# STAAD INPUT

STAAD SPACE
START JOB INFORMATION
ENGINEER DATE 17-Jul-23
END JOB INFORMATION
INPUT WIDTH 79
UNIT METER KN
JOINT COORDINATES
1 0 0 0; 2 2.76 0 0; 3 0 0 3.36; 4 2.76 0 3.36; 5 0 -2.275 0; 6 2.76 -2.275 0;
7 0 -2.275 3.36; 8 2.76 -2.275 3.36; 9 0 3.75 0; 10 2.76 3.75 0;
11 0 3.75 3.36; 12 2.76 3.75 3.36; 13 0 7.5 0; 14 2.76 7.5 0; 15 0 7.5 3.36;
16 2.76 7.5 3.36; 17 0 11.25 0; 18 2.76 11.25 0; 19 0 11.25 3.36;
20 2.76 11.25 3.36; 21 0 15 0; 22 2.76 15 0; 23 0 15 3.36; 24 2.76 15 3.36;
25 0 18.75 0; 26 2.76 18.75 0; 27 0 18.75 3.36; 28 2.76 18.75 3.36;
29 0 22.5 0; 30 2.76 22.5 0; 31 0 22.5 3.36; 32 2.76 22.5 3.36; 33 0 26.25 0;
34 2.76 26.25 0; 35 0 26.25 3.36; 36 2.76 26.25 3.36; 37 0 30 0; 38 2.76 30 0;
39 0 30 3.36; 40 2.76 30 3.36; 41 0 33.75 0; 42 2.76 33.75 0; 43 0 33.75 3.36;
44 2.76 33.75 3.36; 49 0 3.75 -1; 50 2.76 3.75 -1; 51 0 7.5 -1; 52 2.76 7.5 -1;
53 0 11.25 -1; 54 2.76 11.25 -1; 55 0 15 -1; 56 2.76 15 -1; 57 0 18.75 -1;
58 2.76 18.75 -1; 59 0 22.5 -1; 60 2.76 22.5 -1; 61 0 26.25 -1;
62 2.76 26.25 -1; 63 0 30 -1; 64 2.76 30 -1; 65 0 34.95 0; 66 2.76 34.95 0;
67 0 34.95 3.36; 68 2.76 34.95 3.36; 69 2.76 37.5 3.36; 70 2.76 37.5 0;
71 0 37.5 0; 72 0 37.5 3.36; 73 0 33.75 -1; 74 2.76 33.75 -1; 75 0 34.95 2.24;
76 0 34.95 1.12; 77 2.76 34.95 1.12; 78 2.76 34.95 2.24; 79 0 37.5 -1;
80 2.76 37.5 -1; 81 0 37.5 2.24; 82 0 37.5 1.12; 83 2.76 37.5 1.12;
84 2.76 37.5 2.24; 85 0 3.463 0; 86 2.76 3.463 0; 87 0 3.463 3.36;
88 2.76 3.463 3.36; 89 0.287 3.75 0; 90 0.287 3.75 3.36; 91 2.473 3.75 0;
92 2.473 3.75 3.36; 93 0 3.75 3.073; 94 2.76 3.75 3.073; 95 0 3.75 0.287;
96 2.76 3.75 0.287; 97 2.473 7.5 0; 98 0 7.213 0; 99 0 7.5 0.287;
100 0 7.213 3.36; 101 0.287 7.5 3.36; 102 0 7.5 3.073; 103 0.287 7.5 0;
104 2.76 7.213 0; 105 2.76 7.5 0.287; 106 2.76 7.213 3.36; 107 2.76 7.5 3.073;
108 2.473 7.5 3.36;
MEMBER INCIDENCES
1 5 1; 2 1 85; 3 6 2; 4 2 86; 5 7 3; 6 3 87; 7 8 4; 8 4 88; 9 1 2; 10 3 1;
11 4 2; 12 3 4; 13 9 89; 14 11 93; 15 12 94; 16 11 90; 17 9 98; 18 10 104;
19 11 100; 20 12 106; 21 13 103; 22 15 102; 23 16 107; 24 15 101; 25 13 17;
26 14 18; 27 15 19; 28 16 20; 29 17 18; 30 19 17; 31 20 18; 32 19 20; 33 17 21;
34 18 22; 35 19 23; 36 20 24; 37 21 22; 38 23 21; 39 24 22; 40 23 24; 41 21 25;
42 22 26; 43 23 27; 44 24 28; 45 25 26; 46 27 25; 47 28 26; 48 27 28; 49 25 29;
50 26 30; 51 27 31; 52 28 32; 53 29 30; 54 31 29; 55 32 30; 56 31 32; 57 29 33;
58 30 34; 59 31 35; 60 32 36; 61 33 34; 62 35 33; 63 36 34; 64 35 36; 65 33 37;
66 34 38; 67 35 39; 68 36 40; 69 37 38; 70 39 37; 71 40 38; 72 39 40; 73 37 41;
74 38 42; 75 39 43; 76 40 44; 77 41 42; 78 43 41; 79 44 42; 80 43 44; 89 9 49;
90 10 50; 91 49 50; 92 13 51; 93 14 52; 94 51 52; 95 17 53; 96 18 54; 97 53 54;

98 21 55; 99 22 56; 100 55 56; 101 25 57; 102 26 58; 103 57 58; 104 29 59;
105 30 60; 106 59 60; 107 33 61; 108 34 62; 109 61 62; 110 37 63; 111 38 64;
112 63 64; 113 41 65; 114 43 67; 115 44 68; 116 42 66; 117 68 78; 118 65 66;
119 67 68; 120 67 75; 121 69 84; 122 71 70; 123 72 69; 124 72 81; 125 65 71;
126 68 69; 127 66 70; 128 67 72; 129 41 73; 130 42 74; 131 73 74; 132 75 76;
133 76 65; 134 77 66; 135 76 77; 136 78 77; 137 75 78; 138 71 79; 139 70 80;
140 79 80; 141 81 82; 142 82 71; 143 83 70; 144 82 83; 145 84 83; 146 81 84;
147 85 9; 148 86 10; 149 87 11; 150 88 12; 151 89 91; 152 90 92; 153 91 10;
154 92 12; 155 93 95; 156 94 96; 157 95 9; 158 96 10; 159 85 95; 160 87 90;
161 87 93; 162 85 89; 163 86 91; 164 86 96; 165 88 94; 166 88 92; 167 97 14;
169 98 13; 170 99 13; 171 98 99; 172 100 15; 173 101 108; 174 100 101;
175 102 99; 176 100 102; 177 103 97; 178 98 103; 179 104 14; 180 104 97;
181 105 14; 182 104 105; 183 106 16; 184 107 105; 185 106 107; 186 108 16;
187 106 108;
DEFINE MATERIAL START
ISOTROPIC CONCRETE
E 2.17185e+07
POISSON 0.17
DENSITY 23.5616
ALPHA 1e-05
DAMP 0.05
TYPE CONCRETE
STRENGTH FCU 27579
ISOTROPIC STEEL
E 2.05e+08
POISSON 0.3
DENSITY 76.8195
ALPHA 1.2e-05
DAMP 0.03
TYPE STEEL
STRENGTH FY 253200 FU 407800 RY 1.5 RT 1.2
END DEFINE MATERIAL
MEMBER PROPERTY AMERICAN
1 3 5 7 PRIS YD 0.6 ZD 0.6
9 TO 12 PRIS YD 0.45 ZD 0.23
MEMBER PROPERTY TATASTRUCTURA
2 4 6 8 17 TO 20 25 TO 28 33 TO 36 41 TO 44 49 TO 52 57 TO 60 65 TO 68 73 -
74 TO 76 113 TO 116 125 TO 128 147 TO 150 169 172 179 -
183 TABLE ST 220X220X10.0SHS
13 TO 16 21 TO 24 29 TO 32 37 TO 40 45 TO 48 53 TO 56 61 TO 64 69 TO 72 77 -
78 TO 80 89 TO 112 117 TO 124 129 TO 146 151 TO 158 167 170 173 175 177 181 -
184 186 TABLE ST 240X120X8.0RHS
159 TO 166 171 174 176 178 180 182 185 187 TABLE ST 240X120X8.0RHS
CONSTANTS
MATERIAL CONCRETE MEMB 1 3 5 7 9 TO 12
MATERIAL STEEL MEMB 2 4 6 8 13 TO 80 89 TO 167 169 TO 187

SUPPORTS
5 TO 8 FIXED
**********
**********
**********
*
**********
*------AS PER IS:1893-2016-----
*  SEISMIC ZONE    (hyderabad)   ZONE=II AS PER IS:1893-2016
*  ZONE FACTOR                   Z=0.10
*  RESPONCE REDUCTION FACTOR      R =3
*  IMPORTANCE FACTOR              I =1.5
*  ROC/SOIL SITES FACTOR          SS=2(1 FOR ROCX,2 FOR MEDIUM 3 FOR soft soils )
*  OPTIONAL VALUE FOR TYPE OF STRU ST=1(1 FOR R.C.C,2 FOR STEEL )
**********
*DEFINE 1893 LOAD
*ZONE 0.1 RF 3 I 1.5 SS 2 ST 1 DM 0.05 PX 2.03 PZ 1.84
**********
**********
*LOAD 1 SEISMIC IN X-DIRECTION
*1893 LOAD X 1
*LOAD 2 SEISMIC IN -X-DIRECTION
*1893 LOAD X -1
*LOAD 3 SEISMIC IN Z-DIRECTION
*1893 LOAD Z 1
*LOAD 4 SEISMIC IN -Z-DIRECTION
*1893 LOAD Z -1
**********
**********
*LOAD 7 WL+X
*WIND LOAD X 1 TYPE 1
*LOAD 8 WL-X
*WIND LOAD X -1 TYPE 1
*LOAD 9 WL+Z
*WIND LOAD Z 1 TYPE 1
*LOAD 10 WL-Z
*WIND LOAD Z -1 TYPE 1
**********
**********
*WIND LOAD CALCULATIONS
**********
*BASIC WIND SPEED (Vb)=44M/SEC
*RISK COEFFICIENT-k1-1.00
*TERRAIN,HEIGHT AND STRUCTURE SIZE FACTOR - K2 FOR 10mt=1,FOR 15mt=1.05,FOR 20mt=1.07,FOR 30mt=1.12 FOR 50mt=1.17 (CATEGORY-2& CLASS-B)and
*TOPOGRAPHY FACTOR-K3-1.0

```
* DESIGN WIND SPEED VZ=(Vb*K1*K2*K3)
*FOR 10mt VZ=44*1*1*1=44
*FOR 15mt VZ=44*1*1.05*1=46.2
*FOR 20mt VZ=44*1*1.07*1=47.08
*FOR 30mt VZ=44*1*1.12*1=49.28
*FOR 50mt VZ=44*1*1.17*1=51.48
*DESIGN WIND PRESSURE up to 10mts=PZ=0.6(VZ)?
*=0.6(43.12)?/1000=1.16 KN/M?
* up to 15 mts PZ = 0.6(46.2)^2/1000=1.28 KN/M^2
* up to 20 mts PZ = 0.6(47.08)^2/1000=1.32 KN/M^2
* up to 30 mts PZ = 0.6(49.28)^2/1000=1.45 KN/M^2
* up to 50 mts PZ = 0.6(51.48)^2/1000=1.59 KN/M^2
************************************************
*DEFINE WIND LOAD
*TYPE 1
*INT 0 1.59 HEIG  2  37.5
************************************************
LOAD 1 LOADTYPE Dead  TITLE DL
SELFWEIGHT Y -1
FLOOR LOAD
YRANGE 3.75 3.75 FLOAD -4.125 XRANGE 0 2.76  ZRANGE -1 0  GY
YRANGE 7.5 7.5 FLOAD -4.125 XRANGE 0 2.76  ZRANGE -1 0  GY
YRANGE 11.25 11.25 FLOAD -4.125 XRANGE 0 2.76  ZRANGE -1 0  GY
YRANGE 15 15 FLOAD -4.125 XRANGE 0 2.76  ZRANGE -1 0  GY
YRANGE 18.75 18.75 FLOAD -4.125 XRANGE 0 2.76  ZRANGE -1 0  GY
YRANGE 22.5 22.5 FLOAD -4.125 XRANGE 0 2.76  ZRANGE -1 0  GY
YRANGE 26.25 26.25 FLOAD -4.125 XRANGE 0 2.76  ZRANGE -1 0  GY
YRANGE 30 30 FLOAD -4.125 XRANGE 0 2.76  ZRANGE -1 0  GY
YRANGE 33.75 33.75 FLOAD -4.125 XRANGE 0 2.76  ZRANGE -1 0  GY
YRANGE 34.95 34.95 FLOAD -14.25 XRANGE 0 2.76  ZRANGE 0 3.36  GY
YRANGE 37.5 37.5 FLOAD -4.125 XRANGE 0 2.76  ZRANGE -1 3.36  GY
************************************************************
LOAD 2 LOADTYPE Live REDUCIBLE TITLE LL
FLOOR LOAD
YRANGE 3.75 3.75 FLOAD -2 XRANGE 0 2.76  ZRANGE -1 0  GY
YRANGE 7.5 7.5 FLOAD -2 XRANGE 0 2.76  ZRANGE -1 0  GY
YRANGE 11.25 11.25 FLOAD -2 XRANGE 0 2.76  ZRANGE -1 0  GY
YRANGE 15 15 FLOAD -2 XRANGE 0 2.76  ZRANGE -1 0  GY
YRANGE 18.75 18.75 FLOAD -2 XRANGE 0 2.76  ZRANGE -1 0  GY
YRANGE 22.5 22.5 FLOAD -2 XRANGE 0 2.76  ZRANGE -1 0  GY
YRANGE 26.25 26.25 FLOAD -2 XRANGE 0 2.76  ZRANGE -1 0  GY
YRANGE 30 30 FLOAD -2 XRANGE 0 2.76  ZRANGE -1 0  GY
YRANGE 33.75 33.75 FLOAD -2 XRANGE 0 2.76  ZRANGE -1 0  GY
YRANGE 34.95 34.95 FLOAD -2 XRANGE 0 2.76  ZRANGE 0 3.36  GY
YRANGE 37.5 37.5 FLOAD -2 XRANGE 0 2.76  ZRANGE -1 3.36  GY
************************************************************
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```
LOAD 3 WL+X
MEMBER LOAD
2 6 17 19 25 27 33 35 41 43 49 51 57 59 65 67 73 75 113 114 125 128 147 149 -
169 172 UNI GX 2.67
LOAD 4 WL-X
MEMBER LOAD
4 8 18 20 26 28 34 36 42 44 50 52 58 60 66 68 74 76 115 116 126 127 148 150 -
179 183 UNI GX -2.67
LOAD 5 WL+Z
MEMBER LOAD
2 4 17 18 25 26 33 34 41 42 49 50 57 58 65 66 73 74 113 116 125 127 147 148 -
169 179 UNI GZ 0.01
*********************************************
LOAD 6 WL-Z
MEMBER LOAD
6 8 19 20 27 28 35 36 43 44 51 52 59 60 67 68 75 76 114 115 126 128 149 150 -
172 183 UNI GZ -2.19
*********************************************
LOAD COMB 7 1.0(DL)+1.0(LL)
1 1.0 2 1.0
LOAD COMB 8 1.0(DL)+1.0(WL+X)
1 1.0 3 1.0
LOAD COMB 9 1.0(DL)+1.0(WL-X)
1 1.0 4 1.0
LOAD COMB 10 1.0(DL)+1.0(WL+Z)
1 1.0 5 1.0
LOAD COMB 11 1.0(DL)+1.0(WL-Z)
1 1.0 6 1.0
LOAD COMB 12 1.0(DL)+0.8(LL)+0.8(WL+X)
1 1.0 2 0.8 3 0.8
LOAD COMB 13 1.0(DL)+0.8(LL)+0.8(WL-X)
1 1.0 2 0.8 4 0.8
LOAD COMB 14 1.0(DL)+0.8(LL)+0.8(WL+Z)
1 1.0 2 0.8 5 0.8
LOAD COMB 15 1.0(DL)+0.8(LL)+0.8(WL-Z)
1 1.0 2 0.8 6 0.8
LOAD COMB 16 1.5(DL)+1.5(LL)
1 1.5 2 1.5
PERFORM ANALYSIS
LOAD LIST 7 TO 15
PRINT ANALYSIS RESULTS
PRINT SUPPORT REACTION
PARAMETER 1
CODE IS800 LSD
FYLD 310000 MEMB 2 4 6 8 13 TO 80 89 TO 158 167 169 170 172 173 175 177 179 -
181 183 184 186
```

```
MAIN 180 MEMB 2 4 6 8 13 TO 80 89 TO 158 167 169 170 172 173 175 177 179 181 -
183 184 186
CHECK CODE MEMB 2 4 6 8 13 TO 80 89 TO 158 167 169 170 172 173 175 177 179 -
181 183 184 186
STEEL MEMBER TAKE OFF LIST 2 4 6 8 13 TO 80 89 TO 158 167 169 170 172 173 -
175 177 179 181 183 184 186
LOAD LIST 16
START CONCRETE DESIGN
CODE INDIAN
FC 25000 MEMB 1 3 5 7
FYMAIN 500000 MEMB 1 3 5 7
FYSEC 500000 MEMB 1 3 5 7
DESIGN COLUMN 1 3 5 7
END CONCRETE DESIGN
PERFORM ANALYSIS
FINISH
```

# STAAD OUTPUT



```
 **************************************************
 *                                                *
 *        STAAD.Pro CONNECT Edition               *
 *        Version  22.09.00.115                   *
 *        Proprietary Program of                  *
 *        Bentley Systems, Inc.                   *
 *        Date=    DEC 11, 2023                   *
 *        Time=    10:31:29                       *
 *                                                *
 *  Licensed to: Sri Harsha Consultants           *
 **************************************************
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1. STAAD SPACE
INPUT FILE: F:\AISHWARYA\GANDHI HOSPITAL\STAAD\GH-LIFT-6.std
2. START JOB INFORMATION
3. ENGINEER DATE 17-JUL-23
4. END JOB INFORMATION
5. INPUT WIDTH 79
6. UNIT METER KN
7. JOINT COORDINATES
8. 1 0 0 0; 2 2.76 0 0; 3 0 0 3.36; 4 2.76 0 3.36; 5 0 -2.275 0; 6 2.76 -2.275 0
9. 7 0 -2.275 3.36; 8 2.76 -2.275 3.36; 9 0 3.75 0; 10 2.76 3.75 0
10. 11 0 3.75 3.36; 12 2.76 3.75 3.36; 13 0 7.5 0; 14 2.76 7.5 0; 15 0 7.5 3.36
11. 16 2.76 7.5 3.36; 17 0 11.25 0; 18 2.76 11.25 0; 19 0 11.25 3.36
12. 20 2.76 11.25 3.36; 21 0 15 0; 22 2.76 15 0; 23 0 15 3.36; 24 2.76 15 3.36
13. 25 0 18.75 0; 26 2.76 18.75 0; 27 0 18.75 3.36; 28 2.76 18.75 3.36
14. 29 0 22.5 0; 30 2.76 22.5 0; 31 0 22.5 3.36; 32 2.76 22.5 3.36; 33 0 26.25 0
15. 34 2.76 26.25 0; 35 0 26.25 3.36; 36 2.76 26.25 3.36; 37 0 30 0; 38 2.76 30 0
16. 39 0 30 3.36; 40 2.76 30 3.36; 41 0 33.75 0; 42 2.76 33.75 0; 43 0 33.75 3.36
17. 44 2.76 33.75 3.36; 49 0 3.75 -1; 50 2.76 3.75 -1; 51 0 7.5 -1; 52 2.76 7.5 -1.
18. 53 0 11.25 -1; 54 2.76 11.25 -1; 55 0 15 -1; 56 2.76 15 -1; 57 0 18.75 -1.
19. 58 2.76 18.75 -1; 59 0 22.5 -1; 60 2.76 22.5 -1; 61 0 26.25 -1.
20. 62 2.76 26.25 -1; 63 0 30 -1; 64 2.76 30 -1; 65 0 34.95 0; 66 2.76 34.95 0
21. 67 0 34.95 3.36; 68 2.76 34.95 3.36; 69 2.76 37.5 3.36; 70 2.76 37.5 0
22. 71 0 37.5 0; 72 0 37.5 3.36; 73 0 33.75 -1; 74 2.76 33.75 -1; 75 0 34.95 2.24
23. 76 0 34.95 1.12; 77 2.76 34.95 1.12; 78 2.76 34.95 2.24; 79 0 37.5 -1.
24. 80 2.76 37.5 -1; 81 0 37.5 2.24; 82 0 37.5 1.12; 83 2.76 37.5 1.12
25. 84 2.76 37.5 2.24; 85 0 3.463 0; 86 2.76 3.463 0; 87 0 3.463 3.36

26. 88 2.76 3.463 3.36; 89 0.287 3.75 0; 90 0.287 3.75 3.36; 91 2.473 3.75 0
27. 92 2.473 3.75 3.36; 93 0 3.75 3.073; 94 2.76 3.75 3.073; 95 0 3.75 0.287
28. 96 2.76 3.75 0.287; 97 2.473 7.5 0; 98 0 7.213 0; 99 0 7.5 0.287
29. 100 0 7.213 3.36; 101 0.287 7.5 3.36; 102 0 7.5 3.073; 103 0.287 7.5 0
30. 104 2.76 7.213 0; 105 2.76 7.5 0.287; 106 2.76 7.213 3.36; 107 2.76 7.5 3.073
31. 108 2.473 7.5 3.36
32. MEMBER INCIDENCES
33. 1 5 1; 2 1 85; 3 6 2; 4 2 86; 5 7 3; 6 3 87; 7 8 4; 8 4 88; 9 1 2; 10 3 1
34. 11 4 2; 12 3 4; 13 9 89; 14 11 93; 15 12 94; 16 11 90; 17 9 98; 18 10 104
35. 19 11 100; 20 12 106; 21 13 103; 22 15 102; 23 16 107; 24 15 101; 25 13 17
36. 26 14 18; 27 15 19; 28 16 20; 29 17 18; 30 19 17; 31 20 18; 32 19 20; 33 17 21
37. 34 18 22; 35 19 23; 36 20 24; 37 21 22; 38 23 21; 39 24 22; 40 23 24; 41 21 25
38. 42 22 26; 43 23 27; 44 24 28; 45 25 26; 46 27 25; 47 28 26; 48 27 28; 49 25 29



39. 50 26 30; 51 27 31; 52 28 32; 53 29 30; 54 31 29; 55 32 30; 56 31 32; 57 29 33
40. 58 30 34; 59 31 35; 60 32 36; 61 33 34; 62 35 33; 63 36 34; 64 35 36; 65 33 37
41. 66 34 38; 67 35 39; 68 36 40; 69 37 38; 70 39 37; 71 40 38; 72 39 40; 73 37 41
42. 74 38 42; 75 39 43; 76 40 44; 77 41 42; 78 43 41; 79 44 42; 80 43 44; 89 9 49
43. 90 10 50; 91 49 50; 92 13 51; 93 14 52; 94 51 52; 95 17 53; 96 18 54; 97 53 54
44. 98 21 55; 99 22 56; 100 55 56; 101 25 57; 102 26 58; 103 57 58; 104 29 59
45. 105 30 60; 106 59 60; 107 33 61; 108 34 62; 109 61 62; 110 37 63; 111 38 64
46. 112 63 64; 113 41 65; 114 43 67; 115 44 68; 116 42 66; 117 68 78; 118 65 66
47. 119 67 68; 120 67 75; 121 69 84; 122 71 70; 123 72 69; 124 72 81; 125 65 71
48. 126 68 69; 127 66 70; 128 67 72; 129 41 73; 130 42 74; 131 73 74; 132 75 76
49. 133 76 65; 134 77 66; 135 76 77; 136 78 77; 137 75 78; 138 71 79; 139 70 80
50. 140 79 80; 141 81 82; 142 82 71; 143 83 70; 144 82 83; 145 84 83; 146 81 84
51. 147 85 9; 148 86 10; 149 87 11; 150 88 12; 151 89 91; 152 90 92; 153 91 10
52. 154 92 12; 155 93 95; 156 94 96; 157 95 9; 158 96 10; 159 85 95; 160 87 90
53. 161 87 93; 162 85 89; 163 86 91; 164 86 96; 165 88 94; 166 88 92; 167 97 14
54. 169 98 13; 170 99 13; 171 98 99; 172 100 15; 173 101 108; 174 100 101
55. 175 102 99; 176 100 102; 177 103 97; 178 98 103; 179 104 14; 180 104 97
56. 181 105 14; 182 104 105; 183 106 16; 184 107 105; 185 106 107; 186 108 16
57. 187 106 108
58. DEFINE MATERIAL START
59. ISOTROPIC CONCRETE
60. E 2.17185E+07
61. POISSON 0.17
62. DENSITY 23.5616
63. ALPHA 1E-05
64. DAMP 0.05
65. TYPE CONCRETE
66. STRENGTH FCU 27579
67. ISOTROPIC STEEL
68. E 2.05E+08
69. POISSON 0.3

70. DENSITY 76.8195
71. ALPHA 1.2E-05
72. DAMP 0.03
73. TYPE STEEL
74. STRENGTH FY 253200 FU 407800 RY 1.5 RT 1.2
75. END DEFINE MATERIAL
76. MEMBER PROPERTY AMERICAN
77. 1 3 5 7 PRIS YD 0.6 ZD 0.6
78. 9 TO 12 PRIS YD 0.45 ZD 0.23
79. MEMBER PROPERTY TATASTRUCTURA
80. 2 4 6 8 17 TO 20 25 TO 28 33 TO 36 41 TO 44 49 TO 52 57 TO 60 65 TO 68 73 -
81. 74 TO 76 113 TO 116 125 TO 128 147 TO 150 169 172 179 -
82. 183 TABLE ST 220X220X10.0SHS
83. 13 TO 16 21 TO 24 29 TO 32 37 TO 40 45 TO 48 53 TO 56 61 TO 64 69 TO 72 77 -
84. 78 TO 80 89 TO 112 117 TO 124 129 TO 146 151 TO 158 167 170 173 175 177 181 -
85. 184 186 TABLE ST 240X120X8.0RHS
86. 159 TO 166 171 174 176 178 180 182 185 187 TABLE ST 240X120X8.0RHS
87. CONSTANTS
88. MATERIAL CONCRETE MEMB 1 3 5 7 9 TO 12
89. MATERIAL STEEL MEMB 2 4 6 8 13 TO 80 89 TO 167 169 TO 187
90. SUPPORTS
91. 5 TO 8 FIXED
92. **********
93. **********
94.
**********
*


95. **********
96. *------AS PER IS:1893-2016---- -
97. * SEISMIC ZONE (HYDERABAD) ZONE=II AS PER IS:1893-2016
98. * ZONE FACTOR Z=0.10
99. * RESPONCE REDUCTION FACTOR R =3
100. * IMPORTANCE FACTOR I =1.5
101. * ROC/SOIL SITES FACTOR SS=2(1 FOR ROCX,2 FOR MEDIUM 3 FOR SOFT SOIL
102. * OPTIONAL VALUE FOR TYPE OF STRU ST=1(1 FOR R.C.C,2 FOR STEEL )
103. **********
104. *DEFINE 1893 LOAD
105. *ZONE 0.1 RF 3 I 1.5 SS 2 ST 1 DM 0.05 PX 2.03 PZ 1.84
106.
**********
107. **********
108. *LOAD 1 SEISMIC IN X-DIRECTION
109. *1893 LOAD X 1

110. *LOAD 2 SEISMIC IN -X-DIRECTION
111. *1893 LOAD X -1
112. *LOAD 3 SEISMIC IN Z-DIRECTION
113. *1893 LOAD Z 1
114. *LOAD 4 SEISMIC IN -Z-DIRECTION
115. *1893 LOAD Z -1
116. **********
117. **********
118. *LOAD 7 WL+X
119. *WIND LOAD X 1 TYPE 1
120. *LOAD 8 WL-X
121. *WIND LOAD X -1 TYPE 1
122. *LOAD 9 WL+Z
123. *WIND LOAD Z 1 TYPE 1
124. *LOAD 10 WL-Z
125. *WIND LOAD Z -1 TYPE 1
126. **********
127. **********
128. *WIND LOAD CALCULATIONS
129. **********
130. *BASIC WIND SPEED (VB)=44M/SEC
131. *RISK COEFFICIENT-K1-1.00
132. *TERRAIN,HEIGHT AND STRUCTURE SIZE FACTOR - K2 FOR 10MT=1,FOR 15MT=1.05,FOR 20M
133. *TOPOGRAPHY FACTOR-K3-1.0
134. * DESIGN WIND SPEED VZ=(VB*K1*K2*K3)
135. *FOR 10MT VZ=44*1*1*1=44
136. *FOR 15MT VZ=44*1*1.05*1=46.2
137. *FOR 20MT VZ=44*1*1.07*1=47.08
138. *FOR 30MT VZ=44*1*1.12*1=49.28
139. *FOR 50MT VZ=44*1*1.17*1=51.48
140. *DESIGN WIND PRESSURE UP TO 10MTS=PZ=0.6(VZ)?
141. *=0.6(43.12)?/1000=1.16 KN/M?
142. * UP TO 15 MTS PZ = 0.6(46.2)^2/1000=1.28 KN/M^2
143. * UP TO 20 MTS PZ = 0.6(47.08)^2/1000=1.32 KN/M^2
144. * UP TO 30 MTS PZ = 0.6(49.28)^2/1000=1.45 KN/M^2
145. * UP TO 50 MTS PZ = 0.6(51.48)^2/1000=1.59 KN/M^2
146. **********
147. *DEFINE WIND LOAD
148. *TYPE 1
149. *INT 0 1.59 HEIG  2  37.5
150. **********



151. LOAD 1 LOADTYPE DEAD  TITLE DL
152. SELFWEIGHT Y -1

153. FLOOR LOAD
154. YRANGE 3.75 3.75 FLOAD -4.125 XRANGE 0 2.76  ZRANGE -1 0  GY

**NOTE** about Floor/OneWay Loads/Weights.

Please note that depending on the shape of the floor you may
have to break up the FLOOR/ONEWAY LOAD into multiple commands.
For details please refer to Technical Reference Manual
Section 5.32.4.2 Note d and/or "5.32.4.3 Note f.

155. YRANGE 7.5 7.5 FLOAD -4.125 XRANGE 0 2.76  ZRANGE -1 0  GY
156. YRANGE 11.25 11.25 FLOAD -4.125 XRANGE 0 2.76  ZRANGE -1 0  GY
157. YRANGE 15 15 FLOAD -4.125 XRANGE 0 2.76  ZRANGE -1 0  GY
158. YRANGE 18.75 18.75 FLOAD -4.125 XRANGE 0 2.76  ZRANGE -1 0  GY
159. YRANGE 22.5 22.5 FLOAD -4.125 XRANGE 0 2.76  ZRANGE -1 0  GY
160. YRANGE 26.25 26.25 FLOAD -4.125 XRANGE 0 2.76  ZRANGE -1 0  GY
161. YRANGE 30 30 FLOAD -4.125 XRANGE 0 2.76  ZRANGE -1 0  GY
162. YRANGE 33.75 33.75 FLOAD -4.125 XRANGE 0 2.76  ZRANGE -1 0  GY
163. YRANGE 34.95 34.95 FLOAD -14.25 XRANGE 0 2.76  ZRANGE 0 3.36  GY
164. YRANGE 37.5 37.5 FLOAD -4.125 XRANGE 0 2.76  ZRANGE -1 3.36  GY
165. **********
166. LOAD 2 LOADTYPE LIVE REDUCIBLE TITLE LL
167. FLOOR LOAD
168. YRANGE 3.75 3.75 FLOAD -2 XRANGE 0 2.76  ZRANGE -1 0  GY
169. YRANGE 7.5 7.5 FLOAD -2 XRANGE 0 2.76  ZRANGE -1 0  GY
170. YRANGE 11.25 11.25 FLOAD -2 XRANGE 0 2.76  ZRANGE -1 0  GY
171. YRANGE 15 15 FLOAD -2 XRANGE 0 2.76  ZRANGE -1 0  GY
172. YRANGE 18.75 18.75 FLOAD -2 XRANGE 0 2.76  ZRANGE -1 0  GY
173. YRANGE 22.5 22.5 FLOAD -2 XRANGE 0 2.76  ZRANGE -1 0  GY
174. YRANGE 26.25 26.25 FLOAD -2 XRANGE 0 2.76  ZRANGE -1 0  GY
175. YRANGE 30 30 FLOAD -2 XRANGE 0 2.76  ZRANGE -1 0  GY
176. YRANGE 33.75 33.75 FLOAD -2 XRANGE 0 2.76  ZRANGE -1 0  GY
177. YRANGE 34.95 34.95 FLOAD -2 XRANGE 0 2.76  ZRANGE 0 3.36  GY
178. YRANGE 37.5 37.5 FLOAD -2 XRANGE 0 2.76  ZRANGE -1 3.36  GY
179. **********
180. LOAD 3 WL+X
181. MEMBER LOAD
182. 2 6 17 19 25 27 33 35 41 43 49 51 57 59 65 67 73 75 113 114 125 128 147 149 -
183. 169 172 UNI GX 2.67
184. LOAD 4 WL-X
185. MEMBER LOAD
186. 4 8 18 20 26 28 34 36 42 44 50 52 58 60 66 68 74 76 115 116 126 127 148 150 -
187. 179 183 UNI GX -2.67
188. LOAD 5 WL+Z
189. MEMBER LOAD
190. 2 4 17 18 25 26 33 34 41 42 49 50 57 58 65 66 73 74 113 116 125 127 147 148 -
191. 169 179 UNI GZ 0.01
192. **********

193. LOAD 6 WL-Z
194. MEMBER LOAD


195. 6 8 19 20 27 28 35 36 43 44 51 52 59 60 67 68 75 76 114 115 126 128 149 150 -
196. 172 183 UNI GZ -2.19
197. **********
198. LOAD COMB 7 1.0(DL)+1.0(LL)
199. 1 1.0 2 1.0
200. LOAD COMB 8 1.0(DL)+1.0(WL+X)
201. 1 1.0 3 1.0
202. LOAD COMB 9 1.0(DL)+1.0(WL-X)
203. 1 1.0 4 1.0
204. LOAD COMB 10 1.0(DL)+1.0(WL+Z)
205. 1 1.0 5 1.0
206. LOAD COMB 11 1.0(DL)+1.0(WL-Z)
207. 1 1.0 6 1.0
208. LOAD COMB 12 1.0(DL)+0.8(LL)+0.8(WL+X)
209. 1 1.0 2 0.8 3 0.8
210. LOAD COMB 13 1.0(DL)+0.8(LL)+0.8(WL-X)
211. 1 1.0 2 0.8 4 0.8
212. LOAD COMB 14 1.0(DL)+0.8(LL)+0.8(WL+Z)
213. 1 1.0 2 0.8 5 0.8
214. LOAD COMB 15 1.0(DL)+0.8(LL)+0.8(WL-Z)
215. 1 1.0 2 0.8 6 0.8
216. LOAD COMB 16 1.5(DL)+1.5(LL)
217. 1 1.5 2 1.5
218. PERFORM ANALYSIS

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P R O B L E M S T A T I S T I C S
---

NUMBER OF JOINTS 104 NUMBER OF MEMBERS 178
NUMBER OF PLATES 0 NUMBER OF SOLIDS 0
NUMBER OF SURFACES 0 NUMBER OF SUPPORTS 4

Using 64-bit analysis engine.

SOLVER USED IS THE IN-CORE ADVANCED MATH SOLVER

TOTAL PRIMARY LOAD CASES = 6, TOTAL DEGREES OF FREEDOM = 600
TOTAL LOAD COMBINATION CASES = 10 SO FAR.

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219. LOAD LIST 7 TO 15
220. PRINT ANALYSIS RESULTS

ANALYSIS RESULTS

STAAD SPACE -- PAGE NO. 6

JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

| JOINT | LOAD | X-TRANS | Y-TRANS | Z-TRANS | X-ROTAN | Y-ROTAN | Z-ROTAN |
|---|---|---|---|---|---|---|---|
| 1 | 7 | 0.0000 | -0.0063 | -0.0008 | -0.0000 | 0.0000 | -0.0000 |
| | 8 | 0.1352 | 0.0141 | -0.0004 | 0.0000 | 0.0000 | -0.0010 |
| | 9 | -0.1348 | -0.0244 | -0.0006 | 0.0000 | -0.0000 | 0.0010 |
| | 10 | 0.0000 | -0.0051 | 0.0000 | 0.0000 | 0.0000 | -0.0000 |
| | 11 | 0.0000 | -0.0177 | -0.1177 | -0.0008 | -0.0000 | -0.0000 |
| | 12 | 0.1082 | 0.0093 | -0.0006 | 0.0000 | 0.0000 | -0.0008 |
| | 13 | -0.1079 | -0.0215 | -0.0008 | -0.0000 | -0.0000 | 0.0008 |
| | 14 | 0.0000 | -0.0060 | -0.0003 | 0.0000 | 0.0000 | -0.0000 |
| | 15 | -0.0000 | -0.0162 | -0.0945 | -0.0007 | -0.0000 | -0.0000 |
| 2 | 7 | -0.0000 | -0.0063 | -0.0008 | -0.0000 | -0.0000 | 0.0000 |
| | 8 | 0.1348 | -0.0244 | -0.0006 | 0.0000 | 0.0000 | -0.0010 |
| | 9 | -0.1352 | 0.0141 | -0.0004 | 0.0000 | -0.0000 | 0.0010 |
| | 10 | -0.0000 | -0.0051 | 0.0000 | 0.0000 | -0.0000 | 0.0000 |
| | 11 | -0.0000 | -0.0177 | -0.1177 | -0.0008 | 0.0000 | 0.0000 |
| | 12 | 0.1079 | -0.0215 | -0.0008 | -0.0000 | 0.0000 | -0.0008 |
| | 13 | -0.1082 | 0.0093 | -0.0006 | 0.0000 | -0.0000 | 0.0008 |
| | 14 | -0.0000 | -0.0060 | -0.0003 | 0.0000 | -0.0000 | 0.0000 |
| | 15 | 0.0000 | -0.0162 | -0.0945 | -0.0007 | 0.0000 | 0.0000 |
| 3 | 7 | 0.0000 | -0.0027 | -0.0010 | -0.0000 | 0.0000 | -0.0000 |
| | 8 | 0.1352 | 0.0160 | -0.0006 | -0.0000 | 0.0000 | -0.0010 |
| | 9 | -0.1347 | -0.0211 | -0.0009 | -0.0000 | -0.0000 | 0.0010 |
| | 10 | 0.0000 | -0.0026 | -0.0002 | -0.0000 | 0.0000 | -0.0000 |
| | 11 | 0.0001 | 0.0101 | -0.1183 | -0.0009 | -0.0000 | -0.0000 |
| | 12 | 0.1082 | 0.0121 | -0.0008 | -0.0000 | 0.0000 | -0.0008 |
| | 13 | -0.1078 | -0.0175 | -0.0011 | -0.0000 | -0.0000 | 0.0008 |
| | 14 | 0.0000 | -0.0027 | -0.0005 | -0.0000 | 0.0000 | -0.0000 |
| | 15 | 0.0001 | 0.0074 | -0.0950 | -0.0007 | -0.0000 | -0.0000 |
| 4 | 7 | -0.0000 | -0.0027 | -0.0010 | -0.0000 | -0.0000 | 0.0000 |
| | 8 | 0.1347 | -0.0211 | -0.0009 | -0.0000 | 0.0000 | -0.0010 |
| | 9 | -0.1352 | 0.0160 | -0.0006 | -0.0000 | -0.0000 | 0.0010 |
| | 10 | -0.0000 | -0.0026 | -0.0002 | -0.0000 | -0.0000 | 0.0000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 11 | -0.0001 | 0.0101 | -0.1183 | -0.0009 | 0.0000 | 0.0000 |
| | 12 | 0.1078 | -0.0175 | -0.0011 | -0.0000 | 0.0000 | -0.0008 |
| | 13 | -0.1082 | 0.0121 | -0.0008 | -0.0000 | -0.0000 | 0.0008 |
| | 14 | -0.0000 | -0.0027 | -0.0005 | -0.0000 | -0.0000 | 0.0000 |
| | 15 | -0.0001 | 0.0074 | -0.0950 | -0.0007 | 0.0000 | 0.0000 |
| 5 | 7 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 9 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 10 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 11 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 12 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 13 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 14 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 15 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 6 | 7 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |



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JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

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| JOINT | LOAD | X-TRANS | Y-TRANS | Z-TRANS | X-ROTAN | Y-ROTAN | Z-ROTAN |
|---|---|---|---|---|---|---|---|

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 8 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 9 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 10 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 11 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 12 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 13 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 14 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 15 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 7 | 7 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 9 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 10 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 11 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 12 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 13 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 14 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 15 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 8 | 7 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 8 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 9 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 10 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 11 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 12 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 13 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 14 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | 15 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 9 | 7 | -0.0002 | -0.0504 | -0.0401 | -0.0003 | -0.0000 | -0.0001 |
| | 8 | 3.1816 | 0.1142 | -0.0046 | 0.0001 | 0.0002 | -0.0073 |
| | 9 | -3.1807 | -0.1945 | -0.0531 | -0.0005 | -0.0002 | 0.0072 |
| | 10 | -0.0002 | -0.0397 | -0.0157 | -0.0002 | -0.0000 | -0.0000 |
| | 11 | -0.0003 | -0.1413 | -2.9122 | -0.0075 | 0.0000 | -0.0000 |
| | 12 | 2.5452 | 0.0751 | -0.0185 | -0.0000 | 0.0002 | -0.0058 |
| | 13 | -2.5446 | -0.1718 | -0.0573 | -0.0005 | -0.0002 | 0.0057 |
| | 14 | -0.0002 | -0.0480 | -0.0273 | -0.0002 | -0.0000 | -0.0000 |
| | 15 | -0.0003 | -0.1293 | -2.3446 | -0.0061 | 0.0000 | -0.0000 |
| 10 | 7 | 0.0002 | -0.0504 | -0.0401 | -0.0003 | 0.0000 | 0.0001 |
| | 8 | 3.1807 | -0.1945 | -0.0531 | -0.0005 | 0.0002 | -0.0072 |
| | 9 | -3.1816 | 0.1142 | -0.0046 | 0.0001 | -0.0002 | 0.0073 |
| | 10 | 0.0002 | -0.0397 | -0.0157 | -0.0002 | 0.0000 | 0.0000 |
| | 11 | 0.0003 | -0.1413 | -2.9122 | -0.0075 | -0.0000 | 0.0000 |
| | 12 | 2.5446 | -0.1718 | -0.0573 | -0.0005 | 0.0002 | -0.0057 |
| | 13 | -2.5452 | 0.0751 | -0.0185 | -0.0000 | -0.0002 | 0.0058 |
| | 14 | 0.0002 | -0.0480 | -0.0273 | -0.0002 | 0.0000 | 0.0000 |
| | 15 | 0.0003 | -0.1293 | -2.3446 | -0.0061 | -0.0000 | 0.0000 |
| 11 | 7 | -0.0001 | -0.0195 | -0.0400 | -0.0001 | 0.0000 | -0.0000 |
| | 8 | 3.2385 | 0.1300 | -0.0049 | -0.0001 | 0.0002 | -0.0076 |



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JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

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| JOINT | LOAD | X-TRANS | Y-TRANS | Z-TRANS | X-ROTAN | Y-ROTAN | Z-ROTAN |
|---|---|---|---|---|---|---|---|
| | 9 | -3.2374 | -0.1662 | -0.0526 | -0.0001 | -0.0002 | 0.0076 |
| | 10 | -0.0000 | -0.0186 | -0.0156 | -0.0001 | 0.0000 | -0.0000 |
| | 11 | 0.0001 | 0.0830 | -2.9133 | -0.0074 | 0.0000 | -0.0000 |
| | 12 | 2.5908 | 0.0993 | -0.0187 | -0.0001 | 0.0002 | -0.0061 |
| | 13 | -2.5899 | -0.1377 | -0.0569 | -0.0002 | -0.0002 | 0.0061 |
| | 14 | -0.0001 | -0.0196 | -0.0273 | -0.0001 | 0.0000 | -0.0000 |
| | 15 | 0.0001 | 0.0617 | -2.3455 | -0.0060 | 0.0000 | -0.0000 |
| 12 | 7 | 0.0001 | -0.0195 | -0.0400 | -0.0001 | -0.0000 | 0.0000 |
| | 8 | 3.2374 | -0.1662 | -0.0526 | -0.0001 | 0.0002 | -0.0076 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 | -3.2385 | 0.1300 | -0.0049 | -0.0001 | -0.0002 | 0.0076 |
| 10 | 0.0000 | -0.0186 | -0.0156 | -0.0001 | -0.0000 | 0.0000 |
| 11 | -0.0001 | 0.0830 | -2.9133 | -0.0074 | -0.0000 | 0.0000 |
| 12 | 2.5899 | -0.1377 | -0.0569 | -0.0002 | 0.0002 | -0.0061 |
| 13 | -2.5908 | 0.0993 | -0.0187 | -0.0001 | -0.0002 | 0.0061 |
| 14 | 0.0001 | -0.0196 | -0.0273 | -0.0001 | -0.0000 | 0.0000 |
| 15 | -0.0001 | 0.0617 | -2.3455 | -0.0060 | -0.0000 | 0.0000 |
| 13 7 | -0.0001 | -0.0913 | -0.1361 | -0.0004 | -0.0000 | -0.0000 |
| 8 | 7.3855 | 0.1918 | -0.0204 | 0.0000 | 0.0006 | -0.0082 |
| 9 | -7.3845 | -0.3369 | -0.1750 | -0.0005 | -0.0006 | 0.0082 |
| 10 | -0.0001 | -0.0719 | -0.0665 | -0.0002 | -0.0000 | -0.0000 |
| 11 | -0.0002 | -0.2462 | -6.9334 | -0.0084 | 0.0000 | -0.0000 |
| 12 | 5.9083 | 0.1239 | -0.0666 | -0.0001 | 0.0005 | -0.0066 |
| 13 | -5.9076 | -0.2990 | -0.1902 | -0.0006 | -0.0005 | 0.0065 |
| 14 | -0.0001 | -0.0869 | -0.1034 | -0.0003 | -0.0000 | -0.0000 |
| 15 | -0.0002 | -0.2264 | -5.5969 | -0.0068 | 0.0000 | -0.0000 |
| 14 7 | 0.0001 | -0.0913 | -0.1361 | -0.0004 | 0.0000 | 0.0000 |
| 8 | 7.3845 | -0.3369 | -0.1750 | -0.0005 | 0.0006 | -0.0082 |
| 9 | -7.3855 | 0.1918 | -0.0204 | 0.0000 | -0.0006 | 0.0082 |
| 10 | 0.0001 | -0.0719 | -0.0665 | -0.0002 | 0.0000 | 0.0000 |
| 11 | 0.0002 | -0.2462 | -6.9334 | -0.0084 | -0.0000 | 0.0000 |
| 12 | 5.9076 | -0.2990 | -0.1902 | -0.0006 | 0.0005 | -0.0065 |
| 13 | -5.9083 | 0.1239 | -0.0666 | -0.0001 | -0.0005 | 0.0066 |
| 14 | 0.0001 | -0.0869 | -0.1034 | -0.0003 | 0.0000 | 0.0000 |
| 15 | 0.0002 | -0.2264 | -5.5969 | -0.0068 | -0.0000 | 0.0000 |
| 15 7 | -0.0000 | -0.0356 | -0.1359 | -0.0003 | 0.0000 | -0.0000 |
| 8 | 7.5706 | 0.2208 | -0.0207 | -0.0001 | 0.0006 | -0.0086 |
