	76.00	V-C 4.3088E+04 -8.000 0.000 1.000 1.000
76.00	0.000	0.000	Strato2_84780_84781_L_0		
42 D	15.58	0.000	155.8 77.90 155.8	77.90	V-C 4.3088E+04 -8.200 0.000 1.000 1.000
77.90	0.000	0.000	Strato2_84780_84781_L_0		
43 D	15.96	0.000	159.6 79.80 159.6	79.80	V-C 4.3088E+04 -8.400 0.000 1.000 1.000
79.80	0.000	0.000	Strato2_84780_84781_L_0		
44 D	16.34	0.000	163.4 81.70 163.4	81.70	V-C 4.3088E+04 -8.600 0.000 1.000 1.000
81.70	0.000	0.000	Strato2_84780_84781_L_0		
45 D	16.72	0.000	167.2 83.60 167.2	83.60	V-C 4.3088E+04 -8.800 0.000 1.000 1.000
83.60	0.000	0.000	Strato2_84780_84781_L_0		
46 D	17.10	0.000	171.0 85.50 171.0	85.50	V-C 4.3088E+04 -9.000 0.000 1.000 1.000
85.50	0.000	0.000	Strato2_84780_84781_L_0		
47 D	17.48	0.000	174.8 87.40 174.8	87.40	V-C 4.3088E+04 -9.200 0.000 1.000 1.000
87.40	0.000	0.000	Strato2_84780_84781_L_0		
48 D	17.86	0.000	178.6 89.30 178.6	89.30	V-C 4.3088E+04 -9.400 0.000 1.000 1.000
89.30	0.000	0.000	Strato2_84780_84781_L_0		
49 D	18.24	0.000	182.4 91.20 182.4	91.20	V-C 4.3088E+04 -9.600 0.000 1.000 1.000
91.20	0.000	0.000	Strato2_84780_84781_L_0		
50 D	18.62	0.000	186.2 93.10 186.2	93.10	V-C 4.3088E+04 -9.800 0.000 1.000 1.000
93.10	0.000	0.000	Strato2_84780_84781_L_0		
51 D	19.00	0.000	190.0 95.00 190.0	95.00	V-C 4.3088E+04 -10.00 0.000 1.000 1.000
95.00	0.000	0.000	Strato2_84780_84781_L_0		
52 D	9.690	0.000	193.8 96.90 193.8	96.90	V-C 4.3088E+04 -10.20 0.000 1.000 1.000
96.90	0.000	0.000	Strato2_84780_84781_L_0		

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514          |
|          Exe Time :29 July 2019          19:21:30          |
|                                                                                                                                            |
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 3

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Wallelement_33          :
ELEMENT TYPE          2 NO.OF ELEMENTS. IN THIS GROUP          51
CURRENT TIME IS          1.0000

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WALL2D ELEMENT

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EL      TA      TB      MA      MB
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***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|                                                                                                                                            |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514          |
|          Exe Time :29 July 2019          19:21:30          |
|                                                                                                                                            |
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 4

Tieback_78031

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



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INOR

Lotto
12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1210 di
1221

ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
CURRENT TIME IS 1.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL FORCE d0 EDISPL pl. eps K -ve limit +ve limit

***** NO ONE ELEMENT ACTIVE AT CURRENT STEP *****

ITER 0 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1258E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 19.00 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1258E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 104 NODE 52 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 1 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1258E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 19.00 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1258E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 104 NODE 52 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
RINORM=0.1258E+05 RIMNOR= 0.000
RENORM= 0.000 REMNOR= 0.000 RATIO = 0.000 TOLER =0.1000E-03 CONVERGED !
RFMAX = 19.00 RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT =0.1258E+05 RDR = 0.000
RATIOT= 0.000 RATOR= 0.000
MAX UN= 0.000 IEQ= 104 NODE 52 DOF 2 X-ROT. F
MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS 0

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| PARATIEPLUS(TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| |
| 1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514 |
| Exe Time :29 July 2019 19:21:30 |
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1468.1 - GA27 - Cepav2
SOLUTION REACHED USING 2 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 2 (AT TIME 2.000)