| 9 | -7.5695 | -0.2867 | -0.1744 | -0.0003 | -0.0006 | 0.0086 |
| 10 | -0.0000 | -0.0338 | -0.0663 | -0.0002 | 0.0000 | -0.0000 |
| 11 | 0.0001 | 0.1406 | -6.9344 | -0.0083 | 0.0000 | -0.0000 |
| 12 | 6.0565 | 0.1679 | -0.0667 | -0.0002 | 0.0004 | -0.0069 |
| 13 | -6.0556 | -0.2381 | -0.1897 | -0.0003 | -0.0004 | 0.0069 |
| 14 | -0.0000 | -0.0357 | -0.1033 | -0.0002 | 0.0000 | -0.0000 |
| 15 | 0.0001 | 0.1038 | -5.5977 | -0.0067 | 0.0000 | -0.0000 |
| 16 7 | 0.0000 | -0.0356 | -0.1359 | -0.0003 | -0.0000 | 0.0000 |
| 8 | 7.5695 | -0.2867 | -0.1744 | -0.0003 | 0.0006 | -0.0086 |
| 9 | -7.5706 | 0.2208 | -0.0207 | -0.0001 | -0.0006 | 0.0086 |



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JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

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| JOINT | LOAD | X-TRANS | Y-TRANS | Z-TRANS | X-ROTAN | Y-ROTAN | Z-ROTAN |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 10 | 0.0000 | -0.0338 | -0.0663 | -0.0002 | -0.0000 | 0.0000 |
| | 11 | -0.0001 | 0.1406 | -6.9344 | -0.0083 | -0.0000 | 0.0000 |
| | 12 | 6.0556 | -0.2381 | -0.1897 | -0.0003 | 0.0004 | -0.0069 |
| | 13 | -6.0565 | 0.1679 | -0.0667 | -0.0002 | -0.0004 | 0.0069 |
| | 14 | 0.0000 | -0.0357 | -0.1033 | -0.0002 | -0.0000 | 0.0000 |
| | 15 | -0.0001 | 0.1038 | -5.5977 | -0.0067 | -0.0000 | 0.0000 |
| 17 | 7 | -0.0000 | -0.1293 | -0.2714 | -0.0005 | -0.0000 | -0.0001 |
| | 8 | 12.1137 | 0.2486 | -0.0524 | 0.0000 | 0.0010 | -0.0095 |
| | 9 | -12.1125 | -0.4542 | -0.3370 | -0.0007 | -0.0010 | 0.0094 |
| | 10 | -0.0000 | -0.1018 | -0.1436 | -0.0003 | -0.0000 | -0.0000 |
| | 11 | -0.0000 | -0.3340 | -11.3785 | -0.0092 | 0.0000 | -0.0000 |
| | 12 | 9.6910 | 0.1572 | -0.1422 | -0.0002 | 0.0008 | -0.0076 |
| | 13 | -9.6900 | -0.4051 | -0.3699 | -0.0007 | -0.0008 | 0.0075 |
| | 14 | -0.0000 | -0.1232 | -0.2152 | -0.0004 | -0.0000 | -0.0001 |
| | 15 | -0.0000 | -0.3090 | -9.2030 | -0.0076 | 0.0000 | -0.0001 |
| 18 | 7 | 0.0000 | -0.1293 | -0.2714 | -0.0005 | 0.0000 | 0.0001 |
| | 8 | 12.1125 | -0.4542 | -0.3370 | -0.0007 | 0.0010 | -0.0094 |
| | 9 | -12.1137 | 0.2486 | -0.0524 | 0.0000 | -0.0010 | 0.0095 |
| | 10 | 0.0000 | -0.1018 | -0.1436 | -0.0003 | 0.0000 | 0.0000 |
| | 11 | 0.0000 | -0.3340 | -11.3785 | -0.0092 | -0.0000 | 0.0000 |
| | 12 | 9.6900 | -0.4051 | -0.3699 | -0.0007 | 0.0008 | -0.0075 |
| | 13 | -9.6910 | 0.1572 | -0.1422 | -0.0002 | -0.0008 | 0.0076 |
| | 14 | 0.0000 | -0.1232 | -0.2152 | -0.0004 | 0.0000 | 0.0001 |
| | 15 | 0.0000 | -0.3090 | -9.2030 | -0.0076 | -0.0000 | 0.0001 |
| 19 | 7 | -0.0000 | -0.0514 | -0.2714 | -0.0004 | 0.0000 | -0.0000 |
| | 8 | 12.4611 | 0.2901 | -0.0524 | -0.0001 | 0.0010 | -0.0100 |
| | 9 | -12.4598 | -0.3849 | -0.3370 | -0.0004 | -0.0010 | 0.0100 |
| | 10 | -0.0000 | -0.0485 | -0.1436 | -0.0002 | 0.0000 | -0.0000 |
| | 11 | 0.0000 | 0.1838 | -11.3797 | -0.0092 | 0.0000 | -0.0000 |
| | 12 | 9.9689 | 0.2194 | -0.1422 | -0.0002 | 0.0008 | -0.0080 |
| | 13 | -9.9679 | -0.3205 | -0.3699 | -0.0004 | -0.0008 | 0.0080 |
| | 14 | -0.0000 | -0.0514 | -0.2152 | -0.0003 | 0.0000 | -0.0000 |
| | 15 | 0.0000 | 0.1344 | -9.2041 | -0.0075 | 0.0000 | -0.0000 |
| 20 | 7 | 0.0000 | -0.0514 | -0.2714 | -0.0004 | -0.0000 | 0.0000 |
| | 8 | 12.4598 | -0.3849 | -0.3370 | -0.0004 | 0.0010 | -0.0100 |
| | 9 | -12.4611 | 0.2901 | -0.0524 | -0.0001 | -0.0010 | 0.0100 |
| | 10 | 0.0000 | -0.0485 | -0.1436 | -0.0002 | -0.0000 | 0.0000 |
| | 11 | -0.0000 | 0.1838 | -11.3797 | -0.0092 | -0.0000 | 0.0000 |
| | 12 | 9.9679 | -0.3205 | -0.3699 | -0.0004 | 0.0008 | -0.0080 |
| | 13 | -9.9689 | 0.2194 | -0.1422 | -0.0002 | -0.0008 | 0.0080 |
| | 14 | 0.0000 | -0.0514 | -0.2152 | -0.0003 | -0.0000 | 0.0000 |
| | 15 | -0.0000 | 0.1344 | -9.2041 | -0.0075 | -0.0000 | 0.0000 |
| 21 | 7 | 0.0000 | -0.1640 | -0.4356 | -0.0005 | -0.0000 | -0.0001 |
| | 8 | 16.8254 | 0.2869 | -0.1027 | -0.0001 | 0.0015 | -0.0092 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 9 | -16.8242 | -0.5478 | -0.5220 | -0.0007 | -0.0015 | 0.0091 |
| | 10 | 0.0000 | -0.1293 | -0.2420 | -0.0003 | -0.0000 | -0.0000 |



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JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

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| JOINT | LOAD | X-TRANS | Y-TRANS | Z-TRANS | X-ROTAN | Y-ROTAN | Z-ROTAN |
|---|---|---|---|---|---|---|---|
| | 11 | 0.0000 | -0.4056 | -15.7240 | -0.0087 | -0.0000 | -0.0000 |
| | 12 | 13.4603 | 0.1766 | -0.2432 | -0.0003 | 0.0012 | -0.0074 |
| | 13 | -13.4593 | -0.4911 | -0.5787 | -0.0007 | -0.0012 | 0.0072 |
| | 14 | 0.0000 | -0.1563 | -0.3547 | -0.0005 | -0.0000 | -0.0001 |
| | 15 | 0.0000 | -0.3773 | -12.7403 | -0.0071 | -0.0000 | -0.0001 |
| 22 | 7 | -0.0000 | -0.1640 | -0.4356 | -0.0005 | 0.0000 | 0.0001 |
| | 8 | 16.8242 | -0.5478 | -0.5220 | -0.0007 | 0.0015 | -0.0091 |
| | 9 | -16.8254 | 0.2869 | -0.1027 | -0.0001 | -0.0015 | 0.0092 |
| | 10 | -0.0000 | -0.1293 | -0.2420 | -0.0003 | 0.0000 | 0.0000 |
| | 11 | -0.0000 | -0.4056 | -15.7240 | -0.0087 | 0.0000 | 0.0000 |
| | 12 | 13.4593 | -0.4911 | -0.5787 | -0.0007 | 0.0012 | -0.0072 |
| | 13 | -13.4603 | 0.1766 | -0.2432 | -0.0003 | -0.0012 | 0.0074 |
| | 14 | -0.0000 | -0.1563 | -0.3547 | -0.0005 | 0.0000 | 0.0001 |
| | 15 | -0.0000 | -0.3773 | -12.7403 | -0.0071 | 0.0000 | 0.0001 |
| 23 | 7 | 0.0000 | -0.0667 | -0.4356 | -0.0004 | 0.0000 | -0.0000 |
| | 8 | 17.3415 | 0.3401 | -0.1027 | -0.0002 | 0.0015 | -0.0096 |
| | 9 | -17.3402 | -0.4625 | -0.5220 | -0.0004 | -0.0015 | 0.0096 |
| | 10 | 0.0000 | -0.0625 | -0.2420 | -0.0003 | 0.0000 | -0.0000 |
| | 11 | -0.0000 | 0.2138 | -15.7253 | -0.0086 | 0.0000 | -0.0000 |
| | 12 | 13.8732 | 0.2555 | -0.2433 | -0.0003 | 0.0012 | -0.0077 |
| | 13 | -13.8722 | -0.3866 | -0.5786 | -0.0005 | -0.0012 | 0.0077 |
| | 14 | 0.0000 | -0.0666 | -0.3547 | -0.0004 | 0.0000 | -0.0000 |
| | 15 | -0.0000 | 0.1545 | -12.7413 | -0.0070 | 0.0000 | -0.0000 |
| 24 | 7 | -0.0000 | -0.0667 | -0.4356 | -0.0004 | -0.0000 | 0.0000 |
| | 8 | 17.3402 | -0.4625 | -0.5220 | -0.0004 | 0.0015 | -0.0096 |
| | 9 | -17.3415 | 0.3401 | -0.1027 | -0.0002 | -0.0015 | 0.0096 |
| | 10 | -0.0000 | -0.0625 | -0.2420 | -0.0003 | -0.0000 | 0.0000 |
| | 11 | 0.0000 | 0.2138 | -15.7253 | -0.0086 | -0.0000 | 0.0000 |
| | 12 | 13.8722 | -0.3866 | -0.5786 | -0.0005 | 0.0012 | -0.0077 |
| | 13 | -13.8732 | 0.2555 | -0.2433 | -0.0003 | -0.0012 | 0.0077 |
| | 14 | -0.0000 | -0.0666 | -0.3547 | -0.0004 | -0.0000 | 0.0000 |
| | 15 | 0.0000 | 0.1545 | -12.7413 | -0.0070 | -0.0000 | 0.0000 |
| 25 | 7 | -0.0000 | -0.1955 | -0.6209 | -0.0006 | -0.0000 | -0.0001 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 8 | 21.1631 | 0.3090 | -0.1768 | -0.0002 | 0.0019 | -0.0085 |
| | 9 | -21.1619 | -0.6202 | -0.7132 | -0.0007 | -0.0019 | 0.0084 |
| | 10 | -0.0000 | -0.1542 | -0.3573 | -0.0004 | -0.0000 | -0.0000 |
| | 11 | -0.0000 | -0.4623 | -19.6507 | -0.0078 | -0.0000 | -0.0000 |
| | 12 | 16.9305 | 0.1842 | -0.3712 | -0.0003 | 0.0016 | -0.0068 |
| | 13 | -16.9295 | -0.5591 | -0.8003 | -0.0007 | -0.0015 | 0.0067 |
| | 14 | -0.0000 | -0.1864 | -0.5156 | -0.0005 | -0.0000 | -0.0001 |
| | 15 | -0.0000 | -0.4328 | -15.9503 | -0.0065 | -0.0000 | -0.0001 |
| 26 | 7 | 0.0000 | -0.1955 | -0.6209 | -0.0006 | 0.0000 | 0.0001 |
| | 8 | 21.1619 | -0.6202 | -0.7132 | -0.0007 | 0.0019 | -0.0084 |
| | 9 | -21.1631 | 0.3090 | -0.1768 | -0.0002 | -0.0019 | 0.0085 |
| | 10 | 0.0000 | -0.1542 | -0.3573 | -0.0004 | 0.0000 | 0.0000 |
| | 11 | 0.0000 | -0.4623 | -19.6507 | -0.0078 | 0.0000 | 0.0000 |



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JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

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| JOINT | LOAD | X-TRANS | Y-TRANS | Z-TRANS | X-ROTAN | Y-ROTAN | Z-ROTAN |
|---|---|---|---|---|---|---|---|
| | 12 | 16.9295 | -0.5591 | -0.8003 | -0.0007 | 0.0015 | -0.0067 |
| | 13 | -16.9305 | 0.1842 | -0.3712 | -0.0003 | -0.0016 | 0.0068 |
| | 14 | 0.0000 | -0.1864 | -0.5156 | -0.0005 | 0.0000 | 0.0001 |
| | 15 | 0.0000 | -0.4328 | -15.9503 | -0.0065 | 0.0000 | 0.0001 |
| 27 | 7 | -0.0000 | -0.0815 | -0.6209 | -0.0005 | 0.0000 | -0.0000 |
| | 8 | 21.8226 | 0.3730 | -0.1769 | -0.0002 | 0.0019 | -0.0089 |
| | 9 | -21.8213 | -0.5220 | -0.7132 | -0.0004 | -0.0019 | 0.0088 |
| | 10 | -0.0000 | -0.0759 | -0.3573 | -0.0003 | 0.0000 | -0.0000 |
| | 11 | 0.0000 | 0.2322 | -19.6520 | -0.0078 | 0.0000 | -0.0000 |
| | 12 | 17.4581 | 0.2779 | -0.3712 | -0.0004 | 0.0015 | -0.0071 |
| | 13 | -17.4571 | -0.4380 | -0.8003 | -0.0005 | -0.0015 | 0.0071 |
| | 14 | -0.0000 | -0.0812 | -0.5156 | -0.0004 | 0.0000 | -0.0000 |
| | 15 | -0.0000 | 0.1653 | -15.9513 | -0.0064 | 0.0000 | -0.0000 |
| 28 | 7 | 0.0000 | -0.0815 | -0.6209 | -0.0005 | -0.0000 | 0.0000 |
| | 8 | 21.8213 | -0.5220 | -0.7132 | -0.0004 | 0.0019 | -0.0088 |
| | 9 | -21.8226 | 0.3730 | -0.1769 | -0.0002 | -0.0019 | 0.0089 |
| | 10 | 0.0000 | -0.0759 | -0.3573 | -0.0003 | -0.0000 | 0.0000 |
| | 11 | -0.0000 | 0.2322 | -19.6520 | -0.0078 | -0.0000 | 0.0000 |
| | 12 | 17.4571 | -0.4380 | -0.8003 | -0.0005 | 0.0015 | -0.0071 |
| | 13 | -17.4581 | 0.2779 | -0.3712 | -0.0004 | -0.0015 | 0.0071 |
| | 14 | 0.0000 | -0.0812 | -0.5156 | -0.0004 | -0.0000 | 0.0000 |
| | 15 | 0.0000 | 0.1653 | -15.9513 | -0.0064 | -0.0000 | 0.0000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 29 | 7 | 0.0000 | -0.2237 | -0.8234 | -0.0006 | -0.0000 | -0.0001 |
| | 8 | 25.0388 | 0.3181 | -0.2742 | -0.0002 | 0.0023 | -0.0077 |
| | 9 | -25.0375 | -0.6744 | -0.9056 | -0.0006 | -0.0023 | 0.0076 |
| | 10 | 0.0000 | -0.1767 | -0.4872 | -0.0004 | -0.0000 | -0.0000 |
| | 11 | 0.0000 | -0.5062 | -23.0840 | -0.0069 | -0.0000 | -0.0000 |
| | 12 | 20.0310 | 0.1824 | -0.5241 | -0.0004 | 0.0018 | -0.0062 |
| | 13 | -20.0300 | -0.6116 | -1.0293 | -0.0007 | -0.0018 | 0.0061 |
| | 14 | 0.0000 | -0.2134 | -0.6945 | -0.0006 | -0.0000 | -0.0001 |
| | 15 | 0.0000 | -0.4770 | -18.7720 | -0.0057 | -0.0000 | -0.0001 |
| 30 | 7 | -0.0000 | -0.2237 | -0.8234 | -0.0006 | 0.0000 | 0.0001 |
| | 8 | 25.0375 | -0.6744 | -0.9056 | -0.0006 | 0.0023 | -0.0076 |
| | 9 | -25.0388 | 0.3181 | -0.2742 | -0.0002 | -0.0023 | 0.0077 |
| | 10 | -0.0000 | -0.1767 | -0.4872 | -0.0004 | 0.0000 | 0.0000 |
| | 11 | -0.0000 | -0.5062 | -23.0840 | -0.0069 | 0.0000 | 0.0000 |
| | 12 | 20.0300 | -0.6116 | -1.0293 | -0.0007 | 0.0018 | -0.0061 |
| | 13 | -20.0310 | 0.1824 | -0.5241 | -0.0004 | -0.0018 | 0.0062 |
| | 14 | -0.0000 | -0.2134 | -0.6945 | -0.0006 | 0.0000 | 0.0001 |
| | 15 | -0.0000 | -0.4770 | -18.7720 | -0.0057 | 0.0000 | 0.0001 |
| 31 | 7 | 0.0000 | -0.0958 | -0.8234 | -0.0005 | 0.0000 | -0.0000 |
| | 8 | 25.8136 | 0.3917 | -0.2742 | -0.0003 | 0.0023 | -0.0080 |
| | 9 | -25.8124 | -0.5660 | -0.9056 | -0.0005 | -0.0023 | 0.0080 |
| | 10 | 0.0000 | -0.0887 | -0.4872 | -0.0003 | 0.0000 | -0.0000 |
| | 11 | 0.0000 | 0.2409 | -23.0852 | -0.0068 | 0.0000 | -0.0000 |
| | 12 | 20.6509 | 0.2890 | -0.5242 | -0.0004 | 0.0018 | -0.0064 |



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JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

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| JOINT | LOAD | X-TRANS | Y-TRANS | Z-TRANS | X-ROTAN | Y-ROTAN | Z-ROTAN |
|---|---|---|---|---|---|---|---|

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 13 | -20.6499 | -0.4771 | -1.0293 | -0.0005 | -0.0018 | 0.0064 |
| | 14 | 0.0000 | -0.0953 | -0.6946 | -0.0005 | 0.0000 | -0.0000 |
| | 15 | 0.0000 | 0.1684 | -18.7730 | -0.0056 | 0.0000 | -0.0000 |
| 32 | 7 | -0.0000 | -0.0958 | -0.8234 | -0.0005 | -0.0000 | 0.0000 |
| | 8 | 25.8124 | -0.5660 | -0.9056 | -0.0005 | 0.0023 | -0.0080 |
| | 9 | -25.8136 | 0.3917 | -0.2742 | -0.0003 | -0.0023 | 0.0080 |
| | 10 | -0.0000 | -0.0887 | -0.4872 | -0.0003 | -0.0000 | 0.0000 |
| | 11 | -0.0000 | 0.2409 | -23.0852 | -0.0068 | -0.0000 | 0.0000 |
| | 12 | 20.6499 | -0.4771 | -1.0293 | -0.0005 | 0.0018 | -0.0064 |
| | 13 | -20.6509 | 0.2890 | -0.5242 | -0.0004 | -0.0018 | 0.0064 |
| | 14 | -0.0000 | -0.0953 | -0.6946 | -0.0005 | -0.0000 | 0.0000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 15 | -0.0000 | 0.1684 | -18.7730 | -0.0056 | -0.0000 | 0.0000 |
| 33 | 7 | -0.0000 | -0.2487 | -1.0397 | -0.0006 | -0.0000 | -0.0001 |
| | 8 | 28.4081 | 0.3173 | -0.3929 | -0.0003 | 0.0025 | -0.0068 |
| | 9 | -28.4069 | -0.7137 | -1.0964 | -0.0006 | -0.0025 | 0.0067 |
| | 10 | -0.0000 | -0.1967 | -0.6293 | -0.0004 | -0.0000 | -0.0000 |
| | 11 | -0.0000 | -0.5394 | -25.9922 | -0.0058 | -0.0000 | -0.0000 |
| | 12 | 22.7265 | 0.1738 | -0.6993 | -0.0005 | 0.0020 | -0.0055 |
| | 13 | -22.7255 | -0.6509 | -1.2621 | -0.0007 | -0.0020 | 0.0054 |
| | 14 | -0.0000 | -0.2373 | -0.8885 | -0.0006 | -0.0000 | -0.0001 |
| | 15 | -0.0000 | -0.5115 | -21.1788 | -0.0049 | -0.0000 | -0.0001 |
| 34 | 7 | 0.0000 | -0.2487 | -1.0397 | -0.0006 | 0.0000 | 0.0001 |
| | 8 | 28.4069 | -0.7137 | -1.0964 | -0.0006 | 0.0025 | -0.0067 |
| | 9 | -28.4081 | 0.3173 | -0.3929 | -0.0003 | -0.0025 | 0.0068 |
| | 10 | 0.0000 | -0.1967 | -0.6293 | -0.0004 | 0.0000 | 0.0000 |
| | 11 | 0.0000 | -0.5394 | -25.9922 | -0.0058 | 0.0000 | 0.0000 |
| | 12 | 22.7255 | -0.6509 | -1.2621 | -0.0007 | 0.0020 | -0.0054 |
| | 13 | -22.7265 | 0.1738 | -0.6993 | -0.0005 | -0.0020 | 0.0055 |
| | 14 | 0.0000 | -0.2373 | -0.8885 | -0.0006 | 0.0000 | 0.0001 |
| | 15 | 0.0000 | -0.5115 | -21.1788 | -0.0049 | 0.0000 | 0.0001 |
| 35 | 7 | -0.0000 | -0.1096 | -1.0397 | -0.0005 | 0.0000 | -0.0000 |
| | 8 | 29.2710 | 0.3990 | -0.3929 | -0.0003 | 0.0025 | -0.0070 |
| | 9 | -29.2698 | -0.5976 | -1.0963 | -0.0005 | -0.0025 | 0.0070 |
| | 10 | -0.0000 | -0.1009 | -0.6293 | -0.0004 | 0.0000 | -0.0000 |
| | 11 | -0.0000 | 0.2419 | -25.9935 | -0.0058 | 0.0000 | -0.0000 |
| | 12 | 23.4168 | 0.2911 | -0.6993 | -0.0005 | 0.0020 | -0.0056 |
| | 13 | -23.4158 | -0.5062 | -1.2621 | -0.0006 | -0.0020 | 0.0056 |
| | 14 | -0.0000 | -0.1088 | -0.8885 | -0.0005 | 0.0000 | -0.0000 |
| | 15 | -0.0000 | 0.1654 | -21.1798 | -0.0048 | 0.0000 | -0.0000 |
| 36 | 7 | 0.0000 | -0.1096 | -1.0397 | -0.0005 | -0.0000 | 0.0000 |
| | 8 | 29.2698 | -0.5976 | -1.0963 | -0.0005 | 0.0025 | -0.0070 |
| | 9 | -29.2710 | 0.3990 | -0.3929 | -0.0003 | -0.0025 | 0.0070 |
| | 10 | 0.0000 | -0.1009 | -0.6293 | -0.0004 | -0.0000 | 0.0000 |
| | 11 | 0.0000 | 0.2419 | -25.9935 | -0.0058 | -0.0000 | 0.0000 |
| | 12 | 23.4158 | -0.5062 | -1.2621 | -0.0006 | 0.0020 | -0.0056 |
| | 13 | -23.4168 | 0.2911 | -0.6993 | -0.0005 | -0.0020 | 0.0056 |



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JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

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JOINT LOAD X-TRANS Y-TRANS Z-TRANS X-ROTAN Y-ROTAN Z-ROTAN

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 14 | 0.0000 | -0.1088 | -0.8885 | -0.0005 | -0.0000 | 0.0000 |
| | 15 | 0.0000 | 0.1654 | -21.1798 | -0.0048 | -0.0000 | 0.0000 |
| 37 | 7 | 0.0000 | -0.2704 | -1.2656 | -0.0006 | -0.0000 | -0.0001 |
| | 8 | 31.2366 | 0.3097 | -0.5305 | -0.0004 | 0.0027 | -0.0059 |
| | 9 | -31.2352 | -0.7411 | -1.2818 | -0.0006 | -0.0027 | 0.0057 |
| | 10 | 0.0000 | -0.2141 | -0.7808 | -0.0004 | -0.0000 | -0.0000 |
| | 11 | 0.0000 | -0.5639 | -28.3500 | -0.0047 | -0.0000 | -0.0000 |
| | 12 | 24.9892 | 0.1609 | -0.8932 | -0.0005 | 0.0022 | -0.0047 |
| | 13 | -24.9882 | -0.6797 | -1.4942 | -0.0007 | -0.0022 | 0.0046 |
| | 14 | 0.0000 | -0.2582 | -1.0935 | -0.0006 | -0.0000 | -0.0001 |
| | 15 | 0.0000 | -0.5379 | -23.1488 | -0.0040 | -0.0000 | -0.0001 |
| 38 | 7 | -0.0000 | -0.2704 | -1.2656 | -0.0006 | 0.0000 | 0.0001 |
| | 8 | 31.2352 | -0.7411 | -1.2818 | -0.0006 | 0.0027 | -0.0057 |
| | 9 | -31.2366 | 0.3097 | -0.5305 | -0.0004 | -0.0027 | 0.0059 |
| | 10 | -0.0000 | -0.2141 | -0.7808 | -0.0004 | 0.0000 | 0.0000 |
| | 11 | -0.0000 | -0.5639 | -28.3500 | -0.0047 | 0.0000 | 0.0000 |
| | 12 | 24.9882 | -0.6797 | -1.4942 | -0.0007 | 0.0022 | -0.0046 |
| | 13 | -24.9892 | 0.1609 | -0.8932 | -0.0005 | -0.0022 | 0.0047 |
| | 14 | -0.0000 | -0.2582 | -1.0935 | -0.0006 | 0.0000 | 0.0001 |
| | 15 | -0.0000 | -0.5379 | -23.1488 | -0.0040 | 0.0000 | 0.0001 |
| 39 | 7 | 0.0000 | -0.1230 | -1.2657 | -0.0006 | 0.0000 | -0.0000 |
| | 8 | 32.1607 | 0.3979 | -0.5306 | -0.0004 | 0.0027 | -0.0059 |
| | 9 | -32.1593 | -0.6196 | -1.2818 | -0.0005 | -0.0027 | 0.0059 |
| | 10 | 0.0000 | -0.1125 | -0.7809 | -0.0004 | 0.0000 | -0.0000 |
| | 11 | 0.0000 | 0.2373 | -28.3514 | -0.0047 | 0.0000 | -0.0000 |
| | 12 | 25.7285 | 0.2865 | -0.8934 | -0.0005 | 0.0022 | -0.0048 |
| | 13 | -25.7274 | -0.5276 | -1.4943 | -0.0006 | -0.0022 | 0.0047 |
| | 14 | 0.0000 | -0.1218 | -1.0936 | -0.0005 | 0.0000 | -0.0000 |
| | 15 | 0.0000 | 0.1580 | -23.1500 | -0.0040 | 0.0000 | -0.0000 |
| 40 | 7 | -0.0000 | -0.1230 | -1.2657 | -0.0006 | -0.0000 | 0.0000 |
| | 8 | 32.1593 | -0.6196 | -1.2818 | -0.0005 | 0.0027 | -0.0059 |
| | 9 | -32.1607 | 0.3979 | -0.5306 | -0.0004 | -0.0027 | 0.0059 |
| | 10 | -0.0000 | -0.1125 | -0.7809 | -0.0004 | -0.0000 | 0.0000 |
| | 11 | -0.0000 | 0.2373 | -28.3514 | -0.0047 | -0.0000 | 0.0000 |
| | 12 | 25.7274 | -0.5276 | -1.4943 | -0.0006 | 0.0022 | -0.0047 |
| | 13 | -25.7285 | 0.2865 | -0.8934 | -0.0005 | -0.0022 | 0.0048 |
| | 14 | -0.0000 | -0.1218 | -1.0936 | -0.0005 | -0.0000 | 0.0000 |
| | 15 | -0.0000 | 0.1580 | -23.1500 | -0.0040 | -0.0000 | 0.0000 |
| 41 | 7 | -0.0006 | -0.2888 | -1.4936 | -0.0007 | -0.0000 | -0.0000 |
| | 8 | 33.4710 | 0.2987 | -0.6824 | -0.0005 | 0.0028 | -0.0046 |
| | 9 | -33.4711 | -0.7599 | -1.4563 | -0.0006 | -0.0028 | 0.0047 |
| | 10 | -0.0005 | -0.2291 | -0.9367 | -0.0005 | -0.0000 | -0.0000 |
| | 11 | -0.0005 | -0.5818 | -30.1091 | -0.0036 | -0.0000 | -0.0000 |
| | 12 | 26.7766 | 0.1463 | -1.0992 | -0.0006 | 0.0022 | -0.0037 |
| | 13 | -26.7770 | -0.7006 | -1.7183 | -0.0007 | -0.0022 | 0.0037 |
| | 14 | -0.0006 | -0.2759 | -1.3027 | -0.0007 | -0.0000 | -0.0000 |

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JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

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| JOINT | LOAD | X-TRANS | Y-TRANS | Z-TRANS | X-ROTAN | Y-ROTAN | Z-ROTAN |
|---|---|---|---|---|---|---|---|
| | 15 | -0.0006 | -0.5581 | -24.6406 | -0.0031 | -0.0000 | -0.0000 |
| 42 | 7 | 0.0006 | -0.2888 | -1.4936 | -0.0007 | 0.0000 | 0.0000 |
| | 8 | 33.4711 | -0.7599 | -1.4563 | -0.0006 | 0.0028 | -0.0047 |
| | 9 | -33.4710 | 0.2987 | -0.6824 | -0.0005 | -0.0028 | 0.0046 |
| | 10 | 0.0005 | -0.2291 | -0.9367 | -0.0005 | 0.0000 | 0.0000 |
| | 11 | 0.0005 | -0.5818 | -30.1091 | -0.0036 | 0.0000 | 0.0000 |
| | 12 | 26.7770 | -0.7006 | -1.7183 | -0.0007 | 0.0022 | -0.0037 |
| | 13 | -26.7766 | 0.1463 | -1.0992 | -0.0006 | -0.0022 | 0.0037 |
| | 14 | 0.0006 | -0.2759 | -1.3027 | -0.0007 | 0.0000 | 0.0000 |
| | 15 | 0.0006 | -0.5581 | -24.6406 | -0.0031 | 0.0000 | 0.0000 |
| 43 | 7 | -0.0005 | -0.1358 | -1.4906 | -0.0005 | 0.0000 | 0.0000 |
| | 8 | 34.4244 | 0.3915 | -0.6797 | -0.0003 | 0.0028 | -0.0046 |
| | 9 | -34.4245 | -0.6351 | -1.4535 | -0.0003 | -0.0028 | 0.0047 |
| | 10 | -0.0005 | -0.1235 | -0.9340 | -0.0003 | 0.0000 | 0.0000 |
| | 11 | -0.0005 | 0.2293 | -30.1073 | -0.0033 | 0.0000 | 0.0000 |
| | 12 | 27.5394 | 0.2776 | -1.0963 | -0.0004 | 0.0022 | -0.0037 |
| | 13 | -27.5397 | -0.5437 | -1.7153 | -0.0005 | -0.0022 | 0.0038 |
| | 14 | -0.0005 | -0.1343 | -1.2997 | -0.0004 | 0.0000 | 0.0000 |
| | 15 | -0.0005 | 0.1479 | -24.6384 | -0.0028 | 0.0000 | 0.0000 |
| 44 | 7 | 0.0005 | -0.1358 | -1.4906 | -0.0005 | -0.0000 | -0.0000 |
| | 8 | 34.4245 | -0.6351 | -1.4535 | -0.0003 | 0.0028 | -0.0047 |
| | 9 | -34.4244 | 0.3915 | -0.6797 | -0.0003 | -0.0028 | 0.0046 |
| | 10 | 0.0005 | -0.1235 | -0.9340 | -0.0003 | -0.0000 | -0.0000 |
| | 11 | 0.0005 | 0.2293 | -30.1073 | -0.0033 | -0.0000 | -0.0000 |
| | 12 | 27.5397 | -0.5437 | -1.7153 | -0.0005 | 0.0022 | -0.0038 |
| | 13 | -27.5394 | 0.2776 | -1.0963 | -0.0004 | -0.0022 | 0.0037 |
| | 14 | 0.0005 | -0.1343 | -1.2997 | -0.0004 | -0.0000 | -0.0000 |
| | 15 | 0.0005 | 0.1479 | -24.6384 | -0.0028 | -0.0000 | -0.0000 |
| 49 | 7 | -0.0000 | -0.1009 | -0.0401 | -0.0006 | -0.0000 | -0.0003 |
| | 8 | 3.1609 | 0.1409 | -0.0046 | 0.0003 | 0.0002 | -0.0025 |
| | 9 | -3.1609 | -0.2936 | -0.0531 | -0.0011 | -0.0002 | 0.0021 |
| | 10 | -0.0000 | -0.0726 | -0.0157 | -0.0004 | -0.0000 | -0.0002 |
| | 11 | -0.0000 | -0.9093 | -2.9122 | -0.0077 | -0.0000 | -0.0002 |
| | 12 | 2.5287 | 0.0779 | -0.0185 | 0.0000 | 0.0002 | -0.0021 |
| | 13 | -2.5287 | -0.2697 | -0.0573 | -0.0011 | -0.0001 | 0.0016 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 14 | -0.0000 | -0.0929 | -0.0273 | -0.0005 | -0.0000 | -0.0003 |
| 15 | -0.0000 | -0.7622 | -2.3446 | -0.0064 | -0.0000 | -0.0002 |
| 50 7 | 0.0000 | -0.1009 | -0.0401 | -0.0006 | 0.0000 | 0.0003 |
| 8 | 3.1609 | -0.2936 | -0.0531 | -0.0011 | 0.0002 | -0.0021 |
| 9 | -3.1609 | 0.1409 | -0.0046 | 0.0003 | -0.0002 | 0.0025 |
| 10 | 0.0000 | -0.0726 | -0.0157 | -0.0004 | 0.0000 | 0.0002 |
| 11 | 0.0000 | -0.9093 | -2.9122 | -0.0077 | 0.0000 | 0.0002 |
| 12 | 2.5287 | -0.2697 | -0.0573 | -0.0011 | 0.0001 | -0.0016 |
| 13 | -2.5287 | 0.0779 | -0.0185 | 0.0000 | -0.0002 | 0.0021 |
| 14 | 0.0000 | -0.0929 | -0.0273 | -0.0005 | 0.0000 | 0.0003 |
| 15 | 0.0000 | -0.7622 | -2.3446 | -0.0064 | 0.0000 | 0.0002 |



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JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

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| JOINT | LOAD | X-TRANS | Y-TRANS | Z-TRANS | X-ROTAN | Y-ROTAN | Z-ROTAN |
|---|---|---|---|---|---|---|---|
| 51 | 7 | -0.0000 | -0.1494 | -0.1361 | -0.0007 | -0.0000 | -0.0003 |
| | 8 | 7.3265 | 0.2129 | -0.0204 | 0.0002 | 0.0006 | -0.0033 |
| | 9 | -7.3265 | -0.4413 | -0.1750 | -0.0012 | -0.0006 | 0.0030 |
| | 10 | -0.0000 | -0.1098 | -0.0665 | -0.0004 | -0.0000 | -0.0002 |
| | 11 | -0.0000 | -1.1004 | -6.9334 | -0.0086 | -0.0000 | -0.0002 |
| | 12 | 5.8612 | 0.1194 | -0.0666 | -0.0001 | 0.0005 | -0.0028 |
| | 13 | -5.8612 | -0.4040 | -0.1902 | -0.0012 | -0.0005 | 0.0023 |
| | 14 | -0.0000 | -0.1387 | -0.1034 | -0.0006 | -0.0000 | -0.0003 |
| | 15 | -0.0000 | -0.9312 | -5.5969 | -0.0071 | -0.0000 | -0.0003 |
| 52 | 7 | 0.0000 | -0.1494 | -0.1361 | -0.0007 | 0.0000 | 0.0003 |
| | 8 | 7.3265 | -0.4413 | -0.1750 | -0.0012 | 0.0006 | -0.0030 |
| | 9 | -7.3265 | 0.2129 | -0.0204 | 0.0002 | -0.0006 | 0.0033 |
| | 10 | 0.0000 | -0.1098 | -0.0665 | -0.0004 | 0.0000 | 0.0002 |
| | 11 | 0.0000 | -1.1004 | -6.9334 | -0.0086 | 0.0000 | 0.0002 |
| | 12 | 5.8612 | -0.4040 | -0.1902 | -0.0012 | 0.0005 | -0.0023 |
| | 13 | -5.8612 | 0.1194 | -0.0666 | -0.0001 | -0.0005 | 0.0028 |
| | 14 | 0.0000 | -0.1387 | -0.1034 | -0.0006 | 0.0000 | 0.0003 |
| | 15 | 0.0000 | -0.9312 | -5.5969 | -0.0071 | 0.0000 | 0.0003 |
| 53 | 7 | 0.0000 | -0.1965 | -0.2714 | -0.0007 | -0.0000 | -0.0003 |
| | 8 | 12.0094 | 0.2703 | -0.0524 | 0.0003 | 0.0010 | -0.0041 |
| | 9 | -12.0094 | -0.5721 | -0.3370 | -0.0013 | -0.0010 | 0.0037 |
| | 10 | 0.0000 | -0.1458 | -0.1436 | -0.0005 | -0.0000 | -0.0002 |
| | 11 | -0.0000 | -1.2728 | -11.3785 | -0.0094 | -0.0000 | -0.0002 |
| | 12 | 9.6075 | 0.1496 | -0.1422 | -0.0001 | 0.0008 | -0.0034 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 13 | -9.6075 | -0.5243 | -0.3699 | -0.0013 | -0.0008 | 0.0029 |
| | 14 | 0.0000 | -0.1833 | -0.2152 | -0.0007 | -0.0000 | -0.0003 |
| | 15 | -0.0000 | -1.0849 | -9.2030 | -0.0078 | -0.0000 | -0.0003 |
| 54 | 7 | -0.0000 | -0.1965 | -0.2714 | -0.0007 | 0.0000 | 0.0003 |
| | 8 | 12.0094 | -0.5721 | -0.3370 | -0.0013 | 0.0010 | -0.0037 |
| | 9 | -12.0094 | 0.2703 | -0.0524 | 0.0003 | -0.0010 | 0.0041 |
| | 10 | -0.0000 | -0.1458 | -0.1436 | -0.0005 | 0.0000 | 0.0002 |
| | 11 | 0.0000 | -1.2728 | -11.3785 | -0.0094 | 0.0000 | 0.0002 |
| | 12 | 9.6075 | -0.5243 | -0.3699 | -0.0013 | 0.0008 | -0.0029 |
| | 13 | -9.6075 | 0.1496 | -0.1422 | -0.0001 | -0.0008 | 0.0034 |
| | 14 | -0.0000 | -0.1833 | -0.2152 | -0.0007 | 0.0000 | 0.0003 |
| | 15 | 0.0000 | -1.0849 | -9.2030 | -0.0078 | 0.0000 | 0.0003 |
| 55 | 7 | 0.0000 | -0.2374 | -0.4356 | -0.0008 | 0.0000 | -0.0003 |
| | 8 | 16.6730 | 0.2964 | -0.1027 | 0.0001 | 0.0015 | -0.0044 |
| | 9 | -16.6730 | -0.6624 | -0.5220 | -0.0013 | -0.0015 | 0.0040 |
| | 10 | 0.0000 | -0.1780 | -0.2420 | -0.0005 | 0.0000 | -0.0002 |
| | 11 | 0.0000 | -1.2885 | -15.7240 | -0.0089 | 0.0000 | -0.0002 |
| | 12 | 13.3384 | 0.1570 | -0.2432 | -0.0002 | 0.0012 | -0.0036 |
| | 13 | -13.3384 | -0.6100 | -0.5787 | -0.0013 | -0.0012 | 0.0031 |
| | 14 | 0.0000 | -0.2225 | -0.3547 | -0.0007 | 0.0000 | -0.0003 |
| | 15 | 0.0000 | -1.1109 | -12.7403 | -0.0074 | 0.0000 | -0.0003 |
| 56 | 7 | -0.0000 | -0.2374 | -0.4356 | -0.0008 | -0.0000 | 0.0003 |



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JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

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JOINT LOAD X-TRANS Y-TRANS Z-TRANS X-ROTAN Y-ROTAN Z-ROTAN

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 8 | 16.6730 | -0.6624 | -0.5220 | -0.0013 | 0.0015 | -0.0040 |
| | 9 | -16.6730 | 0.2964 | -0.1027 | 0.0001 | -0.0015 | 0.0044 |
| | 10 | -0.0000 | -0.1780 | -0.2420 | -0.0005 | -0.0000 | 0.0002 |
| | 11 | -0.0000 | -1.2885 | -15.7240 | -0.0089 | -0.0000 | 0.0002 |
| | 12 | 13.3384 | -0.6100 | -0.5787 | -0.0013 | 0.0012 | -0.0031 |
| | 13 | -13.3384 | 0.1570 | -0.2432 | -0.0002 | -0.0012 | 0.0036 |
| | 14 | -0.0000 | -0.2225 | -0.3547 | -0.0007 | -0.0000 | 0.0003 |
| | 15 | -0.0000 | -1.1109 | -12.7403 | -0.0074 | -0.0000 | 0.0003 |
| 57 | 7 | 0.0000 | -0.2740 | -0.6209 | -0.0009 | -0.0000 | -0.0003 |
| | 8 | 20.9685 | 0.3050 | -0.1768 | -0.0000 | 0.0019 | -0.0046 |
| | 9 | -20.9685 | -0.7284 | -0.7132 | -0.0012 | -0.0019 | 0.0042 |
| | 10 | -0.0000 | -0.2070 | -0.3573 | -0.0006 | -0.0000 | -0.0002 |
| | 11 | 0.0000 | -1.2599 | -19.6507 | -0.0080 | 0.0000 | -0.0002 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 12 | 16.7748 | 0.1519 | -0.3712 | -0.0003 | 0.0016 | -0.0038 |
| | 13 | -16.7748 | -0.6749 | -0.8003 | -0.0013 | -0.0015 | 0.0032 |
| | 14 | 0.0000 | -0.2577 | -0.5156 | -0.0008 | -0.0000 | -0.0003 |
| | 15 | 0.0000 | -1.1000 | -15.9503 | -0.0067 | 0.0000 | -0.0003 |
| 58 | 7 | -0.0000 | -0.2740 | -0.6209 | -0.0009 | 0.0000 | 0.0003 |
| | 8 | 20.9685 | -0.7284 | -0.7132 | -0.0012 | 0.0019 | -0.0042 |
| | 9 | -20.9685 | 0.3050 | -0.1768 | -0.0000 | -0.0019 | 0.0046 |
| | 10 | -0.0000 | -0.2070 | -0.3573 | -0.0006 | 0.0000 | 0.0002 |
| | 11 | -0.0000 | -1.2599 | -19.6507 | -0.0080 | -0.0000 | 0.0002 |
| | 12 | 16.7748 | -0.6749 | -0.8003 | -0.0013 | 0.0015 | -0.0032 |
| | 13 | -16.7748 | 0.1519 | -0.3712 | -0.0003 | -0.0016 | 0.0038 |
| | 14 | -0.0000 | -0.2577 | -0.5156 | -0.0008 | 0.0000 | 0.0003 |
| | 15 | -0.0000 | -1.1000 | -15.9503 | -0.0067 | -0.0000 | 0.0003 |
| 59 | 7 | 0.0000 | -0.3062 | -0.8234 | -0.0009 | 0.0000 | -0.0003 |
| | 8 | 24.8098 | 0.3009 | -0.2742 | -0.0002 | 0.0023 | -0.0046 |
| | 9 | -24.8098 | -0.7752 | -0.9056 | -0.0011 | -0.0023 | 0.0042 |
| | 10 | 0.0000 | -0.2328 | -0.4872 | -0.0006 | 0.0000 | -0.0002 |
| | 11 | 0.0000 | -1.2080 | -23.0840 | -0.0071 | 0.0000 | -0.0002 |
| | 12 | 19.8478 | 0.1381 | -0.5242 | -0.0005 | 0.0018 | -0.0038 |
| | 13 | -19.8478 | -0.7228 | -1.0293 | -0.0012 | -0.0018 | 0.0033 |
| | 14 | 0.0000 | -0.2889 | -0.6945 | -0.0008 | 0.0000 | -0.0003 |
| | 15 | 0.0000 | -1.0691 | -18.7720 | -0.0060 | 0.0000 | -0.0003 |
| 60 | 7 | -0.0000 | -0.3062 | -0.8234 | -0.0009 | -0.0000 | 0.0003 |
| | 8 | 24.8098 | -0.7752 | -0.9056 | -0.0011 | 0.0023 | -0.0042 |
| | 9 | -24.8098 | 0.3009 | -0.2742 | -0.0002 | -0.0023 | 0.0046 |
| | 10 | -0.0000 | -0.2328 | -0.4872 | -0.0006 | -0.0000 | 0.0002 |
| | 11 | -0.0000 | -1.2080 | -23.0840 | -0.0071 | -0.0000 | 0.0002 |
| | 12 | 19.8478 | -0.7228 | -1.0293 | -0.0012 | 0.0018 | -0.0033 |
| | 13 | -19.8478 | 0.1381 | -0.5242 | -0.0005 | -0.0018 | 0.0038 |
| | 14 | -0.0000 | -0.2889 | -0.6945 | -0.0008 | -0.0000 | 0.0003 |
| | 15 | -0.0000 | -1.0691 | -18.7720 | -0.0060 | -0.0000 | 0.0003 |
| 61 | 7 | 0.0000 | -0.3347 | -1.0397 | -0.0009 | -0.0000 | -0.0003 |
| | 8 | 28.1530 | 0.2870 | -0.3929 | -0.0003 | 0.0026 | -0.0045 |



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JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

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| JOINT | LOAD | X-TRANS | Y-TRANS | Z-TRANS | X-ROTAN | Y-ROTAN | Z-ROTAN |
|---|---|---|---|---|---|---|---|

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 9 | -28.1530 | -0.8065 | -1.0964 | -0.0010 | -0.0025 | 0.0041 |
| | 10 | 0.0000 | -0.2558 | -0.6293 | -0.0006 | -0.0000 | -0.0002 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 11 | 0.0000 | -1.1395 | -25.9922 | -0.0061 | -0.0000 | -0.0002 |
| | 12 | 22.5224 | 0.1177 | -0.6993 | -0.0006 | 0.0020 | -0.0037 |
| | 13 | -22.5224 | -0.7571 | -1.2621 | -0.0012 | -0.0020 | 0.0032 |
| | 14 | 0.0000 | -0.3165 | -0.8885 | -0.0009 | -0.0000 | -0.0003 |
| | 15 | 0.0000 | -1.0235 | -21.1788 | -0.0052 | -0.0000 | -0.0003 |
| 62 | 7 | -0.0000 | -0.3347 | -1.0397 | -0.0009 | 0.0000 | 0.0003 |
| | 8 | 28.1530 | -0.8065 | -1.0964 | -0.0010 | 0.0025 | -0.0041 |
| | 9 | -28.1530 | 0.2870 | -0.3929 | -0.0003 | -0.0026 | 0.0045 |
| | 10 | -0.0000 | -0.2558 | -0.6293 | -0.0006 | 0.0000 | 0.0002 |
| | 11 | -0.0000 | -1.1395 | -25.9922 | -0.0061 | 0.0000 | 0.0002 |
| | 12 | 22.5224 | -0.7571 | -1.2621 | -0.0012 | 0.0020 | -0.0032 |
| | 13 | -22.5224 | 0.1177 | -0.6993 | -0.0006 | -0.0020 | 0.0037 |
| | 14 | -0.0000 | -0.3165 | -0.8885 | -0.0009 | 0.0000 | 0.0003 |
| | 15 | -0.0000 | -1.0235 | -21.1788 | -0.0052 | 0.0000 | 0.0003 |
| 63 | 7 | 0.0000 | -0.3568 | -1.2656 | -0.0009 | 0.0000 | -0.0003 |
| | 8 | 30.9639 | 0.2688 | -0.5305 | -0.0004 | 0.0027 | -0.0044 |
| | 9 | -30.9639 | -0.8231 | -1.2818 | -0.0009 | -0.0027 | 0.0040 |
| | 10 | 0.0000 | -0.2736 | -0.7808 | -0.0007 | 0.0000 | -0.0002 |
| | 11 | 0.0000 | -1.0525 | -28.3500 | -0.0049 | 0.0000 | -0.0002 |
| | 12 | 24.7711 | 0.0960 | -0.8932 | -0.0007 | 0.0022 | -0.0036 |
| | 13 | -24.7711 | -0.7776 | -1.4942 | -0.0011 | -0.0022 | 0.0031 |
| | 14 | 0.0000 | -0.3380 | -1.0935 | -0.0009 | 0.0000 | -0.0003 |
| | 15 | 0.0000 | -0.9611 | -23.1488 | -0.0043 | 0.0000 | -0.0003 |
| 64 | 7 | -0.0000 | -0.3568 | -1.2656 | -0.0009 | -0.0000 | 0.0003 |
| | 8 | 30.9639 | -0.8231 | -1.2818 | -0.0009 | 0.0027 | -0.0040 |
| | 9 | -30.9639 | 0.2688 | -0.5305 | -0.0004 | -0.0027 | 0.0044 |
| | 10 | -0.0000 | -0.2736 | -0.7808 | -0.0007 | -0.0000 | 0.0002 |
| | 11 | -0.0000 | -1.0525 | -28.3500 | -0.0049 | -0.0000 | 0.0002 |
| | 12 | 24.7711 | -0.7776 | -1.4942 | -0.0011 | 0.0022 | -0.0031 |
| | 13 | -24.7711 | 0.0960 | -0.8932 | -0.0007 | -0.0022 | 0.0036 |
| | 14 | -0.0000 | -0.3380 | -1.0935 | -0.0009 | -0.0000 | 0.0003 |
| | 15 | -0.0000 | -0.9611 | -23.1488 | -0.0043 | -0.0000 | 0.0003 |
| 65 | 7 | 0.0002 | -0.2938 | -1.5592 | -0.0001 | -0.0000 | -0.0001 |
| | 8 | 34.0104 | 0.2951 | -0.7256 | -0.0000 | 0.0028 | -0.0044 |
| | 9 | -34.0094 | -0.7644 | -1.5057 | -0.0000 | -0.0028 | 0.0041 |
| | 10 | 0.0002 | -0.2331 | -0.9815 | -0.0000 | -0.0000 | -0.0001 |
| | 11 | 0.0002 | -0.5862 | -30.4968 | -0.0026 | -0.0000 | -0.0001 |
| | 12 | 27.2084 | 0.1419 | -1.1584 | -0.0001 | 0.0023 | -0.0035 |
| | 13 | -27.2075 | -0.7057 | -1.7826 | -0.0001 | -0.0023 | 0.0033 |
| | 14 | 0.0002 | -0.2807 | -1.3632 | -0.0001 | -0.0000 | -0.0001 |
| | 15 | 0.0002 | -0.5632 | -24.9754 | -0.0022 | -0.0000 | -0.0001 |
| 66 | 7 | -0.0002 | -0.2938 | -1.5592 | -0.0001 | 0.0000 | 0.0001 |
| | 8 | 34.0094 | -0.7644 | -1.5057 | -0.0000 | 0.0028 | -0.0041 |
| | 9 | -34.0104 | 0.2951 | -0.7256 | -0.0000 | -0.0028 | 0.0044 |

JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

| JOINT | LOAD | X-TRANS | Y-TRANS | Z-TRANS | X-ROTAN | Y-ROTAN | Z-ROTAN |
|---|---|---|---|---|---|---|---|
| | 10 | -0.0002 | -0.2331 | -0.9815 | -0.0000 | 0.0000 | 0.0001 |
| | 11 | -0.0002 | -0.5862 | -30.4968 | -0.0026 | 0.0000 | 0.0001 |
| | 12 | 27.2075 | -0.7057 | -1.7826 | -0.0001 | 0.0023 | -0.0033 |
| | 13 | -27.2084 | 0.1419 | -1.1584 | -0.0001 | -0.0023 | 0.0035 |
| | 14 | -0.0002 | -0.2807 | -1.3632 | -0.0001 | 0.0000 | 0.0001 |
| | 15 | -0.0002 | -0.5632 | -24.9754 | -0.0022 | 0.0000 | 0.0001 |
| 67 | 7 | 0.0002 | -0.1398 | -1.5604 | -0.0009 | 0.0000 | -0.0001 |
| | 8 | 34.9618 | 0.3888 | -0.7269 | -0.0007 | 0.0028 | -0.0044 |
| | 9 | -34.9608 | -0.6392 | -1.5070 | -0.0008 | -0.0028 | 0.0040 |
| | 10 | 0.0002 | -0.1268 | -0.9828 | -0.0007 | 0.0000 | -0.0001 |
| | 11 | 0.0002 | 0.2264 | -30.4987 | -0.0033 | 0.0000 | -0.0001 |
| | 12 | 27.9695 | 0.2743 | -1.1597 | -0.0009 | 0.0023 | -0.0035 |
| | 13 | -27.9686 | -0.5481 | -1.7837 | -0.0009 | -0.0023 | 0.0032 |
| | 14 | 0.0002 | -0.1382 | -1.3644 | -0.0009 | 0.0000 | -0.0001 |
| | 15 | 0.0002 | 0.1444 | -24.9771 | -0.0030 | 0.0000 | -0.0001 |
| 68 | 7 | -0.0002 | -0.1398 | -1.5604 | -0.0009 | -0.0000 | 0.0001 |
| | 8 | 34.9608 | -0.6392 | -1.5070 | -0.0008 | 0.0028 | -0.0040 |
| | 9 | -34.9618 | 0.3888 | -0.7269 | -0.0007 | -0.0028 | 0.0044 |
| | 10 | -0.0002 | -0.1268 | -0.9828 | -0.0007 | -0.0000 | 0.0001 |
| | 11 | -0.0002 | 0.2264 | -30.4987 | -0.0033 | -0.0000 | 0.0001 |
| | 12 | 27.9686 | -0.5481 | -1.7837 | -0.0009 | 0.0023 | -0.0032 |
| | 13 | -27.9695 | 0.2743 | -1.1597 | -0.0009 | -0.0023 | 0.0035 |
| | 14 | -0.0002 | -0.1382 | -1.3644 | -0.0009 | -0.0000 | 0.0001 |
| | 15 | -0.0002 | 0.1444 | -24.9771 | -0.0030 | -0.0000 | 0.0001 |
| 69 | 7 | -0.0003 | -0.1422 | -1.7071 | -0.0007 | -0.0000 | 0.0001 |
| | 8 | 36.0167 | -0.6413 | -1.6146 | -0.0005 | 0.0028 | -0.0039 |
| | 9 | -36.0176 | 0.3875 | -0.8284 | -0.0005 | -0.0028 | 0.0039 |
| | 10 | -0.0002 | -0.1286 | -1.0844 | -0.0005 | -0.0000 | 0.0001 |
| | 11 | -0.0002 | 0.2249 | -31.2429 | -0.0027 | -0.0000 | 0.0001 |
| | 12 | 28.8132 | -0.5506 | -1.9245 | -0.0007 | 0.0023 | -0.0031 |
| | 13 | -28.8141 | 0.2724 | -1.2955 | -0.0006 | -0.0023 | 0.0032 |
| | 14 | -0.0003 | -0.1405 | -1.5004 | -0.0007 | -0.0000 | 0.0001 |
| | 15 | -0.0003 | 0.1423 | -25.6271 | -0.0025 | -0.0000 | 0.0001 |
| 70 | 7 | -0.0004 | -0.2980 | -1.7056 | -0.0005 | 0.0000 | 0.0002 |
| | 8 | 35.0737 | -0.7677 | -1.6133 | -0.0004 | 0.0028 | -0.0039 |
| | 9 | -35.0746 | 0.2923 | -0.8272 | -0.0004 | -0.0028 | 0.0040 |
| | 10 | -0.0003 | -0.2361 | -1.0832 | -0.0004 | 0.0000 | 0.0001 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 11 | -0.0003 | -0.5895 | -31.2413 | -0.0027 | 0.0000 | 0.0001 |
| | 12 | 28.0588 | -0.7099 | -1.9230 | -0.0005 | 0.0023 | -0.0030 |
| | 13 | -28.0598 | 0.1381 | -1.2941 | -0.0005 | -0.0023 | 0.0033 |
| | 14 | -0.0004 | -0.2846 | -1.4989 | -0.0005 | 0.0000 | 0.0002 |
| | 15 | -0.0004 | -0.5673 | -25.6253 | -0.0023 | 0.0000 | 0.0002 |
| 71 | 7 | 0.0004 | -0.2980 | -1.7056 | -0.0005 | -0.0000 | -0.0002 |
| | 8 | 35.0746 | 0.2923 | -0.8272 | -0.0004 | 0.0028 | -0.0040 |
| | 9 | -35.0737 | -0.7677 | -1.6133 | -0.0004 | -0.0028 | 0.0039 |
| | 10 | 0.0003 | -0.2361 | -1.0832 | -0.0004 | -0.0000 | -0.0001 |



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JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

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| JOINT | LOAD | X-TRANS | Y-TRANS | Z-TRANS | X-ROTAN | Y-ROTAN | Z-ROTAN |
|---|---|---|---|---|---|---|---|
| | 11 | 0.0003 | -0.5895 | -31.2413 | -0.0027 | -0.0000 | -0.0001 |
| | 12 | 28.0598 | 0.1381 | -1.2941 | -0.0005 | 0.0023 | -0.0033 |
| | 13 | -28.0588 | -0.7099 | -1.9230 | -0.0005 | -0.0023 | 0.0030 |
| | 14 | 0.0004 | -0.2846 | -1.4989 | -0.0005 | -0.0000 | -0.0002 |
| | 15 | 0.0004 | -0.5673 | -25.6253 | -0.0023 | -0.0000 | -0.0002 |
| 72 | 7 | 0.0003 | -0.1422 | -1.7071 | -0.0007 | 0.0000 | -0.0001 |
| | 8 | 36.0176 | 0.3875 | -0.8284 | -0.0005 | 0.0028 | -0.0039 |
| | 9 | -36.0167 | -0.6413 | -1.6146 | -0.0005 | -0.0028 | 0.0039 |
| | 10 | 0.0002 | -0.1286 | -1.0844 | -0.0005 | 0.0000 | -0.0001 |
| | 11 | 0.0002 | 0.2249 | -31.2429 | -0.0027 | 0.0000 | -0.0001 |
| | 12 | 28.8141 | 0.2724 | -1.2955 | -0.0006 | 0.0023 | -0.0032 |
| | 13 | -28.8132 | -0.5506 | -1.9245 | -0.0007 | -0.0023 | 0.0031 |
| | 14 | 0.0003 | -0.1405 | -1.5004 | -0.0007 | 0.0000 | -0.0001 |
| | 15 | 0.0003 | 0.1423 | -25.6271 | -0.0025 | 0.0000 | -0.0001 |
| 73 | 7 | -0.0000 | -0.3823 | -1.4936 | -0.0010 | -0.0000 | -0.0003 |
| | 8 | 33.1903 | 0.2389 | -0.6824 | -0.0006 | 0.0028 | -0.0042 |
| | 9 | -33.1903 | -0.8369 | -1.4563 | -0.0008 | -0.0028 | 0.0038 |
| | 10 | -0.0000 | -0.2961 | -0.9367 | -0.0007 | -0.0000 | -0.0002 |
| | 11 | -0.0000 | -0.9533 | -30.1091 | -0.0038 | -0.0000 | -0.0002 |
| | 12 | 26.5523 | 0.0647 | -1.0992 | -0.0009 | 0.0022 | -0.0034 |
| | 13 | -26.5523 | -0.7960 | -1.7183 | -0.0010 | -0.0022 | 0.0030 |
| | 14 | -0.0000 | -0.3633 | -1.3027 | -0.0009 | -0.0000 | -0.0002 |
| | 15 | -0.0000 | -0.8891 | -24.6406 | -0.0034 | -0.0000 | -0.0002 |
| 74 | 7 | 0.0000 | -0.3823 | -1.4936 | -0.0010 | 0.0000 | 0.0003 |
| | 8 | 33.1903 | -0.8369 | -1.4563 | -0.0008 | 0.0028 | -0.0038 |
| | 9 | -33.1903 | 0.2389 | -0.6824 | -0.0006 | -0.0028 | 0.0042 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 10 | 0.0000 | -0.2961 | -0.9367 | -0.0007 | 0.0000 | 0.0002 |
| | 11 | 0.0000 | -0.9533 | -30.1091 | -0.0038 | 0.0000 | 0.0002 |
| | 12 | 26.5523 | -0.7960 | -1.7183 | -0.0010 | 0.0022 | -0.0030 |
| | 13 | -26.5523 | 0.0647 | -1.0992 | -0.0009 | -0.0022 | 0.0034 |
| | 14 | 0.0000 | -0.3633 | -1.3027 | -0.0009 | 0.0000 | 0.0002 |
| | 15 | 0.0000 | -0.8891 | -24.6406 | -0.0034 | 0.0000 | 0.0002 |
| 75 | 7 | 0.0000 | -0.3091 | -1.5600 | -0.0013 | 0.0000 | -0.0014 |
| | 8 | 34.6444 | 0.2555 | -0.7264 | -0.0010 | 0.0028 | -0.0051 |
| | 9 | -34.6444 | -0.7873 | -1.5066 | -0.0011 | -0.0028 | 0.0026 |
| | 10 | 0.0000 | -0.2664 | -0.9823 | -0.0010 | 0.0000 | -0.0012 |
| | 11 | 0.0000 | -0.1623 | -30.4981 | -0.0030 | 0.0000 | -0.0012 |
| | 12 | 27.7155 | 0.1167 | -1.1592 | -0.0012 | 0.0023 | -0.0045 |
| | 13 | -27.7155 | -0.7175 | -1.7834 | -0.0013 | -0.0023 | 0.0017 |
| | 14 | 0.0000 | -0.3008 | -1.3640 | -0.0012 | 0.0000 | -0.0014 |
| | 15 | 0.0000 | -0.2176 | -24.9766 | -0.0028 | 0.0000 | -0.0014 |
| 76 | 7 | 0.0000 | -0.3568 | -1.5596 | 0.0004 | -0.0000 | -0.0014 |
| | 8 | 34.3269 | 0.2279 | -0.7260 | 0.0005 | 0.0028 | -0.0051 |
| | 9 | -34.3269 | -0.8274 | -1.5061 | 0.0004 | -0.0028 | 0.0026 |
| | 10 | 0.0000 | -0.2993 | -0.9819 | 0.0004 | -0.0000 | -0.0012 |
| | 11 | 0.0000 | -0.4062 | -30.4974 | -0.0015 | -0.0000 | -0.0012 |



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JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

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| JOINT | LOAD | X-TRANS | Y-TRANS | Z-TRANS | X-ROTAN | Y-ROTAN | Z-ROTAN |
|---|---|---|---|---|---|---|---|
| | 12 | 27.4615 | 0.0768 | -1.1588 | 0.0004 | 0.0023 | -0.0045 |
| | 13 | -27.4615 | -0.7675 | -1.7830 | 0.0004 | -0.0023 | 0.0017 |
| | 14 | 0.0000 | -0.3450 | -1.3636 | 0.0004 | -0.0000 | -0.0014 |
| | 15 | 0.0000 | -0.4305 | -24.9760 | -0.0012 | -0.0000 | -0.0014 |
| 77 | 7 | -0.0000 | -0.3568 | -1.5596 | 0.0004 | 0.0000 | 0.0014 |
| | 8 | 34.3269 | -0.8274 | -1.5061 | 0.0004 | 0.0028 | -0.0026 |
| | 9 | -34.3269 | 0.2279 | -0.7260 | 0.0005 | -0.0028 | 0.0051 |
| | 10 | -0.0000 | -0.2993 | -0.9819 | 0.0004 | 0.0000 | 0.0012 |
| | 11 | -0.0000 | -0.4062 | -30.4974 | -0.0015 | 0.0000 | 0.0012 |
| | 12 | 27.4615 | -0.7675 | -1.7830 | 0.0004 | 0.0023 | -0.0017 |
| | 13 | -27.4615 | 0.0768 | -1.1588 | 0.0004 | -0.0023 | 0.0045 |
| | 14 | -0.0000 | -0.3450 | -1.3636 | 0.0004 | 0.0000 | 0.0014 |
| | 15 | -0.0000 | -0.4305 | -24.9760 | -0.0012 | 0.0000 | 0.0014 |
| 78 | 7 | -0.0000 | -0.3091 | -1.5600 | -0.0013 | -0.0000 | 0.0014 |
| | 8 | 34.6444 | -0.7873 | -1.5066 | -0.0011 | 0.0028 | -0.0026 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 9 | -34.6444 | 0.2555 | -0.7264 | -0.0010 | -0.0028 | 0.0051 |
| | 10 | -0.0000 | -0.2664 | -0.9823 | -0.0010 | -0.0000 | 0.0012 |
| | 11 | -0.0000 | -0.1623 | -30.4981 | -0.0030 | -0.0000 | 0.0012 |
| | 12 | 27.7155 | -0.7175 | -1.7834 | -0.0013 | 0.0023 | -0.0017 |
| | 13 | -27.7155 | 0.1167 | -1.1592 | -0.0012 | -0.0023 | 0.0045 |
| | 14 | -0.0000 | -0.3008 | -1.3640 | -0.0012 | -0.0000 | 0.0014 |
| | 15 | -0.0000 | -0.2176 | -24.9766 | -0.0028 | -0.0000 | 0.0014 |
| 79 | 7 | 0.0000 | -0.3711 | -1.7056 | -0.0008 | 0.0000 | -0.0003 |
| | 8 | 34.7908 | 0.2396 | -0.8272 | -0.0006 | 0.0028 | -0.0041 |
| | 9 | -34.7907 | -0.8262 | -1.6133 | -0.0006 | -0.0028 | 0.0037 |
| | 10 | 0.0000 | -0.2907 | -1.0832 | -0.0006 | 0.0000 | -0.0002 |
| | 11 | 0.0000 | -0.8772 | -31.2413 | -0.0029 | 0.0000 | -0.0002 |
| | 12 | 27.8326 | 0.0708 | -1.2941 | -0.0007 | 0.0023 | -0.0034 |
| | 13 | -27.8326 | -0.7818 | -1.9230 | -0.0008 | -0.0023 | 0.0028 |
| | 14 | 0.0000 | -0.3534 | -1.4989 | -0.0008 | 0.0000 | -0.0003 |
| | 15 | 0.0000 | -0.8226 | -25.6253 | -0.0026 | 0.0000 | -0.0003 |
| 80 | 7 | -0.0000 | -0.3711 | -1.7056 | -0.0008 | -0.0000 | 0.0003 |
| | 8 | 34.7907 | -0.8262 | -1.6133 | -0.0006 | 0.0028 | -0.0037 |
| | 9 | -34.7908 | 0.2396 | -0.8272 | -0.0006 | -0.0028 | 0.0041 |
| | 10 | -0.0000 | -0.2907 | -1.0832 | -0.0006 | -0.0000 | 0.0002 |
| | 11 | -0.0000 | -0.8772 | -31.2413 | -0.0029 | -0.0000 | 0.0002 |
| | 12 | 27.8326 | -0.7818 | -1.9230 | -0.0008 | 0.0023 | -0.0028 |
| | 13 | -27.8326 | 0.0708 | -1.2941 | -0.0007 | -0.0023 | 0.0034 |
| | 14 | -0.0000 | -0.3534 | -1.4989 | -0.0008 | -0.0000 | 0.0003 |
| | 15 | -0.0000 | -0.8226 | -25.6253 | -0.0026 | -0.0000 | 0.0003 |
| 81 | 7 | 0.0000 | -0.2403 | -1.7066 | -0.0007 | 0.0000 | -0.0006 |
| | 8 | 35.7027 | 0.3256 | -0.8280 | -0.0004 | 0.0028 | -0.0042 |
| | 9 | -35.7027 | -0.7140 | -1.6142 | -0.0006 | -0.0028 | 0.0034 |
| | 10 | 0.0000 | -0.1947 | -1.0840 | -0.0005 | 0.0000 | -0.0004 |
| | 11 | 0.0000 | -0.0791 | -31.2424 | -0.0025 | 0.0000 | -0.0004 |
| | 12 | 28.5622 | 0.1848 | -1.2951 | -0.0006 | 0.0023 | -0.0036 |



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JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

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| JOINT | LOAD | X-TRANS | Y-TRANS | Z-TRANS | X-ROTAN | Y-ROTAN | Z-ROTAN |
|---|---|---|---|---|---|---|---|

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 13 | -28.5622 | -0.6469 | -1.9240 | -0.0007 | -0.0022 | 0.0025 |
| | 14 | 0.0000 | -0.2315 | -1.4999 | -0.0007 | 0.0000 | -0.0005 |
| | 15 | 0.0000 | -0.1390 | -25.6265 | -0.0023 | 0.0000 | -0.0005 |
| 82 | 7 | 0.0000 | -0.2848 | -1.7061 | -0.0001 | -0.0000 | -0.0006 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 8 | 35.3888 | 0.3002 | -0.8276 | -0.0000 | 0.0028 | -0.0042 |
| | 9 | -35.3888 | -0.7517 | -1.6138 | -0.0001 | -0.0028 | 0.0034 |
| | 10 | 0.0000 | -0.2253 | -1.0836 | -0.0001 | -0.0000 | -0.0004 |
| | 11 | 0.0000 | -0.3358 | -31.2418 | -0.0021 | -0.0000 | -0.0004 |
| | 12 | 28.3111 | 0.1478 | -1.2946 | -0.0001 | 0.0022 | -0.0036 |
| | 13 | -28.3111 | -0.6937 | -1.9235 | -0.0001 | -0.0023 | 0.0025 |
| | 14 | 0.0000 | -0.2726 | -1.4994 | -0.0001 | -0.0000 | -0.0005 |
| | 15 | 0.0000 | -0.3610 | -25.6259 | -0.0017 | -0.0000 | -0.0005 |
| 83 | 7 | -0.0000 | -0.2848 | -1.7061 | -0.0001 | 0.0000 | 0.0006 |
| | 8 | 35.3888 | -0.7517 | -1.6138 | -0.0001 | 0.0028 | -0.0034 |
| | 9 | -35.3888 | 0.3002 | -0.8276 | -0.0000 | -0.0028 | 0.0042 |
| | 10 | -0.0000 | -0.2253 | -1.0836 | -0.0001 | 0.0000 | 0.0004 |
| | 11 | -0.0000 | -0.3358 | -31.2418 | -0.0021 | 0.0000 | 0.0004 |
| | 12 | 28.3111 | -0.6937 | -1.9235 | -0.0001 | 0.0023 | -0.0025 |
| | 13 | -28.3111 | 0.1478 | -1.2946 | -0.0001 | -0.0022 | 0.0036 |
| | 14 | -0.0000 | -0.2726 | -1.4994 | -0.0001 | 0.0000 | 0.0005 |
| | 15 | -0.0000 | -0.3610 | -25.6259 | -0.0017 | 0.0000 | 0.0005 |
| 84 | 7 | -0.0000 | -0.2403 | -1.7066 | -0.0007 | -0.0000 | 0.0006 |
| | 8 | 35.7027 | -0.7140 | -1.6142 | -0.0006 | 0.0028 | -0.0034 |
| | 9 | -35.7027 | 0.3256 | -0.8280 | -0.0004 | -0.0028 | 0.0042 |
| | 10 | -0.0000 | -0.1947 | -1.0840 | -0.0005 | -0.0000 | 0.0004 |
| | 11 | -0.0000 | -0.0791 | -31.2424 | -0.0025 | -0.0000 | 0.0004 |
| | 12 | 28.5622 | -0.6469 | -1.9240 | -0.0007 | 0.0022 | -0.0025 |
| | 13 | -28.5622 | 0.1848 | -1.2951 | -0.0006 | -0.0023 | 0.0036 |
| | 14 | -0.0000 | -0.2315 | -1.4999 | -0.0007 | -0.0000 | 0.0005 |
| | 15 | -0.0000 | -0.1390 | -25.6265 | -0.0023 | -0.0000 | 0.0005 |
| 85 | 7 | -0.0025 | -0.0475 | -0.0335 | -0.0002 | -0.0000 | -0.0001 |
| | 8 | 2.9855 | 0.1090 | -0.0056 | 0.0000 | 0.0002 | -0.0073 |
| | 9 | -2.9870 | -0.1847 | -0.0427 | -0.0003 | -0.0002 | 0.0073 |
| | 10 | -0.0018 | -0.0374 | -0.0119 | -0.0001 | -0.0000 | -0.0001 |
| | 11 | -0.0025 | -0.1343 | -2.7094 | -0.0075 | -0.0000 | -0.0001 |
| | 12 | 2.3875 | 0.0719 | -0.0168 | -0.0001 | 0.0001 | -0.0059 |
| | 13 | -2.3905 | -0.1631 | -0.0465 | -0.0004 | -0.0001 | 0.0058 |
| | 14 | -0.0024 | -0.0452 | -0.0218 | -0.0002 | -0.0000 | -0.0001 |
| | 15 | -0.0029 | -0.1227 | -2.1798 | -0.0060 | -0.0000 | -0.0001 |
| 86 | 7 | 0.0025 | -0.0475 | -0.0335 | -0.0002 | 0.0000 | 0.0001 |
| | 8 | 2.9870 | -0.1847 | -0.0427 | -0.0003 | 0.0002 | -0.0073 |
| | 9 | -2.9855 | 0.1090 | -0.0056 | 0.0000 | -0.0002 | 0.0073 |
| | 10 | 0.0018 | -0.0374 | -0.0119 | -0.0001 | 0.0000 | 0.0001 |
| | 11 | 0.0025 | -0.1343 | -2.7094 | -0.0075 | 0.0000 | 0.0001 |
| | 12 | 2.3905 | -0.1631 | -0.0465 | -0.0004 | 0.0001 | -0.0058 |
| | 13 | -2.3875 | 0.0719 | -0.0168 | -0.0001 | -0.0001 | 0.0059 |



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JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

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| JOINT | LOAD | X-TRANS | Y-TRANS | Z-TRANS | X-ROTAN | Y-ROTAN | Z-ROTAN |
|---|---|---|---|---|---|---|---|
| | 14 | 0.0024 | -0.0452 | -0.0218 | -0.0002 | 0.0000 | 0.0001 |
| | 15 | 0.0029 | -0.1227 | -2.1798 | -0.0060 | 0.0000 | 0.0001 |
| 87 | 7 | -0.0004 | -0.0184 | -0.0358 | -0.0001 | 0.0000 | -0.0000 |
| | 8 | 3.0344 | 0.1239 | -0.0040 | -0.0000 | 0.0002 | -0.0076 |
| | 9 | -3.0329 | -0.1582 | -0.0472 | -0.0002 | -0.0002 | 0.0076 |
| | 10 | -0.0004 | -0.0175 | -0.0134 | -0.0001 | 0.0000 | -0.0000 |
| | 11 | 0.0003 | 0.0793 | -2.7129 | -0.0074 | -0.0000 | 0.0000 |
| | 12 | 2.4274 | 0.0947 | -0.0165 | -0.0001 | 0.0002 | -0.0061 |
| | 13 | -2.4265 | -0.1310 | -0.0510 | -0.0002 | -0.0002 | 0.0061 |
| | 14 | -0.0004 | -0.0185 | -0.0240 | -0.0001 | 0.0000 | -0.0000 |
| | 15 | 0.0002 | 0.0590 | -2.1836 | -0.0059 | -0.0000 | 0.0000 |
| 88 | 7 | 0.0004 | -0.0184 | -0.0358 | -0.0001 | -0.0000 | 0.0000 |
| | 8 | 3.0329 | -0.1582 | -0.0472 | -0.0002 | 0.0002 | -0.0076 |
| | 9 | -3.0344 | 0.1239 | -0.0040 | -0.0000 | -0.0002 | 0.0076 |
| | 10 | 0.0004 | -0.0175 | -0.0134 | -0.0001 | -0.0000 | 0.0000 |
| | 11 | -0.0003 | 0.0793 | -2.7129 | -0.0074 | 0.0000 | -0.0000 |
| | 12 | 2.4265 | -0.1310 | -0.0510 | -0.0002 | 0.0002 | -0.0061 |
| | 13 | -2.4274 | 0.0947 | -0.0165 | -0.0001 | -0.0002 | 0.0061 |
| | 14 | 0.0004 | -0.0185 | -0.0240 | -0.0001 | -0.0000 | 0.0000 |
| | 15 | -0.0002 | 0.0590 | -2.1836 | -0.0059 | 0.0000 | -0.0000 |
| 89 | 7 | -0.0000 | -0.0508 | -0.0402 | -0.0003 | -0.0000 | -0.0001 |
| | 8 | 3.1765 | -0.0698 | -0.0102 | 0.0000 | 0.0002 | -0.0052 |
| | 9 | -3.1756 | -0.0098 | -0.0478 | -0.0004 | -0.0002 | 0.0051 |
| | 10 | -0.0000 | -0.0398 | -0.0157 | -0.0002 | -0.0000 | -0.0000 |
| | 11 | 0.0000 | -0.1384 | -2.9158 | -0.0074 | -0.0000 | -0.0000 |
| | 12 | 2.5412 | -0.0723 | -0.0230 | -0.0001 | 0.0001 | -0.0042 |
| | 13 | -2.5405 | -0.0243 | -0.0531 | -0.0004 | -0.0001 | 0.0041 |
| | 14 | -0.0000 | -0.0484 | -0.0274 | -0.0002 | -0.0000 | -0.0001 |
| | 15 | -0.0000 | -0.1272 | -2.3475 | -0.0060 | -0.0000 | -0.0000 |
| 90 | 7 | -0.0000 | -0.0190 | -0.0401 | -0.0001 | 0.0000 | -0.0000 |
| | 8 | 3.2331 | -0.0618 | -0.0106 | -0.0001 | 0.0002 | -0.0054 |
| | 9 | -3.2321 | 0.0273 | -0.0468 | -0.0002 | -0.0002 | 0.0054 |
| | 10 | 0.0000 | -0.0182 | -0.0156 | -0.0001 | 0.0000 | -0.0000 |
| | 11 | -0.0000 | 0.0804 | -2.9171 | -0.0073 | 0.0000 | -0.0000 |
| | 12 | 2.5864 | -0.0540 | -0.0233 | -0.0001 | 0.0002 | -0.0043 |
| | 13 | -2.5856 | 0.0173 | -0.0523 | -0.0002 | -0.0002 | 0.0043 |
| | 14 | 0.0000 | -0.0191 | -0.0273 | -0.0001 | 0.0000 | -0.0000 |
| | 15 | -0.0000 | 0.0597 | -2.3485 | -0.0059 | 0.0000 | -0.0000 |
| 91 | 7 | 0.0000 | -0.0508 | -0.0402 | -0.0003 | 0.0000 | 0.0001 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 8 | 3.1756 | -0.0098 | -0.0478 | -0.0004 | 0.0002 | -0.0051 |
| 9 | -3.1765 | -0.0698 | -0.0102 | 0.0000 | -0.0002 | 0.0052 |
| 10 | 0.0000 | -0.0398 | -0.0157 | -0.0002 | 0.0000 | 0.0000 |
| 11 | -0.0000 | -0.1384 | -2.9158 | -0.0074 | 0.0000 | 0.0000 |
| 12 | 2.5405 | -0.0243 | -0.0531 | -0.0004 | 0.0001 | -0.0041 |
| 13 | -2.5412 | -0.0723 | -0.0230 | -0.0001 | -0.0001 | 0.0042 |
| 14 | 0.0000 | -0.0484 | -0.0274 | -0.0002 | 0.0000 | 0.0001 |



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JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

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| JOINT | LOAD | X-TRANS | Y-TRANS | Z-TRANS | X-ROTAN | Y-ROTAN | Z-ROTAN |
|---|---|---|---|---|---|---|---|
| | 15 | 0.0000 | -0.1272 | -2.3475 | -0.0060 | 0.0000 | 0.0000 |
| 92 | 7 | 0.0000 | -0.0190 | -0.0401 | -0.0001 | -0.0000 | 0.0000 |
| | 8 | 3.2321 | 0.0273 | -0.0468 | -0.0002 | 0.0002 | -0.0054 |
| | 9 | -3.2331 | -0.0618 | -0.0106 | -0.0001 | -0.0002 | 0.0054 |
| | 10 | -0.0000 | -0.0182 | -0.0156 | -0.0001 | -0.0000 | 0.0000 |
| | 11 | 0.0000 | 0.0804 | -2.9171 | -0.0073 | -0.0000 | 0.0000 |
| | 12 | 2.5856 | 0.0173 | -0.0523 | -0.0002 | 0.0002 | -0.0043 |
| | 13 | -2.5864 | -0.0540 | -0.0233 | -0.0001 | -0.0002 | 0.0043 |
| | 14 | -0.0000 | -0.0191 | -0.0273 | -0.0001 | -0.0000 | 0.0000 |
| | 15 | 0.0000 | 0.0597 | -2.3485 | -0.0059 | -0.0000 | 0.0000 |
| 93 | 7 | -0.0001 | -0.0227 | -0.0400 | -0.0001 | 0.0000 | -0.0000 |
| | 8 | 3.2375 | 0.1244 | -0.0047 | -0.0001 | 0.0002 | -0.0075 |
| | 9 | -3.2364 | -0.1653 | -0.0528 | -0.0001 | -0.0002 | 0.0075 |
| | 10 | -0.0001 | -0.0200 | -0.0156 | -0.0001 | 0.0000 | -0.0000 |
| | 11 | 0.0001 | -0.1068 | -2.9090 | -0.0055 | 0.0000 | -0.0000 |
| | 12 | 2.5900 | 0.0936 | -0.0186 | -0.0001 | 0.0002 | -0.0060 |
| | 13 | -2.5892 | -0.1381 | -0.0570 | -0.0001 | -0.0002 | 0.0060 |
| | 14 | -0.0001 | -0.0220 | -0.0273 | -0.0001 | 0.0000 | -0.0000 |
| | 15 | 0.0001 | -0.0914 | -2.3419 | -0.0045 | 0.0000 | -0.0000 |
| 94 | 7 | 0.0001 | -0.0227 | -0.0400 | -0.0001 | -0.0000 | 0.0000 |
| | 8 | 3.2364 | -0.1653 | -0.0528 | -0.0001 | 0.0002 | -0.0075 |
| | 9 | -3.2375 | 0.1244 | -0.0047 | -0.0001 | -0.0002 | 0.0075 |
| | 10 | 0.0001 | -0.0200 | -0.0156 | -0.0001 | -0.0000 | 0.0000 |
| | 11 | -0.0001 | -0.1068 | -2.9090 | -0.0055 | -0.0000 | 0.0000 |
| | 12 | 2.5892 | -0.1381 | -0.0570 | -0.0001 | 0.0002 | -0.0060 |
| | 13 | -2.5900 | 0.0936 | -0.0186 | -0.0001 | -0.0002 | 0.0060 |
| | 14 | 0.0001 | -0.0220 | -0.0273 | -0.0001 | -0.0000 | 0.0000 |
| | 15 | -0.0001 | -0.0914 | -2.3419 | -0.0045 | -0.0000 | 0.0000 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 95 | 7 | -0.0004 | -0.0418 | -0.0400 | -0.0002 | -0.0000 | -0.0001 |
| | 8 | 3.1916 | 0.1093 | -0.0048 | 0.0001 | 0.0002 | -0.0072 |
| | 9 | -3.1908 | -0.1771 | -0.0526 | -0.0004 | -0.0002 | 0.0071 |
| | 10 | -0.0003 | -0.0343 | -0.0156 | -0.0001 | -0.0000 | -0.0000 |
| | 11 | -0.0008 | 0.0533 | -2.9079 | -0.0056 | -0.0000 | -0.0000 |
| | 12 | 2.5532 | 0.0744 | -0.0186 | -0.0000 | 0.0001 | -0.0058 |
| | 13 | -2.5528 | -0.1548 | -0.0568 | -0.0004 | -0.0001 | 0.0057 |
| | 14 | -0.0004 | -0.0405 | -0.0272 | -0.0002 | -0.0000 | -0.0001 |
| | 15 | -0.0007 | 0.0296 | -2.3410 | -0.0046 | -0.0000 | -0.0001 |
| 96 | 7 | 0.0004 | -0.0418 | -0.0400 | -0.0002 | 0.0000 | 0.0001 |
| | 8 | 3.1908 | -0.1771 | -0.0526 | -0.0004 | 0.0002 | -0.0071 |
| | 9 | -3.1916 | 0.1093 | -0.0048 | 0.0001 | -0.0002 | 0.0072 |
| | 10 | 0.0003 | -0.0343 | -0.0156 | -0.0001 | 0.0000 | 0.0000 |
| | 11 | 0.0008 | 0.0533 | -2.9079 | -0.0056 | 0.0000 | 0.0000 |
| | 12 | 2.5528 | -0.1548 | -0.0568 | -0.0004 | 0.0001 | -0.0057 |
| | 13 | -2.5532 | 0.0744 | -0.0186 | -0.0000 | -0.0001 | 0.0058 |
| | 14 | 0.0004 | -0.0405 | -0.0272 | -0.0002 | 0.0000 | 0.0001 |
| | 15 | 0.0007 | 0.0296 | -2.3410 | -0.0046 | 0.0000 | 0.0001 |



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JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

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| JOINT | LOAD | X-TRANS | Y-TRANS | Z-TRANS | X-ROTAN | Y-ROTAN | Z-ROTAN |
|---|---|---|---|---|---|---|---|
| 97 | 7 | -0.0000 | -0.0917 | -0.1362 | -0.0003 | 0.0000 | 0.0001 |
| | 8 | 7.3793 | -0.1253 | -0.1589 | -0.0004 | 0.0006 | -0.0061 |
| | 9 | -7.3803 | -0.0195 | -0.0369 | -0.0000 | -0.0006 | 0.0062 |
| | 10 | -0.0000 | -0.0720 | -0.0666 | -0.0002 | 0.0000 | 0.0000 |
| | 11 | -0.0000 | -0.2444 | -6.9376 | -0.0083 | 0.0000 | 0.0000 |
| | 12 | 5.9034 | -0.1299 | -0.1774 | -0.0005 | 0.0004 | -0.0048 |
| | 13 | -5.9043 | -0.0453 | -0.0798 | -0.0002 | -0.0005 | 0.0049 |
| | 14 | -0.0000 | -0.0873 | -0.1035 | -0.0003 | 0.0000 | 0.0001 |
| | 15 | -0.0000 | -0.2252 | -5.6003 | -0.0068 | 0.0000 | 0.0001 |
| 98 | 7 | -0.0023 | -0.0886 | -0.1272 | -0.0003 | -0.0000 | -0.0001 |
| | 8 | 7.1603 | 0.1882 | -0.0198 | -0.0000 | 0.0005 | -0.0084 |
| | 9 | -7.1617 | -0.3292 | -0.1631 | -0.0004 | -0.0005 | 0.0084 |
| | 10 | -0.0017 | -0.0697 | -0.0613 | -0.0002 | -0.0000 | -0.0000 |
| | 11 | -0.0024 | -0.2406 | -6.7046 | -0.0085 | -0.0000 | -0.0001 |
| | 12 | 5.7274 | 0.1220 | -0.0627 | -0.0001 | 0.0004 | -0.0067 |
| | 13 | -5.7302 | -0.2920 | -0.1774 | -0.0004 | -0.0004 | 0.0067 |
| | 14 | -0.0022 | -0.0844 | -0.0959 | -0.0003 | -0.0000 | -0.0001 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 15 | -0.0027 | -0.2211 | -5.4106 | -0.0069 | -0.0000 | -0.0001 |
| 99 | 7 | -0.0003 | -0.0806 | -0.1359 | -0.0003 | -0.0000 | -0.0001 |
| | 8 | 7.4068 | 0.1897 | -0.0206 | 0.0000 | 0.0006 | -0.0082 |
| | 9 | -7.4059 | -0.3196 | -0.1745 | -0.0004 | -0.0006 | 0.0081 |
| | 10 | -0.0002 | -0.0651 | -0.0664 | -0.0002 | -0.0000 | -0.0000 |
| | 11 | -0.0006 | -0.0277 | -6.9288 | -0.0064 | -0.0000 | -0.0001 |
| | 12 | 5.9253 | 0.1262 | -0.0666 | -0.0001 | 0.0005 | -0.0066 |
| | 13 | -5.9248 | -0.2812 | -0.1898 | -0.0005 | -0.0004 | 0.0065 |
| | 14 | -0.0003 | -0.0776 | -0.1033 | -0.0003 | -0.0000 | -0.0001 |
| | 15 | -0.0006 | -0.0477 | -5.5932 | -0.0053 | -0.0000 | -0.0001 |
| 100 | 7 | -0.0005 | -0.0345 | -0.1282 | -0.0003 | 0.0000 | -0.0000 |
| | 8 | 7.3365 | 0.2164 | -0.0189 | -0.0001 | 0.0006 | -0.0087 |
| | 9 | -7.3353 | -0.2805 | -0.1651 | -0.0003 | -0.0006 | 0.0087 |
| | 10 | -0.0004 | -0.0328 | -0.0618 | -0.0002 | 0.0000 | -0.0000 |
| | 11 | 0.0003 | 0.1381 | -6.7071 | -0.0084 | -0.0000 | 0.0000 |
| | 12 | 5.8691 | 0.1647 | -0.0625 | -0.0001 | 0.0005 | -0.0070 |
| | 13 | -5.8684 | -0.2328 | -0.1795 | -0.0004 | -0.0005 | 0.0070 |
| | 14 | -0.0005 | -0.0347 | -0.0968 | -0.0002 | 0.0000 | -0.0000 |
| | 15 | 0.0001 | 0.1021 | -5.4131 | -0.0068 | -0.0000 | 0.0000 |
| 101 | 7 | 0.0000 | -0.0353 | -0.1359 | -0.0003 | 0.0000 | -0.0000 |
| | 8 | 7.5651 | 0.0010 | -0.0369 | -0.0001 | 0.0006 | -0.0063 |
| | 9 | -7.5641 | -0.0656 | -0.1582 | -0.0003 | -0.0006 | 0.0064 |
| | 10 | 0.0000 | -0.0335 | -0.0663 | -0.0002 | 0.0000 | -0.0000 |
| | 11 | -0.0000 | 0.1389 | -6.9390 | -0.0082 | 0.0000 | -0.0000 |
| | 12 | 6.0521 | -0.0078 | -0.0797 | -0.0002 | 0.0004 | -0.0051 |
| | 13 | -6.0513 | -0.0610 | -0.1768 | -0.0003 | -0.0004 | 0.0051 |
| | 14 | 0.0000 | -0.0354 | -0.1033 | -0.0002 | 0.0000 | -0.0000 |
| | 15 | -0.0000 | 0.1025 | -5.6014 | -0.0067 | 0.0000 | -0.0000 |
| 102 | 7 | -0.0001 | -0.0423 | -0.1359 | -0.0002 | 0.0000 | -0.0000 |



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JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

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| JOINT | LOAD | X-TRANS | Y-TRANS | Z-TRANS | X-ROTAN | Y-ROTAN | Z-ROTAN |
|---|---|---|---|---|---|---|---|

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 8 | 7.5596 | 0.2155 | -0.0206 | -0.0001 | 0.0006 | -0.0085 |
| | 9 | -7.5586 | -0.2910 | -0.1745 | -0.0002 | -0.0006 | 0.0085 |
| | 10 | -0.0001 | -0.0376 | -0.0664 | -0.0001 | 0.0000 | -0.0000 |
| | 11 | -0.0001 | -0.0743 | -6.9299 | -0.0064 | 0.0000 | -0.0000 |
| | 12 | 6.0477 | 0.1613 | -0.0666 | -0.0002 | 0.0004 | -0.0068 |
| | 13 | -6.0469 | -0.2439 | -0.1898 | -0.0003 | -0.0004 | 0.0068 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | 14 | -0.0001 | -0.0412 | -0.1032 | -0.0002 | 0.0000 | -0.0000 |
| | 15 | -0.0001 | -0.0706 | -5.5941 | -0.0052 | 0.0000 | -0.0000 |
| 103 | 7 | 0.0000 | -0.0917 | -0.1362 | -0.0003 | -0.0000 | -0.0001 |
| | 8 | 7.3803 | -0.0195 | -0.0369 | -0.0000 | 0.0006 | -0.0062 |
| | 9 | -7.3793 | -0.1253 | -0.1589 | -0.0004 | -0.0006 | 0.0061 |
| | 10 | 0.0000 | -0.0720 | -0.0666 | -0.0002 | -0.0000 | -0.0000 |
| | 11 | 0.0000 | -0.2444 | -6.9376 | -0.0083 | -0.0000 | -0.0000 |
| | 12 | 5.9043 | -0.0453 | -0.0798 | -0.0002 | 0.0005 | -0.0049 |
| | 13 | -5.9034 | -0.1299 | -0.1774 | -0.0005 | -0.0004 | 0.0048 |
| | 14 | 0.0000 | -0.0873 | -0.1035 | -0.0003 | -0.0000 | -0.0001 |
| | 15 | 0.0000 | -0.2252 | -5.6003 | -0.0068 | -0.0000 | -0.0001 |
| 104 | 7 | 0.0023 | -0.0886 | -0.1272 | -0.0003 | 0.0000 | 0.0001 |
| | 8 | 7.1617 | -0.3292 | -0.1631 | -0.0004 | 0.0005 | -0.0084 |
| | 9 | -7.1603 | 0.1882 | -0.0198 | -0.0000 | -0.0005 | 0.0084 |
| | 10 | 0.0017 | -0.0697 | -0.0613 | -0.0002 | 0.0000 | 0.0000 |
| | 11 | 0.0024 | -0.2406 | -6.7046 | -0.0085 | 0.0000 | 0.0001 |
| | 12 | 5.7302 | -0.2920 | -0.1774 | -0.0004 | 0.0004 | -0.0067 |
| | 13 | -5.7274 | 0.1220 | -0.0627 | -0.0001 | -0.0004 | 0.0067 |
| | 14 | 0.0022 | -0.0844 | -0.0959 | -0.0003 | 0.0000 | 0.0001 |
| | 15 | 0.0027 | -0.2211 | -5.4106 | -0.0069 | 0.0000 | 0.0001 |
| 105 | 7 | 0.0003 | -0.0806 | -0.1359 | -0.0003 | 0.0000 | 0.0001 |
| | 8 | 7.4059 | -0.3196 | -0.1745 | -0.0004 | 0.0006 | -0.0081 |
| | 9 | -7.4068 | 0.1897 | -0.0206 | 0.0000 | -0.0006 | 0.0082 |
| | 10 | 0.0002 | -0.0651 | -0.0664 | -0.0002 | 0.0000 | 0.0000 |
| | 11 | 0.0006 | -0.0277 | -6.9288 | -0.0064 | 0.0000 | 0.0001 |
| | 12 | 5.9248 | -0.2812 | -0.1898 | -0.0005 | 0.0004 | -0.0065 |
| | 13 | -5.9253 | 0.1262 | -0.0666 | -0.0001 | -0.0005 | 0.0066 |
| | 14 | 0.0003 | -0.0776 | -0.1033 | -0.0003 | 0.0000 | 0.0001 |
| | 15 | 0.0006 | -0.0477 | -5.5932 | -0.0053 | 0.0000 | 0.0001 |
| 106 | 7 | 0.0005 | -0.0345 | -0.1282 | -0.0003 | -0.0000 | 0.0000 |
| | 8 | 7.3353 | -0.2805 | -0.1651 | -0.0003 | 0.0006 | -0.0087 |
| | 9 | -7.3365 | 0.2164 | -0.0189 | -0.0001 | -0.0006 | 0.0087 |
| | 10 | 0.0004 | -0.0328 | -0.0618 | -0.0002 | -0.0000 | 0.0000 |
| | 11 | -0.0003 | 0.1381 | -6.7071 | -0.0084 | 0.0000 | -0.0000 |
| | 12 | 5.8684 | -0.2328 | -0.1795 | -0.0004 | 0.0005 | -0.0070 |
| | 13 | -5.8691 | 0.1647 | -0.0625 | -0.0001 | -0.0005 | 0.0070 |
| | 14 | 0.0005 | -0.0347 | -0.0968 | -0.0002 | -0.0000 | 0.0000 |
| | 15 | -0.0001 | 0.1021 | -5.4131 | -0.0068 | 0.0000 | -0.0000 |
| 107 | 7 | 0.0001 | -0.0423 | -0.1359 | -0.0002 | -0.0000 | 0.0000 |
| | 8 | 7.5586 | -0.2910 | -0.1745 | -0.0002 | 0.0006 | -0.0085 |



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JOINT DISPLACEMENT (CM RADIANS) STRUCTURE TYPE = SPACE

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| JOINT | LOAD | X-TRANS | Y-TRANS | Z-TRANS | X-ROTAN | Y-ROTAN | Z-ROTAN |
|---|---|---|---|---|---|---|---|
| | 9 | -7.5596 | 0.2155 | -0.0206 | -0.0001 | -0.0006 | 0.0085 |
| | 10 | 0.0001 | -0.0376 | -0.0664 | -0.0001 | -0.0000 | 0.0000 |
| | 11 | 0.0001 | -0.0743 | -6.9299 | -0.0064 | -0.0000 | 0.0000 |
| | 12 | 6.0469 | -0.2439 | -0.1898 | -0.0003 | 0.0004 | -0.0068 |
| | 13 | -6.0477 | 0.1613 | -0.0666 | -0.0002 | -0.0004 | 0.0068 |
| | 14 | 0.0001 | -0.0412 | -0.1032 | -0.0002 | -0.0000 | 0.0000 |
| | 15 | 0.0001 | -0.0706 | -5.5941 | -0.0052 | -0.0000 | 0.0000 |