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

Y-DISPL.F X-ROT. F
(02) (04) (

ALL NODAL POINTS HAVE ZERO DISPLACEMENT COMPONENTS

-----+
| PARATIEPLUS(TM) NLS ENGINE RELEASE 2017.1 FULL VERSION *Build date:Jul 11, 2017* |
| |
| 1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514 |
| Exe Time :29 July 2019 19:21:30 |
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 1

O_L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 52
CURRENT TIME IS 2.0000

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Cepav due



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12

Codifica Documento
E E2 CL GA 2701 002

Rev.
A

Foglio
1214 di
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*          |
|                                                                                                                                            |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514                                                                              |
|          Exe Time :29 July 2019          19:21:30                                                                                          |
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1468.1 - GA27 - Cepav2

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_33      :
ELEMENT TYPE      2 NO.OF ELEMENTS. IN THIS GROUP      51
C U R R E N T   T I M E   I S   2.0000

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WALL2D ELEMENT

EL	TA	TB	MA	MB
1	0.0000	0.0000	0.0000	0.0000
2	0.0000	0.0000	0.0000	0.0000
3	0.0000	0.0000	0.0000	0.0000
4	0.0000	0.0000	0.0000	0.0000
5	0.0000	0.0000	0.0000	0.0000
6	0.0000	0.0000	0.0000	0.0000
7	0.0000	0.0000	0.0000	0.0000
8	0.0000	0.0000	0.0000	0.0000
9	0.0000	0.0000	0.0000	0.0000
10	0.0000	0.0000	0.0000	0.0000
11	0.0000	0.0000	0.0000	0.0000
12	0.0000	0.0000	0.0000	0.0000
13	0.0000	0.0000	0.0000	0.0000
14	0.0000	0.0000	0.0000	0.0000
15	0.0000	0.0000	0.0000	0.0000
16	0.0000	0.0000	0.0000	0.0000
17	0.0000	0.0000	0.0000	0.0000
18	0.0000	0.0000	0.0000	0.0000
19	0.0000	0.0000	0.0000	0.0000
20	0.0000	0.0000	0.0000	0.0000
21	0.0000	0.0000	0.0000	0.0000
22	0.0000	0.0000	0.0000	0.0000
23	0.0000	0.0000	0.0000	0.0000
24	0.0000	0.0000	0.0000	0.0000
25	0.0000	0.0000	0.0000	0.0000
26	0.0000	0.0000	0.0000	0.0000
27	0.0000	0.0000	0.0000	0.0000
28	0.0000	0.0000	0.0000	0.0000
29	0.0000	0.0000	0.0000	0.0000
30	0.0000	0.0000	0.0000	0.0000
31	0.0000	0.0000	0.0000	0.0000
32	0.0000	0.0000	0.0000	0.0000
33	0.0000	0.0000	0.0000	0.0000
34	0.0000	0.0000	0.0000	0.0000
35	0.0000	0.0000	0.0000	0.0000
36	0.0000	0.0000	0.0000	0.0000
37	0.0000	0.0000	0.0000	0.0000
38	0.0000	0.0000	0.0000	0.0000
39	0.0000	0.0000	0.0000	0.0000
40	0.0000	0.0000	0.0000	0.0000
41	0.0000	0.0000	0.0000	0.0000
42	0.0000	0.0000	0.0000	0.0000
43	0.0000	0.0000	0.0000	0.0000
44	0.0000	0.0000	0.0000	0.0000
45	0.0000	0.0000	0.0000	0.0000
46	0.0000	0.0000	0.0000	0.0000
47	0.0000	0.0000	0.0000	0.0000
48	0.0000	0.0000	0.0000	0.0000
49	0.0000	0.0000	0.0000	0.0000
50	0.0000	0.0000	0.0000	0.0000
51	0.0000	0.0000	0.0000	0.0000

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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1215 di 1221
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|          PARATIEPLUS (TM)  NLS ENGINE RELEASE 2017.1  FULL VERSION  *Build date:Jul 11, 2017*  |
|                                                                                               |
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514  |
|          Exe Time :29 July 2019  19:21:30  |
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 4

Tieback_78031 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 CURRENT TIME IS 2.0000

POST-TENSION 2D-BOUNDARY ELEMENT

	EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit	
ANCHOR	1	0.0000	0.0000	0.0000	0.0000	64239.	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

ITER 0 RNORM = 0.000 RMNORM= 0.000
 RINORM= 9439. RIMNOR= 0.000
 RENORM= 2973. REMNOR= 0.000 RATIO =0.5612 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 19.98 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT = 9439. RDR = 0.000
 RATIOT=0.5612 RATOR= 0.000
 MAX UN= 11.47 IEQ= 53 NODE 27 DOF 1 Y-DISPL.F
 MIN UN= 0.000 IEQ= 1 NODE 1 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 2 RNORM = 0.000 RMNORM= 0.000
 RINORM= 9439. RIMNOR= 0.000
 RENORM= 512.0 REMNOR=0.1276E-22 RATIO =0.2329 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 19.98 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT = 9439. RDR = 0.000
 RATIOT=0.2329 RATOR= 0.000
 MAX UN= 7.377 IEQ= 55 NODE 28 DOF 1 Y-DISPL.F
 MIN UN=-.4526E-11 IEQ= 91 NODE 46 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 3 RNORM = 0.000 RMNORM= 0.000
 RINORM= 9439. RIMNOR= 0.000
 RENORM= 1282. REMNOR=0.8588E-21 RATIO =0.3686 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 19.98 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT = 9439. RDR = 0.000
 RATIOT=0.3686 RATOR= 0.000
 MAX UN= 27.49 IEQ= 61 NODE 31 DOF 1 Y-DISPL.F
 MIN UN=-.1274E-09 IEQ= 17 NODE 9 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 4 RNORM = 0.000 RMNORM= 0.000
 RINORM= 9439. RIMNOR= 0.000
 RENORM= 411.0 REMNOR=0.2133E-21 RATIO =0.2087 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 19.98 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT = 9439. RDR = 0.000
 RATIOT=0.2087 RATOR= 0.000
 MAX UN= 17.76 IEQ= 67 NODE 34 DOF 1 Y-DISPL.F
 MIN UN=-.9226E-10 IEQ= 45 NODE 23 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 5 RNORM = 0.000 RMNORM= 0.000
 RINORM= 9439. RIMNOR= 0.000
 RENORM= 55.55 REMNOR=0.2522E-21 RATIO =0.7672E-01 TOLER =0.1000E-03 NOT CONVERGED
 RFMAX = 19.98 RMMAX = 0.000
 RTSMAL=0.1000E-03 RMSMAL= 0.000
 RDT = 9439. RDR = 0.000
 RATIOT=0.7672E-01 RATOR= 0.000
 MAX UN= 7.453 IEQ= 71 NODE 36 DOF 1 Y-DISPL.F
 MIN UN=-.9202E-10 IEQ= 27 NODE 14 DOF 1 Y-DISPL.F
 NO. OF CONTACT CONSTRAINT VIOLATIONS 0

ITER 6 RNORM = 0.000 RMNORM= 0.000

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1216 di 1221
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RINORM= 9439.      RIMNOR= 0.000
RENORM= 1.197      REMNOR=0.3651E-21  RATIO =0.1126E-01  TOLER =0.1000E-03  NOT CONVERGED
RFMAX = 19.98      RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT = 9439.      RDR = 0.000
RATIOT=0.1126E-01 RATOR= 0.000
MAX UN= 1.094      IEQ= 73 NODE      37 DOF      1 Y-DISPL.F
MIN UN=-.1149E-09 IEQ= 33 NODE      17 DOF      1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0
    
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ITER      7 RNORM = 0.000      RMNORM= 0.000
RINORM= 9439.      RIMNOR= 0.000
RENORM=0.4318E-19 REMNOR=0.1869E-21  RATIO =0.2139E-11  TOLER =0.1000E-03      CONVERGED !
RFMAX = 19.98      RMMAX = 0.000
RTSMAL=0.1000E-03 RMSMAL= 0.000
RDT = 9439.      RDR = 0.000
RATIOT=0.2139E-11 RATOR= 0.000
MAX UN=0.7327E-10 IEQ= 29 NODE      15 DOF      1 Y-DISPL.F
MIN UN=-.8316E-10 IEQ= 49 NODE      25 DOF      1 Y-DISPL.F
NO. OF CONTACT CONSTRAINT VIOLATIONS      0
    