| 108 | 7 | -0.0000 | -0.0353 | -0.1359 | -0.0003 | -0.0000 | 0.0000 |
| | 8 | 7.5641 | -0.0656 | -0.1582 | -0.0003 | 0.0006 | -0.0064 |
| | 9 | -7.5651 | 0.0010 | -0.0369 | -0.0001 | -0.0006 | 0.0063 |
| | 10 | -0.0000 | -0.0335 | -0.0663 | -0.0002 | -0.0000 | 0.0000 |
| | 11 | 0.0000 | 0.1389 | -6.9390 | -0.0082 | -0.0000 | 0.0000 |
| | 12 | 6.0513 | -0.0610 | -0.1768 | -0.0003 | 0.0004 | -0.0051 |
| | 13 | -6.0521 | -0.0078 | -0.0797 | -0.0002 | -0.0004 | 0.0051 |
| | 14 | -0.0000 | -0.0354 | -0.1033 | -0.0002 | -0.0000 | 0.0000 |
| | 15 | 0.0000 | 0.1025 | -5.6014 | -0.0067 | -0.0000 | 0.0000 |



SUPPORT REACTIONS -UNIT KN METE STRUCTURE TYPE = SPACE

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| JOINT | LOAD | FORCE-X | FORCE-Y | FORCE-Z | MOM-X | MOM-Y | MOM Z |
|---|---|---|---|---|---|---|---|
| 5 | 7 | 0.53 | 226.37 | 1.41 | 1.66 | -0.00 | -0.36 |
| | 8 | -48.81 | -475.82 | 1.22 | 1.22 | -0.23 | 156.06 |
| | 9 | 51.50 | 846.88 | 1.49 | 1.59 | 0.21 | -157.53 |
| | 10 | 0.61 | 183.55 | 1.17 | 0.79 | -0.00 | -0.41 |
| | 11 | 0.53 | 619.33 | 43.01 | 136.19 | 0.05 | -0.36 |
| | 12 | -39.00 | -310.88 | 1.29 | 1.46 | -0.18 | 124.80 |
| | 13 | 41.26 | 747.28 | 1.51 | 1.76 | 0.17 | -126.06 |
| | 14 | 0.54 | 216.62 | 1.25 | 1.12 | -0.00 | -0.37 |
| | 15 | 0.48 | 565.24 | 34.72 | 109.44 | 0.04 | -0.34 |
| 6 | 7 | -0.53 | 226.37 | 1.41 | 1.66 | 0.00 | 0.36 |
| | 8 | -51.50 | 846.88 | 1.49 | 1.59 | -0.21 | 157.53 |
| | 9 | 48.81 | -475.82 | 1.22 | 1.22 | 0.23 | -156.06 |
| | 10 | -0.61 | 183.55 | 1.17 | 0.79 | 0.00 | 0.41 |
| | 11 | -0.53 | 619.33 | 43.01 | 136.19 | -0.05 | 0.36 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 12 | -41.26 | 747.28 | 1.51 | 1.76 | -0.17 | 126.06 |
| | 13 | 39.00 | -310.88 | 1.29 | 1.46 | 0.18 | -124.80 |
| | 14 | -0.54 | 216.62 | 1.25 | 1.12 | 0.00 | 0.37 |
| | 15 | -0.48 | 565.24 | 34.72 | 109.44 | -0.04 | 0.34 |
| 7 | 7 | 0.79 | 103.30 | -1.41 | -0.05 | -0.00 | -0.50 |
| | 8 | -48.44 | -539.02 | -1.05 | -0.22 | -0.33 | 155.76 |
| | 9 | 51.49 | 735.02 | -1.65 | -0.28 | 0.33 | -157.42 |
| | 10 | 0.79 | 99.98 | -1.54 | -0.87 | -0.00 | -0.50 |
| | 11 | 0.87 | -335.80 | 39.12 | 134.08 | 0.03 | -0.55 |
| | 12 | -38.60 | -407.37 | -1.16 | -0.06 | -0.27 | 124.51 |
| | 13 | 41.35 | 611.85 | -1.64 | -0.11 | 0.26 | -126.03 |
| | 14 | 0.79 | 103.83 | -1.55 | -0.58 | -0.00 | -0.50 |
| | 15 | 0.85 | -244.80 | 30.98 | 107.37 | 0.02 | -0.54 |
| 8 | 7 | -0.79 | 103.30 | -1.41 | -0.05 | 0.00 | 0.50 |
| | 8 | -51.49 | 735.02 | -1.65 | -0.28 | -0.33 | 157.42 |
| | 9 | 48.44 | -539.02 | -1.05 | -0.22 | 0.33 | -155.76 |
| | 10 | -0.79 | 99.98 | -1.54 | -0.87 | 0.00 | 0.50 |
| | 11 | -0.87 | -335.80 | 39.12 | 134.08 | -0.03 | 0.55 |
| | 12 | -41.35 | 611.85 | -1.64 | -0.11 | -0.26 | 126.03 |
| | 13 | 38.60 | -407.37 | -1.16 | -0.06 | 0.27 | -124.51 |
| | 14 | -0.79 | 103.83 | -1.55 | -0.58 | 0.00 | 0.50 |
| | 15 | -0.85 | -244.80 | 30.98 | 107.37 | -0.02 | 0.54 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 1 | 7 | 5 | 226.37 | -0.53 | 1.41 | -0.00 | -1.66 | -0.36 |
| | | 1 | -207.08 | 0.53 | -1.41 | 0.00 | -1.54 | -0.84 |
| | 8 | 5 | -475.82 | 48.81 | 1.22 | -0.23 | -1.22 | 156.06 |
| | | 1 | 495.12 | -48.81 | -1.22 | 0.23 | -1.55 | -45.01 |
| | 9 | 5 | 846.88 | -51.50 | 1.49 | 0.21 | -1.59 | -157.53 |
| | | 1 | -827.58 | 51.50 | -1.49 | -0.21 | -1.79 | 40.35 |
| | 10 | 5 | 183.55 | -0.61 | 1.17 | -0.00 | -0.79 | -0.41 |
| | | 1 | -164.25 | 0.61 | -1.17 | 0.00 | -1.86 | -0.99 |
| | 11 | 5 | 619.33 | -0.53 | 43.01 | 0.05 | -136.19 | -0.36 |
| | | 1 | -600.03 | 0.53 | -43.01 | -0.05 | 38.35 | -0.85 |
| | 12 | 5 | -310.88 | 39.00 | 1.29 | -0.18 | -1.46 | 124.80 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 1 | 330.17 | -39.00 | -1.29 | 0.18 | -1.48 | -36.09 |
| 13 | 5 | 747.28 | -41.26 | 1.51 | 0.17 | -1.76 | -126.06 |
| | 1 | -727.99 | 41.26 | -1.51 | -0.17 | -1.66 | 32.20 |
| 14 | 5 | 216.62 | -0.54 | 1.25 | -0.00 | -1.12 | -0.37 |
| | 1 | -197.32 | 0.54 | -1.25 | 0.00 | -1.72 | -0.87 |
| 15 | 5 | 565.24 | -0.48 | 34.72 | 0.04 | -109.44 | -0.34 |
| | 1 | -545.95 | 0.48 | -34.72 | -0.04 | 30.44 | -0.76 |
| 2 | 7 | 1 | 199.72 | -0.51 | -0.22 | 0.00 | -0.40 | -0.65 |
| | 85 | -197.56 | 0.51 | 0.22 | -0.00 | 1.17 | -1.13 |
| 8 | 1 | -456.42 | 52.27 | 0.35 | -0.34 | -0.51 | 107.29 |
| | 85 | 458.59 | -43.03 | -0.35 | 0.34 | -0.70 | 57.72 |
| 9 | 1 | 774.11 | -48.13 | -0.61 | 0.33 | -0.17 | -105.31 |
| | 85 | -771.95 | 48.13 | 0.61 | -0.33 | 2.27 | -61.36 |
| 10 | 1 | 157.00 | -0.38 | -0.33 | 0.00 | 0.08 | -0.49 |
| | 85 | -154.84 | 0.38 | 0.29 | -0.00 | 0.98 | -0.83 |
| 11 | 1 | 562.80 | -0.50 | 38.92 | 0.07 | -90.41 | -0.64 |
| | 85 | -560.63 | 0.50 | -38.92 | -0.07 | -44.37 | -1.11 |
| 12 | 1 | -300.67 | 41.63 | 0.18 | -0.27 | -0.53 | 85.60 |
| | 85 | 302.83 | -34.24 | -0.18 | 0.27 | -0.09 | 45.77 |
| 13 | 1 | 683.76 | -38.69 | -0.59 | 0.26 | -0.25 | -84.47 |
| | 85 | -681.60 | 38.69 | 0.59 | -0.26 | 2.28 | -49.49 |
| 14 | 1 | 190.07 | -0.49 | -0.36 | 0.00 | -0.05 | -0.62 |
| | 85 | -187.91 | 0.49 | 0.33 | -0.00 | 1.25 | -1.07 |
| 15 | 1 | 514.71 | -0.59 | 31.03 | 0.05 | -72.45 | -0.74 |
| | 85 | -512.54 | 0.59 | -31.03 | -0.05 | -35.03 | -1.29 |
| 3 | 7 | 6 | 226.37 | 0.53 | 1.41 | 0.00 | -1.66 | 0.36 |
| | 2 | -207.08 | -0.53 | -1.41 | -0.00 | -1.54 | 0.84 |
| 8 | 6 | 846.88 | 51.50 | 1.49 | -0.21 | -1.59 | 157.53 |
| | 2 | -827.58 | -51.50 | -1.49 | 0.21 | -1.79 | -40.35 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 9 | 6 | -475.82 | -48.81 | 1.22 | 0.23 | -1.22 | -156.06 |
| | 2 | 495.12 | 48.81 | -1.22 | -0.23 | -1.55 | 45.01 |
| 10 | 6 | 183.55 | 0.61 | 1.17 | 0.00 | -0.79 | 0.41 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 2 | -164.25 | -0.61 | -1.17 | -0.00 | -1.86 | 0.99 |
| | 11 | 6 | 619.33 | 0.53 | 43.01 | -0.05 | -136.19 | 0.36 |
| | | 2 | -600.03 | -0.53 | -43.01 | 0.05 | 38.35 | 0.85 |
| | 12 | 6 | 747.28 | 41.26 | 1.51 | -0.17 | -1.76 | 126.06 |
| | | 2 | -727.99 | -41.26 | -1.51 | 0.17 | -1.66 | -32.20 |
| | 13 | 6 | -310.88 | -39.00 | 1.29 | 0.18 | -1.46 | -124.80 |
| | | 2 | 330.17 | 39.00 | -1.29 | -0.18 | -1.48 | 36.09 |
| | 14 | 6 | 216.62 | 0.54 | 1.25 | 0.00 | -1.12 | 0.37 |
| | | 2 | -197.32 | -0.54 | -1.25 | -0.00 | -1.72 | 0.87 |
| | 15 | 6 | 565.24 | 0.48 | 34.72 | -0.04 | -109.44 | 0.34 |
| | | 2 | -545.95 | -0.48 | -34.72 | 0.04 | 30.44 | 0.76 |
| | | | | | | | | |
| 4 | 7 | 2 | 199.72 | 0.51 | -0.22 | -0.00 | -0.40 | 0.65 |
| | | 86 | -197.56 | -0.51 | 0.22 | 0.00 | 1.17 | 1.13 |
| | 8 | 2 | 774.11 | 48.13 | -0.61 | -0.33 | -0.17 | 105.31 |
| | | 86 | -771.95 | -48.13 | 0.61 | 0.33 | 2.27 | 61.36 |
| | 9 | 2 | -456.42 | -52.27 | 0.35 | 0.34 | -0.51 | -107.29 |
| | | 86 | 458.59 | 43.03 | -0.35 | -0.34 | -0.70 | -57.72 |
| | 10 | 2 | 157.00 | 0.38 | -0.33 | -0.00 | 0.08 | 0.49 |
| | | 86 | -154.84 | -0.38 | 0.29 | 0.00 | 0.98 | 0.83 |
| | 11 | 2 | 562.80 | 0.50 | 38.92 | -0.07 | -90.41 | 0.64 |
| | | 86 | -560.63 | -0.50 | -38.92 | 0.07 | -44.37 | 1.11 |
| | 12 | 2 | 683.76 | 38.69 | -0.59 | -0.26 | -0.25 | 84.47 |
| | | 86 | -681.60 | -38.69 | 0.59 | 0.26 | 2.28 | 49.49 |
| | 13 | 2 | -300.67 | -41.63 | 0.18 | 0.27 | -0.53 | -85.60 |
| | | 86 | 302.83 | 34.24 | -0.18 | -0.27 | -0.09 | -45.77 |
| | 14 | 2 | 190.07 | 0.49 | -0.36 | -0.00 | -0.05 | 0.62 |
| | | 86 | -187.91 | -0.49 | 0.33 | 0.00 | 1.25 | 1.07 |
| | 15 | 2 | 514.71 | 0.59 | 31.03 | -0.05 | -72.45 | 0.74 |
| | | 86 | -512.54 | -0.59 | -31.03 | 0.05 | -35.03 | 1.29 |
| | | | | | | | | |
| 5 | 7 | 7 | 103.30 | -0.79 | -1.41 | -0.00 | 0.05 | -0.50 |
| | | 3 | -84.00 | 0.79 | 1.41 | 0.00 | 3.16 | -1.29 |
| | 8 | 7 | -539.02 | 48.44 | -1.05 | -0.33 | 0.22 | 155.76 |
| | | 3 | 558.32 | -48.44 | 1.05 | 0.33 | 2.18 | -45.56 |
| | 9 | 7 | 735.02 | -51.49 | -1.65 | 0.33 | 0.28 | -157.42 |
| | | 3 | -715.72 | 51.49 | 1.65 | -0.33 | 3.47 | 40.28 |
| | 10 | 7 | 99.98 | -0.79 | -1.54 | -0.00 | 0.87 | -0.50 |
| | | 3 | -80.68 | 0.79 | 1.54 | 0.00 | 2.64 | -1.30 |
| | 11 | 7 | -335.80 | -0.87 | 39.12 | 0.03 | -134.08 | -0.55 |
| | | 3 | 355.10 | 0.87 | -39.12 | -0.03 | 45.08 | -1.43 |
| | 12 | 7 | -407.37 | 38.60 | -1.16 | -0.27 | 0.06 | 124.51 |
| | | 3 | 426.67 | -38.60 | 1.16 | 0.27 | 2.58 | -36.70 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 13 | 7 | 611.85 | -41.35 | -1.64 | 0.26 | 0.11 | -126.03 |
| | 3 | -592.56 | 41.35 | 1.64 | -0.26 | 3.61 | 31.97 |
| 14 | 7 | 103.83 | -0.79 | -1.55 | -0.00 | 0.58 | -0.50 |
| | 3 | -84.53 | 0.79 | 1.55 | 0.00 | 2.95 | -1.29 |
| 15 | 7 | -244.80 | -0.85 | 30.98 | 0.02 | -107.37 | -0.54 |
| | 3 | 264.10 | 0.85 | -30.98 | -0.02 | 36.90 | -1.40 |
| 6 | 7 | 3 | 76.43 | -0.10 | 0.22 | -0.00 | -0.85 | -0.15 |
| | 87 | -74.27 | 0.10 | -0.22 | 0.00 | 0.08 | -0.19 |
| 8 | 3 | -519.44 | 52.28 | -0.10 | -0.47 | 0.11 | 108.28 |
| | 87 | 521.61 | -43.04 | 0.10 | 0.47 | 0.24 | 56.77 |
| 9 | 3 | 661.77 | -47.57 | 0.36 | 0.47 | -1.23 | -105.60 |
| | 87 | -659.60 | 47.57 | -0.36 | -0.47 | -0.02 | -59.12 |
| 10 | 3 | 73.01 | -0.10 | -0.05 | -0.00 | -0.15 | -0.14 |
| | 87 | -70.84 | 0.10 | 0.05 | 0.00 | 0.32 | -0.19 |
| 11 | 3 | -332.79 | 0.03 | 43.21 | 0.05 | -93.06 | 0.00 |
| | 87 | 334.95 | -0.03 | -35.62 | -0.05 | -43.43 | 0.08 |
| 12 | 3 | -397.11 | 41.81 | 0.02 | -0.38 | -0.25 | 86.59 |
| | 87 | 399.27 | -34.41 | -0.02 | 0.38 | 0.19 | 45.38 |
| 13 | 3 | 547.87 | -38.07 | 0.39 | 0.38 | -1.33 | -84.51 |
| | 87 | -545.70 | 38.07 | -0.39 | -0.38 | -0.02 | -47.34 |
| 14 | 3 | 76.86 | -0.10 | 0.06 | -0.00 | -0.46 | -0.15 |
| | 87 | -74.69 | 0.10 | -0.06 | 0.00 | 0.25 | -0.19 |
| 15 | 3 | -247.78 | -0.00 | 34.67 | 0.04 | -74.79 | -0.03 |
| | 87 | 249.95 | 0.00 | -28.60 | -0.04 | -34.75 | 0.02 |
| 7 | 7 | 8 | 103.30 | 0.79 | -1.41 | 0.00 | 0.05 | 0.50 |
| | 4 | -84.00 | -0.79 | 1.41 | -0.00 | 3.16 | 1.29 |
| 8 | 8 | 735.02 | 51.49 | -1.65 | -0.33 | 0.28 | 157.42 |
| | 4 | -715.72 | -51.49 | 1.65 | 0.33 | 3.47 | -40.28 |
| 9 | 8 | -539.02 | -48.44 | -1.05 | 0.33 | 0.22 | -155.76 |
| | 4 | 558.32 | 48.44 | 1.05 | -0.33 | 2.18 | 45.56 |
| 10 | 8 | 99.98 | 0.79 | -1.54 | 0.00 | 0.87 | 0.50 |
| | 4 | -80.68 | -0.79 | 1.54 | -0.00 | 2.64 | 1.30 |
| 11 | 8 | -335.80 | 0.87 | 39.12 | -0.03 | -134.08 | 0.55 |
| | 4 | 355.10 | -0.87 | -39.12 | 0.03 | 45.08 | 1.43 |
| 12 | 8 | 611.85 | 41.35 | -1.64 | -0.26 | 0.11 | 126.03 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 4 | -592.56 | -41.35 | 1.64 | 0.26 | 3.61 | -31.97 |
| 13 | 8 | -407.37 | -38.60 | -1.16 | 0.27 | 0.06 | -124.51 |
| | 4 | 426.67 | 38.60 | 1.16 | -0.27 | 2.58 | 36.70 |
| 14 | 8 | 103.83 | 0.79 | -1.55 | 0.00 | 0.58 | 0.50 |
| | 4 | -84.53 | -0.79 | 1.55 | -0.00 | 2.95 | 1.29 |
| 15 | 8 | -244.80 | 0.85 | 30.98 | -0.02 | -107.37 | 0.54 |
| | 4 | 264.10 | -0.85 | -30.98 | 0.02 | 36.90 | 1.40 |
| 8 | 7 | 4 | 76.43 | 0.10 | 0.22 | 0.00 | -0.85 | 0.15 |
| | | 88 | -74.27 | -0.10 | -0.22 | -0.00 | 0.08 | 0.19 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

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| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 8 | 4 | 661.77 | 47.57 | 0.36 | -0.47 | -1.23 | 105.60 |
| | 88 | -659.60 | -47.57 | -0.36 | 0.47 | -0.02 | 59.12 |
| 9 | 4 | -519.44 | -52.28 | -0.10 | 0.47 | 0.11 | -108.28 |
| | 88 | 521.61 | 43.04 | 0.10 | -0.47 | 0.24 | -56.77 |
| 10 | 4 | 73.01 | 0.10 | -0.05 | 0.00 | -0.15 | 0.14 |
| | 88 | -70.84 | -0.10 | 0.05 | -0.00 | 0.32 | 0.19 |
| 11 | 4 | -332.79 | -0.03 | 43.21 | -0.05 | -93.06 | -0.00 |
| | 88 | 334.95 | 0.03 | -35.62 | 0.05 | -43.43 | -0.08 |
| 12 | 4 | 547.87 | 38.07 | 0.39 | -0.38 | -1.33 | 84.51 |
| | 88 | -545.70 | -38.07 | -0.39 | 0.38 | -0.02 | 47.34 |
| 13 | 4 | -397.11 | -41.81 | 0.02 | 0.38 | -0.25 | -86.59 |
| | 88 | 399.27 | 34.41 | -0.02 | -0.38 | 0.19 | -45.38 |
| 14 | 4 | 76.86 | 0.10 | 0.06 | 0.00 | -0.46 | 0.15 |
| | 88 | -74.69 | -0.10 | -0.06 | -0.00 | 0.25 | 0.19 |
| 15 | 4 | -247.78 | 0.00 | 34.67 | -0.04 | -74.79 | 0.03 |
| | 88 | 249.95 | -0.00 | -28.60 | 0.04 | -34.75 | -0.02 |
| 9 | 7 | 1 | 0.01 | 3.37 | -0.00 | -0.00 | 0.00 | 1.48 |
| | | 2 | -0.01 | 3.37 | 0.00 | 0.00 | -0.00 | -1.48 |
| | 8 | 1 | 3.42 | -42.73 | -0.03 | 0.00 | 0.05 | -62.28 |
| | | 2 | -3.42 | 49.46 | 0.03 | -0.00 | 0.05 | -64.95 |
| | 9 | 1 | 3.42 | 49.46 | 0.03 | -0.00 | -0.05 | 64.95 |
| | | 2 | -3.42 | -42.73 | -0.03 | 0.00 | -0.05 | 62.28 |
| | 10 | 1 | 0.23 | 3.37 | -0.00 | -0.00 | 0.00 | 1.47 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 2 | -0.23 | 3.37 | 0.00 | 0.00 | -0.00 | -1.47 |
| | 11 | 1 | 0.04 | 3.37 | 0.00 | 0.00 | -0.00 | 1.48 |
| | | 2 | -0.04 | 3.37 | -0.00 | -0.00 | 0.00 | -1.48 |
| | 12 | 1 | 2.61 | -33.51 | -0.03 | 0.00 | 0.04 | -49.52 |
| | | 2 | -2.61 | 40.24 | 0.03 | -0.00 | 0.04 | -52.27 |
| | 13 | 1 | 2.61 | 40.24 | 0.03 | -0.00 | -0.04 | 52.27 |
| | | 2 | -2.61 | -33.51 | -0.03 | 0.00 | -0.04 | 49.52 |
| | 14 | 1 | 0.06 | 3.37 | -0.00 | -0.00 | 0.00 | 1.48 |
| | | 2 | -0.06 | 3.37 | 0.00 | 0.00 | -0.00 | -1.48 |
| | 15 | 1 | -0.10 | 3.37 | 0.00 | 0.00 | -0.00 | 1.49 |
| | | 2 | 0.10 | 3.37 | -0.00 | -0.00 | 0.00 | -1.49 |
| | | | | | | | | |
| 10 | 7 | 3 | 1.63 | 4.21 | 0.00 | 0.01 | -0.00 | 2.31 |
| | | 1 | -1.63 | 3.99 | -0.00 | -0.01 | -0.00 | -1.95 |
| | 8 | 3 | 0.90 | 4.16 | -0.04 | 0.00 | 0.07 | 2.27 |
| | | 1 | -0.90 | 4.04 | 0.04 | -0.00 | 0.06 | -2.07 |
| | 9 | 3 | 2.06 | 4.19 | 0.04 | 0.00 | -0.07 | 2.27 |
| | | 1 | -2.06 | 4.00 | -0.04 | -0.00 | -0.06 | -1.95 |
| | 10 | 3 | 1.49 | 4.31 | 0.00 | 0.00 | -0.00 | 2.50 |
| | | 1 | -1.49 | 3.88 | -0.00 | -0.00 | -0.00 | -1.78 |
| | 11 | 3 | 4.09 | -25.68 | 0.01 | 0.01 | -0.01 | -47.98 |
| | | 1 | -4.09 | 33.87 | -0.01 | -0.01 | -0.01 | -52.06 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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|---|---|---|---|---|---|---|---|---|
| | 12 | 3 | 1.14 | 4.19 | -0.03 | 0.01 | 0.06 | 2.30 |
| | | 1 | -1.14 | 4.01 | 0.03 | -0.01 | 0.05 | -2.01 |
| | 13 | 3 | 2.06 | 4.21 | 0.03 | 0.00 | -0.06 | 2.30 |
| | | 1 | -2.06 | 3.98 | -0.03 | -0.00 | -0.05 | -1.91 |
| | 14 | 3 | 1.61 | 4.31 | 0.00 | 0.00 | -0.00 | 2.49 |
| | | 1 | -1.61 | 3.89 | -0.00 | -0.00 | -0.00 | -1.78 |
| | 15 | 3 | 3.69 | -19.68 | 0.01 | 0.01 | -0.01 | -37.89 |
| | | 1 | -3.69 | 27.87 | -0.01 | -0.01 | -0.01 | -42.00 |
| | | | | | | | | |
| 11 | 7 | 4 | 1.63 | 4.21 | -0.00 | -0.01 | 0.00 | 2.31 |
| | | 2 | -1.63 | 3.99 | 0.00 | 0.01 | 0.00 | -1.95 |
| | 8 | 4 | 2.06 | 4.19 | -0.04 | -0.00 | 0.07 | 2.27 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 2 | -2.06 | 4.00 | 0.04 | 0.00 | 0.06 | -1.95 |
| 9 | 4 | 0.90 | 4.16 | 0.04 | -0.00 | -0.07 | 2.27 |
| | 2 | -0.90 | 4.04 | -0.04 | 0.00 | -0.06 | -2.07 |
| 10 | 4 | 1.49 | 4.31 | -0.00 | -0.00 | 0.00 | 2.50 |
| | 2 | -1.49 | 3.88 | 0.00 | 0.00 | 0.00 | -1.78 |
| 11 | 4 | 4.09 | -25.68 | -0.01 | -0.01 | 0.01 | -47.98 |
| | 2 | -4.09 | 33.87 | 0.01 | 0.01 | 0.01 | -52.06 |
| 12 | 4 | 2.06 | 4.21 | -0.03 | -0.00 | 0.06 | 2.30 |
| | 2 | -2.06 | 3.98 | 0.03 | 0.00 | 0.05 | -1.91 |
| 13 | 4 | 1.14 | 4.19 | 0.03 | -0.01 | -0.06 | 2.30 |
| | 2 | -1.14 | 4.01 | -0.03 | 0.01 | -0.05 | -2.01 |
| 14 | 4 | 1.61 | 4.31 | -0.00 | -0.00 | 0.00 | 2.49 |
| | 2 | -1.61 | 3.89 | 0.00 | 0.00 | 0.00 | -1.78 |
| 15 | 4 | 3.69 | -19.68 | -0.01 | -0.01 | 0.01 | -37.89 |
| | 2 | -3.69 | 27.87 | 0.01 | 0.01 | 0.01 | -42.00 |
| | | | | | | | |
| 12 | 7 | 3 | 0.69 | 3.37 | -0.00 | -0.00 | 0.00 | 1.44 |
| | | 4 | -0.69 | 3.37 | 0.00 | 0.00 | -0.00 | -1.44 |
| | 8 | 3 | 3.88 | -43.03 | -0.05 | 0.02 | 0.06 | -62.72 |
| | | 4 | -3.88 | 49.76 | 0.05 | -0.02 | 0.06 | -65.33 |
| | 9 | 3 | 3.88 | 49.76 | 0.05 | -0.02 | -0.06 | 65.33 |
| | | 4 | -3.88 | -43.03 | -0.05 | 0.02 | -0.06 | 62.72 |
| | 10 | 3 | 0.69 | 3.37 | -0.00 | -0.00 | 0.00 | 1.44 |
| | | 4 | -0.69 | 3.37 | 0.00 | 0.00 | -0.00 | -1.44 |
| | 11 | 3 | 0.89 | 3.37 | 0.00 | 0.00 | -0.00 | 1.43 |
| | | 4 | -0.89 | 3.37 | -0.00 | -0.00 | 0.00 | -1.43 |
| | 12 | 3 | 3.24 | -33.75 | -0.04 | 0.02 | 0.05 | -49.88 |
| | | 4 | -3.24 | 40.48 | 0.04 | -0.02 | 0.05 | -52.55 |
| | 13 | 3 | 3.24 | 40.48 | 0.04 | -0.02 | -0.05 | 52.55 |
| | | 4 | -3.24 | -33.75 | -0.04 | 0.02 | -0.05 | 49.88 |
| | 14 | 3 | 0.69 | 3.37 | -0.00 | -0.00 | 0.00 | 1.44 |
| | | 4 | -0.69 | 3.37 | 0.00 | 0.00 | -0.00 | -1.44 |
| | 15 | 3 | 0.84 | 3.37 | 0.00 | 0.00 | -0.00 | 1.43 |
| | | 4 | -0.84 | 3.37 | -0.00 | -0.00 | 0.00 | -1.43 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

MEMBER LOAD JT AXIAL SHEAR-Y SHEAR-Z TORSION MOM-Y MOM-Z

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 13 | 7 | 9 | -6.84 | -11.09 | 0.33 | -0.26 | -0.05 | -1.09 |
| | | 89 | 6.84 | 11.46 | -0.33 | 0.26 | -0.05 | -2.14 |
| | 8 | 9 | 193.26 | 40.62 | -0.78 | 0.59 | 0.40 | -50.65 |
| | | 89 | -193.26 | -40.33 | 0.78 | -0.59 | -0.18 | 62.27 |
| | 9 | 9 | -196.57 | -61.48 | 1.30 | -0.98 | -0.47 | 47.80 |
| | | 89 | 196.57 | 61.77 | -1.30 | 0.98 | 0.10 | -65.48 |
| | 10 | 9 | -5.18 | -8.77 | 0.22 | -0.19 | -0.03 | -0.90 |
| | | 89 | 5.18 | 9.06 | -0.22 | 0.19 | -0.03 | -1.65 |
| | 11 | 9 | -12.01 | -28.49 | 10.11 | -1.11 | -1.33 | -3.78 |
| | | 89 | 12.01 | 28.78 | -10.11 | 1.11 | -1.57 | -4.43 |
| | 12 | 9 | 152.27 | 28.94 | -0.51 | 0.38 | 0.31 | -40.84 |
| | | 89 | -152.27 | -28.58 | 0.51 | -0.38 | -0.16 | 49.11 |
| | 13 | 9 | -159.59 | -52.75 | 1.15 | -0.87 | -0.39 | 37.92 |
| | | 89 | 159.59 | 53.10 | -1.15 | 0.87 | 0.06 | -53.10 |
| | 14 | 9 | -6.49 | -10.57 | 0.29 | -0.24 | -0.04 | -1.04 |
| | | 89 | 6.49 | 10.93 | -0.29 | 0.24 | -0.04 | -2.03 |
| | 15 | 9 | -11.95 | -26.35 | 8.19 | -0.98 | -1.08 | -3.34 |
| | | 89 | 11.95 | 26.71 | -8.19 | 0.98 | -1.27 | -4.26 |
| 14 | 7 | 11 | 0.44 | -4.74 | 0.07 | -0.07 | -0.01 | -1.41 |
| | | 93 | -0.44 | 4.86 | -0.07 | 0.07 | -0.01 | 0.03 |
| | 8 | 11 | 7.23 | 25.30 | -12.42 | 1.33 | 1.76 | 4.05 |
| | | 93 | -7.23 | -25.18 | 12.42 | -1.33 | 1.80 | 3.19 |
| | 9 | 11 | -7.44 | -33.69 | 12.60 | -1.30 | -1.79 | -6.25 |
| | | 93 | 7.44 | 33.81 | -12.60 | 1.30 | -1.83 | -3.44 |
| | 10 | 11 | -0.88 | -4.48 | 0.08 | -0.06 | -0.01 | -0.91 |
| | | 93 | 0.88 | 4.60 | -0.08 | 0.06 | -0.01 | -0.40 |
| | 11 | 11 | 167.05 | 32.87 | -0.73 | 0.16 | 0.23 | -46.95 |
| | | 93 | -167.05 | -32.76 | 0.73 | -0.16 | -0.02 | 56.37 |
| | 12 | 11 | 6.22 | 19.03 | -9.92 | 1.04 | 1.41 | 2.78 |
| | | 93 | -6.22 | -18.91 | 9.92 | -1.04 | 1.44 | 2.66 |
| | 13 | 11 | -5.51 | -28.17 | 10.09 | -1.06 | -1.43 | -5.45 |
| | | 93 | 5.51 | 28.28 | -10.09 | 1.06 | -1.46 | -2.65 |
| | 14 | 11 | -0.26 | -4.80 | 0.07 | -0.06 | -0.01 | -1.18 |
| | | 93 | 0.26 | 4.92 | -0.07 | 0.06 | -0.01 | -0.21 |
| | 15 | 11 | 134.08 | 25.08 | -0.57 | 0.10 | 0.18 | -38.02 |
| | | 93 | -134.08 | -24.97 | 0.57 | -0.10 | -0.02 | 45.20 |
| 15 | 7 | 12 | 0.44 | -4.74 | -0.07 | 0.07 | 0.01 | -1.41 |
| | | 94 | -0.44 | 4.86 | 0.07 | -0.07 | 0.01 | 0.03 |
| | 8 | 12 | -7.44 | -33.69 | -12.60 | 1.30 | 1.79 | -6.25 |
| | | 94 | 7.44 | 33.81 | 12.60 | -1.30 | 1.83 | -3.44 |
| | 9 | 12 | 7.23 | 25.30 | 12.42 | -1.33 | -1.76 | 4.05 |
| | | 94 | -7.23 | -25.18 | -12.42 | 1.33 | -1.80 | 3.19 |

MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 10 | 12 | | -0.88 | -4.48 | -0.08 | 0.06 | 0.01 | -0.91 |
| | | 94 | 0.88 | 4.60 | 0.08 | -0.06 | 0.01 | -0.40 |
| 11 | 12 | | 167.05 | 32.87 | 0.73 | -0.16 | -0.23 | -46.95 |
| | | 94 | -167.05 | -32.76 | -0.73 | 0.16 | 0.02 | 56.37 |
| 12 | 12 | | -5.51 | -28.17 | -10.09 | 1.06 | 1.43 | -5.45 |
| | | 94 | 5.51 | 28.28 | 10.09 | -1.06 | 1.46 | -2.65 |
| 13 | 12 | | 6.22 | 19.03 | 9.92 | -1.04 | -1.41 | 2.78 |
| | | 94 | -6.22 | -18.91 | -9.92 | 1.04 | -1.44 | 2.66 |
| 14 | 12 | | -0.26 | -4.80 | -0.07 | 0.06 | 0.01 | -1.18 |
| | | 94 | 0.26 | 4.92 | 0.07 | -0.06 | 0.01 | -0.21 |
| 15 | 12 | | 134.08 | 25.08 | 0.57 | -0.10 | -0.18 | -38.02 |
| | | 94 | -134.08 | -24.97 | -0.57 | 0.10 | 0.02 | 45.20 |
| 16 | 7 | 11 | -1.92 | -4.40 | -0.01 | 0.00 | 0.00 | -0.57 |
| | | 90 | 1.92 | 4.52 | 0.01 | -0.00 | -0.00 | -0.71 |
| | 8 | 11 | 207.23 | 39.11 | 0.73 | -0.20 | -0.11 | -56.06 |
| | | 90 | -207.23 | -38.99 | -0.73 | 0.20 | -0.10 | 67.27 |
| | 9 | 11 | -203.65 | -50.37 | -0.79 | 0.22 | 0.12 | 54.00 |
| | | 90 | 203.65 | 50.48 | 0.79 | -0.22 | 0.11 | -68.47 |
| 10 | 11 | | -1.84 | -4.14 | -0.08 | 0.02 | 0.01 | -0.53 |
| | | 90 | 1.84 | 4.26 | 0.08 | -0.02 | 0.01 | -0.67 |
| 11 | 11 | | 5.10 | 15.74 | 9.77 | -1.02 | -1.27 | 2.36 |
| | | 90 | -5.10 | -15.62 | -9.77 | 1.02 | -1.54 | 2.14 |
| 12 | 11 | | 165.33 | 30.20 | 0.60 | -0.16 | -0.09 | -44.99 |
| | | 90 | -165.33 | -30.08 | -0.60 | 0.16 | -0.08 | 53.64 |
| 13 | 11 | | -163.37 | -41.38 | -0.62 | 0.17 | 0.09 | 43.06 |
| | | 90 | 163.37 | 41.50 | 0.62 | -0.17 | 0.08 | -54.95 |
| 14 | 11 | | -1.93 | -4.40 | -0.05 | 0.01 | 0.01 | -0.57 |
| | | 90 | 1.93 | 4.52 | 0.05 | -0.01 | 0.01 | -0.71 |
| 15 | 11 | | 3.63 | 11.50 | 7.83 | -0.82 | -1.01 | 1.74 |
| | | 90 | -3.63 | -11.38 | -7.83 | 0.82 | -1.23 | 1.54 |
| 17 | 7 | 9 | 185.10 | -0.74 | -0.53 | -0.00 | 0.87 | -1.24 |
| | | 98 | -182.93 | 0.74 | 0.53 | 0.00 | 0.98 | -1.33 |
| | 8 | 9 | -355.94 | 47.23 | 0.88 | -0.67 | -1.96 | 80.41 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 98 | 358.11 | -37.98 | -0.88 | 0.67 | -1.09 | 67.13 |
| 9 | 9 | 650.60 | -43.35 | -1.59 | 0.67 | 3.12 | -79.06 |
| | 98 | -648.44 | 43.35 | 1.59 | -0.67 | 2.38 | -71.05 |
| 10 | 9 | 145.81 | -0.53 | -0.53 | -0.00 | 0.88 | -0.88 |
| | 98 | -143.65 | 0.53 | 0.50 | 0.00 | 0.90 | -0.97 |
| 11 | 9 | 479.87 | -0.55 | 34.57 | 0.08 | -63.10 | -0.76 |
| | 98 | -477.71 | 0.55 | -34.57 | -0.08 | -56.62 | -1.14 |
| 12 | 9 | -225.07 | 37.51 | 0.49 | -0.54 | -1.23 | 63.87 |
| | 98 | 227.24 | -30.11 | -0.49 | 0.54 | -0.47 | 53.22 |
| 13 | 9 | 580.16 | -34.95 | -1.48 | 0.53 | 2.84 | -63.71 |
| | 98 | -578.00 | 34.95 | 1.48 | -0.53 | 2.30 | -57.33 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| | 14 | 9 | 176.33 | -0.70 | -0.64 | -0.00 | 1.05 | -1.17 |
| | | 98 | -174.16 | 0.70 | 0.61 | 0.00 | 1.11 | -1.26 |
| | 15 | 9 | 443.58 | -0.71 | 27.44 | 0.06 | -50.14 | -1.07 |
| | | 98 | -441.41 | 0.71 | -27.44 | -0.06 | -44.90 | -1.40 |
| 18 | 7 | 10 | 185.10 | 0.74 | -0.53 | 0.00 | 0.87 | 1.24 |
| | | 104 | -182.93 | -0.74 | 0.53 | -0.00 | 0.98 | 1.33 |
| | 8 | 10 | 650.60 | 43.35 | -1.59 | -0.67 | 3.12 | 79.06 |
| | | 104 | -648.44 | -43.35 | 1.59 | 0.67 | 2.38 | 71.05 |
| | 9 | 10 | -355.94 | -47.23 | 0.88 | 0.67 | -1.96 | -80.41 |
| | | 104 | 358.11 | 37.98 | -0.88 | -0.67 | -1.09 | -67.13 |
| | 10 | 10 | 145.81 | 0.53 | -0.53 | 0.00 | 0.88 | 0.88 |
| | | 104 | -143.65 | -0.53 | 0.50 | -0.00 | 0.90 | 0.97 |
| | 11 | 10 | 479.87 | 0.55 | 34.57 | -0.08 | -63.10 | 0.76 |
| | | 104 | -477.71 | -0.55 | -34.57 | 0.08 | -56.62 | 1.14 |
| | 12 | 10 | 580.16 | 34.95 | -1.48 | -0.53 | 2.84 | 63.71 |
| | | 104 | -578.00 | -34.95 | 1.48 | 0.53 | 2.30 | 57.33 |
| | 13 | 10 | -225.07 | -37.51 | 0.49 | 0.54 | -1.23 | -63.87 |
| | | 104 | 227.24 | 30.11 | -0.49 | -0.54 | -0.47 | -53.22 |
| | 14 | 10 | 176.33 | 0.70 | -0.64 | 0.00 | 1.05 | 1.17 |
| | | 104 | -174.16 | -0.70 | 0.61 | -0.00 | 1.11 | 1.26 |
| | 15 | 10 | 443.58 | 0.71 | 27.44 | -0.06 | -50.14 | 1.07 |
| | | 104 | -441.41 | -0.71 | -27.44 | 0.06 | -44.90 | 1.40 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 19 | 7 | 11 | 73.76 | -0.10 | 0.53 | 0.00 | -1.35 | -0.13 |
| | | 100 | -71.59 | 0.10 | -0.53 | -0.00 | -0.49 | -0.21 |
| | 8 | 11 | -415.64 | 47.21 | -0.35 | -0.85 | 0.67 | 80.21 |
| | | 100 | 417.81 | -37.96 | 0.35 | 0.85 | 0.53 | 67.26 |
| | 9 | 11 | 551.93 | -42.44 | 1.05 | 0.85 | -2.53 | -77.34 |
| | | 100 | -549.76 | 42.44 | -1.05 | -0.85 | -1.12 | -69.64 |
| | 10 | 11 | 69.66 | -0.09 | 0.19 | 0.00 | -0.64 | -0.12 |
| | | 100 | -67.49 | 0.09 | -0.19 | -0.00 | -0.03 | -0.20 |
| | 11 | 11 | -264.40 | -0.08 | 39.34 | 0.07 | -67.18 | -0.26 |
| | | 100 | 266.57 | 0.08 | -31.76 | -0.07 | -55.94 | -0.03 |
| | 12 | 11 | -314.39 | 37.74 | -0.06 | -0.68 | 0.01 | 64.14 |
| | | 100 | 316.56 | -30.35 | 0.06 | 0.68 | 0.21 | 53.76 |
| | 13 | 11 | 459.67 | -33.98 | 1.06 | 0.68 | -2.55 | -61.90 |
| | | 100 | -457.50 | 33.98 | -1.06 | -0.68 | -1.11 | -55.76 |
| | 14 | 11 | 73.85 | -0.10 | 0.37 | 0.00 | -1.04 | -0.13 |
| | | 100 | -71.69 | 0.10 | -0.37 | -0.00 | -0.24 | -0.20 |
| | 15 | 11 | -193.40 | -0.09 | 31.69 | 0.06 | -54.27 | -0.24 |
| | | 100 | 195.56 | 0.09 | -25.62 | -0.06 | -44.96 | -0.07 |
| 20 | 7 | 12 | 73.76 | 0.10 | 0.53 | -0.00 | -1.35 | 0.13 |
| | | 106 | -71.59 | -0.10 | -0.53 | 0.00 | -0.49 | 0.21 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 8 | 12 | 551.93 | 42.44 | 1.05 | -0.85 | -2.53 | 77.34 |
| | | 106 | -549.76 | -42.44 | -1.05 | 0.85 | -1.12 | 69.64 |
| | 9 | 12 | -415.64 | -47.21 | -0.35 | 0.85 | 0.67 | -80.21 |
| | | 106 | 417.81 | 37.96 | 0.35 | -0.85 | 0.53 | -67.26 |
| | 10 | 12 | 69.66 | 0.09 | 0.19 | -0.00 | -0.64 | 0.12 |
| | | 106 | -67.49 | -0.09 | -0.19 | 0.00 | -0.03 | 0.20 |
| | 11 | 12 | -264.40 | 0.08 | 39.34 | -0.07 | -67.18 | 0.26 |
| | | 106 | 266.57 | -0.08 | -31.76 | 0.07 | -55.94 | 0.03 |
| | 12 | 12 | 459.67 | 33.98 | 1.06 | -0.68 | -2.55 | 61.90 |
| | | 106 | -457.50 | -33.98 | -1.06 | 0.68 | -1.11 | 55.76 |
| | 13 | 12 | -314.39 | -37.74 | -0.06 | 0.68 | 0.01 | -64.14 |
| | | 106 | 316.56 | 30.35 | 0.06 | -0.68 | 0.21 | -53.76 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 14 | 12 | 73.85 | 0.10 | 0.37 | -0.00 | -1.04 | 0.13 |
| | | 106 | -71.69 | -0.10 | -0.37 | 0.00 | -0.24 | 0.20 |
| | 15 | 12 | -193.40 | 0.09 | 31.69 | -0.06 | -54.27 | 0.24 |
| | | 106 | 195.56 | -0.09 | -25.62 | 0.06 | -44.96 | 0.07 |
| | | | | | | | | |
| 21 | 7 | 13 | -6.25 | -10.41 | 0.36 | -0.25 | -0.05 | -1.03 |
| | | 103 | 6.25 | 10.78 | -0.36 | 0.25 | -0.05 | -2.00 |
| | 8 | 13 | 194.66 | 39.52 | -0.78 | 0.54 | 0.42 | -51.76 |
| | | 103 | -194.66 | -39.23 | 0.78 | -0.54 | -0.20 | 63.07 |
| | 9 | 13 | -196.97 | -59.27 | 1.35 | -0.93 | -0.49 | 49.00 |
| | | 103 | 196.97 | 59.56 | -1.35 | 0.93 | 0.11 | -66.04 |
| | 10 | 13 | -4.74 | -8.23 | 0.23 | -0.19 | -0.03 | -0.85 |
| | | 103 | 4.74 | 8.52 | -0.23 | 0.19 | -0.03 | -1.54 |
| | 11 | 13 | -9.72 | -22.64 | 11.53 | -0.71 | -1.52 | -2.97 |
| | | 103 | 9.72 | 22.93 | -11.53 | 0.71 | -1.79 | -3.56 |
| | 12 | 13 | 153.59 | 28.27 | -0.51 | 0.35 | 0.32 | -41.71 |
| | | 103 | -153.59 | -27.91 | 0.51 | -0.35 | -0.18 | 49.79 |
| | 13 | 13 | -159.72 | -50.76 | 1.20 | -0.83 | -0.41 | 38.89 |
| | | 103 | 159.72 | 51.12 | -1.20 | 0.83 | 0.07 | -53.50 |
| | 14 | 13 | -5.93 | -9.94 | 0.31 | -0.24 | -0.04 | -0.99 |
| | | 103 | 5.93 | 10.29 | -0.31 | 0.24 | -0.04 | -1.91 |
| | 15 | 13 | -9.92 | -21.46 | 9.35 | -0.66 | -1.23 | -2.68 |
| | | 103 | 9.92 | 21.81 | -9.35 | 0.66 | -1.45 | -3.52 |
| | | | | | | | | |
| 22 | 7 | 15 | 0.94 | -4.12 | 0.07 | -0.06 | -0.01 | -1.48 |
| | | 102 | -0.94 | 4.24 | -0.07 | 0.06 | -0.01 | 0.28 |
| | 8 | 15 | 5.04 | 17.94 | -13.66 | 0.99 | 1.91 | 2.95 |
| | | 102 | -5.04 | -17.82 | 13.66 | -0.99 | 2.01 | 2.18 |
| | 9 | 15 | -4.46 | -25.30 | 13.84 | -0.95 | -1.93 | -5.24 |
| | | 102 | 4.46 | 25.42 | -13.84 | 0.95 | -2.04 | -2.04 |
| | 10 | 15 | -0.51 | -3.98 | 0.07 | -0.05 | -0.01 | -0.95 |
| | | 102 | 0.51 | 4.10 | -0.07 | 0.05 | -0.01 | -0.21 |
| | 11 | 15 | 173.02 | 36.07 | -0.73 | 0.11 | 0.27 | -48.61 |
| | | 102 | -173.02 | -35.95 | 0.73 | -0.11 | -0.06 | 58.94 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

MEMBER LOAD JT AXIAL SHEAR-Y SHEAR-Z TORSION MOM-Y MOM-Z

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 12 | 15 | 4.63 | 13.32 | -10.92 | 0.78 | 1.53 | 1.87 |
| | 102 | -4.63 | -13.20 | 10.92 | -0.78 | 1.61 | 1.94 |
| 13 | 15 | -2.97 | -21.27 | 11.08 | -0.78 | -1.55 | -4.68 |
| | 102 | 2.97 | 21.38 | -11.08 | 0.78 | -1.63 | -1.44 |
| 14 | 15 | 0.19 | -4.21 | 0.07 | -0.06 | -0.01 | -1.25 |
| | 102 | -0.19 | 4.33 | -0.07 | 0.06 | -0.01 | 0.02 |
| 15 | 15 | 139.02 | 27.83 | -0.58 | 0.07 | 0.22 | -39.37 |
| | 102 | -139.02 | -27.71 | 0.58 | -0.07 | -0.05 | 47.34 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 23 | 7 | 16 | 0.94 | -4.12 | -0.07 | 0.06 | 0.01 | -1.48 |
| | | 107 | -0.94 | 4.24 | 0.07 | -0.06 | 0.01 | 0.28 |
| | 8 | 16 | -4.46 | -25.30 | -13.84 | 0.95 | 1.93 | -5.24 |
| | | 107 | 4.46 | 25.42 | 13.84 | -0.95 | 2.04 | -2.04 |
| | 9 | 16 | 5.04 | 17.94 | 13.66 | -0.99 | -1.91 | 2.95 |
| | | 107 | -5.04 | -17.82 | -13.66 | 0.99 | -2.01 | 2.18 |
| | 10 | 16 | -0.51 | -3.98 | -0.07 | 0.05 | 0.01 | -0.95 |
| | | 107 | 0.51 | 4.10 | 0.07 | -0.05 | 0.01 | -0.21 |
| | 11 | 16 | 173.02 | 36.07 | 0.73 | -0.11 | -0.27 | -48.61 |
| | | 107 | -173.02 | -35.95 | -0.73 | 0.11 | 0.06 | 58.94 |
| | 12 | 16 | -2.97 | -21.27 | -11.08 | 0.78 | 1.55 | -4.68 |
| | | 107 | 2.97 | 21.38 | 11.08 | -0.78 | 1.63 | -1.44 |
| | 13 | 16 | 4.63 | 13.32 | 10.92 | -0.78 | -1.53 | 1.87 |
| | | 107 | -4.63 | -13.20 | -10.92 | 0.78 | -1.61 | 1.94 |
| | 14 | 16 | 0.19 | -4.21 | -0.07 | 0.06 | 0.01 | -1.25 |
| | | 107 | -0.19 | 4.33 | 0.07 | -0.06 | 0.01 | 0.02 |
| | 15 | 16 | 139.02 | 27.83 | 0.58 | -0.07 | -0.22 | -39.37 |
| | | 107 | -139.02 | -27.71 | -0.58 | 0.07 | 0.05 | 47.34 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 24 | 7 | 15 | -1.83 | -4.29 | 0.06 | 0.02 | -0.01 | -0.57 |
| | | 101 | 1.83 | 4.41 | -0.06 | -0.02 | -0.01 | -0.68 |
| | 8 | 15 | 210.14 | 38.19 | 0.75 | -0.08 | -0.19 | -57.71 |
| | | 101 | -210.14 | -38.07 | -0.75 | 0.08 | -0.02 | 68.66 |
| | 9 | 15 | -206.26 | -49.15 | -0.71 | 0.12 | 0.19 | 55.65 |
| | | 101 | 206.26 | 49.27 | 0.71 | -0.12 | 0.02 | -69.78 |
| | 10 | 15 | -1.73 | -3.98 | -0.03 | 0.02 | 0.01 | -0.52 |
| | | 101 | 1.73 | 4.09 | 0.03 | -0.02 | 0.00 | -0.64 |
| | 11 | 15 | 3.40 | 10.58 | 11.23 | -0.61 | -1.45 | 1.62 |
| | | 101 | -3.40 | -10.47 | -11.23 | 0.61 | -1.77 | 1.40 |
| | 12 | 15 | 167.67 | 29.46 | 0.64 | -0.06 | -0.16 | -46.32 |
| | | 101 | -167.67 | -29.35 | -0.64 | 0.06 | -0.03 | 54.76 |
| | 13 | 15 | -165.45 | -40.41 | -0.53 | 0.10 | 0.15 | 44.38 |
| | | 101 | 165.45 | 40.53 | 0.53 | -0.10 | 0.01 | -55.99 |
| | 14 | 15 | -1.82 | -4.27 | 0.01 | 0.02 | -0.00 | -0.56 |