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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      19:21:30
|
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1468.1 - GA27 - Cepav2
SOLUTION REACHED USING 7 ITERATIONS ON 100

PRINT OUT FOR TIME STEP 3 (AT TIME 3.000)

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

	Y-DISPL.F (02)	X-ROT. F (04)	(
1	2.6552239E-03	1.6243190E-02	
2	5.9038619E-03	1.6243190E-02	
3	9.1463047E-03	1.6150262E-02	
4	1.2351661E-02	1.5872746E-02	
5	1.5483310E-02	1.5413828E-02	
6	1.8505399E-02	1.4778016E-02	
7	2.1383114E-02	1.3971178E-02	
8	2.4082953E-02	1.3000583E-02	
9	2.6573010E-02	1.1874931E-02	
10	2.8823301E-02	1.0604905E-02	
11	3.0806226E-02	9.2036771E-03	
12	3.2497057E-02	7.6867364E-03	
13	3.3874382E-02	6.0717234E-03	
14	3.4920520E-02	4.3783046E-03	
15	3.5621916E-02	2.6280682E-03	
16	3.5969521E-02	8.4444406E-04	
17	3.5959147E-02	-9.4737565E-04	
18	3.5591806E-02	-2.7206686E-03	
19	3.4873969E-02	-4.4476258E-03	
20	3.3817766E-02	-6.0994250E-03	
21	3.2441206E-02	-7.6462141E-03	
22	3.0768346E-02	-9.0571262E-03	
23	2.8829544E-02	-1.0300219E-02	
24	2.6661646E-02	-1.1342494E-02	
25	2.4308206E-02	-1.2149875E-02	
26	2.1819700E-02	-1.2687201E-02	
27	1.9253759E-02	-1.2918213E-02	
28	1.6675339E-02	-1.2805548E-02	
29	1.4154441E-02	-1.2349365E-02	
30	1.1755585E-02	-1.1593308E-02	
31	9.5334798E-03	-1.0591827E-02	
32	7.5308748E-03	-9.4101817E-03	
33	5.7765118E-03	-8.1221183E-03	
34	4.2844130E-03	-6.7982729E-03	
35	3.0556460E-03	-5.4977784E-03	
36	2.0804380E-03	-4.2702375E-03	
37	1.3398895E-03	-3.1576706E-03	
38	8.0729163E-04	-2.1963344E-03	
39	4.4978198E-04	-1.4086052E-03	
40	2.3218627E-04	-7.9582532E-04	
41	1.2072001E-04	-3.4402305E-04	
42	8.5351405E-05	-3.0605432E-05	
43	1.0100292E-04	1.7068837E-04	
44	1.4791708E-04	2.8633709E-04	
45	2.1145902E-04	3.4080982E-04	

GENERAL CONTRACTOR



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Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1217 di 1221
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46	2.8157368E-04	3.5527734E-04
47	3.5205323E-04	3.4699386E-04
48	4.1973217E-04	3.2912450E-04
49	4.8367441E-04	3.1082587E-04
50	5.4439041E-04	2.9745014E-04
51	6.0309997E-04	2.9076151E-04
52	6.6103101E-04	2.8909125E-04

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|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
|
|          1468.1-GA27-Cepav2.BaseDesignSection 28.A2M2R1_3514
|          Exe Time :29 July 2019      19:21:30
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1468.1 - GA27 - Cepav2