| | | 101 | 1.82 | 4.39 | -0.01 | -0.02 | -0.00 | -0.68 |
| | 15 | 15 | 2.28 | 7.38 | 9.02 | -0.49 | -1.16 | 1.15 |
| | | 101 | -2.28 | -7.26 | -9.02 | 0.49 | -1.43 | 0.95 |

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MEMBER END FORCES STRUCTURE TYPE = SPACE
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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 25 | 7 | 13 | 170.22 | -0.55 | -0.50 | -0.00 | 0.65 | -1.00 |
| | | 17 | -167.87 | 0.55 | 0.50 | 0.00 | 1.24 | -1.08 |
| | 8 | 13 | -251.95 | 42.44 | 0.99 | -0.89 | -1.93 | 77.35 |
| | | 17 | 254.30 | -32.43 | -0.99 | 0.89 | -1.77 | 63.04 |
| | 9 | 13 | 523.21 | -38.22 | -1.67 | 0.88 | 2.80 | -75.61 |
| | | 17 | -520.87 | 38.22 | 1.67 | -0.88 | 3.47 | -67.70 |
| | 10 | 13 | 134.46 | -0.39 | -0.50 | -0.00 | 0.72 | -0.71 |
| | | 17 | -132.11 | 0.39 | 0.46 | 0.00 | 1.09 | -0.77 |
| | 11 | 13 | 392.30 | -0.36 | 30.45 | 0.02 | -59.82 | -0.61 |
| | | 17 | -389.95 | 0.36 | -30.45 | -0.02 | -54.37 | -0.73 |
| | 12 | 13 | -146.77 | 33.75 | 0.59 | -0.71 | -1.29 | 61.51 |
| | | 17 | 149.11 | -25.74 | -0.59 | 0.71 | -0.93 | 50.03 |
| | 13 | 13 | 473.37 | -30.78 | -1.53 | 0.71 | 2.50 | -60.86 |
| | | 17 | -471.02 | 30.78 | 1.53 | -0.71 | 3.25 | -54.56 |
| | 14 | 13 | 162.36 | -0.52 | -0.60 | -0.00 | 0.84 | -0.94 |
| | | 17 | -160.02 | 0.52 | 0.57 | 0.00 | 1.35 | -1.02 |
| | 15 | 13 | 368.64 | -0.49 | 24.16 | 0.01 | -47.59 | -0.86 |
| | | 17 | -366.29 | 0.49 | -24.16 | -0.01 | -43.01 | -0.99 |
| 26 | 7 | 14 | 170.22 | 0.55 | -0.50 | 0.00 | 0.65 | 1.00 |
| | | 18 | -167.87 | -0.55 | 0.50 | -0.00 | 1.24 | 1.08 |
| | 8 | 14 | 523.21 | 38.22 | -1.67 | -0.88 | 2.80 | 75.61 |
| | | 18 | -520.87 | -38.22 | 1.67 | 0.88 | 3.47 | 67.70 |
| | 9 | 14 | -251.95 | -42.44 | 0.99 | 0.89 | -1.93 | -77.35 |
| | | 18 | 254.30 | 32.43 | -0.99 | -0.89 | -1.77 | -63.04 |
| | 10 | 14 | 134.46 | 0.39 | -0.50 | 0.00 | 0.72 | 0.71 |
| | | 18 | -132.11 | -0.39 | 0.46 | -0.00 | 1.09 | 0.77 |
| | 11 | 14 | 392.30 | 0.36 | 30.45 | -0.02 | -59.82 | 0.61 |
| | | 18 | -389.95 | -0.36 | -30.45 | 0.02 | -54.37 | 0.73 |
| | 12 | 14 | 473.37 | 30.78 | -1.53 | -0.71 | 2.50 | 60.86 |
| | | 18 | -471.02 | -30.78 | 1.53 | 0.71 | 3.25 | 54.56 |
| | 13 | 14 | -146.77 | -33.75 | 0.59 | 0.71 | -1.29 | -61.51 |
| | | 18 | 149.11 | 25.74 | -0.59 | -0.71 | -0.93 | -50.03 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 14 | 14 | 162.36 | 0.52 | -0.60 | 0.00 | 0.84 | 0.94 |
| | | 18 | -160.02 | -0.52 | 0.57 | -0.00 | 1.35 | 1.02 |
| | 15 | 14 | 368.64 | 0.49 | 24.16 | -0.01 | -47.59 | 0.86 |
| | | 18 | -366.29 | -0.49 | -24.16 | 0.01 | -43.01 | 0.99 |
| | 27 | 7 | 15 | 71.35 | -0.06 | 0.50 | 0.00 | -1.24 | -0.10 |
| | | | 19 | -69.00 | 0.06 | -0.50 | -0.00 | -0.65 | -0.12 |
| | | 8 | 15 | -307.44 | 42.22 | -0.33 | -0.96 | 0.51 | 77.25 |
| | | | 19 | 309.78 | -32.21 | 0.33 | 0.96 | 0.73 | 62.31 |
| | | 9 | 15 | 438.05 | -37.32 | 1.01 | 0.96 | -2.22 | -74.28 |
| | | | 19 | -435.71 | 37.32 | -1.01 | -0.96 | -1.59 | -65.66 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 10 | 15 | 66.48 | -0.06 | 0.20 | 0.00 | -0.58 | -0.09 |
| | 19 | -64.13 | 0.06 | -0.20 | -0.00 | -0.17 | -0.11 |
| 11 | 15 | -191.36 | -0.09 | 35.25 | 0.04 | -63.70 | -0.20 |
| | 19 | 193.71 | 0.09 | -27.04 | -0.04 | -53.09 | -0.15 |
| 12 | 15 | -228.06 | 33.77 | -0.07 | -0.77 | -0.08 | 61.78 |
| | 19 | 230.40 | -25.76 | 0.07 | 0.77 | 0.33 | 49.82 |
| 13 | 15 | 368.33 | -29.87 | 1.01 | 0.77 | -2.25 | -59.45 |
| | 19 | -365.99 | 29.87 | -1.01 | -0.77 | -1.53 | -52.55 |
| 14 | 15 | 71.08 | -0.06 | 0.36 | 0.00 | -0.94 | -0.10 |
| | 19 | -68.73 | 0.06 | -0.36 | -0.00 | -0.40 | -0.12 |
| 15 | 15 | -135.20 | -0.09 | 28.40 | 0.03 | -51.44 | -0.18 |
| | 19 | 137.54 | 0.09 | -21.83 | -0.03 | -42.73 | -0.15 |
| 28 | 7 | 16 | 71.35 | 0.06 | 0.50 | -0.00 | -1.24 | 0.10 |
| | | 20 | -69.00 | -0.06 | -0.50 | 0.00 | -0.65 | 0.12 |
| | 8 | 16 | 438.05 | 37.32 | 1.01 | -0.96 | -2.22 | 74.28 |
| | | 20 | -435.71 | -37.32 | -1.01 | 0.96 | -1.59 | 65.66 |
| | 9 | 16 | -307.44 | -42.22 | -0.33 | 0.96 | 0.51 | -77.25 |
| | | 20 | 309.78 | 32.21 | 0.33 | -0.96 | 0.73 | -62.31 |
| | 10 | 16 | 66.48 | 0.06 | 0.20 | -0.00 | -0.58 | 0.09 |
| | | 20 | -64.13 | -0.06 | -0.20 | 0.00 | -0.17 | 0.11 |
| | 11 | 16 | -191.36 | 0.09 | 35.25 | -0.04 | -63.70 | 0.20 |
| | | 20 | 193.71 | -0.09 | -27.04 | 0.04 | -53.09 | 0.15 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 12 | 16 | 368.33 | 29.87 | 1.01 | -0.77 | -2.25 | 59.45 |
| | | 20 | -365.99 | -29.87 | -1.01 | 0.77 | -1.53 | 52.55 |
| | 13 | 16 | -228.06 | -33.77 | -0.07 | 0.77 | -0.08 | -61.78 |
| | | 20 | 230.40 | 25.76 | 0.07 | -0.77 | 0.33 | -49.82 |
| | 14 | 16 | 71.08 | 0.06 | 0.36 | -0.00 | -0.94 | 0.10 |
| | | 20 | -68.73 | -0.06 | -0.36 | 0.00 | -0.40 | 0.12 |
| | 15 | 16 | -135.20 | 0.09 | 28.40 | -0.03 | -51.44 | 0.18 |
| | | 20 | 137.54 | -0.09 | -21.83 | 0.03 | -42.73 | 0.15 |
| 29 | 7 | 17 | -0.05 | 4.03 | 0.00 | -0.00 | -0.00 | 1.73 |
| | | 18 | 0.05 | 4.03 | -0.00 | 0.00 | 0.00 | -1.73 |
| | 8 | 17 | 4.92 | -79.55 | -0.03 | 0.60 | 0.05 | -112.53 |
| | | 18 | -4.92 | 85.34 | 0.03 | -0.60 | 0.04 | -115.01 |
| | 9 | 17 | 4.92 | 85.34 | 0.03 | -0.60 | -0.04 | 115.01 |
| | | 18 | -4.92 | -79.55 | -0.03 | 0.60 | -0.05 | 112.53 |
| | 10 | 17 | -0.04 | 2.90 | 0.00 | -0.00 | -0.00 | 1.24 |
| | | 18 | 0.04 | 2.90 | -0.00 | 0.00 | 0.00 | -1.24 |
| | 11 | 17 | -0.09 | 2.90 | 0.00 | -0.00 | 0.00 | 1.23 |
| | | 18 | 0.09 | 2.90 | -0.00 | 0.00 | -0.00 | -1.23 |
| | 12 | 17 | 3.92 | -62.15 | -0.03 | 0.48 | 0.04 | -89.38 |
| | | 18 | -3.92 | 69.75 | 0.03 | -0.48 | 0.03 | -92.65 |
| | 13 | 17 | 3.92 | 69.75 | 0.03 | -0.48 | -0.03 | 92.65 |
| | | 18 | -3.92 | -62.15 | -0.03 | 0.48 | -0.04 | 89.38 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 14 | 17 | -0.05 | 3.80 | 0.00 | -0.00 | -0.00 | 1.63 |
| | | 18 | 0.05 | 3.80 | -0.00 | 0.00 | 0.00 | -1.63 |
| | 15 | 17 | -0.09 | 3.80 | 0.00 | -0.00 | 0.00 | 1.63 |
| | | 18 | 0.09 | 3.80 | -0.00 | 0.00 | -0.00 | -1.63 |
| 30 | 7 | 19 | -0.00 | -0.74 | -0.00 | -0.04 | 0.00 | -1.78 |
| | | 17 | 0.00 | 2.12 | 0.00 | 0.04 | -0.00 | -3.02 |
| | 8 | 19 | 0.07 | 1.15 | -0.01 | 0.38 | 0.00 | 0.84 |
| | | 17 | -0.07 | 0.23 | 0.01 | -0.38 | 0.02 | 0.70 |
| | 9 | 19 | -0.08 | -1.84 | 0.00 | -0.44 | 0.00 | -3.23 |
| | | 17 | 0.08 | 3.22 | -0.00 | 0.44 | -0.00 | -5.27 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 10 | 19 | 0.01 | -0.07 | -0.00 | -0.03 | 0.00 | -0.72 |
| | | 17 | -0.01 | 1.44 | 0.00 | 0.03 | -0.00 | -1.81 |
| | 11 | 19 | 4.09 | -61.85 | -0.01 | -0.03 | 0.02 | -104.53 |
| | | 17 | -4.09 | 63.23 | 0.01 | 0.03 | 0.01 | -105.61 |
| | 12 | 19 | 0.06 | 0.53 | -0.01 | 0.29 | 0.00 | -0.04 |
| | | 17 | -0.06 | 0.85 | 0.01 | -0.29 | 0.02 | -0.49 |
| | 13 | 19 | -0.06 | -1.86 | 0.00 | -0.37 | 0.00 | -3.29 |
| | | 17 | 0.06 | 3.24 | -0.00 | 0.37 | -0.00 | -5.26 |
| | 14 | 19 | 0.01 | -0.44 | -0.00 | -0.04 | 0.00 | -1.29 |
| | | 17 | -0.01 | 1.82 | 0.00 | 0.04 | -0.00 | -2.50 |
| | 15 | 19 | 3.27 | -49.87 | -0.01 | -0.04 | 0.02 | -84.33 |
| | | 17 | -3.27 | 51.24 | 0.01 | 0.04 | 0.01 | -85.54 |
| | | | | | | | | |
| 31 | 7 | 20 | -0.00 | -0.74 | 0.00 | 0.04 | -0.00 | -1.78 |
| | | 18 | 0.00 | 2.12 | -0.00 | -0.04 | 0.00 | -3.02 |
| | 8 | 20 | -0.08 | -1.84 | -0.00 | 0.44 | -0.00 | -3.23 |
| | | 18 | 0.08 | 3.22 | 0.00 | -0.44 | 0.00 | -5.27 |
| | 9 | 20 | 0.07 | 1.15 | 0.01 | -0.38 | -0.00 | 0.84 |
| | | 18 | -0.07 | 0.23 | -0.01 | 0.38 | -0.02 | 0.70 |
| | 10 | 20 | 0.01 | -0.07 | 0.00 | 0.03 | -0.00 | -0.72 |
| | | 18 | -0.01 | 1.44 | -0.00 | -0.03 | 0.00 | -1.81 |
| | 11 | 20 | 4.09 | -61.85 | 0.01 | 0.03 | -0.02 | -104.53 |
| | | 18 | -4.09 | 63.23 | -0.01 | -0.03 | -0.01 | -105.61 |
| | 12 | 20 | -0.06 | -1.86 | -0.00 | 0.37 | -0.00 | -3.29 |
| | | 18 | 0.06 | 3.24 | 0.00 | -0.37 | 0.00 | -5.26 |
| | 13 | 20 | 0.06 | 0.53 | 0.01 | -0.29 | -0.00 | -0.04 |
| | | 18 | -0.06 | 0.85 | -0.01 | 0.29 | -0.02 | -0.49 |
| | 14 | 20 | 0.01 | -0.44 | 0.00 | 0.04 | -0.00 | -1.29 |
| | | 18 | -0.01 | 1.82 | -0.00 | -0.04 | 0.00 | -2.50 |
| | 15 | 20 | 3.27 | -49.87 | 0.01 | 0.04 | -0.02 | -84.33 |
| | | 18 | -3.27 | 51.24 | -0.01 | -0.04 | -0.01 | -85.54 |
| | | | | | | | | |
| 32 | 7 | 19 | -0.01 | 0.57 | 0.00 | -0.00 | 0.00 | 0.22 |
| | | 20 | 0.01 | 0.57 | -0.00 | 0.00 | -0.00 | -0.22 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

MEMBER LOAD JT AXIAL SHEAR-Y SHEAR-Z TORSION MOM-Y MOM-Z

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 8 | 19 | 4.99 | -89.54 | -0.00 | 0.23 | 0.00 | -124.13 |
| | 20 | -4.99 | 90.67 | 0.00 | -0.23 | 0.00 | -124.57 |
| 9 | 19 | 4.99 | 90.67 | 0.00 | -0.23 | -0.00 | 124.57 |
| | 20 | -4.99 | -89.54 | -0.00 | 0.23 | -0.00 | 124.13 |
| 10 | 19 | -0.01 | 0.57 | 0.00 | -0.00 | 0.00 | 0.22 |
| | 20 | 0.01 | 0.57 | -0.00 | 0.00 | -0.00 | -0.22 |
| 11 | 19 | 0.04 | 0.57 | 0.00 | -0.00 | 0.01 | 0.23 |
| | 20 | -0.04 | 0.57 | -0.00 | 0.00 | -0.01 | -0.23 |
| 12 | 19 | 3.99 | -71.52 | -0.00 | 0.18 | 0.00 | -99.26 |
| | 20 | -3.99 | 72.65 | 0.00 | -0.18 | 0.00 | -99.70 |
| 13 | 19 | 3.99 | 72.65 | 0.00 | -0.18 | -0.00 | 99.70 |
| | 20 | -3.99 | -71.52 | -0.00 | 0.18 | -0.00 | 99.26 |
| 14 | 19 | -0.01 | 0.57 | 0.00 | -0.00 | 0.00 | 0.22 |
| | 20 | 0.01 | 0.57 | -0.00 | 0.00 | -0.00 | -0.22 |
| 15 | 19 | 0.03 | 0.57 | 0.00 | -0.00 | 0.01 | 0.23 |
| | 20 | -0.03 | 0.57 | -0.00 | 0.00 | -0.01 | -0.23 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 33 | 7 | 17 | 155.76 | -0.61 | -0.50 | -0.00 | 0.74 | -1.15 |
| | | 21 | -153.41 | 0.61 | 0.50 | 0.00 | 1.14 | -1.13 |
| | 8 | 17 | -169.13 | 37.40 | 0.96 | -0.96 | -2.05 | 62.80 |
| | | 21 | 171.48 | -27.38 | -0.96 | 0.96 | -1.55 | 58.66 |
| | 9 | 17 | 417.78 | -33.26 | -1.63 | 0.96 | 3.02 | -61.32 |
| | | 21 | -415.44 | 33.26 | 1.63 | -0.96 | 3.10 | -63.41 |
| | 10 | 17 | 123.43 | -0.43 | -0.48 | -0.00 | 0.72 | -0.82 |
| | | 21 | -121.09 | 0.43 | 0.44 | 0.00 | 1.00 | -0.81 |
| | 11 | 17 | 319.49 | -0.44 | 26.36 | 0.00 | -47.62 | -0.84 |
| | | 21 | -317.14 | 0.44 | -26.36 | -0.00 | -51.21 | -0.81 |
| | 12 | 17 | -85.29 | 29.69 | 0.57 | -0.77 | -1.34 | 49.81 |
| | | 21 | 87.64 | -21.68 | -0.57 | 0.77 | -0.79 | 46.51 |
| | 13 | 17 | 384.24 | -26.83 | -1.50 | 0.76 | 2.72 | -49.48 |
| | | 21 | -381.89 | 26.83 | 1.50 | -0.76 | 2.92 | -51.15 |
| | 14 | 17 | 148.76 | -0.57 | -0.58 | -0.00 | 0.87 | -1.08 |
| | | 21 | -146.41 | 0.57 | 0.55 | 0.00 | 1.25 | -1.07 |
| | 15 | 17 | 305.60 | -0.58 | 20.89 | 0.00 | -37.80 | -1.10 |
| | | 21 | -303.26 | 0.58 | -20.89 | -0.00 | -40.53 | -1.07 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 34 | 7 | 18 | 155.76 | 0.61 | -0.50 | 0.00 | 0.74 | 1.15 |
| | | 22 | -153.41 | -0.61 | 0.50 | -0.00 | 1.14 | 1.13 |
| | 8 | 18 | 417.78 | 33.26 | -1.63 | -0.96 | 3.02 | 61.32 |
| | | 22 | -415.44 | -33.26 | 1.63 | 0.96 | 3.10 | 63.41 |
| | 9 | 18 | -169.13 | -37.40 | 0.96 | 0.96 | -2.05 | -62.80 |
| | | 22 | 171.48 | 27.38 | -0.96 | -0.96 | -1.55 | -58.66 |
| | 10 | 18 | 123.43 | 0.43 | -0.48 | 0.00 | 0.72 | 0.82 |
| | | 22 | -121.09 | -0.43 | 0.44 | -0.00 | 1.00 | 0.81 |
| | 11 | 18 | 319.49 | 0.44 | 26.36 | -0.00 | -47.62 | 0.84 |
| | | 22 | -317.14 | -0.44 | -26.36 | 0.00 | -51.21 | 0.81 |

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MEMBER END FORCES STRUCTURE TYPE = SPACE
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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 12 | | 18 | 384.24 | 26.83 | -1.50 | -0.76 | 2.72 | 49.48 |
| | | 22 | -381.89 | -26.83 | 1.50 | 0.76 | 2.92 | 51.15 |
| 13 | | 18 | -85.29 | -29.69 | 0.57 | 0.77 | -1.34 | -49.81 |
| | | 22 | 87.64 | 21.68 | -0.57 | -0.77 | -0.79 | -46.51 |
| 14 | | 18 | 148.76 | 0.57 | -0.58 | 0.00 | 0.87 | 1.08 |
| | | 22 | -146.41 | -0.57 | 0.55 | -0.00 | 1.25 | 1.07 |
| 15 | | 18 | 305.60 | 0.58 | 20.89 | -0.00 | -37.80 | 1.10 |
| | | 22 | -303.26 | -0.58 | -20.89 | 0.00 | -40.53 | 1.07 |
| 35 | 7 | 19 | 69.17 | -0.07 | 0.50 | 0.00 | -1.14 | -0.14 |
| | | 23 | -66.83 | 0.07 | -0.50 | -0.00 | -0.74 | -0.13 |
| 8 | | 19 | -221.39 | 37.19 | -0.26 | -0.97 | 0.33 | 62.20 |
| | | 23 | 223.73 | -27.18 | 0.26 | 0.97 | 0.64 | 58.50 |
| 9 | | 19 | 346.87 | -32.33 | 0.93 | 0.97 | -1.87 | -59.34 |
| | | 23 | -344.53 | 32.33 | -0.93 | -0.97 | -1.62 | -61.88 |
| 10 | | 19 | 63.63 | -0.07 | 0.21 | 0.00 | -0.55 | -0.13 |
| | | 23 | -61.29 | 0.07 | -0.21 | -0.00 | -0.25 | -0.13 |
| 11 | | 19 | -132.42 | -0.06 | 31.13 | 0.01 | -51.44 | -0.11 |
| | | 23 | 134.77 | 0.06 | -22.92 | -0.01 | -49.91 | -0.12 |
| 12 | | 19 | -159.42 | 29.74 | -0.01 | -0.77 | -0.19 | 49.73 |
| | | 23 | 161.76 | -21.73 | 0.01 | 0.77 | 0.22 | 46.77 |
| 13 | | 19 | 295.19 | -25.88 | 0.94 | 0.77 | -1.94 | -47.51 |
| | | 23 | -292.85 | 25.88 | -0.94 | -0.77 | -1.59 | -49.54 |
| 14 | | 19 | 68.60 | -0.07 | 0.37 | 0.00 | -0.89 | -0.14 |
| | | 23 | -66.26 | 0.07 | -0.37 | -0.00 | -0.50 | -0.13 |
| 15 | | 19 | -88.24 | -0.07 | 25.10 | 0.01 | -41.60 | -0.12 |
| | | 23 | 90.59 | 0.07 | -18.53 | -0.01 | -40.22 | -0.13 |
| 36 | 7 | 20 | 69.17 | 0.07 | 0.50 | -0.00 | -1.14 | 0.14 |
| | | 24 | -66.83 | -0.07 | -0.50 | 0.00 | -0.74 | 0.13 |
| 8 | | 20 | 346.87 | 32.33 | 0.93 | -0.97 | -1.87 | 59.34 |
| | | 24 | -344.53 | -32.33 | -0.93 | 0.97 | -1.62 | 61.88 |
| 9 | | 20 | -221.39 | -37.19 | -0.26 | 0.97 | 0.33 | -62.20 |
| | | 24 | 223.73 | 27.18 | 0.26 | -0.97 | 0.64 | -58.50 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 10 | 20 | 63.63 | 0.07 | 0.21 | -0.00 | -0.55 | 0.13 |
| | 24 | -61.29 | -0.07 | -0.21 | 0.00 | -0.25 | 0.13 |
| 11 | 20 | -132.42 | 0.06 | 31.13 | -0.01 | -51.44 | 0.11 |
| | 24 | 134.77 | -0.06 | -22.92 | 0.01 | -49.91 | 0.12 |
| 12 | 20 | 295.19 | 25.88 | 0.94 | -0.77 | -1.94 | 47.51 |
| | 24 | -292.85 | -25.88 | -0.94 | 0.77 | -1.59 | 49.54 |
| 13 | 20 | -159.42 | -29.74 | -0.01 | 0.77 | -0.19 | -49.73 |
| | 24 | 161.76 | 21.73 | 0.01 | -0.77 | 0.22 | -46.77 |
| 14 | 20 | 68.60 | 0.07 | 0.37 | -0.00 | -0.89 | 0.14 |
| | 24 | -66.26 | -0.07 | -0.37 | 0.00 | -0.50 | 0.13 |
| 15 | 20 | -88.24 | 0.07 | 25.10 | -0.01 | -41.60 | 0.12 |
| | 24 | 90.59 | -0.07 | -18.53 | 0.01 | -40.22 | 0.13 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 37 | 7 | 21 | 0.01 | 4.03 | 0.00 | -0.00 | -0.00 | 1.75 |
| | | 22 | -0.01 | 4.03 | -0.00 | 0.00 | 0.00 | -1.75 |
| | 8 | 21 | 4.98 | -69.92 | 0.01 | 0.54 | -0.01 | -99.24 |
| | | 22 | -4.98 | 75.72 | -0.01 | -0.54 | -0.02 | -101.74 |
| | 9 | 21 | 4.98 | 75.72 | -0.01 | -0.54 | 0.02 | 101.74 |
| | | 22 | -4.98 | -69.92 | 0.01 | 0.54 | 0.01 | 99.24 |
| | 10 | 21 | 0.01 | 2.90 | 0.00 | -0.00 | -0.00 | 1.25 |
| | | 22 | -0.01 | 2.90 | -0.00 | 0.00 | 0.00 | -1.25 |
| | 11 | 21 | 0.01 | 2.90 | 0.00 | -0.00 | -0.00 | 1.25 |
| | | 22 | -0.01 | 2.90 | -0.00 | 0.00 | 0.00 | -1.25 |
| | 12 | 21 | 3.99 | -54.45 | 0.01 | 0.43 | -0.01 | -78.74 |
| | | 22 | -3.99 | 62.06 | -0.01 | -0.43 | -0.02 | -82.04 |
| | 13 | 21 | 3.99 | 62.06 | -0.01 | -0.43 | 0.02 | 82.04 |
| | | 22 | -3.99 | -54.45 | 0.01 | 0.43 | 0.01 | 78.74 |
| | 14 | 21 | 0.01 | 3.80 | 0.00 | -0.00 | -0.00 | 1.65 |
| | | 22 | -0.01 | 3.80 | -0.00 | 0.00 | 0.00 | -1.65 |
| | 15 | 21 | 0.01 | 3.80 | 0.00 | -0.00 | -0.00 | 1.65 |
| | | 22 | -0.01 | 3.80 | -0.00 | 0.00 | 0.00 | -1.65 |
| 38 | 7 | 23 | 0.00 | -0.78 | -0.00 | -0.04 | 0.00 | -1.84 |
| | | 21 | -0.00 | 2.15 | 0.00 | 0.04 | 0.00 | -3.08 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 8 | 23 | 0.15 | 0.91 | 0.05 | 0.33 | -0.09 | 0.51 |
| | | 21 | -0.15 | 0.47 | -0.05 | -0.33 | -0.08 | 0.24 |
| | 9 | 23 | -0.14 | -1.66 | -0.06 | -0.38 | 0.10 | -2.98 |
| | | 21 | 0.14 | 3.03 | 0.06 | 0.38 | 0.10 | -4.89 |
| | 10 | 23 | 0.02 | -0.12 | -0.00 | -0.03 | 0.00 | -0.82 |
| | | 21 | -0.02 | 1.50 | 0.00 | 0.03 | 0.00 | -1.91 |
| | 11 | 23 | 4.11 | -54.82 | -0.00 | -0.03 | 0.00 | -92.71 |
| | | 21 | -4.11 | 56.20 | 0.00 | 0.03 | 0.00 | -93.80 |
| | 12 | 23 | 0.12 | 0.33 | 0.04 | 0.25 | -0.08 | -0.32 |
| | | 21 | -0.12 | 1.05 | -0.04 | -0.25 | -0.07 | -0.88 |
| | 13 | 23 | -0.11 | -1.72 | -0.05 | -0.32 | 0.08 | -3.11 |
| | | 21 | 0.11 | 3.10 | 0.05 | 0.32 | 0.08 | -4.99 |
| | 14 | 23 | 0.02 | -0.50 | -0.00 | -0.04 | 0.00 | -1.38 |
| | | 21 | -0.02 | 1.87 | 0.00 | 0.04 | 0.00 | -2.60 |
| | 15 | 23 | 3.29 | -44.25 | -0.00 | -0.04 | 0.00 | -74.89 |
| | | 21 | -3.29 | 45.63 | 0.00 | 0.04 | 0.00 | -76.11 |
| | | | | | | | | |
| 39 | 7 | 24 | 0.00 | -0.78 | 0.00 | 0.04 | -0.00 | -1.84 |
| | | 22 | -0.00 | 2.15 | -0.00 | -0.04 | -0.00 | -3.08 |
| | 8 | 24 | -0.14 | -1.66 | 0.06 | 0.38 | -0.10 | -2.98 |
| | | 22 | 0.14 | 3.03 | -0.06 | -0.38 | -0.10 | -4.89 |
| | 9 | 24 | 0.15 | 0.91 | -0.05 | -0.33 | 0.09 | 0.51 |
| | | 22 | -0.15 | 0.47 | 0.05 | 0.33 | 0.08 | 0.24 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 10 | 24 | 0.02 | -0.12 | 0.00 | 0.03 | -0.00 | -0.82 |
| | 22 | -0.02 | 1.50 | -0.00 | -0.03 | -0.00 | -1.91 |
| 11 | 24 | 4.11 | -54.82 | 0.00 | 0.03 | -0.00 | -92.71 |
| | 22 | -4.11 | 56.20 | -0.00 | -0.03 | -0.00 | -93.80 |
| 12 | 24 | -0.11 | -1.72 | 0.05 | 0.32 | -0.08 | -3.11 |
| | 22 | 0.11 | 3.10 | -0.05 | -0.32 | -0.08 | -4.99 |
| 13 | 24 | 0.12 | 0.33 | -0.04 | -0.25 | 0.08 | -0.32 |
| | 22 | -0.12 | 1.05 | 0.04 | 0.25 | 0.07 | -0.88 |
| 14 | 24 | 0.02 | -0.50 | 0.00 | 0.04 | -0.00 | -1.38 |
| | 22 | -0.02 | 1.87 | -0.00 | -0.04 | -0.00 | -2.60 |
| 15 | 24 | 3.29 | -44.25 | 0.00 | 0.04 | -0.00 | -74.89 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 22 | -3.29 | 45.63 | -0.00 | -0.04 | -0.00 | -76.11 |
| 40 | 7 | 23 | 0.00 | 0.57 | 0.00 | -0.00 | 0.00 | 0.22 |
| | | 24 | -0.00 | 0.57 | -0.00 | 0.00 | -0.00 | -0.22 |
| | 8 | 23 | 5.02 | -79.29 | 0.02 | 0.22 | -0.03 | -109.98 |
| | | 24 | -5.02 | 80.42 | -0.02 | -0.22 | -0.02 | -110.42 |
| | 9 | 23 | 5.02 | 80.42 | -0.02 | -0.22 | 0.02 | 110.42 |
| | | 24 | -5.02 | -79.29 | 0.02 | 0.22 | 0.03 | 109.98 |
| | 10 | 23 | 0.00 | 0.57 | 0.00 | -0.00 | 0.00 | 0.22 |
| | | 24 | -0.00 | 0.57 | -0.00 | 0.00 | -0.00 | -0.22 |
| | 11 | 23 | -0.00 | 0.57 | 0.00 | -0.00 | 0.00 | 0.22 |
| | | 24 | 0.00 | 0.57 | -0.00 | 0.00 | -0.00 | -0.22 |
| | 12 | 23 | 4.01 | -63.32 | 0.01 | 0.17 | -0.02 | -87.94 |
| | | 24 | -4.01 | 64.45 | -0.01 | -0.17 | -0.02 | -88.38 |
| | 13 | 23 | 4.01 | 64.45 | -0.01 | -0.17 | 0.02 | 88.38 |
| | | 24 | -4.01 | -63.32 | 0.01 | 0.17 | 0.02 | 87.94 |
| | 14 | 23 | 0.00 | 0.57 | 0.00 | -0.00 | 0.00 | 0.22 |
| | | 24 | -0.00 | 0.57 | -0.00 | 0.00 | -0.00 | -0.22 |
| | 15 | 23 | -0.00 | 0.57 | 0.00 | -0.00 | 0.00 | 0.22 |
| | | 24 | 0.00 | 0.57 | -0.00 | 0.00 | -0.00 | -0.22 |
| 41 | 7 | 21 | 141.27 | -0.60 | -0.50 | -0.00 | 0.78 | -1.12 |
| | | 25 | -138.92 | 0.60 | 0.50 | 0.00 | 1.10 | -1.12 |
| | 8 | 21 | -97.36 | 32.34 | 0.80 | -0.84 | -1.76 | 52.28 |
| | | 25 | 99.71 | -22.33 | -0.80 | 0.84 | -1.24 | 50.23 |
| | 9 | 21 | 323.35 | -28.19 | -1.48 | 0.84 | 2.80 | -50.74 |
| | | 25 | -321.01 | 28.19 | 1.48 | -0.84 | 2.74 | -54.96 |
| | 10 | 21 | 112.35 | -0.43 | -0.46 | -0.00 | 0.71 | -0.80 |
| | | 25 | -110.01 | 0.43 | 0.42 | 0.00 | 0.94 | -0.80 |
| | 11 | 21 | 253.71 | -0.42 | 22.25 | -0.00 | -38.96 | -0.79 |
| | | 25 | -251.37 | 0.42 | -22.25 | 0.00 | -44.46 | -0.80 |
| | 12 | 21 | -32.68 | 25.65 | 0.44 | -0.68 | -1.10 | 41.41 |
| | | 25 | 35.02 | -17.64 | -0.44 | 0.68 | -0.56 | 39.77 |
| | 13 | 21 | 303.90 | -22.77 | -1.38 | 0.67 | 2.55 | -41.01 |
| | | 25 | -301.55 | 22.77 | 1.38 | -0.67 | 2.62 | -44.38 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 14 | 21 | 135.10 | -0.56 | -0.57 | -0.00 | 0.88 | -1.05 |
| | | 25 | -132.75 | 0.56 | 0.54 | 0.00 | 1.19 | -1.06 |
| | 15 | 21 | 248.19 | -0.56 | 17.60 | -0.00 | -30.86 | -1.05 |
| | | 25 | -245.84 | 0.56 | -17.60 | 0.00 | -35.13 | -1.05 |
| 42 | 7 | 22 | 141.27 | 0.60 | -0.50 | 0.00 | 0.78 | 1.12 |
| | | 26 | -138.92 | -0.60 | 0.50 | -0.00 | 1.10 | 1.12 |
| | 8 | 22 | 323.35 | 28.19 | -1.48 | -0.84 | 2.80 | 50.74 |
| | | 26 | -321.01 | -28.19 | 1.48 | 0.84 | 2.74 | 54.96 |
| | 9 | 22 | -97.36 | -32.34 | 0.80 | 0.84 | -1.76 | -52.28 |
| | | 26 | 99.71 | 22.33 | -0.80 | -0.84 | -1.24 | -50.23 |
| | 10 | 22 | 112.35 | 0.43 | -0.46 | 0.00 | 0.71 | 0.80 |
| | | 26 | -110.01 | -0.43 | 0.42 | -0.00 | 0.94 | 0.80 |
| | 11 | 22 | 253.71 | 0.42 | 22.25 | 0.00 | -38.96 | 0.79 |
| | | 26 | -251.37 | -0.42 | -22.25 | -0.00 | -44.46 | 0.80 |
| | 12 | 22 | 303.90 | 22.77 | -1.38 | -0.67 | 2.55 | 41.01 |
| | | 26 | -301.55 | -22.77 | 1.38 | 0.67 | 2.62 | 44.38 |
| | 13 | 22 | -32.68 | -25.65 | 0.44 | 0.68 | -1.10 | -41.41 |
| | | 26 | 35.02 | 17.64 | -0.44 | -0.68 | -0.56 | -39.77 |
| | 14 | 22 | 135.10 | 0.56 | -0.57 | 0.00 | 0.88 | 1.05 |
| | | 26 | -132.75 | -0.56 | 0.54 | -0.00 | 1.19 | 1.06 |
| | 15 | 22 | 248.19 | 0.56 | 17.60 | 0.00 | -30.86 | 1.05 |
| | | 26 | -245.84 | -0.56 | -17.60 | -0.00 | -35.13 | 1.05 |
| 43 | 7 | 23 | 67.04 | -0.07 | 0.50 | 0.00 | -1.10 | -0.13 |
| | | 27 | -64.69 | 0.07 | -0.50 | -0.00 | -0.78 | -0.13 |
| | 8 | 23 | -145.36 | 32.25 | -0.13 | -0.84 | 0.08 | 51.81 |
| | | 27 | 147.70 | -22.24 | 0.13 | 0.84 | 0.41 | 50.34 |
| | 9 | 23 | 265.76 | -27.37 | 0.81 | 0.84 | -1.58 | -48.93 |
| | | 27 | -263.41 | 27.37 | -0.81 | -0.84 | -1.45 | -53.72 |
| | 10 | 23 | 60.84 | -0.07 | 0.23 | 0.00 | -0.57 | -0.12 |
| | | 27 | -58.50 | 0.07 | -0.23 | -0.00 | -0.31 | -0.12 |
| | 11 | 23 | -80.52 | -0.07 | 27.03 | 0.00 | -42.80 | -0.13 |
| | | 27 | 82.86 | 0.07 | -18.82 | -0.00 | -43.16 | -0.13 |
| | 12 | 23 | -98.77 | 25.78 | 0.09 | -0.68 | -0.37 | 41.42 |
| | | 27 | 101.12 | -17.77 | -0.09 | 0.68 | 0.02 | 40.25 |
| | 13 | 23 | 230.12 | -21.91 | 0.84 | 0.68 | -1.69 | -39.17 |
| | | 27 | -227.77 | 21.91 | -0.84 | -0.68 | -1.47 | -43.00 |
| | 14 | 23 | 66.19 | -0.07 | 0.39 | 0.00 | -0.89 | -0.13 |
| | | 27 | -63.84 | 0.07 | -0.39 | -0.00 | -0.56 | -0.13 |
| | 15 | 23 | -46.90 | -0.07 | 21.82 | 0.00 | -34.67 | -0.13 |
| | | 27 | 49.25 | 0.07 | -15.25 | -0.00 | -34.84 | -0.13 |
| 44 | 7 | 24 | 67.04 | 0.07 | 0.50 | -0.00 | -1.10 | 0.13 |
| | | 28 | -64.69 | -0.07 | -0.50 | 0.00 | -0.78 | 0.13 |

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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 8 | 24 | | 265.76 | 27.37 | 0.81 | -0.84 | -1.58 | 48.93 |
| | | 28 | -263.41 | -27.37 | -0.81 | 0.84 | -1.45 | 53.72 |
| 9 | 24 | | -145.36 | -32.25 | -0.13 | 0.84 | 0.08 | -51.81 |
| | | 28 | 147.70 | 22.24 | 0.13 | -0.84 | 0.41 | -50.34 |
| 10 | 24 | | 60.84 | 0.07 | 0.23 | -0.00 | -0.57 | 0.12 |
| | | 28 | -58.50 | -0.07 | -0.23 | 0.00 | -0.31 | 0.12 |
| 11 | 24 | | -80.52 | 0.07 | 27.03 | -0.00 | -42.80 | 0.13 |
| | | 28 | 82.86 | -0.07 | -18.82 | 0.00 | -43.16 | 0.13 |
| 12 | 24 | | 230.12 | 21.91 | 0.84 | -0.68 | -1.69 | 39.17 |
| | | 28 | -227.77 | -21.91 | -0.84 | 0.68 | -1.47 | 43.00 |
| 13 | 24 | | -98.77 | -25.78 | 0.09 | 0.68 | -0.37 | -41.42 |
| | | 28 | 101.12 | 17.77 | -0.09 | -0.68 | 0.02 | -40.25 |
| 14 | 24 | | 66.19 | 0.07 | 0.39 | -0.00 | -0.89 | 0.13 |
| | | 28 | -63.84 | -0.07 | -0.39 | 0.00 | -0.56 | 0.13 |
| 15 | 24 | | -46.90 | 0.07 | 21.82 | -0.00 | -34.67 | 0.13 |
| | | 28 | 49.25 | -0.07 | -15.25 | 0.00 | -34.84 | 0.13 |
| 45 | 7 | 25 | -0.00 | 4.03 | 0.00 | -0.00 | -0.00 | 1.75 |
| | | 26 | 0.00 | 4.03 | -0.00 | 0.00 | 0.00 | -1.75 |
| 8 | 25 | | 4.97 | -58.01 | 0.02 | 0.45 | -0.02 | -82.80 |
| | | 26 | -4.97 | 63.80 | -0.02 | -0.45 | -0.04 | -85.30 |
| 9 | 25 | | 4.97 | 63.80 | -0.02 | -0.45 | 0.04 | 85.30 |
| | | 26 | -4.97 | -58.01 | 0.02 | 0.45 | 0.02 | 82.80 |
| 10 | 25 | | -0.00 | 2.90 | 0.00 | -0.00 | -0.00 | 1.25 |
| | | 26 | 0.00 | 2.90 | -0.00 | 0.00 | 0.00 | -1.25 |
| 11 | 25 | | -0.00 | 2.90 | 0.00 | -0.00 | -0.00 | 1.25 |
| | | 26 | 0.00 | 2.90 | -0.00 | 0.00 | 0.00 | -1.25 |
| 12 | 25 | | 3.97 | -44.92 | 0.02 | 0.36 | -0.02 | -65.59 |
| | | 26 | -3.97 | 52.52 | -0.02 | -0.36 | -0.03 | -68.89 |
| 13 | 25 | | 3.97 | 52.52 | -0.02 | -0.36 | 0.03 | 68.89 |
| | | 26 | -3.97 | -44.92 | 0.02 | 0.36 | 0.02 | 65.59 |
| 14 | 25 | | -0.00 | 3.80 | 0.00 | -0.00 | -0.00 | 1.65 |
| | | 26 | 0.00 | 3.80 | -0.00 | 0.00 | 0.00 | -1.65 |
| 15 | 25 | | -0.00 | 3.80 | 0.00 | -0.00 | -0.00 | 1.65 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 26 | 0.00 | 3.80 | -0.00 | 0.00 | 0.00 | -1.65 |
| 46 | 7 | 27 | -0.00 | -0.78 | -0.00 | -0.04 | 0.00 | -1.85 |
| | | 25 | 0.00 | 2.16 | 0.00 | 0.04 | 0.00 | -3.09 |
| | 8 | 27 | 0.14 | 0.63 | 0.07 | 0.26 | -0.12 | 0.10 |
| | | 25 | -0.14 | 0.75 | -0.07 | -0.26 | -0.11 | -0.30 |
| | 9 | 27 | -0.15 | -1.38 | -0.07 | -0.32 | 0.12 | -2.59 |
| | | 25 | 0.15 | 2.76 | 0.07 | 0.32 | 0.13 | -4.37 |
| | 10 | 27 | 0.02 | -0.17 | -0.00 | -0.03 | 0.00 | -0.89 |
| | | 25 | -0.02 | 1.54 | 0.00 | 0.03 | 0.00 | -1.98 |
| | 11 | 27 | 4.10 | -46.02 | -0.00 | -0.03 | 0.00 | -77.92 |
| | | 25 | -4.10 | 47.40 | 0.00 | 0.03 | 0.00 | -79.01 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| | 12 | 27 | 0.11 | 0.10 | 0.05 | 0.19 | -0.09 | -0.65 |
| | | 25 | -0.11 | 1.27 | -0.05 | -0.19 | -0.08 | -1.31 |
| | 13 | 27 | -0.12 | -1.50 | -0.06 | -0.27 | 0.10 | -2.80 |
| | | 25 | 0.12 | 2.88 | 0.06 | 0.27 | 0.10 | -4.57 |
| | 14 | 27 | 0.01 | -0.53 | -0.00 | -0.04 | 0.00 | -1.45 |
| | | 25 | -0.01 | 1.91 | 0.00 | 0.04 | 0.00 | -2.66 |
| | 15 | 27 | 3.28 | -37.21 | -0.00 | -0.04 | 0.00 | -63.07 |
| | | 25 | -3.28 | 38.59 | 0.00 | 0.04 | 0.00 | -64.28 |
| 47 | 7 | 28 | -0.00 | -0.78 | 0.00 | 0.04 | -0.00 | -1.85 |
| | | 26 | 0.00 | 2.16 | -0.00 | -0.04 | -0.00 | -3.09 |
| | 8 | 28 | -0.15 | -1.38 | 0.07 | 0.32 | -0.12 | -2.59 |
| | | 26 | 0.15 | 2.76 | -0.07 | -0.32 | -0.13 | -4.37 |
| | 9 | 28 | 0.14 | 0.63 | -0.07 | -0.26 | 0.12 | 0.10 |
| | | 26 | -0.14 | 0.75 | 0.07 | 0.26 | 0.11 | -0.30 |
| | 10 | 28 | 0.02 | -0.17 | 0.00 | 0.03 | -0.00 | -0.89 |
| | | 26 | -0.02 | 1.54 | -0.00 | -0.03 | -0.00 | -1.98 |
| | 11 | 28 | 4.10 | -46.02 | 0.00 | 0.03 | -0.00 | -77.92 |
| | | 26 | -4.10 | 47.40 | -0.00 | -0.03 | -0.00 | -79.01 |
| | 12 | 28 | -0.12 | -1.50 | 0.06 | 0.27 | -0.10 | -2.80 |
| | | 26 | 0.12 | 2.88 | -0.06 | -0.27 | -0.10 | -4.57 |
| | 13 | 28 | 0.11 | 0.10 | -0.05 | -0.19 | 0.09 | -0.65 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 26 | -0.11 | 1.27 | 0.05 | 0.19 | 0.08 | -1.31 |
| | 14 | 28 | 0.01 | -0.53 | 0.00 | 0.04 | -0.00 | -1.45 |
| | | 26 | -0.01 | 1.91 | -0.00 | -0.04 | -0.00 | -2.66 |
| | 15 | 28 | 3.28 | -37.21 | 0.00 | 0.04 | -0.00 | -63.07 |
| | | 26 | -3.28 | 38.59 | -0.00 | -0.04 | -0.00 | -64.28 |
| 48 | 7 | 27 | -0.00 | 0.57 | 0.00 | -0.00 | 0.00 | 0.22 |
| | | 28 | 0.00 | 0.57 | -0.00 | 0.00 | -0.00 | -0.22 |
| | 8 | 27 | 5.01 | -66.40 | 0.03 | 0.19 | -0.04 | -92.19 |
| | | 28 | -5.01 | 67.53 | -0.03 | -0.19 | -0.04 | -92.63 |
| | 9 | 27 | 5.01 | 67.53 | -0.03 | -0.19 | 0.04 | 92.63 |
| | | 28 | -5.01 | -66.40 | 0.03 | 0.19 | 0.04 | 92.19 |
| | 10 | 27 | -0.00 | 0.57 | 0.00 | -0.00 | 0.00 | 0.22 |
| | | 28 | 0.00 | 0.57 | -0.00 | 0.00 | -0.00 | -0.22 |
| | 11 | 27 | 0.00 | 0.57 | 0.00 | -0.00 | 0.00 | 0.22 |
| | | 28 | -0.00 | 0.57 | -0.00 | 0.00 | -0.00 | -0.22 |
| | 12 | 27 | 4.01 | -53.01 | 0.02 | 0.15 | -0.03 | -73.71 |
| | | 28 | -4.01 | 54.14 | -0.02 | -0.15 | -0.03 | -74.15 |
| | 13 | 27 | 4.01 | 54.14 | -0.02 | -0.15 | 0.03 | 74.15 |
| | | 28 | -4.01 | -53.01 | 0.02 | 0.15 | 0.03 | 73.71 |
| | 14 | 27 | -0.00 | 0.57 | 0.00 | -0.00 | 0.00 | 0.22 |
| | | 28 | 0.00 | 0.57 | -0.00 | 0.00 | -0.00 | -0.22 |
| | 15 | 27 | -0.00 | 0.57 | 0.00 | -0.00 | 0.00 | 0.22 |
| | | 28 | 0.00 | 0.57 | -0.00 | 0.00 | -0.00 | -0.22 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 49 | 7 | 25 | 126.77 | -0.60 | -0.50 | -0.00 | 0.80 | -1.12 |
| | | 29 | -124.42 | 0.60 | 0.50 | 0.00 | 1.07 | -1.12 |
| | 8 | 25 | -39.26 | 27.26 | 0.63 | -0.69 | -1.43 | 42.30 |
| | | 29 | 41.61 | -17.25 | -0.63 | 0.69 | -0.93 | 41.16 |
| | 9 | 25 | 242.59 | -23.11 | -1.30 | 0.69 | 2.50 | -40.78 |
| | | 29 | -240.24 | 23.11 | 1.30 | -0.69 | 2.38 | -45.90 |
| | 10 | 25 | 101.23 | -0.43 | -0.44 | 0.00 | 0.69 | -0.80 |
| | | 29 | -98.88 | 0.43 | 0.40 | -0.00 | 0.88 | -0.80 |
| | 11 | 25 | 196.74 | -0.43 | 18.14 | -0.00 | -30.94 | -0.80 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 29 | -194.39 | 0.43 | -18.14 | 0.00 | -37.10 | -0.80 |
| 12 | 25 | 9.00 | 21.59 | 0.31 | -0.55 | -0.82 | 33.43 |
| | 29 | -6.66 | -13.58 | -0.31 | 0.55 | -0.33 | 32.51 |
| 13 | 25 | 234.49 | -18.71 | -1.24 | 0.55 | 2.32 | -33.04 |
| | 29 | -232.14 | 18.71 | 1.24 | -0.55 | 2.32 | -37.14 |
| 14 | 25 | 121.40 | -0.57 | -0.55 | 0.00 | 0.87 | -1.06 |
| | 29 | -119.05 | 0.57 | 0.52 | -0.00 | 1.13 | -1.06 |
| 15 | 25 | 197.80 | -0.57 | 14.32 | -0.00 | -24.43 | -1.06 |
| | 29 | -195.46 | 0.57 | -14.32 | 0.00 | -29.26 | -1.06 |
| | | | | | | | |
| 50 | 7 | 26 | 126.77 | 0.60 | -0.50 | 0.00 | 0.80 | 1.12 |
| | | 30 | -124.42 | -0.60 | 0.50 | -0.00 | 1.07 | 1.12 |
| | 8 | 26 | 242.59 | 23.11 | -1.30 | -0.69 | 2.50 | 40.78 |
| | | 30 | -240.24 | -23.11 | 1.30 | 0.69 | 2.38 | 45.90 |
| | 9 | 26 | -39.26 | -27.26 | 0.63 | 0.69 | -1.43 | -42.30 |
| | | 30 | 41.61 | 17.25 | -0.63 | -0.69 | -0.93 | -41.16 |
| | 10 | 26 | 101.23 | 0.43 | -0.44 | -0.00 | 0.69 | 0.80 |
| | | 30 | -98.88 | -0.43 | 0.40 | 0.00 | 0.88 | 0.80 |
| | 11 | 26 | 196.74 | 0.43 | 18.14 | 0.00 | -30.94 | 0.80 |
| | | 30 | -194.39 | -0.43 | -18.14 | -0.00 | -37.10 | 0.80 |
| | 12 | 26 | 234.49 | 18.71 | -1.24 | -0.55 | 2.32 | 33.04 |
| | | 30 | -232.14 | -18.71 | 1.24 | 0.55 | 2.32 | 37.14 |
| | 13 | 26 | 9.00 | -21.59 | 0.31 | 0.55 | -0.82 | -33.43 |
| | | 30 | -6.66 | 13.58 | -0.31 | -0.55 | -0.33 | -32.51 |
| | 14 | 26 | 121.40 | 0.57 | -0.55 | -0.00 | 0.87 | 1.06 |
| | | 30 | -119.05 | -0.57 | 0.52 | 0.00 | 1.13 | 1.06 |
| | 15 | 26 | 197.80 | 0.57 | 14.32 | 0.00 | -24.43 | 1.06 |
| | | 30 | -195.46 | -0.57 | -14.32 | -0.00 | -29.26 | 1.06 |
| | | | | | | | |
| 51 | 7 | 27 | 64.91 | -0.07 | 0.50 | -0.00 | -1.07 | -0.13 |
| | | 31 | -62.56 | 0.07 | -0.50 | 0.00 | -0.80 | -0.13 |
| | 8 | 27 | -81.93 | 27.31 | -0.02 | -0.69 | -0.13 | 42.11 |
| | | 31 | 84.28 | -17.30 | 0.02 | 0.69 | 0.19 | 41.53 |
| | 9 | 27 | 197.26 | -22.44 | 0.69 | 0.69 | -1.32 | -39.23 |
| | | 31 | -194.92 | 22.44 | -0.69 | -0.69 | -1.25 | -44.92 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 10 | 27 | 58.10 | -0.07 | 0.25 | -0.00 | -0.58 | -0.13 |
| | | 31 | -55.75 | 0.07 | -0.25 | 0.00 | -0.36 | -0.13 |
| | 11 | 27 | -37.41 | -0.07 | 22.92 | 0.00 | -34.76 | -0.13 |
| | | 31 | 39.76 | 0.07 | -14.71 | -0.00 | -35.78 | -0.13 |
| | 12 | 27 | -48.22 | 21.83 | 0.18 | -0.55 | -0.52 | 33.66 |
| | | 31 | 50.56 | -13.82 | -0.18 | 0.55 | -0.17 | 33.19 |
| | 13 | 27 | 175.14 | -17.97 | 0.75 | 0.55 | -1.48 | -31.42 |
| | | 31 | -172.79 | 17.97 | -0.75 | -0.55 | -1.32 | -35.96 |
| | 14 | 27 | 63.81 | -0.07 | 0.40 | -0.00 | -0.89 | -0.13 |
| | | 31 | -61.46 | 0.07 | -0.40 | 0.00 | -0.61 | -0.13 |
| | 15 | 27 | -12.60 | -0.07 | 18.53 | 0.00 | -28.23 | -0.13 |
| | | 31 | 14.95 | 0.07 | -11.96 | -0.00 | -28.95 | -0.13 |
| | | | | | | | | |
| 52 | 7 | 28 | 64.91 | 0.07 | 0.50 | 0.00 | -1.07 | 0.13 |
| | | 32 | -62.56 | -0.07 | -0.50 | -0.00 | -0.80 | 0.13 |
| | 8 | 28 | 197.26 | 22.44 | 0.69 | -0.69 | -1.32 | 39.23 |
| | | 32 | -194.92 | -22.44 | -0.69 | 0.69 | -1.25 | 44.92 |
| | 9 | 28 | -81.93 | -27.31 | -0.02 | 0.69 | -0.13 | -42.11 |
| | | 32 | 84.28 | 17.30 | 0.02 | -0.69 | 0.19 | -41.53 |
| | 10 | 28 | 58.10 | 0.07 | 0.25 | 0.00 | -0.58 | 0.13 |
| | | 32 | -55.75 | -0.07 | -0.25 | -0.00 | -0.36 | 0.13 |
| | 11 | 28 | -37.41 | 0.07 | 22.92 | -0.00 | -34.76 | 0.13 |
| | | 32 | 39.76 | -0.07 | -14.71 | 0.00 | -35.78 | 0.13 |
| | 12 | 28 | 175.14 | 17.97 | 0.75 | -0.55 | -1.48 | 31.42 |
| | | 32 | -172.79 | -17.97 | -0.75 | 0.55 | -1.32 | 35.96 |
| | 13 | 28 | -48.22 | -21.83 | 0.18 | 0.55 | -0.52 | -33.66 |
| | | 32 | 50.56 | 13.82 | -0.18 | -0.55 | -0.17 | -33.19 |
| | 14 | 28 | 63.81 | 0.07 | 0.40 | 0.00 | -0.89 | 0.13 |
| | | 32 | -61.46 | -0.07 | -0.40 | -0.00 | -0.61 | 0.13 |
| | 15 | 28 | -12.60 | 0.07 | 18.53 | -0.00 | -28.23 | 0.13 |
| | | 32 | 14.95 | -0.07 | -11.96 | 0.00 | -28.95 | 0.13 |
| | | | | | | | | |
| 53 | 7 | 29 | 0.01 | 4.03 | 0.00 | -0.00 | -0.00 | 1.74 |
| | | 30 | -0.01 | 4.03 | -0.00 | 0.00 | 0.00 | -1.74 |
| | 8 | 29 | 4.98 | -45.78 | 0.03 | 0.37 | -0.03 | -65.93 |
| | | 30 | -4.98 | 51.57 | -0.03 | -0.37 | -0.04 | -68.41 |
| | 9 | 29 | 4.98 | 51.57 | -0.03 | -0.37 | 0.04 | 68.41 |
| | | 30 | -4.98 | -45.78 | 0.03 | 0.37 | 0.03 | 65.93 |
| | 10 | 29 | 0.01 | 2.90 | 0.00 | -0.00 | -0.00 | 1.25 |
| | | 30 | -0.01 | 2.90 | -0.00 | 0.00 | 0.00 | -1.25 |
| | 11 | 29 | 0.01 | 2.90 | 0.00 | -0.00 | -0.00 | 1.25 |
| | | 30 | -0.01 | 2.90 | -0.00 | 0.00 | 0.00 | -1.25 |
| | 12 | 29 | 3.99 | -35.14 | 0.02 | 0.29 | -0.02 | -52.09 |
| | | 30 | -3.99 | 42.74 | -0.02 | -0.29 | -0.04 | -55.38 |
| | 13 | 29 | 3.99 | 42.74 | -0.02 | -0.29 | 0.04 | 55.38 |

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MEMBER END FORCES STRUCTURE TYPE = SPACE
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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 14 | | 29 | 0.01 | 3.80 | 0.00 | -0.00 | -0.00 | 1.65 |
| | | 30 | -0.01 | 3.80 | -0.00 | 0.00 | 0.00 | -1.65 |
| 15 | | 29 | 0.01 | 3.80 | 0.00 | -0.00 | -0.00 | 1.65 |
| | | 30 | -0.01 | 3.80 | -0.00 | 0.00 | 0.00 | -1.65 |
| 54 | 7 | 31 | 0.01 | -0.78 | -0.00 | -0.04 | 0.00 | -1.85 |
| | | 29 | -0.01 | 2.16 | 0.00 | 0.04 | 0.00 | -3.09 |
| | 8 | 31 | 0.16 | 0.35 | 0.07 | 0.20 | -0.12 | -0.30 |
| | | 29 | -0.16 | 1.03 | -0.07 | -0.20 | -0.11 | -0.83 |
| | 9 | 31 | -0.14 | -1.10 | -0.07 | -0.25 | 0.12 | -2.19 |
| | | 29 | 0.14 | 2.48 | 0.07 | 0.25 | 0.13 | -3.82 |
| | 10 | 31 | 0.03 | -0.21 | -0.00 | -0.03 | 0.00 | -0.97 |
| | | 29 | -0.03 | 1.59 | 0.00 | 0.03 | 0.00 | -2.05 |
| | 11 | 31 | 4.12 | -36.93 | -0.00 | -0.03 | 0.00 | -62.65 |
| | | 29 | -4.12 | 38.30 | 0.00 | 0.03 | 0.00 | -63.73 |
| | 12 | 31 | 0.13 | -0.12 | 0.05 | 0.14 | -0.09 | -0.97 |
| | | 29 | -0.13 | 1.50 | -0.05 | -0.14 | -0.08 | -1.74 |
| | 13 | 31 | -0.10 | -1.28 | -0.06 | -0.22 | 0.10 | -2.49 |
| | | 29 | 0.10 | 2.66 | 0.06 | 0.22 | 0.10 | -4.13 |
| | 14 | 31 | 0.03 | -0.57 | -0.00 | -0.04 | 0.00 | -1.51 |
| | | 29 | -0.03 | 1.94 | 0.00 | 0.04 | 0.00 | -2.71 |
| | 15 | 31 | 3.30 | -29.94 | -0.00 | -0.04 | 0.00 | -50.86 |
| | | 29 | -3.30 | 31.32 | 0.00 | 0.04 | 0.00 | -52.06 |
| 55 | 7 | 32 | 0.01 | -0.78 | 0.00 | 0.04 | -0.00 | -1.85 |
| | | 30 | -0.01 | 2.16 | -0.00 | -0.04 | -0.00 | -3.09 |
| | 8 | 32 | -0.14 | -1.10 | 0.07 | 0.25 | -0.12 | -2.19 |
| | | 30 | 0.14 | 2.48 | -0.07 | -0.25 | -0.13 | -3.82 |
| | 9 | 32 | 0.16 | 0.35 | -0.07 | -0.20 | 0.12 | -0.30 |
| | | 30 | -0.16 | 1.03 | 0.07 | 0.20 | 0.11 | -0.83 |
| | 10 | 32 | 0.03 | -0.21 | 0.00 | 0.03 | -0.00 | -0.97 |
| | | 30 | -0.03 | 1.59 | -0.00 | -0.03 | -0.00 | -2.05 |
| | 11 | 32 | 4.12 | -36.93 | 0.00 | 0.03 | -0.00 | -62.65 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 30 | -4.12 | 38.30 | -0.00 | -0.03 | -0.00 | -63.73 |
| 12 | 32 | -0.10 | -1.28 | 0.06 | 0.22 | -0.10 | -2.49 |
| | 30 | 0.10 | 2.66 | -0.06 | -0.22 | -0.10 | -4.13 |
| 13 | 32 | 0.13 | -0.12 | -0.05 | -0.14 | 0.09 | -0.97 |
| | 30 | -0.13 | 1.50 | 0.05 | 0.14 | 0.08 | -1.74 |
| 14 | 32 | 0.03 | -0.57 | 0.00 | 0.04 | -0.00 | -1.51 |
| | 30 | -0.03 | 1.94 | -0.00 | -0.04 | -0.00 | -2.71 |
| 15 | 32 | 3.30 | -29.94 | 0.00 | 0.04 | -0.00 | -50.86 |
| | 30 | -3.30 | 31.32 | -0.00 | -0.04 | -0.00 | -52.06 |
| 56 | 7 31 | 0.01 | 0.57 | 0.00 | -0.00 | 0.00 | 0.22 |
| | 32 | -0.01 | 0.57 | -0.00 | 0.00 | -0.00 | -0.22 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
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|---|---|---|---|---|---|---|---|
| 8 | 31 | 5.02 | -53.14 | 0.03 | 0.15 | -0.05 | -73.89 |
| | 32 | -5.02 | 54.27 | -0.03 | -0.15 | -0.04 | -74.33 |
| 9 | 31 | 5.02 | 54.27 | -0.03 | -0.15 | 0.04 | 74.33 |
| | 32 | -5.02 | -53.14 | 0.03 | 0.15 | 0.05 | 73.89 |
| 10 | 31 | 0.01 | 0.57 | 0.00 | -0.00 | 0.00 | 0.22 |
| | 32 | -0.01 | 0.57 | -0.00 | 0.00 | -0.00 | -0.22 |
| 11 | 31 | 0.01 | 0.57 | 0.00 | -0.00 | 0.00 | 0.22 |
| | 32 | -0.01 | 0.57 | -0.00 | 0.00 | -0.00 | -0.22 |
| 12 | 31 | 4.02 | -42.40 | 0.03 | 0.12 | -0.04 | -59.07 |
| | 32 | -4.02 | 43.53 | -0.03 | -0.12 | -0.03 | -59.51 |
| 13 | 31 | 4.02 | 43.53 | -0.03 | -0.12 | 0.03 | 59.51 |
| | 32 | -4.02 | -42.40 | 0.03 | 0.12 | 0.04 | 59.07 |
| 14 | 31 | 0.01 | 0.57 | 0.00 | -0.00 | 0.00 | 0.22 |
| | 32 | -0.01 | 0.57 | -0.00 | 0.00 | -0.00 | -0.22 |
| 15 | 31 | 0.01 | 0.57 | 0.00 | -0.00 | 0.00 | 0.22 |
| | 32 | -0.01 | 0.57 | -0.00 | 0.00 | -0.00 | -0.22 |
| 57 | 7 29 | 112.27 | -0.59 | -0.51 | 0.00 | 0.84 | -1.12 |
| | 33 | -109.92 | 0.59 | 0.51 | -0.00 | 1.07 | -1.11 |
| 8 | 29 | 4.81 | 22.20 | 0.44 | -0.52 | -1.06 | 32.49 |
| | 33 | -2.47 | -12.18 | -0.44 | 0.52 | -0.57 | 31.98 |
| 9 | 29 | 175.84 | -18.03 | -1.13 | 0.52 | 2.20 | -30.94 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 33 | -173.50 | 18.03 | 1.13 | -0.52 | 2.04 | -36.66 |
| 10 | 29 | 90.06 | -0.42 | -0.43 | 0.00 | 0.69 | -0.80 |
| | 33 | -87.71 | 0.42 | 0.39 | -0.00 | 0.86 | -0.79 |
| 11 | 29 | 148.85 | -0.42 | 14.02 | 0.00 | -23.01 | -0.80 |
| | 33 | -146.51 | 0.42 | -14.02 | -0.00 | -29.56 | -0.79 |
| 12 | 29 | 39.47 | 17.54 | 0.15 | -0.42 | -0.51 | 25.57 |
| | 33 | -37.12 | -9.53 | -0.15 | 0.42 | -0.04 | 25.17 |
| 13 | 29 | 176.29 | -14.64 | -1.11 | 0.42 | 2.09 | -25.17 |
| | 33 | -173.95 | 14.64 | 1.11 | -0.42 | 2.05 | -29.74 |
| 14 | 29 | 107.66 | -0.56 | -0.55 | 0.00 | 0.88 | -1.05 |
| | 33 | -105.32 | 0.56 | 0.52 | -0.00 | 1.11 | -1.04 |
| 15 | 29 | 154.70 | -0.56 | 11.01 | 0.00 | -18.08 | -1.05 |
| | 33 | -152.35 | 0.56 | -11.01 | -0.00 | -23.23 | -1.04 |
| 58 | 7 30 | 112.27 | 0.59 | -0.51 | -0.00 | 0.84 | 1.12 |
| | 34 | -109.92 | -0.59 | 0.51 | 0.00 | 1.07 | 1.11 |
| 8 | 30 | 175.84 | 18.03 | -1.13 | -0.52 | 2.20 | 30.94 |
| | 34 | -173.50 | -18.03 | 1.13 | 0.52 | 2.04 | 36.66 |
| 9 | 30 | 4.81 | -22.20 | 0.44 | 0.52 | -1.06 | -32.49 |
| | 34 | -2.47 | 12.18 | -0.44 | -0.52 | -0.57 | -31.98 |
| 10 | 30 | 90.06 | 0.42 | -0.43 | -0.00 | 0.69 | 0.80 |
| | 34 | -87.71 | -0.42 | 0.39 | 0.00 | 0.86 | 0.79 |
| 11 | 30 | 148.85 | 0.42 | 14.02 | -0.00 | -23.01 | 0.80 |
| | 34 | -146.51 | -0.42 | -14.02 | 0.00 | -29.56 | 0.79 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 12 | 30 | 176.29 | 14.64 | -1.11 | -0.42 | 2.09 | 25.17 |
| | 34 | -173.95 | -14.64 | 1.11 | 0.42 | 2.05 | 29.74 |
| 13 | 30 | 39.47 | -17.54 | 0.15 | 0.42 | -0.51 | -25.57 |
| | 34 | -37.12 | 9.53 | -0.15 | -0.42 | -0.04 | -25.17 |
| 14 | 30 | 107.66 | 0.56 | -0.55 | -0.00 | 0.88 | 1.05 |
| | 34 | -105.32 | -0.56 | 0.52 | 0.00 | 1.11 | 1.04 |
| 15 | 30 | 154.70 | 0.56 | 11.01 | -0.00 | -18.08 | 1.05 |
| | 34 | -152.35 | -0.56 | -11.01 | 0.00 | -23.23 | 1.04 |
| 59 | 7 31 | 62.78 | -0.06 | 0.51 | -0.00 | -1.05 | -0.13 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 35 | -60.43 | 0.06 | -0.51 | 0.00 | -0.87 | -0.12 |
| 8 | 31 | -31.49 | 22.39 | 0.11 | -0.52 | -0.34 | 32.56 |
| | 35 | 33.84 | -12.37 | -0.11 | 0.52 | -0.08 | 32.61 |
| 9 | 31 | 141.75 | -17.49 | 0.58 | 0.52 | -1.09 | -29.66 |
| | 35 | -139.40 | 17.49 | -0.58 | -0.52 | -1.09 | -35.93 |
| 10 | 31 | 55.40 | -0.06 | 0.28 | -0.00 | -0.61 | -0.12 |
| | 35 | -53.05 | 0.06 | -0.28 | 0.00 | -0.45 | -0.11 |
| 11 | 31 | -3.40 | -0.06 | 18.83 | -0.00 | -26.87 | -0.12 |
| | 35 | 5.74 | 0.06 | -10.62 | 0.00 | -28.35 | -0.11 |
| 12 | 31 | -8.05 | 17.89 | 0.29 | -0.42 | -0.68 | 26.02 |
| | 35 | 10.39 | -9.88 | -0.29 | 0.42 | -0.41 | 26.06 |
| 13 | 31 | 130.54 | -14.01 | 0.67 | 0.42 | -1.29 | -23.76 |
| | 35 | -128.20 | 14.01 | -0.67 | -0.42 | -1.22 | -28.77 |
| 14 | 31 | 61.46 | -0.06 | 0.43 | -0.00 | -0.90 | -0.12 |
| | 35 | -59.12 | 0.06 | -0.43 | 0.00 | -0.70 | -0.11 |
| 15 | 31 | 14.43 | -0.06 | 15.27 | -0.00 | -21.91 | -0.12 |
| | 35 | -12.08 | 0.06 | -8.70 | 0.00 | -23.02 | -0.11 |
| | | | | | | | |
| 60 7 | 32 | 62.78 | 0.06 | 0.51 | 0.00 | -1.05 | 0.13 |
| | 36 | -60.43 | -0.06 | -0.51 | -0.00 | -0.87 | 0.12 |
| 8 | 32 | 141.75 | 17.49 | 0.58 | -0.52 | -1.09 | 29.66 |
| | 36 | -139.40 | -17.49 | -0.58 | 0.52 | -1.09 | 35.93 |
| 9 | 32 | -31.49 | -22.39 | 0.11 | 0.52 | -0.34 | -32.56 |
| | 36 | 33.84 | 12.37 | -0.11 | -0.52 | -0.08 | -32.61 |
| 10 | 32 | 55.40 | 0.06 | 0.28 | 0.00 | -0.61 | 0.12 |
| | 36 | -53.05 | -0.06 | -0.28 | -0.00 | -0.45 | 0.11 |
| 11 | 32 | -3.40 | 0.06 | 18.83 | 0.00 | -26.87 | 0.12 |
| | 36 | 5.74 | -0.06 | -10.62 | -0.00 | -28.35 | 0.11 |
| 12 | 32 | 130.54 | 14.01 | 0.67 | -0.42 | -1.29 | 23.76 |
| | 36 | -128.20 | -14.01 | -0.67 | 0.42 | -1.22 | 28.77 |
| 13 | 32 | -8.05 | -17.89 | 0.29 | 0.42 | -0.68 | -26.02 |
| | 36 | 10.39 | 9.88 | -0.29 | -0.42 | -0.41 | -26.06 |
| 14 | 32 | 61.46 | 0.06 | 0.43 | 0.00 | -0.90 | 0.12 |
| | 36 | -59.12 | -0.06 | -0.43 | -0.00 | -0.70 | 0.11 |
| 15 | 32 | 14.43 | 0.06 | 15.27 | 0.00 | -21.91 | 0.12 |
| | 36 | -12.08 | -0.06 | -8.70 | -0.00 | -23.02 | 0.11 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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|---|---|---|---|---|---|---|---|---|
| 61 | 7 | 33 | -0.04 | 4.03 | 0.00 | -0.00 | -0.00 | 1.75 |
| | | 34 | 0.04 | 4.03 | -0.00 | 0.00 | 0.00 | -1.75 |
| | 8 | 33 | 4.91 | -33.47 | 0.03 | 0.28 | -0.03 | -48.93 |
| | | 34 | -4.91 | 39.26 | -0.03 | -0.28 | -0.04 | -51.45 |
| | 9 | 33 | 4.91 | 39.26 | -0.03 | -0.28 | 0.04 | 51.45 |
| | | 34 | -4.91 | -33.47 | 0.03 | 0.28 | 0.03 | 48.93 |
| | 10 | 33 | -0.03 | 2.90 | 0.00 | -0.00 | -0.00 | 1.25 |
| | | 34 | 0.03 | 2.90 | -0.00 | 0.00 | 0.00 | -1.25 |
| | 11 | 33 | -0.03 | 2.90 | 0.00 | -0.00 | -0.00 | 1.25 |
| | | 34 | 0.03 | 2.90 | -0.00 | 0.00 | 0.00 | -1.25 |
| | 12 | 33 | 3.92 | -25.29 | 0.02 | 0.22 | -0.02 | -38.49 |
| | | 34 | -3.92 | 32.89 | -0.02 | -0.22 | -0.04 | -41.81 |
| | 13 | 33 | 3.92 | 32.89 | -0.02 | -0.22 | 0.04 | 41.81 |
| | | 34 | -3.92 | -25.29 | 0.02 | 0.22 | 0.02 | 38.49 |
| | 14 | 33 | -0.03 | 3.80 | 0.00 | -0.00 | -0.00 | 1.65 |
| | | 34 | 0.03 | 3.80 | -0.00 | 0.00 | 0.00 | -1.65 |
| | 15 | 33 | -0.03 | 3.80 | 0.00 | -0.00 | -0.00 | 1.65 |
| | | 34 | 0.03 | 3.80 | -0.00 | 0.00 | 0.00 | -1.65 |
| 62 | 7 | 35 | -0.06 | -0.77 | -0.00 | -0.04 | 0.00 | -1.82 |
| | | 33 | 0.06 | 2.15 | 0.00 | 0.04 | -0.00 | -3.09 |
| | 8 | 35 | 0.08 | 0.08 | 0.07 | 0.13 | -0.12 | -0.67 |
| | | 33 | -0.08 | 1.30 | -0.07 | -0.13 | -0.11 | -1.38 |
| | 9 | 35 | -0.20 | -0.82 | -0.08 | -0.19 | 0.13 | -1.77 |
| | | 33 | 0.20 | 2.20 | 0.08 | 0.19 | 0.13 | -3.30 |
| | 10 | 35 | -0.04 | -0.24 | -0.00 | -0.03 | 0.00 | -1.01 |
| | | 33 | 0.04 | 1.62 | 0.00 | 0.03 | -0.00 | -2.13 |
| | 11 | 35 | 4.02 | -27.75 | -0.00 | -0.03 | 0.00 | -47.21 |
| | | 33 | -4.02 | 29.13 | 0.00 | 0.03 | -0.00 | -48.34 |
| | 12 | 35 | 0.05 | -0.33 | 0.06 | 0.09 | -0.10 | -1.26 |
| | | 33 | -0.05 | 1.71 | -0.06 | -0.09 | -0.09 | -2.17 |
| | 13 | 35 | -0.18 | -1.05 | -0.06 | -0.16 | 0.10 | -2.14 |
| | | 33 | 0.18 | 2.43 | 0.06 | 0.16 | 0.11 | -3.71 |
| | 14 | 35 | -0.05 | -0.59 | -0.00 | -0.04 | 0.00 | -1.53 |
| | | 33 | 0.05 | 1.97 | 0.00 | 0.04 | -0.00 | -2.77 |
| | 15 | 35 | 3.20 | -22.60 | -0.00 | -0.04 | 0.00 | -38.50 |
| | | 33 | -3.20 | 23.97 | 0.00 | 0.04 | -0.00 | -39.74 |
| 63 | 7 | 36 | -0.06 | -0.77 | 0.00 | 0.04 | -0.00 | -1.82 |
| | | 34 | 0.06 | 2.15 | -0.00 | -0.04 | 0.00 | -3.09 |
| | 8 | 36 | -0.20 | -0.82 | 0.08 | 0.19 | -0.13 | -1.77 |
| | | 34 | 0.20 | 2.20 | -0.08 | -0.19 | -0.13 | -3.30 |
| | 9 | 36 | 0.08 | 0.08 | -0.07 | -0.13 | 0.12 | -0.67 |

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MEMBER END FORCES STRUCTURE TYPE = SPACE
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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| | 10 | 36 | -0.04 | -0.24 | 0.00 | 0.03 | -0.00 | -1.01 |
| | | 34 | 0.04 | 1.62 | -0.00 | -0.03 | 0.00 | -2.13 |
| | 11 | 36 | 4.02 | -27.75 | 0.00 | 0.03 | -0.00 | -47.21 |
| | | 34 | -4.02 | 29.13 | -0.00 | -0.03 | 0.00 | -48.34 |
| | 12 | 36 | -0.18 | -1.05 | 0.06 | 0.16 | -0.10 | -2.14 |
| | | 34 | 0.18 | 2.43 | -0.06 | -0.16 | -0.11 | -3.71 |
| | 13 | 36 | 0.05 | -0.33 | -0.06 | -0.09 | 0.10 | -1.26 |
| | | 34 | -0.05 | 1.71 | 0.06 | 0.09 | 0.09 | -2.17 |
| | 14 | 36 | -0.05 | -0.59 | 0.00 | 0.04 | -0.00 | -1.53 |
| | | 34 | 0.05 | 1.97 | -0.00 | -0.04 | 0.00 | -2.77 |
| | 15 | 36 | 3.20 | -22.60 | 0.00 | 0.04 | -0.00 | -38.50 |
| | | 34 | -3.20 | 23.97 | -0.00 | -0.04 | 0.00 | -39.74 |
| 64 | 7 | 35 | -0.03 | 0.57 | 0.00 | -0.00 | 0.00 | 0.23 |
| | | 36 | 0.03 | 0.57 | -0.00 | 0.00 | -0.00 | -0.23 |
| | 8 | 35 | 4.95 | -39.79 | 0.03 | 0.12 | -0.05 | -55.45 |
| | | 36 | -4.95 | 40.92 | -0.03 | -0.12 | -0.04 | -55.93 |
| | 9 | 35 | 4.95 | 40.92 | -0.03 | -0.12 | 0.04 | 55.93 |
| | | 36 | -4.95 | -39.79 | 0.03 | 0.12 | 0.05 | 55.45 |
| | 10 | 35 | -0.03 | 0.57 | 0.00 | -0.00 | 0.00 | 0.23 |
| | | 36 | 0.03 | 0.57 | -0.00 | 0.00 | -0.00 | -0.23 |
| | 11 | 35 | -0.03 | 0.57 | 0.00 | -0.00 | 0.00 | 0.23 |
| | | 36 | 0.03 | 0.57 | -0.00 | 0.00 | -0.00 | -0.23 |
| | 12 | 35 | 3.95 | -31.72 | 0.03 | 0.09 | -0.04 | -44.32 |
| | | 36 | -3.95 | 32.85 | -0.03 | -0.09 | -0.03 | -44.79 |
| | 13 | 35 | 3.95 | 32.85 | -0.03 | -0.09 | 0.03 | 44.79 |
| | | 36 | -3.95 | -31.72 | 0.03 | 0.09 | 0.04 | 44.32 |
| | 14 | 35 | -0.03 | 0.57 | 0.00 | -0.00 | 0.00 | 0.23 |
| | | 36 | 0.03 | 0.57 | -0.00 | 0.00 | -0.00 | -0.23 |
| | 15 | 35 | -0.03 | 0.57 | 0.00 | -0.00 | 0.00 | 0.23 |
| | | 36 | 0.03 | 0.57 | -0.00 | 0.00 | -0.00 | -0.23 |
| 65 | 7 | 33 | 97.77 | -0.63 | -0.45 | 0.00 | 0.83 | -1.15 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 37 | -95.43 | 0.63 | 0.45 | -0.00 | 0.85 | -1.21 |
| 8 | 33 | 34.79 | 17.06 | 0.32 | -0.35 | -0.75 | 22.62 |
| | 37 | -32.44 | -7.05 | -0.32 | 0.35 | -0.43 | 22.57 |
| 9 | 33 | 123.21 | -13.01 | -0.89 | 0.35 | 1.85 | -21.19 |
| | 37 | -120.86 | 13.01 | 0.89 | -0.35 | 1.51 | -27.59 |
| 10 | 33 | 78.86 | -0.45 | -0.35 | 0.00 | 0.63 | -0.82 |
| | 37 | -76.51 | 0.45 | 0.32 | -0.00 | 0.63 | -0.87 |
| 11 | 33 | 110.14 | -0.45 | 10.00 | 0.00 | -15.16 | -0.82 |
| | 37 | -107.80 | 0.45 | -10.00 | -0.00 | -22.34 | -0.87 |
| 12 | 33 | 58.65 | 13.42 | 0.07 | -0.28 | -0.26 | 17.68 |
| | 37 | -56.31 | -5.41 | -0.07 | 0.28 | 0.01 | 17.61 |
| 13 | 33 | 129.39 | -10.64 | -0.90 | 0.28 | 1.81 | -17.37 |
| | 37 | -127.04 | 10.64 | 0.90 | -0.28 | 1.57 | -22.51 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| _ | | | | | | | | |
| | 14 | 33 | 93.91 | -0.59 | -0.47 | 0.00 | 0.84 | -1.08 |
| | | 37 | -91.56 | 0.59 | 0.44 | -0.00 | 0.86 | -1.14 |
| | 15 | 33 | 118.93 | -0.59 | 7.81 | 0.00 | -11.79 | -1.08 |
| | | 37 | -116.59 | 0.59 | -7.81 | -0.00 | -17.51 | -1.14 |
| 66 | 7 | 34 | 97.77 | 0.63 | -0.45 | -0.00 | 0.83 | 1.15 |
| | | 38 | -95.43 | -0.63 | 0.45 | 0.00 | 0.85 | 1.21 |
| | 8 | 34 | 123.21 | 13.01 | -0.89 | -0.35 | 1.85 | 21.19 |
| | | 38 | -120.86 | -13.01 | 0.89 | 0.35 | 1.51 | 27.59 |
| | 9 | 34 | 34.79 | -17.06 | 0.32 | 0.35 | -0.75 | -22.62 |
| | | 38 | -32.44 | 7.05 | -0.32 | -0.35 | -0.43 | -22.57 |
| | 10 | 34 | 78.86 | 0.45 | -0.35 | -0.00 | 0.63 | 0.82 |
| | | 38 | -76.51 | -0.45 | 0.32 | 0.00 | 0.63 | 0.87 |
| | 11 | 34 | 110.14 | 0.45 | 10.00 | -0.00 | -15.16 | 0.82 |
| | | 38 | -107.80 | -0.45 | -10.00 | 0.00 | -22.34 | 0.87 |
| | 12 | 34 | 129.39 | 10.64 | -0.90 | -0.28 | 1.81 | 17.37 |
| | | 38 | -127.04 | -10.64 | 0.90 | 0.28 | 1.57 | 22.51 |
| | 13 | 34 | 58.65 | -13.42 | 0.07 | 0.28 | -0.26 | -17.68 |
| | | 38 | -56.31 | 5.41 | -0.07 | -0.28 | 0.01 | -17.61 |
| | 14 | 34 | 93.91 | 0.59 | -0.47 | -0.00 | 0.84 | 1.08 |
| | | 38 | -91.56 | -0.59 | 0.44 | 0.00 | 0.86 | 1.14 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 15 | 34 | 118.93 | 0.59 | 7.81 | -0.00 | -11.79 | 1.08 |
| | | 38 | -116.59 | -0.59 | -7.81 | 0.00 | -17.51 | 1.14 |
| | 67 | 7 | 35 | 60.64 | -0.09 | 0.45 | -0.00 | -0.96 | -0.15 |
| | | | 39 | -58.29 | 0.09 | -0.45 | 0.00 | -0.73 | -0.20 |
| | | 8 | 35 | 5.87 | 17.39 | 0.16 | -0.36 | -0.47 | 22.97 |
| | | | 39 | -3.53 | -7.38 | -0.16 | 0.36 | -0.14 | 23.47 |
| | | 9 | 35 | 99.30 | -12.62 | 0.41 | 0.35 | -0.80 | -20.18 |
| | | | 39 | -96.96 | 12.62 | -0.41 | -0.35 | -0.76 | -27.14 |
| | | 10 | 35 | 52.73 | -0.09 | 0.24 | -0.00 | -0.56 | -0.14 |
| | | | 39 | -50.38 | 0.09 | -0.24 | 0.00 | -0.34 | -0.19 |
| | | 11 | 35 | 21.44 | -0.09 | 14.64 | -0.00 | -18.87 | -0.14 |
| | | | 39 | -19.10 | 0.09 | -6.42 | 0.00 | -20.62 | -0.19 |
| | | 12 | 35 | 21.66 | 13.89 | 0.32 | -0.28 | -0.76 | 18.34 |
| | | | 39 | -19.31 | -5.88 | -0.32 | 0.28 | -0.42 | 18.73 |
| | | 13 | 35 | 96.40 | -10.12 | 0.52 | 0.28 | -1.02 | -16.18 |
| | | | 39 | -94.06 | 10.12 | -0.52 | -0.28 | -0.92 | -21.76 |
| | | 14 | 35 | 59.14 | -0.09 | 0.38 | -0.00 | -0.83 | -0.15 |
| | | | 39 | -56.80 | 0.09 | -0.38 | 0.00 | -0.59 | -0.20 |
| | | 15 | 35 | 34.11 | -0.09 | 11.90 | -0.00 | -15.48 | -0.15 |
| | | | 39 | -31.77 | 0.09 | -5.33 | 0.00 | -16.81 | -0.20 |
| | 68 | 7 | 36 | 60.64 | 0.09 | 0.45 | 0.00 | -0.96 | 0.15 |
| | | | 40 | -58.29 | -0.09 | -0.45 | -0.00 | -0.73 | 0.20 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 8 | 36 | 99.30 | 12.62 | 0.41 | -0.35 | -0.80 | 20.18 |
| | 40 | -96.96 | -12.62 | -0.41 | 0.35 | -0.76 | 27.14 |
| 9 | 36 | 5.87 | -17.39 | 0.16 | 0.36 | -0.47 | -22.97 |
| | 40 | -3.53 | 7.38 | -0.16 | -0.36 | -0.14 | -23.47 |
| 10 | 36 | 52.73 | 0.09 | 0.24 | 0.00 | -0.56 | 0.14 |
| | 40 | -50.38 | -0.09 | -0.24 | -0.00 | -0.34 | 0.19 |
| 11 | 36 | 21.44 | 0.09 | 14.64 | 0.00 | -18.87 | 0.14 |
| | 40 | -19.10 | -0.09 | -6.42 | -0.00 | -20.62 | 0.19 |
| 12 | 36 | 96.40 | 10.12 | 0.52 | -0.28 | -1.02 | 16.18 |
| | 40 | -94.06 | -10.12 | -0.52 | 0.28 | -0.92 | 21.76 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 13 | 36 | 21.66 | -13.89 | 0.32 | 0.28 | -0.76 | -18.34 |
| | | 40 | -19.31 | 5.88 | -0.32 | -0.28 | -0.42 | -18.73 |
| | 14 | 36 | 59.14 | 0.09 | 0.38 | 0.00 | -0.83 | 0.15 |
| | | 40 | -56.80 | -0.09 | -0.38 | -0.00 | -0.59 | 0.20 |
| | 15 | 36 | 34.11 | 0.09 | 11.90 | 0.00 | -15.48 | 0.15 |
| | | 40 | -31.77 | -0.09 | -5.33 | -0.00 | -16.81 | 0.20 |
| | | | | | | | | |
| 69 | 7 | 37 | 0.19 | 4.03 | 0.00 | -0.00 | -0.00 | 1.70 |
| | | 38 | -0.19 | 4.03 | -0.00 | 0.00 | 0.00 | -1.70 |
| | 8 | 37 | 5.28 | -20.92 | 0.01 | 0.18 | -0.01 | -31.69 |
| | | 38 | -5.28 | 26.71 | -0.01 | -0.18 | -0.03 | -34.04 |
| | 9 | 37 | 5.28 | 26.71 | -0.01 | -0.18 | 0.03 | 34.04 |
| | | 38 | -5.28 | -20.92 | 0.01 | 0.18 | 0.01 | 31.69 |
| | 10 | 37 | 0.16 | 2.90 | 0.00 | -0.00 | -0.00 | 1.21 |
| | | 38 | -0.16 | 2.90 | -0.00 | 0.00 | 0.00 | -1.21 |
| | 11 | 37 | 0.16 | 2.90 | 0.00 | -0.00 | -0.00 | 1.21 |
| | | 38 | -0.16 | 2.90 | -0.00 | 0.00 | 0.00 | -1.21 |
| | 12 | 37 | 4.28 | -15.25 | 0.01 | 0.15 | -0.01 | -24.71 |
| | | 38 | -4.28 | 22.85 | -0.01 | -0.15 | -0.02 | -27.87 |
| | 13 | 37 | 4.28 | 22.85 | -0.01 | -0.15 | 0.02 | 27.87 |
| | | 38 | -4.28 | -15.25 | 0.01 | 0.15 | 0.01 | 24.71 |
| | 14 | 37 | 0.18 | 3.80 | 0.00 | -0.00 | -0.00 | 1.61 |
| | | 38 | -0.18 | 3.80 | -0.00 | 0.00 | 0.00 | -1.61 |
| | 15 | 37 | 0.18 | 3.80 | 0.00 | -0.00 | -0.00 | 1.61 |
| | | 38 | -0.18 | 3.80 | -0.00 | 0.00 | 0.00 | -1.61 |
| | | | | | | | | |
| 70 | 7 | 39 | 0.32 | -0.73 | -0.00 | -0.04 | 0.00 | -1.82 |
| | | 37 | -0.32 | 2.11 | 0.00 | 0.04 | -0.00 | -2.94 |
| | 8 | 39 | 0.47 | -0.18 | 0.08 | 0.07 | -0.15 | -1.11 |
| | | 37 | -0.47 | 1.55 | -0.08 | -0.07 | -0.14 | -1.80 |
| | 9 | 39 | 0.12 | -0.50 | -0.09 | -0.12 | 0.15 | -1.37 |
| | | 37 | -0.12 | 1.88 | 0.09 | 0.12 | 0.16 | -2.62 |
| | 10 | 39 | 0.31 | -0.26 | -0.00 | -0.03 | 0.00 | -1.10 |
| | | 37 | -0.31 | 1.63 | 0.00 | 0.03 | -0.00 | -2.07 |
| | 11 | 39 | 4.54 | -18.34 | -0.00 | -0.03 | 0.00 | -31.52 |
| | | 37 | -4.54 | 19.72 | 0.00 | 0.03 | -0.00 | -32.43 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 12 | 39 | 0.45 | -0.52 | 0.07 | 0.04 | -0.12 | -1.60 |
| | | 37 | -0.45 | 1.90 | -0.07 | -0.04 | -0.11 | -2.47 |
| | 13 | 39 | 0.17 | -0.78 | -0.07 | -0.11 | 0.12 | -1.81 |
| | | 37 | -0.17 | 2.16 | 0.07 | 0.11 | 0.13 | -3.12 |
| | 14 | 39 | 0.33 | -0.58 | -0.00 | -0.04 | 0.00 | -1.60 |
| | | 37 | -0.33 | 1.96 | 0.00 | 0.04 | -0.00 | -2.68 |
| | 15 | 39 | 3.71 | -15.06 | -0.00 | -0.04 | 0.00 | -25.93 |
| | | 37 | -3.71 | 16.43 | 0.00 | 0.04 | -0.00 | -26.97 |
| 71 | 7 | 40 | 0.32 | -0.73 | 0.00 | 0.04 | -0.00 | -1.82 |
| | | 38 | -0.32 | 2.11 | -0.00 | -0.04 | 0.00 | -2.94 |
| | 8 | 40 | 0.12 | -0.50 | 0.09 | 0.12 | -0.15 | -1.37 |
| | | 38 | -0.12 | 1.88 | -0.09 | -0.12 | -0.16 | -2.62 |
| | 9 | 40 | 0.47 | -0.18 | -0.08 | -0.07 | 0.15 | -1.11 |
| | | 38 | -0.47 | 1.55 | 0.08 | 0.07 | 0.14 | -1.80 |
| | 10 | 40 | 0.31 | -0.26 | 0.00 | 0.03 | -0.00 | -1.10 |
| | | 38 | -0.31 | 1.63 | -0.00 | -0.03 | 0.00 | -2.07 |
| | 11 | 40 | 4.54 | -18.34 | 0.00 | 0.03 | -0.00 | -31.52 |
| | | 38 | -4.54 | 19.72 | -0.00 | -0.03 | 0.00 | -32.43 |
| | 12 | 40 | 0.17 | -0.78 | 0.07 | 0.11 | -0.12 | -1.81 |
| | | 38 | -0.17 | 2.16 | -0.07 | -0.11 | -0.13 | -3.12 |
| | 13 | 40 | 0.45 | -0.52 | -0.07 | -0.04 | 0.12 | -1.60 |
| | | 38 | -0.45 | 1.90 | 0.07 | 0.04 | 0.11 | -2.47 |
| | 14 | 40 | 0.33 | -0.58 | 0.00 | 0.04 | -0.00 | -1.60 |
| | | 38 | -0.33 | 1.96 | -0.00 | -0.04 | 0.00 | -2.68 |
| | 15 | 40 | 3.71 | -15.06 | 0.00 | 0.04 | -0.00 | -25.93 |
| | | 38 | -3.71 | 16.43 | -0.00 | -0.04 | 0.00 | -26.97 |
| 72 | 7 | 39 | 0.16 | 0.57 | 0.00 | -0.00 | 0.00 | 0.18 |
| | | 40 | -0.16 | 0.57 | -0.00 | 0.00 | -0.00 | -0.18 |
| | 8 | 39 | 5.31 | -26.15 | 0.02 | 0.07 | -0.02 | -36.72 |
| | | 40 | -5.31 | 27.28 | -0.02 | -0.07 | -0.02 | -37.01 |
| | 9 | 39 | 5.31 | 27.28 | -0.02 | -0.07 | 0.02 | 37.01 |
| | | 40 | -5.31 | -26.15 | 0.02 | 0.07 | 0.02 | 36.72 |
| | 10 | 39 | 0.14 | 0.57 | 0.00 | -0.00 | 0.00 | 0.19 |
| | | 40 | -0.14 | 0.57 | -0.00 | 0.00 | -0.00 | -0.19 |
| | 11 | 39 | 0.14 | 0.57 | 0.00 | -0.00 | 0.00 | 0.19 |
| | | 40 | -0.14 | 0.57 | -0.00 | 0.00 | -0.00 | -0.19 |
| | 12 | 39 | 4.29 | -20.81 | 0.01 | 0.06 | -0.02 | -29.34 |
| | | 40 | -4.29 | 21.94 | -0.01 | -0.06 | -0.02 | -29.64 |
| | 13 | 39 | 4.29 | 21.94 | -0.01 | -0.06 | 0.02 | 29.64 |
| | | 40 | -4.29 | -20.81 | 0.01 | 0.06 | 0.02 | 29.34 |
| | 14 | 39 | 0.15 | 0.57 | 0.00 | -0.00 | 0.00 | 0.18 |
| | | 40 | -0.15 | 0.57 | -0.00 | 0.00 | -0.00 | -0.18 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 15 | 39 | 0.15 | 0.57 | 0.00 | -0.00 | 0.00 | 0.18 |
| | | 40 | -0.15 | 0.57 | -0.00 | 0.00 | -0.00 | -0.18 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 73 | 7 | 37 | 83.33 | -0.44 | -0.77 | 0.01 | 1.21 | -0.98 |
| | | 41 | -80.98 | 0.44 | 0.77 | -0.01 | 1.66 | -0.66 |
| | 8 | 37 | 50.41 | 12.28 | -0.17 | -0.17 | -0.08 | 12.75 |
| | | 41 | -48.06 | -2.27 | 0.17 | 0.17 | 0.72 | 14.53 |
| | 9 | 37 | 85.00 | -7.59 | -1.00 | 0.19 | 1.82 | -10.75 |
| | | 41 | -82.65 | 7.59 | 1.00 | -0.19 | 1.92 | -17.72 |
| | 10 | 37 | 67.64 | -0.29 | -0.63 | 0.00 | 0.92 | -0.68 |
| | | 41 | -65.30 | 0.29 | 0.59 | -0.00 | 1.38 | -0.40 |
| | 11 | 37 | 80.84 | -0.29 | 5.46 | 0.00 | -6.48 | -0.68 |
| | | 41 | -78.50 | 0.29 | -5.46 | -0.00 | -14.01 | -0.40 |
| | 12 | 37 | 66.37 | 9.65 | -0.40 | -0.14 | 0.38 | 9.82 |
| | | 41 | -64.02 | -1.64 | 0.40 | 0.14 | 1.12 | 11.34 |
| | 13 | 37 | 94.04 | -6.25 | -1.06 | 0.15 | 1.90 | -8.98 |
| | | 41 | -91.69 | 6.25 | 1.06 | -0.15 | 2.07 | -14.46 |
| | 14 | 37 | 80.15 | -0.41 | -0.77 | 0.01 | 1.18 | -0.92 |
| | | 41 | -77.81 | 0.41 | 0.74 | -0.01 | 1.64 | -0.61 |
| | 15 | 37 | 90.71 | -0.41 | 4.11 | 0.01 | -4.74 | -0.92 |
| | | 41 | -88.37 | 0.41 | -4.11 | -0.01 | -10.67 | -0.61 |
| 74 | 7 | 38 | 83.33 | 0.44 | -0.77 | -0.01 | 1.21 | 0.98 |
| | | 42 | -80.98 | -0.44 | 0.77 | 0.01 | 1.66 | 0.66 |
| | 8 | 38 | 85.00 | 7.59 | -1.00 | -0.19 | 1.82 | 10.75 |
| | | 42 | -82.65 | -7.59 | 1.00 | 0.19 | 1.92 | 17.72 |
| | 9 | 38 | 50.41 | -12.28 | -0.17 | 0.17 | -0.08 | -12.75 |
| | | 42 | -48.06 | 2.27 | 0.17 | -0.17 | 0.72 | -14.53 |
| | 10 | 38 | 67.64 | 0.29 | -0.63 | -0.00 | 0.92 | 0.68 |
| | | 42 | -65.30 | -0.29 | 0.59 | 0.00 | 1.38 | 0.40 |
| | 11 | 38 | 80.84 | 0.29 | 5.46 | -0.00 | -6.48 | 0.68 |
| | | 42 | -78.50 | -0.29 | -5.46 | 0.00 | -14.01 | 0.40 |
| | 12 | 38 | 94.04 | 6.25 | -1.06 | -0.15 | 1.90 | 8.98 |
| | | 42 | -91.69 | -6.25 | 1.06 | 0.15 | 2.07 | 14.46 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 13 | 38 | 66.37 | -9.65 | -0.40 | 0.14 | 0.38 | -9.82 |
| | | 42 | -64.02 | 1.64 | 0.40 | -0.14 | 1.12 | -11.34 |
| | 14 | 38 | 80.15 | 0.41 | -0.77 | -0.01 | 1.18 | 0.92 |
| | | 42 | -77.81 | -0.41 | 0.74 | 0.01 | 1.64 | 0.61 |
| | 15 | 38 | 90.71 | 0.41 | 4.11 | -0.01 | -4.74 | 0.92 |
| | | 42 | -88.37 | -0.41 | -4.11 | 0.01 | -10.67 | 0.61 |
| | | | | | | | | |
| 75 | 7 | 39 | 58.46 | 0.06 | 0.77 | -0.00 | -1.10 | -0.02 |
| | | 43 | -56.11 | -0.06 | -0.77 | 0.00 | -1.77 | 0.25 |
| | 8 | 39 | 29.85 | 12.78 | 0.62 | -0.19 | -0.89 | 13.31 |
| | | 43 | -27.50 | -2.76 | -0.62 | 0.19 | -1.42 | 15.83 |
| | 9 | 39 | 70.18 | -7.40 | 0.55 | 0.18 | -0.69 | -9.99 |
| | | 43 | -67.83 | 7.40 | -0.55 | -0.18 | -1.37 | -17.75 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | 10 | 39 | 50.07 | 0.05 | 0.56 | -0.00 | -0.76 | -0.03 |
| | | 43 | -47.73 | -0.05 | -0.56 | 0.00 | -1.33 | 0.22 |
| | 11 | 39 | 36.87 | 0.05 | 10.96 | -0.00 | -10.90 | -0.03 |
| | | 43 | -34.53 | -0.05 | -2.75 | 0.00 | -14.81 | 0.22 |
| | 12 | 39 | 40.64 | 10.24 | 0.76 | -0.15 | -1.12 | 10.64 |
| | | 43 | -38.29 | -2.23 | -0.76 | 0.15 | -1.72 | 12.74 |
| | 13 | 39 | 72.90 | -5.90 | 0.70 | 0.14 | -0.95 | -8.00 |
| | | 43 | -70.55 | 5.90 | -0.70 | -0.14 | -1.68 | -14.13 |
| | 14 | 39 | 56.82 | 0.06 | 0.71 | -0.00 | -1.01 | -0.02 |
| | | 43 | -54.47 | -0.06 | -0.71 | 0.00 | -1.64 | 0.24 |
| | 15 | 39 | 46.26 | 0.06 | 9.03 | -0.00 | -9.12 | -0.02 |
| | | 43 | -43.91 | -0.06 | -2.46 | 0.00 | -12.43 | 0.24 |
| | | | | | | | | |
| 76 | 7 | 40 | 58.46 | -0.06 | 0.77 | 0.00 | -1.10 | 0.02 |
| | | 44 | -56.11 | 0.06 | -0.77 | -0.00 | -1.77 | -0.25 |
| | 8 | 40 | 70.18 | 7.40 | 0.55 | -0.18 | -0.69 | 9.99 |
| | | 44 | -67.83 | -7.40 | -0.55 | 0.18 | -1.37 | 17.75 |
| | 9 | 40 | 29.85 | -12.78 | 0.62 | 0.19 | -0.89 | -13.31 |
| | | 44 | -27.50 | 2.76 | -0.62 | -0.19 | -1.42 | -15.83 |
| | 10 | 40 | 50.07 | -0.05 | 0.56 | 0.00 | -0.76 | 0.03 |
| | | 44 | -47.73 | 0.05 | -0.56 | -0.00 | -1.33 | -0.22 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 11 | 40 | 36.87 | -0.05 | 10.96 | 0.00 | -10.90 | 0.03 |
| | | 44 | -34.53 | 0.05 | -2.75 | -0.00 | -14.81 | -0.22 |
| | 12 | 40 | 72.90 | 5.90 | 0.70 | -0.14 | -0.95 | 8.00 |
| | | 44 | -70.55 | -5.90 | -0.70 | 0.14 | -1.68 | 14.13 |
| | 13 | 40 | 40.64 | -10.24 | 0.76 | 0.15 | -1.12 | -10.64 |
| | | 44 | -38.29 | 2.23 | -0.76 | -0.15 | -1.72 | -12.74 |
| | 14 | 40 | 56.82 | -0.06 | 0.71 | 0.00 | -1.01 | 0.02 |
| | | 44 | -54.47 | 0.06 | -0.71 | -0.00 | -1.64 | -0.24 |
| | 15 | 40 | 46.26 | -0.06 | 9.03 | 0.00 | -9.12 | 0.02 |
| | | 44 | -43.91 | 0.06 | -2.46 | -0.00 | -12.43 | -0.24 |
| | | | | | | | | |
| 77 | 7 | 41 | -4.49 | 4.03 | 0.00 | -0.00 | -0.01 | 1.99 |
| | | 42 | 4.49 | 4.03 | -0.00 | 0.00 | 0.01 | -1.99 |
| | 8 | 41 | -0.48 | -6.65 | -0.02 | 0.08 | 0.03 | -11.52 |
| | | 42 | 0.48 | 12.44 | 0.02 | -0.08 | 0.03 | -14.82 |
| | 9 | 41 | -0.48 | 12.44 | 0.02 | -0.08 | -0.03 | 14.82 |
| | | 42 | 0.48 | -6.65 | -0.02 | 0.08 | -0.03 | 11.52 |
| | 10 | 41 | -4.01 | 2.90 | 0.00 | -0.00 | -0.01 | 1.46 |
| | | 42 | 4.01 | 2.90 | -0.00 | 0.00 | 0.01 | -1.46 |
| | 11 | 41 | -4.01 | 2.90 | 0.00 | -0.00 | -0.01 | 1.46 |
| | | 42 | 4.01 | 2.90 | -0.00 | 0.00 | 0.01 | -1.46 |
| | 12 | 41 | -1.57 | -3.83 | -0.02 | 0.06 | 0.02 | -8.50 |
| | | 42 | 1.57 | 11.43 | 0.02 | -0.06 | 0.02 | -12.57 |
| | 13 | 41 | -1.57 | 11.43 | 0.02 | -0.06 | -0.02 | 12.57 |
| | | 42 | 1.57 | -3.83 | -0.02 | 0.06 | -0.02 | 8.50 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 14 | 41 | -4.39 | 3.80 | 0.00 | -0.00 | -0.01 | 1.88 |
| | | 42 | 4.39 | 3.80 | -0.00 | 0.00 | 0.01 | -1.88 |
| | 15 | 41 | -4.39 | 3.80 | 0.00 | -0.00 | -0.01 | 1.88 |
| | | 42 | 4.39 | 3.80 | -0.00 | 0.00 | 0.01 | -1.88 |
| | | | | | | | | |
| 78 | 7 | 43 | -9.67 | -0.46 | 0.00 | -0.03 | -0.00 | -0.95 |