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

O _ L :
ELEMENT TYPE 5 NO.OF ELEMENTS. IN THIS GROUP 52
C U R R E N T T I M E I S 3.0000

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 FACTOR	UFACTOR
Peq	Su_a	Su_p	LAYER									
1 D	0.000	-2.6552E-03	0.000	0.000	0.000	0.000	PASSIVE	0.000	0.000	0.000	1.000	1.000
0.000	0.000	0.000	Strato1_3095_78023_L_0									
2 D	0.2986	-5.9039E-03	3.808	1.493	3.808	1.904	ACTIVE	0.000	-0.2000	0.000	1.000	1.000
1.493	0.000	0.000	Strato1_3095_78023_L_0									
3 D	0.6009	-9.1463E-03	7.664	3.004	7.664	3.832	ACTIVE	0.000	-0.4000	0.000	1.000	1.000
3.004	0.000	0.000	Strato1_3095_78023_L_0									
4 D	0.9100	-1.2352E-02	11.61	4.550	11.61	5.803	ACTIVE	0.000	-0.6000	0.000	1.000	1.000
4.550	0.000	0.000	Strato1_3095_78023_L_0									
5 D	1.228	-1.5483E-02	15.66	6.139	15.66	7.831	ACTIVE	0.000	-0.8000	0.000	1.000	1.000
6.139	0.000	0.000	Strato1_3095_78023_L_0									
6 D	1.555	-1.8505E-02	19.84	7.775	19.84	9.918	ACTIVE	0.000	-1.000	0.000	1.000	1.000
7.775	0.000	0.000	Strato1_3095_78023_L_0									
7 D	1.891	-2.1383E-02	24.12	9.456	24.12	12.06	ACTIVE	0.000	-1.200	0.000	1.000	1.000
9.456	0.000	0.000	Strato1_3095_78023_L_0									
8 D	2.235	-2.4083E-02	28.51	11.17	28.51	14.25	ACTIVE	0.000	-1.400	0.000	1.000	1.000
11.17	0.000	0.000	Strato1_3095_78023_L_0									
9 D	2.831	-2.6573E-02	36.11	14.15	36.11	18.05	ACTIVE	0.000	-1.600	0.000	1.000	1.000
14.15	0.000	0.000	Strato1_3095_78023_L_0									
10 D	3.415	-2.8823E-02	43.56	17.08	43.56	21.78	ACTIVE	0.000	-1.800	0.000	1.000	1.000
17.08	0.000	0.000	Strato1_3095_78023_L_0									
11 D	3.930	-3.0806E-02	50.13	19.65	50.13	25.07	ACTIVE	0.000	-2.000	0.000	1.000	1.000
19.65	0.000	0.000	Strato1_3095_78023_L_0									
12 D	4.435	-3.2497E-02	56.56	22.17	56.56	28.28	ACTIVE	0.000	-2.200	0.000	1.000	1.000
22.17	0.000	0.000	Strato1_3095_78023_L_0									
13 D	4.891	-3.3874E-02	62.39	24.46	62.39	31.19	ACTIVE	0.000	-2.400	0.000	1.000	1.000
24.46	0.000	0.000	Strato1_3095_78023_L_0									
14 D	5.346	-3.4921E-02	68.18	26.73	68.18	34.09	ACTIVE	0.000	-2.600	0.000	1.000	1.000
26.73	0.000	0.000	Strato1_3095_78023_L_0									
15 D	5.765	-3.5622E-02	73.53	28.82	73.53	36.76	ACTIVE	0.000	-2.800	0.000	1.000	1.000
28.82	0.000	0.000	Strato1_3095_78023_L_0									
16 D	6.186	-3.5970E-02	78.90	30.93	78.90	39.45	ACTIVE	0.000	-3.000	0.000	1.000	1.000
30.93	0.000	0.000	Strato1_3095_78023_L_0									
17 D	6.478	-3.5959E-02	82.62	32.39	82.62	41.31	ACTIVE	0.000	-3.200	0.000	1.000	1.000
32.39	0.000	0.000	Strato1_3095_78023_L_0									
18 D	6.714	-3.5592E-02	85.63	33.57	85.63	42.82	ACTIVE	0.000	-3.400	0.000	1.000	1.000
33.57	0.000	0.000	Strato1_3095_78023_L_0									
19 D	6.954	-3.4874E-02	88.70	34.77	88.70	44.35	ACTIVE	0.000	-3.600	0.000	1.000	1.000
34.77	0.000	0.000	Strato1_3095_78023_L_0									
20 D	7.198	-3.3818E-02	91.81	35.99	91.81	45.91	ACTIVE	0.000	-3.800	0.000	1.000	1.000
35.99	0.000	0.000	Strato1_3095_78023_L_0									
21 D	7.446	-3.2441E-02	94.98	37.23	94.98	47.49	ACTIVE	0.000	-4.000	0.000	1.000	1.000
37.23	0.000	0.000	Strato1_3095_78023_L_0									
22 D	7.697	-3.0768E-02	98.18	38.49	98.18	49.09	ACTIVE	0.000	-4.200	0.000	1.000	1.000
38.49	0.000	0.000	Strato1_3095_78023_L_0									
23 D	7.951	-2.8830E-02	101.4	39.75	101.4	50.71	ACTIVE	0.000	-4.400	0.000	1.000	1.000
39.75	0.000	0.000	Strato1_3095_78023_L_0									
24 D	8.207	-2.6662E-02	104.7	41.04	104.7	52.34	ACTIVE	0.000	-4.600	0.000	1.000	1.000
41.04	0.000	0.000	Strato1_3095_78023_L_0									
25 D	8.466	-2.4308E-02	108.0	42.33	108.0	53.99	ACTIVE	0.000	-4.800	0.000	1.000	1.000
42.33	0.000	0.000	Strato1_3095_78023_L_0									
26 D	8.727	-2.1820E-02	111.3	43.64	111.3	55.66	ACTIVE	0.000	-5.000	0.000	1.000	1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