| | | 41 | 9.67 | 1.83 | -0.00 | 0.03 | -0.01 | -2.89 |
| | 8 | 43 | -8.62 | -0.23 | 0.08 | -0.02 | -0.13 | -0.72 |
| | | 41 | 8.62 | 1.61 | -0.08 | 0.02 | -0.13 | -2.38 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 9 | 43 | -9.07 | -0.04 | -0.08 | -0.03 | 0.14 | -0.32 |
| | | 41 | 9.07 | 1.42 | 0.08 | 0.03 | 0.13 | -2.14 |
| | 10 | 43 | -8.83 | -0.11 | 0.00 | -0.02 | -0.00 | -0.46 |
| | | 41 | 8.83 | 1.48 | -0.00 | 0.02 | -0.01 | -2.21 |
| | 11 | 43 | -5.93 | -7.58 | 0.00 | -0.02 | -0.00 | -12.88 |
| | | 41 | 5.93 | 8.96 | -0.00 | 0.02 | -0.01 | -14.91 |
| | 12 | 43 | -9.32 | -0.47 | 0.06 | -0.03 | -0.10 | -1.02 |
| | | 41 | 9.32 | 1.85 | -0.06 | 0.03 | -0.11 | -2.86 |
| | 13 | 43 | -9.68 | -0.32 | -0.06 | -0.04 | 0.11 | -0.71 |
| | | 41 | 9.68 | 1.69 | 0.06 | 0.04 | 0.10 | -2.67 |
| | 14 | 43 | -9.49 | -0.37 | 0.00 | -0.03 | -0.00 | -0.82 |
| | | 41 | 9.49 | 1.74 | -0.00 | 0.03 | -0.01 | -2.72 |
| | 15 | 43 | -7.17 | -6.35 | 0.00 | -0.03 | -0.00 | -10.76 |
| | | 41 | 7.17 | 7.72 | -0.00 | 0.03 | -0.01 | -12.88 |
| 79 | 7 | 44 | -9.67 | -0.46 | -0.00 | 0.03 | 0.00 | -0.95 |
| | | 42 | 9.67 | 1.83 | 0.00 | -0.03 | 0.01 | -2.89 |
| | 8 | 44 | -9.07 | -0.04 | 0.08 | 0.03 | -0.14 | -0.32 |
| | | 42 | 9.07 | 1.42 | -0.08 | -0.03 | -0.13 | -2.14 |
| | 9 | 44 | -8.62 | -0.23 | -0.08 | 0.02 | 0.13 | -0.72 |
| | | 42 | 8.62 | 1.61 | 0.08 | -0.02 | 0.13 | -2.38 |
| | 10 | 44 | -8.83 | -0.11 | -0.00 | 0.02 | 0.00 | -0.46 |
| | | 42 | 8.83 | 1.48 | 0.00 | -0.02 | 0.01 | -2.21 |
| | 11 | 44 | -5.93 | -7.58 | -0.00 | 0.02 | 0.00 | -12.88 |
| | | 42 | 5.93 | 8.96 | 0.00 | -0.02 | 0.01 | -14.91 |
| | 12 | 44 | -9.68 | -0.32 | 0.06 | 0.04 | -0.11 | -0.71 |
| | | 42 | 9.68 | 1.69 | -0.06 | -0.04 | -0.10 | -2.67 |
| | 13 | 44 | -9.32 | -0.47 | -0.06 | 0.03 | 0.10 | -1.02 |
| | | 42 | 9.32 | 1.85 | 0.06 | -0.03 | 0.11 | -2.86 |
| | 14 | 44 | -9.49 | -0.37 | -0.00 | 0.03 | 0.00 | -0.82 |
| | | 42 | 9.49 | 1.74 | 0.00 | -0.03 | 0.01 | -2.72 |
| | 15 | 44 | -7.17 | -6.35 | -0.00 | 0.03 | 0.00 | -10.76 |
| | | 42 | 7.17 | 7.72 | 0.00 | -0.03 | 0.01 | -12.88 |
| 80 | 7 | 43 | -4.18 | 0.57 | 0.00 | -0.00 | 0.00 | 0.42 |
| | | 44 | 4.18 | 0.57 | -0.00 | 0.00 | -0.00 | -0.42 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 8 | 43 | -0.22 | -10.40 | -0.02 | 0.05 | 0.03 | -14.53 |
| | | 44 | 0.22 | 11.54 | 0.02 | -0.05 | 0.03 | -15.75 |
| | 9 | 43 | -0.22 | 11.54 | 0.02 | -0.05 | -0.03 | 15.75 |
| | | 44 | 0.22 | -10.40 | -0.02 | 0.05 | -0.03 | 14.53 |
| | 10 | 43 | -3.80 | 0.57 | 0.00 | 0.00 | 0.00 | 0.41 |
| | | 44 | 3.80 | 0.57 | -0.00 | -0.00 | -0.00 | -0.41 |
| | 11 | 43 | -3.80 | 0.57 | 0.00 | 0.00 | 0.00 | 0.41 |
| | | 44 | 3.80 | 0.57 | -0.00 | -0.00 | -0.00 | -0.41 |
| | 12 | 43 | -1.24 | -8.21 | -0.02 | 0.04 | 0.03 | -11.53 |
| | | 44 | 1.24 | 9.34 | 0.02 | -0.04 | 0.02 | -12.69 |
| | 13 | 43 | -1.24 | 9.34 | 0.02 | -0.04 | -0.02 | 12.69 |
| | | 44 | 1.24 | -8.21 | -0.02 | 0.04 | -0.03 | 11.53 |
| | 14 | 43 | -4.11 | 0.57 | 0.00 | -0.00 | 0.00 | 0.42 |
| | | 44 | 4.11 | 0.57 | -0.00 | 0.00 | -0.00 | -0.42 |
| | 15 | 43 | -4.11 | 0.57 | 0.00 | -0.00 | 0.00 | 0.42 |
| | | 44 | 4.11 | 0.57 | -0.00 | 0.00 | -0.00 | -0.42 |
| 89 | 7 | 9 | -0.00 | 5.97 | -0.01 | -0.55 | 0.01 | 5.00 |
| | | 49 | 0.00 | -4.03 | 0.01 | 0.55 | 0.00 | -0.00 |
| | 8 | 9 | 0.05 | -4.69 | 0.02 | 12.05 | 0.06 | -4.11 |
| | | 49 | -0.05 | 6.13 | -0.02 | -12.05 | -0.08 | -1.30 |
| | 9 | 9 | -0.05 | 13.36 | 0.02 | -12.86 | -0.09 | 11.34 |
| | | 49 | 0.05 | -11.92 | -0.02 | 12.86 | 0.07 | 1.30 |
| | 10 | 9 | -0.00 | 4.34 | -0.01 | -0.40 | 0.01 | 3.62 |
| | | 49 | 0.00 | -2.90 | 0.01 | 0.40 | 0.00 | -0.00 |
| | 11 | 9 | -0.00 | 4.34 | -0.07 | -0.43 | 0.06 | 3.62 |
| | | 49 | 0.00 | -2.90 | 0.07 | 0.43 | 0.01 | -0.00 |
| | 12 | 9 | 0.04 | -1.58 | 0.01 | 9.44 | 0.05 | -1.46 |
| | | 49 | -0.04 | 3.42 | -0.01 | -9.44 | -0.06 | -1.04 |
| | 13 | 9 | -0.04 | 12.86 | 0.01 | -10.49 | -0.07 | 10.90 |
| | | 49 | 0.04 | -11.02 | -0.01 | 10.49 | 0.05 | 1.04 |
| | 14 | 9 | -0.00 | 5.64 | -0.01 | -0.52 | 0.01 | 4.72 |
| | | 49 | 0.00 | -3.80 | 0.01 | 0.52 | 0.00 | -0.00 |
| | 15 | 9 | -0.00 | 5.64 | -0.06 | -0.55 | 0.05 | 4.72 |
| | | 49 | 0.00 | -3.80 | 0.06 | 0.55 | 0.01 | -0.00 |
| 90 | 7 | 10 | 0.00 | 5.97 | 0.01 | 0.55 | -0.01 | 5.00 |
| | | 50 | -0.00 | -4.03 | -0.01 | -0.55 | -0.00 | 0.00 |
| | 8 | 10 | -0.05 | 13.36 | -0.02 | 12.86 | 0.09 | 11.34 |
| | | 50 | 0.05 | -11.92 | 0.02 | -12.86 | -0.07 | 1.30 |
| | 9 | 10 | 0.05 | -4.69 | -0.02 | -12.05 | -0.06 | -4.11 |
| | | 50 | -0.05 | 6.13 | 0.02 | 12.05 | 0.08 | -1.30 |
| | 10 | 10 | 0.00 | 4.34 | 0.01 | 0.40 | -0.01 | 3.62 |
| | | 50 | -0.00 | -2.90 | -0.01 | -0.40 | -0.00 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 11 | 10 | 0.00 | 4.34 | 0.07 | 0.43 | -0.06 | 3.62 |
| | 50 | -0.00 | -2.90 | -0.07 | -0.43 | -0.01 | 0.00 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 12 | | 10 | -0.04 | 12.86 | -0.01 | 10.49 | 0.07 | 10.90 |
| | | 50 | 0.04 | -11.02 | 0.01 | -10.49 | -0.05 | 1.04 |
| 13 | | 10 | 0.04 | -1.58 | -0.01 | -9.44 | -0.05 | -1.46 |
| | | 50 | -0.04 | 3.42 | 0.01 | 9.44 | 0.06 | -1.04 |
| 14 | | 10 | 0.00 | 5.64 | 0.01 | 0.52 | -0.01 | 4.72 |
| | | 50 | -0.00 | -3.80 | -0.01 | -0.52 | -0.00 | 0.00 |
| 15 | | 10 | 0.00 | 5.64 | 0.06 | 0.55 | -0.05 | 4.72 |
| | | 50 | -0.00 | -3.80 | -0.06 | -0.55 | -0.01 | 0.00 |
| 91 | 7 | 49 | -0.01 | 4.03 | 0.00 | 0.00 | -0.00 | 0.55 |
| | | 50 | 0.01 | 4.03 | -0.00 | -0.00 | 0.00 | -0.55 |
| 8 | | 49 | 0.02 | -6.13 | -0.05 | 1.30 | 0.08 | -12.05 |
| | | 50 | -0.02 | 11.92 | 0.05 | -1.30 | 0.07 | -12.86 |
| 9 | | 49 | 0.02 | 11.92 | 0.05 | -1.30 | -0.07 | 12.86 |
| | | 50 | -0.02 | -6.13 | -0.05 | 1.30 | -0.08 | 12.05 |
| 10 | | 49 | -0.01 | 2.90 | 0.00 | 0.00 | -0.00 | 0.40 |
| | | 50 | 0.01 | 2.90 | -0.00 | -0.00 | 0.00 | -0.40 |
| 11 | | 49 | -0.07 | 2.90 | 0.00 | 0.00 | -0.01 | 0.43 |
| | | 50 | 0.07 | 2.90 | -0.00 | -0.00 | 0.01 | -0.43 |
| 12 | | 49 | 0.01 | -3.42 | -0.04 | 1.04 | 0.06 | -9.44 |
| | | 50 | -0.01 | 11.02 | 0.04 | -1.04 | 0.05 | -10.49 |
| 13 | | 49 | 0.01 | 11.02 | 0.04 | -1.04 | -0.05 | 10.49 |
| | | 50 | -0.01 | -3.42 | -0.04 | 1.04 | -0.06 | 9.44 |
| 14 | | 49 | -0.01 | 3.80 | 0.00 | 0.00 | -0.00 | 0.52 |
| | | 50 | 0.01 | 3.80 | -0.00 | -0.00 | 0.00 | -0.52 |
| 15 | | 49 | -0.06 | 3.80 | 0.00 | 0.00 | -0.01 | 0.55 |
| | | 50 | 0.06 | 3.80 | -0.00 | -0.00 | 0.01 | -0.55 |
| 92 | 7 | 13 | -0.00 | 5.97 | -0.01 | -0.56 | 0.01 | 5.00 |
| | | 51 | 0.00 | -4.03 | 0.01 | 0.56 | 0.00 | -0.00 |
| 8 | | 13 | 0.05 | -4.96 | 0.02 | 12.44 | 0.05 | -4.38 |
| | | 51 | -0.05 | 6.40 | -0.02 | -12.44 | -0.08 | -1.31 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 9 | 13 | -0.05 | 13.64 | 0.02 | -13.23 | -0.08 | 11.61 |
| | 51 | 0.05 | -12.20 | -0.02 | 13.23 | 0.06 | 1.31 |
| 10 | 13 | -0.00 | 4.34 | -0.01 | -0.40 | 0.00 | 3.62 |
| | 51 | 0.00 | -2.90 | 0.01 | 0.40 | 0.00 | -0.00 |
| 11 | 13 | -0.00 | 4.34 | -0.10 | -0.41 | 0.09 | 3.62 |
| | 51 | 0.00 | -2.90 | 0.10 | 0.41 | 0.01 | -0.00 |
| 12 | 13 | 0.04 | -1.80 | 0.02 | 9.74 | 0.04 | -1.67 |
| | 51 | -0.04 | 3.64 | -0.02 | -9.74 | -0.06 | -1.04 |
| 13 | 13 | -0.04 | 13.08 | 0.02 | -10.79 | -0.06 | 11.12 |
| | 51 | 0.04 | -11.24 | -0.02 | 10.79 | 0.05 | 1.04 |
| 14 | 13 | -0.00 | 5.64 | -0.01 | -0.52 | 0.01 | 4.72 |
| | 51 | 0.00 | -3.80 | 0.01 | 0.52 | 0.00 | -0.00 |
| 15 | 13 | -0.00 | 5.64 | -0.08 | -0.54 | 0.08 | 4.72 |
| | 51 | 0.00 | -3.80 | 0.08 | 0.54 | 0.01 | -0.00 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 93 | 7 | 14 | 0.00 | 5.97 | 0.01 | 0.56 | -0.01 | 5.00 |
| | | 52 | -0.00 | -4.03 | -0.01 | -0.56 | -0.00 | 0.00 |
| | 8 | 14 | -0.05 | 13.64 | -0.02 | 13.23 | 0.08 | 11.61 |
| | | 52 | 0.05 | -12.20 | 0.02 | -13.23 | -0.06 | 1.31 |
| | 9 | 14 | 0.05 | -4.96 | -0.02 | -12.44 | -0.05 | -4.38 |
| | | 52 | -0.05 | 6.40 | 0.02 | 12.44 | 0.08 | -1.31 |
| | 10 | 14 | 0.00 | 4.34 | 0.01 | 0.40 | -0.00 | 3.62 |
| | | 52 | -0.00 | -2.90 | -0.01 | -0.40 | -0.00 | 0.00 |
| | 11 | 14 | 0.00 | 4.34 | 0.10 | 0.41 | -0.09 | 3.62 |
| | | 52 | -0.00 | -2.90 | -0.10 | -0.41 | -0.01 | 0.00 |
| | 12 | 14 | -0.04 | 13.08 | -0.02 | 10.79 | 0.06 | 11.12 |
| | | 52 | 0.04 | -11.24 | 0.02 | -10.79 | -0.05 | 1.04 |
| | 13 | 14 | 0.04 | -1.80 | -0.02 | -9.74 | -0.04 | -1.67 |
| | | 52 | -0.04 | 3.64 | 0.02 | 9.74 | 0.06 | -1.04 |
| | 14 | 14 | 0.00 | 5.64 | 0.01 | 0.52 | -0.01 | 4.72 |
| | | 52 | -0.00 | -3.80 | -0.01 | -0.52 | -0.00 | 0.00 |
| | 15 | 14 | 0.00 | 5.64 | 0.08 | 0.54 | -0.08 | 4.72 |
| | | 52 | -0.00 | -3.80 | -0.08 | -0.54 | -0.01 | 0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 94 | 7 | 51 | -0.01 | 4.03 | 0.00 | 0.00 | -0.00 | 0.56 |
| | | 52 | 0.01 | 4.03 | -0.00 | -0.00 | 0.00 | -0.56 |
| | 8 | 51 | 0.02 | -6.40 | -0.05 | 1.31 | 0.08 | -12.44 |
| | | 52 | -0.02 | 12.20 | 0.05 | -1.31 | 0.06 | -13.23 |
| | 9 | 51 | 0.02 | 12.20 | 0.05 | -1.31 | -0.06 | 13.23 |
| | | 52 | -0.02 | -6.40 | -0.05 | 1.31 | -0.08 | 12.44 |
| | 10 | 51 | -0.01 | 2.90 | 0.00 | 0.00 | -0.00 | 0.40 |
| | | 52 | 0.01 | 2.90 | -0.00 | -0.00 | 0.00 | -0.40 |
| | 11 | 51 | -0.10 | 2.90 | 0.00 | 0.00 | -0.01 | 0.41 |
| | | 52 | 0.10 | 2.90 | -0.00 | -0.00 | 0.01 | -0.41 |
| | 12 | 51 | 0.02 | -3.64 | -0.04 | 1.04 | 0.06 | -9.74 |
| | | 52 | -0.02 | 11.24 | 0.04 | -1.04 | 0.05 | -10.79 |
| | 13 | 51 | 0.02 | 11.24 | 0.04 | -1.04 | -0.05 | 10.79 |
| | | 52 | -0.02 | -3.64 | -0.04 | 1.04 | -0.06 | 9.74 |
| | 14 | 51 | -0.01 | 3.80 | 0.00 | 0.00 | -0.00 | 0.52 |
| | | 52 | 0.01 | 3.80 | -0.00 | -0.00 | 0.00 | -0.52 |
| | 15 | 51 | -0.08 | 3.80 | 0.00 | 0.00 | -0.01 | 0.54 |
| | | 52 | 0.08 | 3.80 | -0.00 | -0.00 | 0.01 | -0.54 |
| 95 | 7 | 17 | -0.00 | 5.97 | 0.00 | -0.53 | -0.00 | 5.00 |
| | | 53 | 0.00 | -4.03 | -0.00 | 0.53 | 0.00 | 0.00 |
| | 8 | 17 | 0.01 | -5.85 | 0.03 | 13.68 | -0.01 | -5.12 |
| | | 53 | -0.01 | 7.29 | -0.03 | -13.68 | -0.03 | -1.45 |
| | 9 | 17 | -0.01 | 14.53 | 0.03 | -14.44 | -0.03 | 12.36 |
| | | 53 | 0.01 | -13.09 | -0.03 | 14.44 | 0.00 | 1.45 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 10 | 17 | | -0.00 | 4.34 | 0.00 | -0.38 | -0.00 | 3.62 |
| | | 53 | 0.00 | -2.90 | -0.00 | 0.38 | 0.00 | 0.00 |
| 11 | 17 | | -0.00 | 4.34 | -0.01 | -0.38 | 0.01 | 3.62 |
| | | 53 | 0.00 | -2.90 | 0.01 | 0.38 | 0.00 | 0.00 |
| 12 | 17 | | 0.01 | -2.51 | 0.02 | 10.75 | -0.00 | -2.27 |
| | | 53 | -0.01 | 4.35 | -0.02 | -10.75 | -0.02 | -1.16 |
| 13 | 17 | | -0.01 | 13.79 | 0.02 | -11.75 | -0.03 | 11.71 |
| | | 53 | 0.01 | -11.95 | -0.02 | 11.75 | 0.00 | 1.16 |
| 14 | 17 | | -0.00 | 5.64 | 0.00 | -0.50 | -0.00 | 4.72 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 53 | 0.00 | -3.80 | -0.00 | 0.50 | 0.00 | 0.00 |
| 15 | 17 | -0.00 | 5.64 | -0.00 | -0.50 | 0.00 | 4.72 |
| | 53 | 0.00 | -3.80 | 0.00 | 0.50 | 0.00 | 0.00 |
| 96 | 7 | 18 | 0.00 | 5.97 | -0.00 | 0.53 | 0.00 | 5.00 |
| | 54 | -0.00 | -4.03 | 0.00 | -0.53 | -0.00 | -0.00 |
| | 8 | 18 | -0.01 | 14.53 | -0.03 | 14.44 | 0.03 | 12.36 |
| | 54 | 0.01 | -13.09 | 0.03 | -14.44 | -0.00 | 1.45 |
| | 9 | 18 | 0.01 | -5.85 | -0.03 | -13.68 | 0.01 | -5.12 |
| | 54 | -0.01 | 7.29 | 0.03 | 13.68 | 0.03 | -1.45 |
| | 10 | 18 | 0.00 | 4.34 | -0.00 | 0.38 | 0.00 | 3.62 |
| | 54 | -0.00 | -2.90 | 0.00 | -0.38 | -0.00 | -0.00 |
| | 11 | 18 | 0.00 | 4.34 | 0.01 | 0.38 | -0.01 | 3.62 |
| | 54 | -0.00 | -2.90 | -0.01 | -0.38 | -0.00 | -0.00 |
| | 12 | 18 | -0.01 | 13.79 | -0.02 | 11.75 | 0.03 | 11.71 |
| | 54 | 0.01 | -11.95 | 0.02 | -11.75 | -0.00 | 1.16 |
| | 13 | 18 | 0.01 | -2.51 | -0.02 | -10.75 | 0.00 | -2.27 |
| | 54 | -0.01 | 4.35 | 0.02 | 10.75 | 0.02 | -1.16 |
| | 14 | 18 | 0.00 | 5.64 | -0.00 | 0.50 | 0.00 | 4.72 |
| | 54 | -0.00 | -3.80 | 0.00 | -0.50 | -0.00 | -0.00 |
| | 15 | 18 | 0.00 | 5.64 | 0.00 | 0.50 | -0.00 | 4.72 |
| | 54 | -0.00 | -3.80 | -0.00 | -0.50 | -0.00 | -0.00 |
| 97 | 7 | 53 | 0.00 | 4.03 | 0.00 | -0.00 | -0.00 | 0.53 |
| | 54 | -0.00 | 4.03 | -0.00 | 0.00 | 0.00 | -0.53 |
| | 8 | 53 | 0.03 | -7.29 | -0.01 | 1.45 | 0.03 | -13.68 |
| | 54 | -0.03 | 13.09 | 0.01 | -1.45 | 0.00 | -14.44 |
| | 9 | 53 | 0.03 | 13.09 | 0.01 | -1.45 | -0.00 | 14.44 |
| | 54 | -0.03 | -7.29 | -0.01 | 1.45 | -0.03 | 13.68 |
| | 10 | 53 | 0.00 | 2.90 | 0.00 | -0.00 | -0.00 | 0.38 |
| | 54 | -0.00 | 2.90 | -0.00 | 0.00 | 0.00 | -0.38 |
| | 11 | 53 | -0.01 | 2.90 | 0.00 | -0.00 | -0.00 | 0.38 |
| | 54 | 0.01 | 2.90 | -0.00 | 0.00 | 0.00 | -0.38 |
| | 12 | 53 | 0.02 | -4.35 | -0.01 | 1.16 | 0.02 | -10.75 |
| | 54 | -0.02 | 11.95 | 0.01 | -1.16 | 0.00 | -11.75 |
| | 13 | 53 | 0.02 | 11.95 | 0.01 | -1.16 | -0.00 | 11.75 |
| | 54 | -0.02 | -4.35 | -0.01 | 1.16 | -0.02 | 10.75 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| | 14 | 53 | 0.00 | 3.80 | 0.00 | -0.00 | -0.00 | 0.50 |
| | | 54 | -0.00 | 3.80 | -0.00 | 0.00 | 0.00 | -0.50 |
| | 15 | 53 | -0.00 | 3.80 | 0.00 | -0.00 | -0.00 | 0.50 |
| | | 54 | 0.00 | 3.80 | -0.00 | 0.00 | 0.00 | -0.50 |
| 98 | 7 | 21 | -0.00 | 5.97 | 0.00 | -0.54 | -0.00 | 5.00 |
| | | 55 | 0.00 | -4.03 | -0.00 | 0.54 | -0.00 | 0.00 |
| | 8 | 21 | -0.00 | -4.66 | 0.03 | 12.03 | -0.02 | -4.09 |
| | | 55 | 0.00 | 6.10 | -0.03 | -12.03 | -0.01 | -1.29 |
| | 9 | 21 | 0.00 | 13.33 | 0.03 | -12.80 | -0.01 | 11.33 |
| | | 55 | -0.00 | -11.89 | -0.03 | 12.80 | -0.02 | 1.29 |
| | 10 | 21 | -0.00 | 4.34 | 0.00 | -0.38 | -0.00 | 3.62 |
| | | 55 | 0.00 | -2.90 | -0.00 | 0.38 | -0.00 | 0.00 |
| | 11 | 21 | -0.00 | 4.34 | 0.00 | -0.38 | -0.00 | 3.62 |
| | | 55 | 0.00 | -2.90 | -0.00 | 0.38 | -0.00 | 0.00 |
| | 12 | 21 | -0.00 | -1.55 | 0.02 | 9.42 | -0.02 | -1.45 |
| | | 55 | 0.00 | 3.40 | -0.02 | -9.42 | -0.01 | -1.03 |
| | 13 | 21 | 0.00 | 12.84 | 0.02 | -10.44 | -0.01 | 10.89 |
| | | 55 | -0.00 | -11.00 | -0.02 | 10.44 | -0.01 | 1.03 |
| | 14 | 21 | -0.00 | 5.64 | 0.00 | -0.51 | -0.00 | 4.72 |
| | | 55 | 0.00 | -3.80 | -0.00 | 0.51 | -0.00 | 0.00 |
| | 15 | 21 | -0.00 | 5.64 | 0.00 | -0.51 | -0.00 | 4.72 |
| | | 55 | 0.00 | -3.80 | -0.00 | 0.51 | -0.00 | 0.00 |
| 99 | 7 | 22 | 0.00 | 5.97 | -0.00 | 0.54 | 0.00 | 5.00 |
| | | 56 | -0.00 | -4.03 | 0.00 | -0.54 | 0.00 | -0.00 |
| | 8 | 22 | 0.00 | 13.33 | -0.03 | 12.80 | 0.01 | 11.33 |
| | | 56 | -0.00 | -11.89 | 0.03 | -12.80 | 0.02 | 1.29 |
| | 9 | 22 | -0.00 | -4.66 | -0.03 | -12.03 | 0.02 | -4.09 |
| | | 56 | 0.00 | 6.10 | 0.03 | 12.03 | 0.01 | -1.29 |
| | 10 | 22 | 0.00 | 4.34 | -0.00 | 0.38 | 0.00 | 3.62 |
| | | 56 | -0.00 | -2.90 | 0.00 | -0.38 | 0.00 | -0.00 |
| | 11 | 22 | 0.00 | 4.34 | -0.00 | 0.38 | 0.00 | 3.62 |
| | | 56 | -0.00 | -2.90 | 0.00 | -0.38 | 0.00 | -0.00 |
| | 12 | 22 | 0.00 | 12.84 | -0.02 | 10.44 | 0.01 | 10.89 |
| | | 56 | -0.00 | -11.00 | 0.02 | -10.44 | 0.01 | 1.03 |
| | 13 | 22 | -0.00 | -1.55 | -0.02 | -9.42 | 0.02 | -1.45 |
| | | 56 | 0.00 | 3.40 | 0.02 | 9.42 | 0.01 | -1.03 |
| | 14 | 22 | 0.00 | 5.64 | -0.00 | 0.51 | 0.00 | 4.72 |
| | | 56 | -0.00 | -3.80 | 0.00 | -0.51 | 0.00 | -0.00 |
| | 15 | 22 | 0.00 | 5.64 | -0.00 | 0.51 | 0.00 | 4.72 |
| | | 56 | -0.00 | -3.80 | 0.00 | -0.51 | 0.00 | -0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 100 | 7 | 55 | 0.00 | 4.03 | 0.00 | -0.00 | 0.00 | 0.54 |
| | | 56 | -0.00 | 4.03 | -0.00 | 0.00 | -0.00 | -0.54 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 8 | 55 | | 0.03 | -6.10 | 0.00 | 1.29 | 0.01 | -12.03 |
| | | 56 | -0.03 | 11.89 | -0.00 | -1.29 | -0.02 | -12.80 |
| 9 | 55 | | 0.03 | 11.89 | -0.00 | -1.29 | 0.02 | 12.80 |
| | | 56 | -0.03 | -6.10 | 0.00 | 1.29 | -0.01 | 12.03 |
| 10 | 55 | | 0.00 | 2.90 | 0.00 | -0.00 | 0.00 | 0.38 |
| | | 56 | -0.00 | 2.90 | -0.00 | 0.00 | -0.00 | -0.38 |
| 11 | 55 | | 0.00 | 2.90 | 0.00 | -0.00 | 0.00 | 0.38 |
| | | 56 | -0.00 | 2.90 | -0.00 | 0.00 | -0.00 | -0.38 |
| 12 | 55 | | 0.02 | -3.40 | 0.00 | 1.03 | 0.01 | -9.42 |
| | | 56 | -0.02 | 11.00 | -0.00 | -1.03 | -0.01 | -10.44 |
| 13 | 55 | | 0.02 | 11.00 | -0.00 | -1.03 | 0.01 | 10.44 |
| | | 56 | -0.02 | -3.40 | 0.00 | 1.03 | -0.01 | 9.42 |
| 14 | 55 | | 0.00 | 3.80 | 0.00 | -0.00 | 0.00 | 0.51 |
| | | 56 | -0.00 | 3.80 | -0.00 | 0.00 | -0.00 | -0.51 |
| 15 | 55 | | 0.00 | 3.80 | 0.00 | -0.00 | 0.00 | 0.51 |
| | | 56 | -0.00 | 3.80 | -0.00 | 0.00 | -0.00 | -0.51 |
| 101 | 7 | 25 | -0.00 | 5.97 | 0.00 | -0.54 | -0.00 | 5.00 |
| | | 57 | 0.00 | -4.03 | -0.00 | 0.54 | 0.00 | 0.00 |
| 8 | 25 | | -0.01 | -3.18 | 0.03 | 10.00 | -0.03 | -2.82 |
| | | 57 | 0.01 | 4.62 | -0.03 | -10.00 | -0.00 | -1.08 |
| 9 | 25 | | 0.01 | 11.86 | 0.03 | -10.76 | -0.01 | 10.06 |
| | | 57 | -0.01 | -10.42 | -0.03 | 10.76 | -0.02 | 1.08 |
| 10 | 25 | | -0.00 | 4.34 | 0.00 | -0.38 | -0.00 | 3.62 |
| | | 57 | 0.00 | -2.90 | -0.00 | 0.38 | 0.00 | 0.00 |
| 11 | 25 | | -0.00 | 4.34 | 0.00 | -0.38 | -0.00 | 3.62 |
| | | 57 | 0.00 | -2.90 | -0.00 | 0.38 | -0.00 | 0.00 |
| 12 | 25 | | -0.01 | -0.38 | 0.02 | 7.80 | -0.02 | -0.43 |
| | | 57 | 0.01 | 2.22 | -0.02 | -7.80 | -0.00 | -0.86 |
| 13 | 25 | | 0.01 | 11.66 | 0.02 | -8.81 | -0.01 | 9.88 |
| | | 57 | -0.01 | -9.82 | -0.02 | 8.81 | -0.02 | 0.86 |
| 14 | 25 | | -0.00 | 5.64 | 0.00 | -0.51 | -0.00 | 4.72 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 57 | 0.00 | -3.80 | -0.00 | 0.51 | 0.00 | 0.00 |
| 15 | 25 | -0.00 | 5.64 | 0.00 | -0.51 | -0.00 | 4.72 |
| | 57 | 0.00 | -3.80 | -0.00 | 0.51 | -0.00 | 0.00 |
| 102 | 7 | 26 | 0.00 | 5.97 | -0.00 | 0.54 | 0.00 | 5.00 |
| | 58 | -0.00 | -4.03 | 0.00 | -0.54 | -0.00 | -0.00 |
| 8 | 26 | 0.01 | 11.86 | -0.03 | 10.76 | 0.01 | 10.06 |
| | 58 | -0.01 | -10.42 | 0.03 | -10.76 | 0.02 | 1.08 |
| 9 | 26 | -0.01 | -3.18 | -0.03 | -10.00 | 0.03 | -2.82 |
| | 58 | 0.01 | 4.62 | 0.03 | 10.00 | 0.00 | -1.08 |
| 10 | 26 | 0.00 | 4.34 | -0.00 | 0.38 | 0.00 | 3.62 |
| | 58 | -0.00 | -2.90 | 0.00 | -0.38 | -0.00 | -0.00 |
| 11 | 26 | 0.00 | 4.34 | -0.00 | 0.38 | 0.00 | 3.62 |
| | 58 | -0.00 | -2.90 | 0.00 | -0.38 | 0.00 | -0.00 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 12 | 26 | | 0.01 | 11.66 | -0.02 | 8.81 | 0.01 | 9.88 |
| | | 58 | -0.01 | -9.82 | 0.02 | -8.81 | 0.02 | 0.86 |
| 13 | 26 | | -0.01 | -0.38 | -0.02 | -7.80 | 0.02 | -0.43 |
| | | 58 | 0.01 | 2.22 | 0.02 | 7.80 | 0.00 | -0.86 |
| 14 | 26 | | 0.00 | 5.64 | -0.00 | 0.51 | 0.00 | 4.72 |
| | | 58 | -0.00 | -3.80 | 0.00 | -0.51 | -0.00 | -0.00 |
| 15 | 26 | | 0.00 | 5.64 | -0.00 | 0.51 | 0.00 | 4.72 |
| | | 58 | -0.00 | -3.80 | 0.00 | -0.51 | 0.00 | -0.00 |
| 103 | 7 | 57 | 0.00 | 4.03 | 0.00 | -0.00 | -0.00 | 0.54 |
| | | 58 | -0.00 | 4.03 | -0.00 | 0.00 | 0.00 | -0.54 |
| 8 | 57 | | 0.03 | -4.62 | 0.01 | 1.08 | 0.00 | -10.00 |
| | | 58 | -0.03 | 10.42 | -0.01 | -1.08 | -0.02 | -10.76 |
| 9 | 57 | | 0.03 | 10.42 | -0.01 | -1.08 | 0.02 | 10.76 |
| | | 58 | -0.03 | -4.62 | 0.01 | 1.08 | -0.00 | 10.00 |
| 10 | 57 | | 0.00 | 2.90 | 0.00 | -0.00 | -0.00 | 0.38 |
| | | 58 | -0.00 | 2.90 | -0.00 | 0.00 | 0.00 | -0.38 |
| 11 | 57 | | 0.00 | 2.90 | 0.00 | -0.00 | 0.00 | 0.38 |
| | | 58 | -0.00 | 2.90 | -0.00 | 0.00 | -0.00 | -0.38 |
| 12 | 57 | | 0.02 | -2.22 | 0.01 | 0.86 | 0.00 | -7.80 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | 58 | -0.02 | 9.82 | -0.01 | -0.86 | -0.02 | -8.81 |
| | 13 | 57 | 0.02 | 9.82 | -0.01 | -0.86 | 0.02 | 8.81 |
| | | 58 | -0.02 | -2.22 | 0.01 | 0.86 | -0.00 | 7.80 |
| | 14 | 57 | 0.00 | 3.80 | 0.00 | -0.00 | -0.00 | 0.51 |
| | | 58 | -0.00 | 3.80 | -0.00 | 0.00 | 0.00 | -0.51 |
| | 15 | 57 | 0.00 | 3.80 | 0.00 | -0.00 | 0.00 | 0.51 |
| | | 58 | -0.00 | 3.80 | -0.00 | 0.00 | -0.00 | -0.51 |
| | | | | | | | | |
| 104 | 7 | 29 | -0.00 | 5.97 | 0.00 | -0.54 | -0.00 | 5.00 |
| | | 59 | 0.00 | -4.03 | -0.00 | 0.54 | -0.00 | 0.00 |
| | 8 | 29 | -0.01 | -1.67 | 0.03 | 7.91 | -0.03 | -1.53 |
| | | 59 | 0.01 | 3.11 | -0.03 | -7.91 | 0.00 | -0.86 |
| | 9 | 29 | 0.01 | 10.35 | 0.03 | -8.68 | -0.01 | 8.76 |
| | | 59 | -0.01 | -8.91 | -0.03 | 8.68 | -0.02 | 0.86 |
| | 10 | 29 | -0.00 | 4.34 | 0.00 | -0.38 | -0.00 | 3.62 |
| | | 59 | 0.00 | -2.90 | -0.00 | 0.38 | -0.00 | 0.00 |
| | 11 | 29 | -0.00 | 4.34 | 0.00 | -0.38 | -0.00 | 3.62 |
| | | 59 | 0.00 | -2.90 | -0.00 | 0.38 | -0.00 | 0.00 |
| | 12 | 29 | -0.01 | 0.83 | 0.02 | 6.13 | -0.02 | 0.61 |
| | | 59 | 0.01 | 1.01 | -0.02 | -6.13 | 0.00 | -0.69 |
| | 13 | 29 | 0.01 | 10.45 | 0.02 | -7.14 | -0.01 | 8.84 |
| | | 59 | -0.01 | -8.61 | -0.02 | 7.14 | -0.02 | 0.69 |
| | 14 | 29 | -0.00 | 5.64 | 0.00 | -0.51 | -0.00 | 4.72 |
| | | 59 | 0.00 | -3.80 | -0.00 | 0.51 | -0.00 | 0.00 |
| | 15 | 29 | -0.00 | 5.64 | 0.00 | -0.51 | -0.00 | 4.72 |
| | | 59 | 0.00 | -3.80 | -0.00 | 0.51 | -0.00 | 0.00 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 105 | 7 | 30 | 0.00 | 5.97 | -0.00 | 0.54 | 0.00 | 5.00 |
| | | 60 | -0.00 | -4.03 | 0.00 | -0.54 | 0.00 | -0.00 |
| | 8 | 30 | 0.01 | 10.35 | -0.03 | 8.68 | 0.01 | 8.76 |
| | | 60 | -0.01 | -8.91 | 0.03 | -8.68 | 0.02 | 0.86 |
| | 9 | 30 | -0.01 | -1.67 | -0.03 | -7.91 | 0.03 | -1.53 |
| | | 60 | 0.01 | 3.11 | 0.03 | 7.91 | -0.00 | -0.86 |
| | 10 | 30 | 0.00 | 4.34 | -0.00 | 0.38 | 0.00 | 3.62 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 60 | -0.00 | -2.90 | 0.00 | -0.38 | 0.00 | -0.00 |
| 11 | 30 | 0.00 | 4.34 | -0.00 | 0.38 | 0.00 | 3.62 |
| | 60 | -0.00 | -2.90 | 0.00 | -0.38 | 0.00 | -0.00 |
| 12 | 30 | 0.01 | 10.45 | -0.02 | 7.14 | 0.01 | 8.84 |
| | 60 | -0.01 | -8.61 | 0.02 | -7.14 | 0.02 | 0.69 |
| 13 | 30 | -0.01 | 0.83 | -0.02 | -6.13 | 0.02 | 0.61 |
| | 60 | 0.01 | 1.01 | 0.02 | 6.13 | -0.00 | -0.69 |
| 14 | 30 | 0.00 | 5.64 | -0.00 | 0.51 | 0.00 | 4.72 |
| | 60 | -0.00 | -3.80 | 0.00 | -0.51 | 0.00 | -0.00 |
| 15 | 30 | 0.00 | 5.64 | -0.00 | 0.51 | 0.00 | 4.72 |
| | 60 | -0.00 | -3.80 | 0.00 | -0.51 | 0.00 | -0.00 |
| | | | | | | | |
| 106 | 7 59 | 0.00 | 4.03 | 0.00 | -0.00 | 0.00 | 0.54 |
| | 60 | -0.00 | 4.03 | -0.00 | 0.00 | -0.00 | -0.54 |
| 8 | 59 | 0.03 | -3.11 | 0.01 | 0.86 | -0.00 | -7.91 |
| | 60 | -0.03 | 8.91 | -0.01 | -0.86 | -0.02 | -8.68 |
| 9 | 59 | 0.03 | 8.91 | -0.01 | -0.86 | 0.02 | 8.68 |
| | 60 | -0.03 | -3.11 | 0.01 | 0.86 | 0.00 | 7.91 |
| 10 | 59 | 0.00 | 2.90 | 0.00 | -0.00 | 0.00 | 0.38 |
| | 60 | -0.00 | 2.90 | -0.00 | 0.00 | -0.00 | -0.38 |
| 11 | 59 | 0.00 | 2.90 | 0.00 | -0.00 | 0.00 | 0.38 |
| | 60 | -0.00 | 2.90 | -0.00 | 0.00 | -0.00 | -0.38 |
| 12 | 59 | 0.02 | -1.01 | 0.01 | 0.69 | -0.00 | -6.13 |
| | 60 | -0.02 | 8.61 | -0.01 | -0.69 | -0.02 | -7.14 |
| 13 | 59 | 0.02 | 8.61 | -0.01 | -0.69 | 0.02 | 7.14 |
| | 60 | -0.02 | -1.01 | 0.01 | 0.69 | 0.00 | 6.13 |
| 14 | 59 | 0.00 | 3.80 | 0.00 | -0.00 | 0.00 | 0.51 |
| | 60 | -0.00 | 3.80 | -0.00 | 0.00 | -0.00 | -0.51 |
| 15 | 59 | 0.00 | 3.80 | 0.00 | -0.00 | 0.00 | 0.51 |
| | 60 | -0.00 | 3.80 | -0.00 | 0.00 | -0.00 | -0.51 |
| | | | | | | | |
| 107 | 7 33 | -0.00 | 5.97 | 0.00 | -0.54 | -0.00 | 5.00 |
| | 61 | 0.00 | -4.03 | -0.00 | 0.54 | 0.00 | 0.00 |
| 8 | 33 | -0.01 | -0.15 | 0.03 | 5.81 | -0.03 | -0.22 |
| | 61 | 0.01 | 1.59 | -0.03 | -5.81 | 0.00 | -0.65 |
| 9 | 33 | 0.01 | 8.83 | 0.03 | -6.58 | -0.01 | 7.46 |
| | 61 | -0.01 | -7.39 | -0.03 | 6.58 | -0.02 | 0.65 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 10 | | 33 | -0.00 | 4.34 | 0.00 | -0.39 | -0.00 | 3.62 |
| | | 61 | 0.00 | -2.90 | -0.00 | 0.39 | 0.00 | 0.00 |
| 11 | | 33 | -0.00 | 4.34 | 0.00 | -0.39 | -0.00 | 3.62 |
| | | 61 | 0.00 | -2.90 | -0.00 | 0.39 | 0.00 | 0.00 |
| 12 | | 33 | -0.01 | 2.05 | 0.02 | 4.45 | -0.03 | 1.65 |
| | | 61 | 0.01 | -0.21 | -0.02 | -4.45 | 0.00 | -0.52 |
| 13 | | 33 | 0.01 | 9.23 | 0.02 | -5.47 | -0.01 | 7.80 |
| | | 61 | -0.01 | -7.39 | -0.02 | 5.47 | -0.02 | 0.52 |
| 14 | | 33 | -0.00 | 5.64 | 0.00 | -0.51 | -0.00 | 4.72 |
| | | 61 | 0.00 | -3.80 | -0.00 | 0.51 | 0.00 | 0.00 |
| 15 | | 33 | -0.00 | 5.64 | 0.00 | -0.51 | -0.00 | 4.72 |
| | | 61 | 0.00 | -3.80 | -0.00 | 0.51 | 0.00 | 0.00 |
| 108 | 7 | 34 | 0.00 | 5.97 | -0.00 | 0.54 | 0.00 | 5.00 |
| | | 62 | -0.00 | -4.03 | 0.00 | -0.54 | -0.00 | -0.00 |
| 8 | | 34 | 0.01 | 8.83 | -0.03 | 6.58 | 0.01 | 7.46 |
| | | 62 | -0.01 | -7.39 | 0.03 | -6.58 | 0.02 | 0.65 |
| 9 | | 34 | -0.01 | -0.15 | -0.03 | -5.81 | 0.03 | -0.22 |
| | | 62 | 0.01 | 1.59 | 0.03 | 5.81 | -0.00 | -0.65 |
| 10 | | 34 | 0.00 | 4.34 | -0.00 | 0.39 | 0.00 | 3.62 |
| | | 62 | -0.00 | -2.90 | 0.00 | -0.39 | -0.00 | -0.00 |
| 11 | | 34 | 0.00 | 4.34 | -0.00 | 0.39 | 0.00 | 3.62 |
| | | 62 | -0.00 | -2.90 | 0.00 | -0.39 | -0.00 | -0.00 |
| 12 | | 34 | 0.01 | 9.23 | -0.02 | 5.47 | 0.01 | 7.80 |
| | | 62 | -0.01 | -7.39 | 0.02 | -5.47 | 0.02 | 0.52 |
| 13 | | 34 | -0.01 | 2.05 | -0.02 | -4.45 | 0.03 | 1.65 |
| | | 62 | 0.01 | -0.21 | 0.02 | 4.45 | -0.00 | -0.52 |
| 14 | | 34 | 0.00 | 5.64 | -0.00 | 0.51 | 0.00 | 4.72 |
| | | 62 | -0.00 | -3.80 | 0.00 | -0.51 | -0.00 | -0.00 |
| 15 | | 34 | 0.00 | 5.64 | -0.00 | 0.51 | 0.00 | 4.72 |
| | | 62 | -0.00 | -3.80 | 0.00 | -0.51 | -0.00 | -0.00 |
| 109 | 7 | 61 | 0.00 | 4.03 | 0.00 | -0.00 | -0.00 | 0.54 |
| | | 62 | -0.00 | 4.03 | -0.00 | 0.00 | 0.00 | -0.54 |
| 8 | | 61 | 0.03 | -1.59 | 0.01 | 0.65 | -0.00 | -5.81 |
| | | 62 | -0.03 | 7.39 | -0.01 | -0.65 | -0.02 | -6.58 |
| 9 | | 61 | 0.03 | 7.39 | -0.01 | -0.65 | 0.02 | 6.58 |
| | | 62 | -0.03 | -1.59 | 0.01 | 0.65 | 0.00 | 5.81 |
| 10 | | 61 | 0.00 | 2.90 | 0.00 | -0.00 | -0.00 | 0.39 |
| | | 62 | -0.00 | 2.90 | -0.00 | 0.00 | 0.00 | -0.39 |
| 11 | | 61 | 0.00 | 2.90 | 0.00 | -0.00 | -0.00 | 0.39 |
| | | 62 | -0.00 | 2.90 | -0.00 | 0.00 | 0.00 | -0.39 |
| 12 | | 61 | 0.02 | 0.21 | 0.01 | 0.52 | -0.00 | -4.45 |

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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| | | 62 | -0.02 | 7.39 | -0.01 | -0.52 | -0.02 | -5.47 |
| | 13 | 61 | 0.02 | 7.39 | -0.01 | -0.52 | 0.02 | 5.47 |
| | | 62 | -0.02 | 0.21 | 0.01 | 0.52 | 0.00 | 4.45 |
| | 14 | 61 | 0.00 | 3.80 | 0.00 | -0.00 | -0.00 | 0.51 |
| | | 62 | -0.00 | 3.80 | -0.00 | 0.00 | 0.00 | -0.51 |
| | 15 | 61 | 0.00 | 3.80 | 0.00 | -0.00 | -0.00 | 0.51 |
| | | 62 | -0.00 | 3.80 | -0.00 | 0.00 | 0.00 | -0.51 |
| 110 | 7 | 37 | -0.00 | 5.97 | 0.00 | -0.52 | -0.00 | 5.00 |
| | | 63 | 0.00 | -4.03 | -0.00 | 0.52 | -0.00 | 0.00 |
| | 8 | 37 | -0.00 | 1.40 | 0.04 | 3.69 | -0.03 | 1.10 |
| | | 63 | 0.00 | 0.04 | -0.04 | -3.69 | -0.01 | -0.42 |
| | 9 | 37 | 0.00 | 7.28 | 0.04 | -4.42 | -0.02 | 6.13 |
| | | 63 | -0.00 | -5.84 | -0.04 | 4.42 | -0.02 | 0.42 |
| | 10 | 37 | -0.00 | 4.34 | 0.00 | -0.37 | -0.00 | 3.62 |
| | | 63 | 0.00 | -2.90 | -0.00 | 0.37 | -0.00 | 0.00 |
| | 11 | 37 | -0.00 | 4.34 | 0.00 | -0.37 | -0.00 | 3.62 |
| | | 63 | 0.00 | -2.90 | -0.00 | 0.37 | -0.00 | 0.00 |
| | 12 | 37 | -0.00 | 3.29 | 0.03 | 2.76 | -0.03 | 2.71 |
| | | 63 | 0.00 | -1.45 | -0.03 | -2.76 | -0.01 | -0.34 |
| | 13 | 37 | 0.00 | 7.99 | 0.03 | -3.73 | -0.02 | 6.73 |
| | | 63 | -0.00 | -6.15 | -0.03 | 3.73 | -0.01 | 0.34 |
| | 14 | 37 | -0.00 | 5.64 | 0.00 | -0.49 | -0.00 | 4.72 |
| | | 63 | 0.00 | -3.80 | -0.00 | 0.49 | -0.00 | 0.00 |
| | 15 | 37 | -0.00 | 5.64 | 0.00 | -0.49 | -0.00 | 4.72 |
| | | 63 | 0.00 | -3.80 | -0.00 | 0.49 | -0.00 | 0.00 |
| 111 | 7 | 38 | 0.00 | 5.97 | -0.00 | 0.52 | 0.00 | 5.00 |
| | | 64 | -0.00 | -4.03 | 0.00 | -0.52 | 0.00 | -0.00 |
| | 8 | 38 | 0.00 | 7.28 | -0.04 | 4.42 | 0.02 | 6.13 |
| | | 64 | -0.00 | -5.84 | 0.04 | -4.42 | 0.02 | 0.42 |
| | 9 | 38 | -0.00 | 1.40 | -0.04 | -3.69 | 0.03 | 1.10 |
| | | 64 | 0.00 | 0.04 | 0.04 | 3.69 | 0.01 | -0.42 |
| | 10 | 38 | 0.00 | 4.34 | -0.00 | 0.37 | 0.00 | 3.62 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 64 | -0.00 | -2.90 | 0.00 | -0.37 | 0.00 | -0.00 |
| 11 | 38 | 0.00 | 4.34 | -0.00 | 0.37 | 0.00 | 3.62 |
| | 64 | -0.00 | -2.90 | 0.00 | -0.37 | 0.00 | -0.00 |
| 12 | 38 | 0.00 | 7.99 | -0.03 | 3.73 | 0.02 | 6.73 |
| | 64 | -0.00 | -6.15 | 0.03 | -3.73 | 0.01 | 0.34 |
| 13 | 38 | -0.00 | 3.29 | -0.03 | -2.76 | 0.03 | 2.71 |
| | 64 | 0.00 | -1.45 | 0.03 | 2.76 | 0.01 | -0.34 |
| 14 | 38 | 0.00 | 5.64 | -0.00 | 0.49 | 0.00 | 4.72 |
| | 64 | -0.00 | -3.80 | 0.00 | -0.49 | 0.00 | -0.00 |
| 15 | 38 | 0.00 | 5.64 | -0.00 | 0.49 | 0.00 | 4.72 |
| | 64 | -0.00 | -3.80 | 0.00 | -0.49 | 0.00 | -0.00 |
| 112 | 7 63 | 0.00 | 4.03 | 0.00 | -0.00 | 0.00 | 0.52 |
| | 64 | -0.00 | 4.03 | -0.00 | 0.00 | -0.00 | -0.52 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

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| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 8 | | 63 | 0.04 | -0.04 | 0.00 | 0.42 | 0.01 | -3.69 |
| | | 64 | -0.04 | 5.84 | -0.00 | -0.42 | -0.02 | -4.42 |
| 9 | | 63 | 0.04 | 5.84 | -0.00 | -0.42 | 0.02 | 4.42 |
| | | 64 | -0.04 | -0.04 | 0.00 | 0.42 | -0.01 | 3.69 |
| 10 | | 63 | 0.00 | 2.90 | 0.00 | -0.00 | 0.00 | 0.37 |
| | | 64 | -0.00 | 2.90 | -0.00 | 0.00 | -0.00 | -0.37 |
| 11 | | 63 | 0.00 | 2.90 | 0.00 | -0.00 | 0.00 | 0.37 |
| | | 64 | -0.00 | 2.90 | -0.00 | 0.00 | -0.00 | -0.37 |
| 12 | | 63 | 0.03 | 1.45 | 0.00 | 0.34 | 0.01 | -2.76 |
| | | 64 | -0.03 | 6.15 | -0.00 | -0.34 | -0.01 | -3.73 |
| 13 | | 63 | 0.03 | 6.15 | -0.00 | -0.34 | 0.01 | 3.73 |
| | | 64 | -0.03 | 1.45 | 0.00 | 0.34 | -0.01 | 2.76 |
| 14 | | 63 | 0.00 | 3.80 | 0.00 | -0.00 | 0.00 | 0.49 |
| | | 64 | -0.00 | 3.80 | -0.00 | 0.00 | -0.00 | -0.49 |
| 15 | | 63 | 0.00 | 3.80 | 0.00 | -0.00 | 0.00 | 0.49 |
| | | 64 | -0.00 | 3.80 | -0.00 | 0.00 | -0.00 | -0.49 |
| 113 | 7 | 41 | 69.15 | -4.96 | 8.90 | -0.01 | 0.44 | -1.91 |
| | | 65 | -68.40 | 4.96 | -8.90 | 0.01 | -11.12 | -4.05 |
| 8 | | 41 | 49.93 | 1.71 | 8.47 | -0.07 | -0.40 | -1.88 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 65 | -49.18 | 1.49 | -8.47 | 0.07 | -9.77 | 2.01 |
| 9 | 41 | 63.28 | -7.99 | 8.05 | 0.10 | 0.48 | 0.81 |
| | 65 | -62.53 | 7.99 | -8.05 | -0.10 | -10.14 | -10.40 |
| 10 | 41 | 56.58 | -4.33 | 8.24 | -0.00 | 0.03 | -1.48 |
| | 65 | -55.83 | 4.33 | -8.25 | 0.00 | -9.93 | -3.72 |
| 11 | 41 | 62.30 | -4.33 | 11.40 | -0.00 | 2.72 | -1.48 |
| | 65 | -61.55 | 4.33 | -11.40 | 0.00 | -16.40 | -3.72 |
| 12 | 41 | 61.30 | -0.00 | 8.94 | -0.06 | 0.01 | -2.15 |
| | 65 | -60.55 | 2.57 | -8.94 | 0.06 | -10.74 | 0.60 |
| 13 | 41 | 71.98 | -7.77 | 8.60 | 0.08 | 0.71 | 0.01 |
| | 65 | -71.23 | 7.77 | -8.60 | -0.08 | -11.03 | -9.32 |