GRUPPO FERROVIE DELLO STATO ITALIANE

Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1219 di 1221
5	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
6	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
7	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
8	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
9	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
10	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
11	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
12	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
13	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
14	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
15	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
16	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
17	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
18	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
19	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
20	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
21	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
22	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
23	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
24	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
25	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
26	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
27	0.000	--	--	--	1.000
0.000	0.000	0.000	not available		1.000
28 D	12.93	1.6675E-02	0.9500 64.65 102.6	64.65	PASSIVE 0.000 -5.400 0.000 1.000 1.000
64.65	0.000	0.000	Strato2_84780_84781_L_0		
29 D	15.71	1.4154E-02	4.750 78.54 106.4	78.54	PASSIVE 0.000 -5.600 0.000 1.000 1.000
78.54	0.000	0.000	Strato2_84780_84781_L_0		
30 D	18.49	1.1756E-02	8.550 92.43 110.2	92.43	PASSIVE 0.000 -5.800 0.000 1.000 1.000
92.43	0.000	0.000	Strato2_84780_84781_L_0		
31 D	21.26	9.5335E-03	12.35 106.3 114.0	106.3	PASSIVE 0.000 -6.000 0.000 1.000 1.000
106.3	0.000	0.000	Strato2_84780_84781_L_0		
32 D	22.96	7.5309E-03	16.15 114.8 117.8	114.8	V-C 9062. -6.200 0.000 1.000 1.000
114.8	0.000	0.000	Strato2_84780_84781_L_0		
33 D	20.22	5.7765E-03	19.95 101.1 121.6	101.1	V-C 9062. -6.400 0.000 1.000 1.000
101.1	0.000	0.000	Strato2_84780_84781_L_0		
34 D	17.94	4.2844E-03	23.75 89.72 125.4	89.72	V-C 9062. -6.600 0.000 1.000 1.000
89.72	0.000	0.000	Strato2_84780_84781_L_0		
35 D	16.14	3.0556E-03	27.55 80.70 129.2	80.70	V-C 9062. -6.800 0.000 1.000 1.000
80.70	0.000	0.000	Strato2_84780_84781_L_0		
36 D	14.79	2.0804E-03	31.35 73.95 133.0	73.95	V-C 9062. -7.000 0.000 1.000 1.000
73.95	0.000	0.000	Strato2_84780_84781_L_0		
37 D	13.86	1.3399E-03	35.15 69.30 136.8	69.30	V-C 9062. -7.200 0.000 1.000 1.000
69.30	0.000	0.000	Strato2_84780_84781_L_0		
38 D	11.79	8.0729E-04	38.95 58.95 140.6	70.30	UL-RL 2.7185E+04 -7.400 0.000 1.000 1.000
58.95	0.000	0.000	Strato2_84780_84781_L_0		
39 D	10.30	4.4978E-04	42.75 51.51 144.4	72.20	UL-RL 2.7185E+04 -7.600 0.000 1.000 1.000
51.51	0.000	0.000	Strato2_84780_84781_L_0		
40 D	9.568	2.3219E-04	46.55 47.84 148.2	74.10	UL-RL 2.7185E+04 -7.800 0.000 1.000 1.000
47.84	0.000	0.000	Strato2_84780_84781_L_0		
41 D	9.405	1.2072E-04	50.35 47.02 152.0	76.00	UL-RL 2.7185E+04 -8.000 0.000 1.000 1.000
47.02	0.000	0.000	Strato2_84780_84781_L_0		
42 D	9.649	8.5351E-05	54.15 48.25 155.8	77.90	UL-RL 2.7185E+04 -8.200 0.000 1.000 1.000
48.25	0.000	0.000	Strato2_84780_84781_L_0		
43 D	10.17	1.0100E-04	57.95 50.83 159.6	79.80	UL-RL 2.7185E+04 -8.400 0.000 1.000 1.000
50.83	0.000	0.000	Strato2_84780_84781_L_0		
44 D	10.85	1.4792E-04	61.75 54.25 163.4	81.70	UL-RL 2.7185E+04 -8.600 0.000 1.000 1.000
54.25	0.000	0.000	Strato2_84780_84781_L_0		
45 D	11.62	2.1146E-04	65.55 58.09 167.2	83.60	UL-RL 2.7185E+04 -8.800 0.000 1.000 1.000
58.09	0.000	0.000	Strato2_84780_84781_L_0		
46 D	12.42	2.8157E-04	69.35 62.10 171.0	85.50	UL-RL 2.7185E+04 -9.000 0.000 1.000 1.000
62.10	0.000	0.000	Strato2_84780_84781_L_0		
47 D	13.22	3.5205E-04	73.15 66.11 174.8	87.40	UL-RL 2.7185E+04 -9.200 0.000 1.000 1.000

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1220 di 1221
66.11	0.000	0.000	Strato2_84780_84781_L_0		
48 D	14.01	4.1973E-04	76.95 70.03 178.6	89.30	UL-RL 2.7185E+04 -9.400 0.000 1.000 1.000
70.03	0.000	0.000	Strato2_84780_84781_L_0		
49 D	14.77	4.8367E-04	80.75 73.83 182.4	91.20	UL-RL 2.7185E+04 -9.600 0.000 1.000 1.000
73.83	0.000	0.000	Strato2_84780_84781_L_0		
50 D	15.51	5.4439E-04	84.55 77.54 186.2	93.10	UL-RL 2.7185E+04 -9.800 0.000 1.000 1.000
77.54	0.000	0.000	Strato2_84780_84781_L_0		
51 D	16.24	6.0310E-04	88.35 81.18 190.0	95.00	UL-RL 2.7185E+04 -10.00 0.000 1.000 1.000
81.18	0.000	0.000	Strato2_84780_84781_L_0		
52 D	8.479	6.6103E-04	92.15 84.79 193.8	96.90	UL-RL 2.7185E+04 -10.20 0.000 1.000 1.000
84.79	0.000	0.000	Strato2_84780_84781_L_0		

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|
|          PARATIEPLUS(TM)  NLS ENGINE RELEASE  2017.1  FULL VERSION  *Build date:Jul 11, 2017*
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|
|          1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514
|          Exe Time :29 July 2019      19:21:30
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1468.1 - GA27 - Cepav2

STRESS RESULTS FOR GROUP NO. 3

WallElement_33 :
ELEMENT TYPE 2 NO.OF ELEMENTS. IN THIS GROUP 51
CURRENT TIME IS 3.0000

WALL2D ELEMENT

EL	TA	TB	MA	MB
1	3.37508E-13	-3.37508E-13	2.89768E-14	1.56986E-13
2	-44.066	44.066	-8.74856E-14	-8.8132
3	-43.465	43.465	8.8132	-17.506
4	-42.555	42.555	17.506	-26.017
5	-41.328	41.328	26.017	-34.283
6	-39.772	39.772	34.283	-42.237
7	-37.881	37.881	42.237	-49.814
8	-35.646	35.646	49.814	-56.943
9	-32.816	32.816	56.943	-63.506
10	-29.400	29.400	63.506	-69.386
11	-25.470	25.470	69.386	-74.480
12	-21.036	21.036	74.480	-78.687
13	-16.144	16.144	78.687	-81.916
14	-10.799	10.799	81.916	-84.076
15	-5.0339	5.0339	84.076	-85.083
16	1.1518	-1.1518	85.083	-84.852
17	7.6293	-7.6293	84.852	-83.326
18	14.343	-14.343	83.326	-80.458
19	21.297	-21.297	80.458	-76.198
20	28.495	-28.495	76.198	-70.499
21	35.941	-35.941	70.499	-63.311
22	43.638	-43.638	63.311	-54.583
23	51.589	-51.589	54.583	-44.266
24	59.797	-59.797	44.266	-32.306
25	68.263	-68.263	32.306	-18.654
26	76.991	-76.991	18.654	-3.2556
27	85.981	-85.981	3.2556	13.941
28	76.915	-76.915	-13.941	29.324
29	65.285	-65.285	-29.324	42.381
30	51.094	-51.094	-42.381	52.599
31	34.343	-34.343	-52.599	59.468
32	16.118	-16.118	-59.468	62.692
33	0.85019	-0.85019	-62.692	62.862
34	-11.923	11.923	-62.862	60.477
35	-22.671	22.671	-60.477	55.943
36	-31.847	31.847	-55.943	49.573
37	-39.870	39.870	-49.573	41.599
38	-42.455	42.455	-41.599	33.109
39	-40.506	40.506	-33.109	25.007
40	-35.829	35.829	-25.007	17.841
41	-29.793	29.793	-17.841	11.883
42	-23.376	23.376	-11.883	7.2077
43	-17.236	17.236	-7.2077	3.7604
44	-11.773	11.773	-3.7604	1.4058
45	-7.1975	7.1975	-1.4058	-3.37039E-02
46	-3.5910	3.5910	3.37039E-02	-0.75190
47	-0.95463	0.95463	0.75190	-0.94283
48	0.75107	-0.75107	0.94283	-0.79261
49	1.5833	-1.5833	0.79261	-0.47594
50	1.5877	-1.5877	0.47594	-0.15840

GENERAL CONTRACTOR



ALTA SORVEGLIANZA



Doc. N.	Progetto INOR	Lotto 12	Codifica Documento E E2 CL GA 2701 002	Rev. A	Foglio 1221 di 1221
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51 0.79200 -0.79200 0.15840 1.08746E-13

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|               PARATIEPLUS(TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                                       |
|               1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514 |
|               Exe Time :29 July 2019   19:21:30 |
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1468.1 - GA27 - Cepav2

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

Tieback_78031 :
 ELEMENT TYPE 6 NO.OF ELEMENTS. IN THIS GROUP 1
 C U R R E N T T I M E I S 3.0000

POST-TENSION 2D-BOUNDARY ELEMENT

EL	FORCE	d0	EDISPL	pl. eps	K	-ve limit	+ve limit		
ANCHOR	1	129.71	0.0000	2.01924E-03	0.0000	64239.	0.0000	0.0000	ELASTIC ORIGINAL YOUNG MODULUS

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|               PARATIEPLUS(TM)   NLS ENGINE RELEASE 2017.1   FULL VERSION *Build date:Jul 11, 2017* |
|                                                                                                       |
|               1468.1-GA27-Cepav2.BaseDesignSection_28.A2M2R1_3514 |
|               Exe Time :29 July 2019   19:21:30 |
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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 2
2	CONVERGENCE :YES 2
3	CONVERGENCE :YES 7

END OF PROCESS FOR PROBLEM

1468.1 - GA27 - Cepav2
 NONLINEAR SOLUTION CPU TIME 0.03 [sec]
 DATABASE CREATION CPU TIME..... 0.14 [sec]