| 14 | 41 | 66.62 | -4.84 | 8.75 | -0.01 | 0.35 | -1.82 |
| | 65 | -65.87 | 4.84 | -8.76 | 0.01 | -10.87 | -3.98 |
| 15 | 41 | 71.20 | -4.84 | 11.28 | -0.01 | 2.50 | -1.82 |
| | 65 | -70.45 | 4.84 | -11.28 | 0.01 | -16.04 | -3.98 |
| 114 | 7 | 43 | 56.00 | -4.12 | -8.90 | -0.00 | 0.82 | -0.71 |
| | 67 | -55.25 | 4.12 | 8.90 | 0.00 | 9.86 | -4.24 |
| 8 | 43 | 38.14 | 2.63 | -7.98 | -0.09 | 0.75 | -1.32 |
| | 67 | -37.39 | 0.58 | 7.98 | 0.09 | 8.82 | 2.55 |
| 9 | 43 | 56.34 | -7.69 | -8.55 | 0.07 | 1.00 | 1.98 |
| | 67 | -55.59 | 7.69 | 8.55 | -0.07 | 9.26 | -11.21 |
| 10 | 43 | 47.27 | -3.75 | -8.28 | -0.00 | 0.86 | -0.65 |
| | 67 | -46.52 | 3.75 | 8.28 | 0.00 | 9.07 | -3.85 |
| 11 | 43 | 41.54 | -3.75 | -3.18 | -0.00 | 1.93 | -0.65 |
| | 67 | -40.79 | 3.75 | 5.81 | 0.00 | 3.47 | -3.85 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 12 | 43 | 46.97 | 1.05 | -8.55 | -0.07 | 0.73 | -1.24 |
| | 67 | -46.22 | 1.51 | 8.55 | 0.07 | 9.52 | 0.96 |
| 13 | 43 | 61.53 | -7.20 | -9.00 | 0.06 | 0.93 | 1.40 |
| | 67 | -60.78 | 7.20 | 9.00 | -0.06 | 9.87 | -10.05 |
| 14 | 43 | 54.27 | -4.05 | -8.78 | -0.00 | 0.82 | -0.70 |
| | 67 | -53.52 | 4.05 | 8.78 | 0.00 | 9.72 | -4.16 |
| 15 | 43 | 49.69 | -4.05 | -4.71 | -0.00 | 1.68 | -0.70 |
| | 67 | -48.94 | 4.05 | 6.81 | 0.00 | 5.24 | -4.16 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 115 | 7 | 44 | 56.00 | 4.12 | -8.90 | 0.00 | 0.82 | 0.71 |
| | | 68 | -55.25 | -4.12 | 8.90 | -0.00 | 9.86 | 4.24 |
| | 8 | 44 | 56.34 | 7.69 | -8.55 | -0.07 | 1.00 | -1.98 |
| | | 68 | -55.59 | -7.69 | 8.55 | 0.07 | 9.26 | 11.21 |
| | 9 | 44 | 38.14 | -2.63 | -7.98 | 0.09 | 0.75 | 1.32 |
| | | 68 | -37.39 | -0.58 | 7.98 | -0.09 | 8.82 | -2.55 |
| | 10 | 44 | 47.27 | 3.75 | -8.28 | 0.00 | 0.86 | 0.65 |
| | | 68 | -46.52 | -3.75 | 8.28 | -0.00 | 9.07 | 3.85 |
| | 11 | 44 | 41.54 | 3.75 | -3.18 | 0.00 | 1.93 | 0.65 |
| | | 68 | -40.79 | -3.75 | 5.81 | -0.00 | 3.47 | 3.85 |
| | 12 | 44 | 61.53 | 7.20 | -9.00 | -0.06 | 0.93 | -1.40 |
| | | 68 | -60.78 | -7.20 | 9.00 | 0.06 | 9.87 | 10.05 |
| | 13 | 44 | 46.97 | -1.05 | -8.55 | 0.07 | 0.73 | 1.24 |
| | | 68 | -46.22 | -1.51 | 8.55 | -0.07 | 9.52 | -0.96 |
| | 14 | 44 | 54.27 | 4.05 | -8.78 | 0.00 | 0.82 | 0.70 |
| | | 68 | -53.52 | -4.05 | 8.78 | -0.00 | 9.72 | 4.16 |
| | 15 | 44 | 49.69 | 4.05 | -4.71 | 0.00 | 1.68 | 0.70 |
| | | 68 | -48.94 | -4.05 | 6.81 | -0.00 | 5.24 | 4.16 |
| 116 | 7 | 42 | 69.15 | 4.96 | 8.90 | 0.01 | 0.44 | 1.91 |
| | | 66 | -68.40 | -4.96 | -8.90 | -0.01 | -11.12 | 4.05 |
| | 8 | 42 | 63.28 | 7.99 | 8.05 | -0.10 | 0.48 | -0.81 |
| | | 66 | -62.53 | -7.99 | -8.05 | 0.10 | -10.14 | 10.40 |
| | 9 | 42 | 49.93 | -1.71 | 8.47 | 0.07 | -0.40 | 1.88 |
| | | 66 | -49.18 | -1.49 | -8.47 | -0.07 | -9.77 | -2.01 |
| | 10 | 42 | 56.58 | 4.33 | 8.24 | 0.00 | 0.03 | 1.48 |
| | | 66 | -55.83 | -4.33 | -8.25 | -0.00 | -9.93 | 3.72 |
| | 11 | 42 | 62.30 | 4.33 | 11.40 | 0.00 | 2.72 | 1.48 |
| | | 66 | -61.55 | -4.33 | -11.40 | -0.00 | -16.40 | 3.72 |
| | 12 | 42 | 71.98 | 7.77 | 8.60 | -0.08 | 0.71 | -0.01 |
| | | 66 | -71.23 | -7.77 | -8.60 | 0.08 | -11.03 | 9.32 |
| | 13 | 42 | 61.30 | 0.00 | 8.94 | 0.06 | 0.01 | 2.15 |
| | | 66 | -60.55 | -2.57 | -8.94 | -0.06 | -10.74 | -0.60 |
| | 14 | 42 | 66.62 | 4.84 | 8.75 | 0.01 | 0.35 | 1.82 |
| | | 66 | -65.87 | -4.84 | -8.76 | -0.01 | -10.87 | 3.98 |
| | 15 | 42 | 71.20 | 4.84 | 11.28 | 0.01 | 2.50 | 1.82 |
| | | 66 | -70.45 | -4.84 | -11.28 | -0.01 | -16.04 | 3.98 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 117 | 7 | 68 | 3.81 | 28.31 | -0.01 | 2.87 | 0.00 | 17.31 |
| | | 78 | -3.81 | -22.75 | 0.01 | -2.87 | 0.01 | 11.28 |
| | 8 | 68 | 4.10 | 25.97 | 0.02 | 3.31 | -0.04 | 16.16 |
| | | 78 | -4.10 | -21.05 | -0.02 | -3.31 | 0.01 | 10.17 |
| | 9 | 68 | 4.29 | 24.17 | -0.08 | 1.66 | 0.07 | 14.63 |
| | | 78 | -4.29 | -19.24 | 0.08 | -1.66 | 0.02 | 9.68 |
| | 10 | 68 | 4.21 | 25.09 | -0.01 | 2.52 | 0.01 | 15.43 |
| | | 78 | -4.21 | -20.16 | 0.01 | -2.52 | 0.01 | 9.92 |
| | 11 | 68 | 6.08 | 20.95 | -0.01 | 2.52 | 0.01 | 8.39 |
| | | 78 | -6.08 | -16.03 | 0.01 | -2.52 | 0.01 | 12.32 |
| | 12 | 68 | 3.81 | 28.38 | 0.02 | 3.43 | -0.03 | 17.54 |
| | | 78 | -3.81 | -22.95 | -0.02 | -3.43 | 0.01 | 11.21 |
| | 13 | 68 | 3.96 | 26.94 | -0.07 | 2.11 | 0.06 | 16.31 |
| | | 78 | -3.96 | -21.51 | 0.07 | -2.11 | 0.02 | 10.82 |
| | 14 | 68 | 3.90 | 27.68 | -0.01 | 2.80 | 0.00 | 16.95 |
| | | 78 | -3.90 | -22.25 | 0.01 | -2.80 | 0.01 | 11.00 |
| | 15 | 68 | 5.40 | 24.37 | -0.01 | 2.80 | 0.00 | 11.32 |
| | | 78 | -5.40 | -18.94 | 0.01 | -2.80 | 0.01 | 12.93 |
| 118 | 7 | 65 | 1.79 | 10.58 | -0.00 | 0.00 | -0.00 | 4.90 |
| | | 66 | -1.79 | 10.58 | 0.00 | -0.00 | 0.00 | -4.90 |
| | 8 | 65 | 4.10 | 4.52 | 0.02 | 0.02 | -0.03 | -2.50 |
| | | 66 | -4.10 | 14.17 | -0.02 | -0.02 | -0.02 | -10.82 |
| | 9 | 65 | 4.10 | 14.17 | -0.02 | -0.02 | 0.02 | 10.82 |
| | | 66 | -4.10 | 4.52 | 0.02 | 0.02 | 0.03 | 2.50 |
| | 10 | 65 | 1.88 | 9.34 | -0.00 | 0.00 | -0.00 | 4.28 |
| | | 66 | -1.88 | 9.34 | 0.00 | -0.00 | 0.00 | -4.28 |
| | 11 | 65 | 1.88 | 9.34 | -0.00 | 0.00 | -0.00 | 4.28 |
| | | 66 | -1.88 | 9.34 | 0.00 | -0.00 | 0.00 | -4.28 |
| | 12 | 65 | 3.58 | 6.47 | 0.01 | 0.02 | -0.02 | -0.64 |
| | | 66 | -3.58 | 14.19 | -0.01 | -0.02 | -0.01 | -10.01 |
| | 13 | 65 | 3.58 | 14.19 | -0.01 | -0.02 | 0.01 | 10.01 |
| | | 66 | -3.58 | 6.47 | 0.01 | 0.02 | 0.02 | 0.64 |
| | 14 | 65 | 1.81 | 10.33 | -0.00 | 0.00 | -0.00 | 4.78 |
| | | 66 | -1.81 | 10.33 | 0.00 | -0.00 | 0.00 | -4.78 |
| | 15 | 65 | 1.81 | 10.33 | -0.00 | 0.00 | -0.00 | 4.78 |
| | | 66 | -1.81 | 10.33 | 0.00 | -0.00 | 0.00 | -4.78 |
| 119 | 7 | 67 | 1.66 | 10.58 | -0.00 | -0.00 | 0.00 | 4.77 |
| | | 68 | -1.66 | 10.58 | 0.00 | 0.00 | -0.00 | -4.77 |
| | 8 | 67 | 4.01 | 3.69 | 0.02 | 0.06 | -0.02 | -3.74 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 68 | -4.01 | 15.00 | -0.02 | -0.06 | -0.03 | -11.87 |
| 9 | 67 | 4.01 | 15.00 | -0.02 | -0.06 | 0.03 | 11.87 |
| | 68 | -4.01 | 3.69 | 0.02 | 0.06 | 0.02 | 3.74 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 10 | 67 | | 1.80 | 9.34 | -0.00 | -0.00 | 0.00 | 4.19 |
| | 68 | | -1.80 | 9.34 | 0.00 | 0.00 | -0.00 | -4.19 |
| 11 | 67 | | 1.80 | 9.34 | -0.00 | -0.00 | 0.00 | 4.19 |
| | 68 | | -1.80 | 9.34 | 0.00 | 0.00 | -0.00 | -4.19 |
| 12 | 67 | | 3.46 | 5.81 | 0.01 | 0.05 | -0.01 | -1.69 |
| | 68 | | -3.46 | 14.85 | -0.01 | -0.05 | -0.03 | -10.80 |
| 13 | 67 | | 3.46 | 14.85 | -0.01 | -0.05 | 0.03 | 10.80 |
| | 68 | | -3.46 | 5.81 | 0.01 | 0.05 | 0.01 | 1.69 |
| 14 | 67 | | 1.68 | 10.33 | -0.00 | -0.00 | 0.00 | 4.65 |
| | 68 | | -1.68 | 10.33 | 0.00 | 0.00 | -0.00 | -4.65 |
| 15 | 67 | | 1.68 | 10.33 | -0.00 | -0.00 | 0.00 | 4.65 |
| | 68 | | -1.68 | 10.33 | 0.00 | 0.00 | -0.00 | -4.65 |
| | | | | | | | | |
| 120 | 7 | 67 | 3.81 | 28.31 | 0.01 | -2.87 | -0.00 | 17.31 |
| | 75 | | -3.81 | -22.75 | -0.01 | 2.87 | -0.01 | 11.28 |
| 8 | 67 | | 4.29 | 24.17 | 0.08 | -1.66 | -0.07 | 14.63 |
| | 75 | | -4.29 | -19.24 | -0.08 | 1.66 | -0.02 | 9.68 |
| 9 | 67 | | 4.10 | 25.97 | -0.02 | -3.31 | 0.04 | 16.16 |
| | 75 | | -4.10 | -21.05 | 0.02 | 3.31 | -0.01 | 10.17 |
| 10 | 67 | | 4.21 | 25.09 | 0.01 | -2.52 | -0.01 | 15.43 |
| | 75 | | -4.21 | -20.16 | -0.01 | 2.52 | -0.01 | 9.92 |
| 11 | 67 | | 6.08 | 20.95 | 0.01 | -2.52 | -0.01 | 8.39 |
| | 75 | | -6.08 | -16.03 | -0.01 | 2.52 | -0.01 | 12.32 |
| 12 | 67 | | 3.96 | 26.94 | 0.07 | -2.11 | -0.06 | 16.31 |
| | 75 | | -3.96 | -21.51 | -0.07 | 2.11 | -0.02 | 10.82 |
| 13 | 67 | | 3.81 | 28.38 | -0.02 | -3.43 | 0.03 | 17.54 |
| | 75 | | -3.81 | -22.95 | 0.02 | 3.43 | -0.01 | 11.21 |
| 14 | 67 | | 3.90 | 27.68 | 0.01 | -2.80 | -0.00 | 16.95 |
| | 75 | | -3.90 | -22.25 | -0.01 | 2.80 | -0.01 | 11.00 |
| 15 | 67 | | 5.40 | 24.37 | 0.01 | -2.80 | -0.00 | 11.32 |
| | 75 | | -5.40 | -18.94 | -0.01 | 2.80 | -0.01 | 12.93 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 121 | 7 | 69 | 5.09 | 10.43 | -0.01 | 1.08 | 0.01 | 5.53 |
| | | 84 | -5.09 | -8.05 | 0.01 | -1.08 | 0.01 | 4.82 |
| | 8 | 69 | 4.32 | 7.84 | -0.22 | 1.08 | 0.15 | 4.49 |
| | | 84 | -4.32 | -6.09 | 0.22 | -1.08 | 0.10 | 3.32 |
| | 9 | 69 | 3.81 | 6.90 | 0.19 | 0.57 | -0.13 | 3.53 |
| | | 84 | -3.81 | -5.15 | -0.19 | -0.57 | -0.08 | 3.21 |
| | 10 | 69 | 4.07 | 7.38 | -0.01 | 0.77 | 0.00 | 4.02 |
| | | 84 | -4.07 | -5.63 | 0.01 | -0.77 | 0.01 | 3.26 |
| | 11 | 69 | 5.32 | 5.79 | -0.01 | 0.77 | 0.00 | 1.52 |
| | | 84 | -5.32 | -4.04 | 0.01 | -0.77 | 0.01 | 3.99 |
| | 12 | 69 | 5.09 | 10.20 | -0.18 | 1.27 | 0.12 | 5.60 |
| | | 84 | -5.09 | -7.94 | 0.18 | -1.27 | 0.09 | 4.55 |
| | 13 | 69 | 4.68 | 9.44 | 0.14 | 0.86 | -0.10 | 4.84 |
| | | 84 | -4.68 | -7.19 | -0.14 | -0.86 | -0.06 | 4.47 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 14 | 69 | 4.89 | 9.82 | -0.01 | 1.02 | 0.01 | 5.23 |
| | | 84 | -4.89 | -7.57 | 0.01 | -1.02 | 0.01 | 4.51 |
| | 15 | 69 | 5.89 | 8.56 | -0.01 | 1.02 | 0.01 | 3.23 |
| | | 84 | -5.89 | -6.30 | 0.01 | -1.02 | 0.01 | 5.09 |
| 122 | 7 | 71 | 3.08 | 7.80 | -0.00 | -0.00 | -0.00 | 3.07 |
| | | 70 | -3.08 | 7.80 | 0.00 | 0.00 | 0.00 | -3.07 |
| | 8 | 71 | 3.90 | 4.00 | 0.09 | 0.05 | -0.12 | 0.39 |
| | | 70 | -3.90 | 6.88 | -0.09 | -0.05 | -0.12 | -4.37 |
| | 9 | 71 | 3.90 | 6.88 | -0.09 | -0.05 | 0.12 | 4.37 |
| | | 70 | -3.90 | 4.00 | 0.09 | 0.05 | 0.12 | -0.39 |
| | 10 | 71 | 2.37 | 5.44 | -0.00 | -0.00 | -0.00 | 2.19 |
| | | 70 | -2.37 | 5.44 | 0.00 | 0.00 | 0.00 | -2.19 |
| | 11 | 71 | 2.37 | 5.44 | -0.00 | -0.00 | -0.00 | 2.19 |
| | | 70 | -2.37 | 5.44 | 0.00 | 0.00 | 0.00 | -2.19 |
| | 12 | 71 | 4.17 | 6.17 | 0.07 | 0.04 | -0.10 | 1.46 |
| | | 70 | -4.17 | 8.48 | -0.07 | -0.04 | -0.10 | -4.64 |
| | 13 | 71 | 4.17 | 8.48 | -0.07 | -0.04 | 0.10 | 4.64 |
| | | 70 | -4.17 | 6.17 | 0.07 | 0.04 | 0.10 | -1.46 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 14 | 71 | 2.94 | 7.33 | -0.00 | -0.00 | -0.00 | 2.89 |
| | 70 | -2.94 | 7.33 | 0.00 | 0.00 | 0.00 | -2.89 |
| 15 | 71 | 2.94 | 7.33 | -0.00 | -0.00 | -0.00 | 2.89 |
| | 70 | -2.94 | 7.33 | 0.00 | 0.00 | 0.00 | -2.89 |
| 123 | 7 72 | 2.44 | 4.34 | -0.00 | 0.00 | 0.00 | 1.77 |
| | 69 | -2.44 | 4.34 | 0.00 | -0.00 | -0.00 | -1.77 |
| 8 | 72 | 3.48 | 1.04 | 0.10 | 0.05 | -0.14 | -1.33 |
| | 69 | -3.48 | 5.18 | -0.10 | -0.05 | -0.15 | -4.39 |
| 9 | 72 | 3.48 | 5.18 | -0.10 | -0.05 | 0.15 | 4.39 |
| | 69 | -3.48 | 1.04 | 0.10 | 0.05 | 0.14 | 1.33 |
| 10 | 72 | 1.93 | 3.11 | -0.00 | 0.00 | 0.00 | 1.32 |
| | 69 | -1.93 | 3.11 | 0.00 | -0.00 | -0.00 | -1.32 |
| 11 | 72 | 1.93 | 3.11 | -0.00 | 0.00 | 0.00 | 1.32 |
| | 69 | -1.93 | 3.11 | 0.00 | -0.00 | -0.00 | -1.32 |
| 12 | 72 | 3.58 | 2.44 | 0.08 | 0.04 | -0.11 | -0.44 |
| | 69 | -3.58 | 5.75 | -0.08 | -0.04 | -0.12 | -4.13 |
| 13 | 72 | 3.58 | 5.75 | -0.08 | -0.04 | 0.12 | 4.13 |
| | 69 | -3.58 | 2.44 | 0.08 | 0.04 | 0.11 | 0.44 |
| 14 | 72 | 2.34 | 4.09 | -0.00 | 0.00 | 0.00 | 1.68 |
| | 69 | -2.34 | 4.09 | 0.00 | -0.00 | -0.00 | -1.68 |
| 15 | 72 | 2.34 | 4.09 | -0.00 | 0.00 | 0.00 | 1.68 |
| | 69 | -2.34 | 4.09 | 0.00 | -0.00 | -0.00 | -1.68 |
| 124 | 7 72 | 5.09 | 10.43 | 0.01 | -1.08 | -0.01 | 5.53 |
| | 81 | -5.09 | -8.05 | -0.01 | 1.08 | -0.01 | 4.82 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 8 | 72 | 3.81 | 6.90 | -0.19 | -0.57 | 0.13 | 3.53 |
| | 81 | -3.81 | -5.15 | 0.19 | 0.57 | 0.08 | 3.21 |
| 9 | 72 | 4.32 | 7.84 | 0.22 | -1.08 | -0.15 | 4.49 |
| | 81 | -4.32 | -6.09 | -0.22 | 1.08 | -0.10 | 3.32 |
| 10 | 72 | 4.07 | 7.38 | 0.01 | -0.77 | -0.00 | 4.02 |
| | 81 | -4.07 | -5.63 | -0.01 | 0.77 | -0.01 | 3.26 |
| 11 | 72 | 5.32 | 5.79 | 0.01 | -0.77 | -0.00 | 1.52 |
| | 81 | -5.32 | -4.04 | -0.01 | 0.77 | -0.01 | 3.99 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 12 | 72 | 4.68 | 9.44 | -0.14 | -0.86 | 0.10 | 4.84 |
| | 81 | -4.68 | -7.19 | 0.14 | 0.86 | 0.06 | 4.47 |
| 13 | 72 | 5.09 | 10.20 | 0.18 | -1.27 | -0.12 | 5.60 |
| | 81 | -5.09 | -7.94 | -0.18 | 1.27 | -0.09 | 4.55 |
| 14 | 72 | 4.89 | 9.82 | 0.01 | -1.02 | -0.01 | 5.23 |
| | 81 | -4.89 | -7.57 | -0.01 | 1.02 | -0.01 | 4.51 |
| 15 | 72 | 5.89 | 8.56 | 0.01 | -1.02 | -0.01 | 3.23 |
| | 81 | -5.89 | -6.30 | -0.01 | 1.02 | -0.01 | 5.09 |
| 125 | 7 65 | 28.30 | -3.17 | 5.09 | -0.01 | -8.24 | -3.77 |
| | 71 | -26.70 | 3.17 | -5.09 | 0.01 | -4.73 | -4.31 |
| 8 | 65 | 19.01 | 2.60 | 4.21 | -0.02 | -7.07 | -1.18 |
| | 71 | -17.42 | 4.21 | -4.21 | 0.02 | -3.68 | -0.88 |
| 9 | 65 | 22.09 | -3.80 | 3.92 | 0.01 | -6.79 | -3.78 |
| | 71 | -20.50 | 3.80 | -3.92 | -0.01 | -3.19 | -5.92 |
| 10 | 65 | 20.55 | -2.43 | 4.05 | -0.01 | -6.92 | -3.11 |
| | 71 | -18.95 | 2.43 | -4.07 | 0.01 | -3.43 | -3.09 |
| 11 | 65 | 22.13 | -2.43 | 5.32 | -0.01 | -7.31 | -3.11 |
| | 71 | -20.54 | 2.43 | -5.32 | 0.01 | -6.25 | -3.09 |
| 12 | 65 | 25.52 | 1.00 | 5.00 | -0.02 | -8.09 | -2.10 |
| | 71 | -23.92 | 4.45 | -5.00 | 0.02 | -4.67 | -2.30 |
| 13 | 65 | 27.98 | -4.12 | 4.76 | 0.00 | -7.87 | -4.17 |
| | 71 | -26.38 | 4.12 | -4.76 | -0.00 | -4.28 | -6.32 |
| 14 | 65 | 26.74 | -3.02 | 4.87 | -0.01 | -7.98 | -3.64 |
| | 71 | -25.15 | 3.02 | -4.89 | 0.01 | -4.47 | -4.07 |
| 15 | 65 | 28.01 | -3.02 | 5.89 | -0.01 | -8.29 | -3.64 |
| | 71 | -26.42 | 3.02 | -5.89 | 0.01 | -6.72 | -4.07 |
| 126 | 7 68 | 16.37 | 2.45 | -5.09 | 0.00 | 7.45 | 3.40 |
| | 69 | -14.77 | -2.45 | 5.09 | -0.00 | 5.53 | 2.85 |
| 8 | 68 | 14.62 | 3.70 | -4.42 | -0.00 | 6.84 | 3.97 |
| | 69 | -13.02 | -3.70 | 4.42 | 0.00 | 4.44 | 5.47 |
| 9 | 68 | 9.53 | -3.52 | -3.70 | 0.00 | 5.87 | 0.47 |
| | 69 | -7.94 | -3.29 | 3.70 | -0.00 | 3.58 | -0.76 |
| 10 | 68 | 12.08 | 1.94 | -4.07 | 0.00 | 6.36 | 2.86 |
| | 69 | -10.49 | -1.94 | 4.07 | -0.00 | 4.02 | 2.09 |
| 11 | 68 | 10.50 | 1.94 | 0.27 | 0.00 | 4.92 | 2.86 |
| | 69 | -8.90 | -1.94 | 5.32 | -0.00 | 1.52 | 2.09 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| | 12 | 68 | 17.54 | 3.76 | -5.17 | -0.00 | 7.62 | 4.18 |
| | | 69 | -15.95 | -3.76 | 5.17 | 0.00 | 5.57 | 5.40 |
| | 13 | 68 | 13.47 | -2.01 | -4.60 | 0.00 | 6.84 | 1.39 |
| | | 69 | -11.88 | -3.43 | 4.60 | -0.00 | 4.88 | 0.42 |
| | 14 | 68 | 15.51 | 2.35 | -4.89 | 0.00 | 7.23 | 3.29 |
| | | 69 | -13.92 | -2.35 | 4.89 | -0.00 | 5.23 | 2.70 |
| | 15 | 68 | 14.24 | 2.35 | -1.42 | 0.00 | 6.08 | 3.29 |
| | | 69 | -12.65 | -2.35 | 5.89 | -0.00 | 3.23 | 2.70 |
| 127 | 7 | 66 | 28.30 | 3.17 | 5.09 | 0.01 | -8.24 | 3.77 |
| | | 70 | -26.70 | -3.17 | -5.09 | -0.01 | -4.73 | 4.31 |
| | 8 | 66 | 22.09 | 3.80 | 3.92 | -0.01 | -6.79 | 3.78 |
| | | 70 | -20.50 | -3.80 | -3.92 | 0.01 | -3.19 | 5.92 |
| | 9 | 66 | 19.01 | -2.60 | 4.21 | 0.02 | -7.07 | 1.18 |
| | | 70 | -17.42 | -4.21 | -4.21 | -0.02 | -3.68 | 0.88 |
| | 10 | 66 | 20.55 | 2.43 | 4.05 | 0.01 | -6.92 | 3.11 |
| | | 70 | -18.95 | -2.43 | -4.07 | -0.01 | -3.43 | 3.09 |
| | 11 | 66 | 22.13 | 2.43 | 5.32 | 0.01 | -7.31 | 3.11 |
| | | 70 | -20.54 | -2.43 | -5.32 | -0.01 | -6.25 | 3.09 |
| | 12 | 66 | 27.98 | 4.12 | 4.76 | -0.00 | -7.87 | 4.17 |
| | | 70 | -26.38 | -4.12 | -4.76 | 0.00 | -4.28 | 6.32 |
| | 13 | 66 | 25.52 | -1.00 | 5.00 | 0.02 | -8.09 | 2.10 |
| | | 70 | -23.92 | -4.45 | -5.00 | -0.02 | -4.67 | 2.30 |
| | 14 | 66 | 26.74 | 3.02 | 4.87 | 0.01 | -7.98 | 3.64 |
| | | 70 | -25.15 | -3.02 | -4.89 | -0.01 | -4.47 | 4.07 |
| | 15 | 66 | 28.01 | 3.02 | 5.89 | 0.01 | -8.29 | 3.64 |
| | | 70 | -26.42 | -3.02 | -5.89 | -0.01 | -6.72 | 4.07 |
| 128 | 7 | 67 | 16.37 | -2.45 | -5.09 | -0.00 | 7.45 | -3.40 |
| | | 72 | -14.77 | 2.45 | 5.09 | 0.00 | 5.53 | -2.85 |
| | 8 | 67 | 9.53 | 3.52 | -3.70 | -0.00 | 5.87 | -0.47 |
| | | 72 | -7.94 | 3.29 | 3.70 | 0.00 | 3.58 | 0.76 |
| | 9 | 67 | 14.62 | -3.70 | -4.42 | 0.00 | 6.84 | -3.97 |
| | | 72 | -13.02 | 3.70 | 4.42 | -0.00 | 4.44 | -5.47 |
| | 10 | 67 | 12.08 | -1.94 | -4.07 | -0.00 | 6.36 | -2.86 |
| | | 72 | -10.49 | 1.94 | 4.07 | 0.00 | 4.02 | -2.09 |
| | 11 | 67 | 10.50 | -1.94 | 0.27 | -0.00 | 4.92 | -2.86 |
| | | 72 | -8.90 | 1.94 | 5.32 | 0.00 | 1.52 | -2.09 |
| | 12 | 67 | 13.47 | 2.01 | -4.60 | -0.00 | 6.84 | -1.39 |
| | | 72 | -11.88 | 3.43 | 4.60 | 0.00 | 4.88 | -0.42 |
| | 13 | 67 | 17.54 | -3.76 | -5.17 | 0.00 | 7.62 | -4.18 |
| | | 72 | -15.95 | 3.76 | 5.17 | -0.00 | 5.57 | -5.40 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 14 | 67 | 15.51 | -2.35 | -4.89 | -0.00 | 7.23 | -3.29 |
| | 72 | -13.92 | 2.35 | 4.89 | 0.00 | 5.23 | -2.70 |
| 15 | 67 | 14.24 | -2.35 | -1.42 | -0.00 | 6.08 | -3.29 |
| | 72 | -12.65 | 2.35 | 5.89 | 0.00 | 3.23 | -2.70 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 129 | 7 | 41 | -0.00 | 5.97 | -0.03 | -0.61 | 0.02 | 5.00 |
| | | 73 | 0.00 | -4.03 | 0.03 | 0.61 | 0.01 | 0.00 |
| | 8 | 41 | 0.01 | 3.16 | -0.00 | 1.11 | 0.01 | 2.62 |
| | | 73 | -0.01 | -1.72 | 0.00 | -1.11 | -0.01 | -0.18 |
| | 9 | 41 | -0.01 | 5.51 | -0.00 | -2.13 | -0.01 | 4.61 |
| | | 73 | 0.01 | -4.07 | 0.00 | 2.13 | 0.01 | 0.18 |
| | 10 | 41 | -0.00 | 4.34 | -0.03 | -0.45 | 0.02 | 3.62 |
| | | 73 | 0.00 | -2.90 | 0.03 | 0.45 | 0.01 | 0.00 |
| | 11 | 41 | -0.00 | 4.34 | -0.03 | -0.45 | 0.02 | 3.62 |
| | | 73 | 0.00 | -2.90 | 0.03 | 0.45 | 0.01 | 0.00 |
| | 12 | 41 | 0.01 | 4.70 | -0.01 | 0.67 | 0.01 | 3.92 |
| | | 73 | -0.01 | -2.86 | 0.01 | -0.67 | -0.00 | -0.14 |
| | 13 | 41 | -0.01 | 6.58 | -0.01 | -1.92 | -0.00 | 5.52 |
| | | 73 | 0.01 | -4.74 | 0.01 | 1.92 | 0.01 | 0.14 |
| | 14 | 41 | -0.00 | 5.64 | -0.03 | -0.58 | 0.02 | 4.72 |
| | | 73 | 0.00 | -3.80 | 0.03 | 0.58 | 0.01 | 0.00 |
| | 15 | 41 | -0.00 | 5.64 | -0.03 | -0.58 | 0.02 | 4.72 |
| | | 73 | 0.00 | -3.80 | 0.03 | 0.58 | 0.01 | 0.00 |
| 130 | 7 | 42 | 0.00 | 5.97 | 0.03 | 0.61 | -0.02 | 5.00 |
| | | 74 | -0.00 | -4.03 | -0.03 | -0.61 | -0.01 | -0.00 |
| | 8 | 42 | -0.01 | 5.51 | 0.00 | 2.13 | 0.01 | 4.61 |
| | | 74 | 0.01 | -4.07 | -0.00 | -2.13 | -0.01 | 0.18 |
| | 9 | 42 | 0.01 | 3.16 | 0.00 | -1.11 | -0.01 | 2.62 |
| | | 74 | -0.01 | -1.72 | -0.00 | 1.11 | 0.01 | -0.18 |
| | 10 | 42 | 0.00 | 4.34 | 0.03 | 0.45 | -0.02 | 3.62 |
| | | 74 | -0.00 | -2.90 | -0.03 | -0.45 | -0.01 | -0.00 |
| | 11 | 42 | 0.00 | 4.34 | 0.03 | 0.45 | -0.02 | 3.62 |
| | | 74 | -0.00 | -2.90 | -0.03 | -0.45 | -0.01 | -0.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 12 | 42 | -0.01 | 6.58 | 0.01 | 1.92 | 0.00 | 5.52 |
| | 74 | 0.01 | -4.74 | -0.01 | -1.92 | -0.01 | 0.14 |
| 13 | 42 | 0.01 | 4.70 | 0.01 | -0.67 | -0.01 | 3.92 |
| | 74 | -0.01 | -2.86 | -0.01 | 0.67 | 0.00 | -0.14 |
| 14 | 42 | 0.00 | 5.64 | 0.03 | 0.58 | -0.02 | 4.72 |
| | 74 | -0.00 | -3.80 | -0.03 | -0.58 | -0.01 | -0.00 |
| 15 | 42 | 0.00 | 5.64 | 0.03 | 0.58 | -0.02 | 4.72 |
| | 74 | -0.00 | -3.80 | -0.03 | -0.58 | -0.01 | -0.00 |
| 131 | 7 73 | -0.03 | 4.03 | 0.00 | -0.00 | -0.01 | 0.61 |
| | 74 | 0.03 | 4.03 | -0.00 | 0.00 | 0.01 | -0.61 |
| 8 | 73 | -0.00 | 1.72 | -0.01 | 0.18 | 0.01 | -1.11 |
| | 74 | 0.00 | 4.07 | 0.01 | -0.18 | 0.01 | -2.13 |
| 9 | 73 | -0.00 | 4.07 | 0.01 | -0.18 | -0.01 | 2.13 |
| | 74 | 0.00 | 1.72 | -0.01 | 0.18 | -0.01 | 1.11 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 10 | | 73 | -0.03 | 2.90 | 0.00 | -0.00 | -0.01 | 0.45 |
| | | 74 | 0.03 | 2.90 | -0.00 | 0.00 | 0.01 | -0.45 |
| 11 | | 73 | -0.03 | 2.90 | 0.00 | -0.00 | -0.01 | 0.45 |
| | | 74 | 0.03 | 2.90 | -0.00 | 0.00 | 0.01 | -0.45 |
| 12 | | 73 | -0.01 | 2.86 | -0.01 | 0.14 | 0.00 | -0.67 |
| | | 74 | 0.01 | 4.74 | 0.01 | -0.14 | 0.01 | -1.92 |
| 13 | | 73 | -0.01 | 4.74 | 0.01 | -0.14 | -0.01 | 1.92 |
| | | 74 | 0.01 | 2.86 | -0.01 | 0.14 | -0.00 | 0.67 |
| 14 | | 73 | -0.03 | 3.80 | 0.00 | -0.00 | -0.01 | 0.58 |
| | | 74 | 0.03 | 3.80 | -0.00 | 0.00 | 0.01 | -0.58 |
| 15 | | 73 | -0.03 | 3.80 | 0.00 | -0.00 | -0.01 | 0.58 |
| | | 74 | 0.03 | 3.80 | -0.00 | 0.00 | 0.01 | -0.58 |
| 132 | 7 | 75 | 3.81 | 2.17 | 0.00 | 0.01 | 0.00 | -11.28 |
| | | 76 | -3.81 | 3.39 | -0.00 | -0.01 | -0.01 | 10.60 |
| 8 | | 75 | 4.27 | 1.78 | 0.05 | -0.08 | -0.02 | -9.81 |
| | | 76 | -4.27 | 3.15 | -0.05 | 0.08 | -0.04 | 9.04 |
| 9 | | 75 | 4.13 | 2.27 | -0.05 | 0.09 | 0.04 | -10.04 |
| | | 76 | -4.13 | 2.66 | 0.05 | -0.09 | 0.01 | 9.82 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 10 | 75 | 4.21 | 2.04 | 0.00 | 0.01 | 0.01 | -9.92 |
| | 76 | -4.21 | 2.89 | -0.00 | -0.01 | -0.01 | 9.44 |
| 11 | 75 | 6.08 | -2.10 | 0.00 | 0.01 | 0.01 | -12.32 |
| | 76 | -6.08 | 7.02 | -0.00 | -0.01 | -0.01 | 7.21 |
| 12 | 75 | 3.94 | 1.94 | 0.04 | -0.06 | -0.01 | -10.92 |
| | 76 | -3.94 | 3.49 | -0.04 | 0.06 | -0.03 | 10.06 |
| 13 | 75 | 3.83 | 2.33 | -0.04 | 0.08 | 0.03 | -11.10 |
| | 76 | -3.83 | 3.10 | 0.04 | -0.08 | 0.01 | 10.67 |
| 14 | 75 | 3.90 | 2.15 | 0.00 | 0.01 | 0.01 | -11.00 |
| | 76 | -3.90 | 3.28 | -0.00 | -0.01 | -0.01 | 10.37 |
| 15 | 75 | 5.40 | -1.16 | 0.00 | 0.01 | 0.01 | -12.93 |
| | 76 | -5.40 | 6.59 | -0.00 | -0.01 | -0.01 | 8.59 |
| 133 | 7 76 | 3.81 | -23.97 | -0.01 | 2.91 | 0.01 | -10.60 |
| | 65 | -3.81 | 29.53 | 0.01 | -2.91 | 0.00 | -19.36 |
| 8 | 76 | 4.24 | -20.72 | 0.01 | 1.67 | 0.01 | -9.11 |
| | 65 | -4.24 | 25.65 | -0.01 | -1.67 | -0.03 | -16.86 |
| 9 | 76 | 4.15 | -21.34 | -0.09 | 3.36 | 0.03 | -9.75 |
| | 65 | -4.15 | 26.27 | 0.09 | -3.36 | 0.07 | -16.90 |
| 10 | 76 | 4.21 | -21.01 | -0.01 | 2.55 | 0.01 | -9.44 |
| | 65 | -4.21 | 25.94 | 0.01 | -2.55 | 0.00 | -16.85 |
| 11 | 76 | 6.08 | -25.15 | -0.01 | 2.55 | 0.01 | -7.21 |
| | 65 | -6.08 | 30.07 | 0.01 | -2.55 | 0.00 | -23.71 |
| 12 | 76 | 3.93 | -23.14 | 0.01 | 2.14 | 0.01 | -10.11 |
| | 65 | -3.93 | 28.57 | -0.01 | -2.14 | -0.02 | -18.85 |
| 13 | 76 | 3.85 | -23.63 | -0.07 | 3.49 | 0.02 | -10.62 |
| | 65 | -3.85 | 29.06 | 0.07 | -3.49 | 0.06 | -18.89 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 14 | 76 | 3.90 | -23.37 | -0.01 | 2.84 | 0.01 | -10.37 |
| | 65 | -3.90 | 28.80 | 0.01 | -2.84 | 0.00 | -18.84 |
| 15 | 76 | 5.40 | -26.68 | -0.01 | 2.84 | 0.01 | -8.59 |
| | 65 | -5.40 | 32.11 | 0.01 | -2.84 | 0.00 | -24.33 |
| 134 | 7 77 | 3.81 | -23.97 | 0.01 | -2.91 | -0.01 | -10.60 |
| | 66 | -3.81 | 29.53 | -0.01 | 2.91 | -0.00 | -19.36 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 8 | 77 | 4.15 | -21.34 | 0.09 | -3.36 | -0.03 | -9.75 |
| | 66 | -4.15 | 26.27 | -0.09 | 3.36 | -0.07 | -16.90 |
| 9 | 77 | 4.24 | -20.72 | -0.01 | -1.67 | -0.01 | -9.11 |
| | 66 | -4.24 | 25.65 | 0.01 | 1.67 | 0.03 | -16.86 |
| 10 | 77 | 4.21 | -21.01 | 0.01 | -2.55 | -0.01 | -9.44 |
| | 66 | -4.21 | 25.94 | -0.01 | 2.55 | -0.00 | -16.85 |
| 11 | 77 | 6.08 | -25.15 | 0.01 | -2.55 | -0.01 | -7.21 |
| | 66 | -6.08 | 30.07 | -0.01 | 2.55 | -0.00 | -23.71 |
| 12 | 77 | 3.85 | -23.63 | 0.07 | -3.49 | -0.02 | -10.62 |
| | 66 | -3.85 | 29.06 | -0.07 | 3.49 | -0.06 | -18.89 |
| 13 | 77 | 3.93 | -23.14 | -0.01 | -2.14 | -0.01 | -10.11 |
| | 66 | -3.93 | 28.57 | 0.01 | 2.14 | 0.02 | -18.85 |
| 14 | 77 | 3.90 | -23.37 | 0.01 | -2.84 | -0.01 | -10.37 |
| | 66 | -3.90 | 28.80 | -0.01 | 2.84 | -0.00 | -18.84 |
| 15 | 77 | 5.40 | -26.68 | 0.01 | -2.84 | -0.01 | -8.59 |
| | 66 | -5.40 | 32.11 | -0.01 | 2.84 | -0.00 | -24.33 |
| | | | | | | | |
| 135 | 7 76 | 0.01 | 20.59 | -0.00 | 0.00 | -0.00 | 2.90 |
| | 77 | -0.01 | 20.59 | 0.00 | -0.00 | 0.00 | -2.90 |
| 8 | 76 | 0.04 | 17.57 | -0.02 | 0.06 | 0.03 | 1.74 |
| | 77 | -0.04 | 18.67 | 0.02 | -0.06 | 0.04 | -3.27 |
| 9 | 76 | 0.04 | 18.67 | 0.02 | -0.06 | -0.04 | 3.27 |
| | 77 | -0.04 | 17.57 | -0.02 | 0.06 | -0.03 | -1.74 |
| 10 | 76 | 0.01 | 18.12 | -0.00 | 0.00 | -0.00 | 2.54 |
| | 77 | -0.01 | 18.12 | 0.00 | -0.00 | 0.00 | -2.54 |
| 11 | 76 | 0.01 | 18.12 | -0.00 | 0.00 | -0.00 | 2.54 |
| | 77 | -0.01 | 18.12 | 0.00 | -0.00 | 0.00 | -2.54 |
| 12 | 76 | 0.03 | 19.65 | -0.02 | 0.05 | 0.02 | 2.19 |
| | 77 | -0.03 | 20.53 | 0.02 | -0.05 | 0.03 | -3.41 |
| 13 | 76 | 0.03 | 20.53 | 0.02 | -0.05 | -0.03 | 3.41 |
| | 77 | -0.03 | 19.65 | -0.02 | 0.05 | -0.02 | -2.19 |
| 14 | 76 | 0.01 | 20.09 | -0.00 | 0.00 | -0.00 | 2.83 |
| | 77 | -0.01 | 20.09 | 0.00 | -0.00 | 0.00 | -2.83 |
| 15 | 76 | 0.01 | 20.09 | -0.00 | 0.00 | -0.00 | 2.83 |
| | 77 | -0.01 | 20.09 | 0.00 | -0.00 | 0.00 | -2.83 |
| | | | | | | | |
| 136 | 7 78 | 3.81 | 2.17 | -0.00 | -0.01 | -0.00 | -11.28 |
| | 77 | -3.81 | 3.39 | 0.00 | 0.01 | 0.01 | 10.60 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| | 8 | 78 | 4.13 | 2.27 | 0.05 | -0.09 | -0.04 | -10.04 |
| | | 77 | -4.13 | 2.66 | -0.05 | 0.09 | -0.01 | 9.82 |
| | 9 | 78 | 4.27 | 1.78 | -0.05 | 0.08 | 0.02 | -9.81 |
| | | 77 | -4.27 | 3.15 | 0.05 | -0.08 | 0.04 | 9.04 |
| | 10 | 78 | 4.21 | 2.04 | -0.00 | -0.01 | -0.01 | -9.92 |
| | | 77 | -4.21 | 2.89 | 0.00 | 0.01 | 0.01 | 9.44 |
| | 11 | 78 | 6.08 | -2.10 | -0.00 | -0.01 | -0.01 | -12.32 |
| | | 77 | -6.08 | 7.02 | 0.00 | 0.01 | 0.01 | 7.21 |
| | 12 | 78 | 3.83 | 2.33 | 0.04 | -0.08 | -0.03 | -11.10 |
| | | 77 | -3.83 | 3.10 | -0.04 | 0.08 | -0.01 | 10.67 |
| | 13 | 78 | 3.94 | 1.94 | -0.04 | 0.06 | 0.01 | -10.92 |
| | | 77 | -3.94 | 3.49 | 0.04 | -0.06 | 0.03 | 10.06 |
| | 14 | 78 | 3.90 | 2.15 | -0.00 | -0.01 | -0.01 | -11.00 |
| | | 77 | -3.90 | 3.28 | 0.00 | 0.01 | 0.01 | 10.37 |
| | 15 | 78 | 5.40 | -1.16 | -0.00 | -0.01 | -0.01 | -12.93 |
| | | 77 | -5.40 | 6.59 | 0.00 | 0.01 | 0.01 | 8.59 |
| 137 | 7 | 75 | 0.01 | 20.59 | -0.00 | -0.00 | 0.00 | 2.88 |
| | | 78 | -0.01 | 20.59 | 0.00 | 0.00 | -0.00 | -2.88 |
| | 8 | 75 | 0.03 | 17.46 | -0.02 | 0.13 | 0.04 | 1.58 |
| | | 78 | -0.03 | 18.78 | 0.02 | -0.13 | 0.03 | -3.40 |
| | 9 | 75 | 0.03 | 18.78 | 0.02 | -0.13 | -0.03 | 3.40 |
| | | 78 | -0.03 | 17.46 | -0.02 | 0.13 | -0.04 | -1.58 |
| | 10 | 75 | 0.01 | 18.12 | -0.00 | -0.00 | 0.00 | 2.52 |
| | | 78 | -0.01 | 18.12 | 0.00 | 0.00 | -0.00 | -2.52 |
| | 11 | 75 | 0.01 | 18.12 | -0.00 | -0.00 | 0.00 | 2.52 |
| | | 78 | -0.01 | 18.12 | 0.00 | 0.00 | -0.00 | -2.52 |
| | 12 | 75 | 0.02 | 19.57 | -0.02 | 0.10 | 0.03 | 2.05 |
| | | 78 | -0.02 | 20.62 | 0.02 | -0.10 | 0.02 | -3.51 |
| | 13 | 75 | 0.02 | 20.62 | 0.02 | -0.10 | -0.02 | 3.51 |
| | | 78 | -0.02 | 19.57 | -0.02 | 0.10 | -0.03 | -2.05 |
| | 14 | 75 | 0.01 | 20.09 | -0.00 | -0.00 | 0.00 | 2.81 |
| | | 78 | -0.01 | 20.09 | 0.00 | 0.00 | -0.00 | -2.81 |
| | 15 | 75 | 0.01 | 20.09 | -0.00 | -0.00 | 0.00 | 2.81 |
| | | 78 | -0.01 | 20.09 | 0.00 | 0.00 | -0.00 | -2.81 |
| 138 | 7 | 71 | 0.00 | 5.97 | 0.04 | -0.32 | -0.03 | 5.00 |
| | | 79 | -0.00 | -4.03 | -0.04 | 0.32 | -0.01 | 0.00 |
| | 8 | 71 | -0.03 | 4.18 | 0.05 | -0.09 | -0.08 | 3.51 |
| | | 79 | 0.03 | -2.74 | -0.05 | 0.09 | 0.03 | -0.05 |
| | 9 | 71 | 0.03 | 4.50 | 0.05 | -0.53 | -0.00 | 3.72 |
| | | 79 | -0.03 | -3.06 | -0.05 | 0.53 | -0.05 | 0.05 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 10 | 71 | 0.00 | 4.34 | 0.03 | -0.26 | -0.03 | 3.62 |
| | 79 | -0.00 | -2.90 | -0.03 | 0.26 | -0.01 | 0.00 |
| 11 | 71 | 0.00 | 4.34 | 0.03 | -0.26 | -0.03 | 3.62 |
| | 79 | -0.00 | -2.90 | -0.03 | 0.26 | -0.01 | 0.00 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 12 | 71 | | -0.02 | 5.51 | 0.06 | -0.18 | -0.08 | 4.64 |
| | | 79 | 0.02 | -3.67 | -0.06 | 0.18 | 0.02 | -0.04 |
| 13 | 71 | | 0.02 | 5.77 | 0.06 | -0.53 | -0.01 | 4.81 |
| | | 79 | -0.02 | -3.93 | -0.06 | 0.53 | -0.04 | 0.04 |
| 14 | 71 | | 0.00 | 5.64 | 0.04 | -0.31 | -0.03 | 4.72 |
| | | 79 | -0.00 | -3.80 | -0.04 | 0.31 | -0.01 | 0.00 |
| 15 | 71 | | 0.00 | 5.64 | 0.04 | -0.31 | -0.03 | 4.72 |
| | | 79 | -0.00 | -3.80 | -0.04 | 0.31 | -0.01 | 0.00 |
| 139 | 7 | 70 | -0.00 | 5.97 | -0.04 | 0.32 | 0.03 | 5.00 |
| | | 80 | 0.00 | -4.03 | 0.04 | -0.32 | 0.01 | -0.00 |
| 8 | | 70 | 0.03 | 4.50 | -0.05 | 0.53 | 0.00 | 3.72 |
| | | 80 | -0.03 | -3.06 | 0.05 | -0.53 | 0.05 | 0.05 |
| 9 | | 70 | -0.03 | 4.18 | -0.05 | 0.09 | 0.08 | 3.51 |
| | | 80 | 0.03 | -2.74 | 0.05 | -0.09 | -0.03 | -0.05 |
| 10 | | 70 | -0.00 | 4.34 | -0.03 | 0.26 | 0.03 | 3.62 |
| | | 80 | 0.00 | -2.90 | 0.03 | -0.26 | 0.01 | -0.00 |
| 11 | | 70 | -0.00 | 4.34 | -0.03 | 0.26 | 0.03 | 3.62 |
| | | 80 | 0.00 | -2.90 | 0.03 | -0.26 | 0.01 | -0.00 |
| 12 | | 70 | 0.02 | 5.77 | -0.06 | 0.53 | 0.01 | 4.81 |
| | | 80 | -0.02 | -3.93 | 0.06 | -0.53 | 0.04 | 0.04 |
| 13 | | 70 | -0.02 | 5.51 | -0.06 | 0.18 | 0.08 | 4.64 |
| | | 80 | 0.02 | -3.67 | 0.06 | -0.18 | -0.02 | -0.04 |
| 14 | | 70 | -0.00 | 5.64 | -0.04 | 0.31 | 0.03 | 4.72 |
| | | 80 | 0.00 | -3.80 | 0.04 | -0.31 | 0.01 | -0.00 |
| 15 | | 70 | -0.00 | 5.64 | -0.04 | 0.31 | 0.03 | 4.72 |
| | | 80 | 0.00 | -3.80 | 0.04 | -0.31 | 0.01 | -0.00 |
| 140 | 7 | 79 | 0.04 | 4.03 | -0.00 | -0.00 | 0.01 | 0.32 |
| | | 80 | -0.04 | 4.03 | 0.00 | 0.00 | -0.01 | -0.32 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 8 | 79 | 0.05 | 2.74 | 0.03 | 0.05 | -0.03 | 0.09 |
| | 80 | -0.05 | 3.06 | -0.03 | -0.05 | -0.05 | -0.53 |
| 9 | 79 | 0.05 | 3.06 | -0.03 | -0.05 | 0.05 | 0.53 |
| | 80 | -0.05 | 2.74 | 0.03 | 0.05 | 0.03 | -0.09 |
| 10 | 79 | 0.03 | 2.90 | -0.00 | -0.00 | 0.01 | 0.26 |
| | 80 | -0.03 | 2.90 | 0.00 | 0.00 | -0.01 | -0.26 |
| 11 | 79 | 0.03 | 2.90 | -0.00 | -0.00 | 0.01 | 0.26 |
| | 80 | -0.03 | 2.90 | 0.00 | 0.00 | -0.01 | -0.26 |
| 12 | 79 | 0.06 | 3.67 | 0.02 | 0.04 | -0.02 | 0.18 |
| | 80 | -0.06 | 3.93 | -0.02 | -0.04 | -0.04 | -0.53 |
| 13 | 79 | 0.06 | 3.93 | -0.02 | -0.04 | 0.04 | 0.53 |
| | 80 | -0.06 | 3.67 | 0.02 | 0.04 | 0.02 | -0.18 |
| 14 | 79 | 0.04 | 3.80 | -0.00 | -0.00 | 0.01 | 0.31 |
| | 80 | -0.04 | 3.80 | 0.00 | 0.00 | -0.01 | -0.31 |
| 15 | 79 | 0.04 | 3.80 | -0.00 | -0.00 | 0.01 | 0.31 |
| | 80 | -0.04 | 3.80 | 0.00 | 0.00 | -0.01 | -0.31 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 141 | 7 | 81 | 5.09 | -0.06 | 0.01 | -0.04 | 0.01 | -4.82 |
| | | 82 | -5.09 | 2.44 | -0.01 | 0.04 | -0.01 | 3.42 |
| 8 | | 81 | 3.96 | -0.25 | -0.20 | -0.11 | 0.12 | -3.32 |
| | | 82 | -3.96 | 2.01 | 0.20 | 0.11 | 0.10 | 2.05 |
| 9 | | 81 | 4.17 | 0.19 | 0.21 | 0.06 | -0.10 | -3.21 |
| | | 82 | -4.17 | 1.56 | -0.21 | -0.06 | -0.13 | 2.45 |
| 10 | | 81 | 4.07 | -0.02 | 0.00 | -0.03 | 0.00 | -3.26 |
| | | 82 | -4.07 | 1.78 | -0.00 | 0.03 | -0.01 | 2.25 |
| 11 | | 81 | 5.32 | -1.61 | 0.00 | -0.03 | 0.00 | -3.99 |
| | | 82 | -5.32 | 3.36 | -0.00 | 0.03 | -0.01 | 1.21 |
| 12 | | 81 | 4.80 | -0.23 | -0.16 | -0.10 | 0.10 | -4.55 |
| | | 82 | -4.80 | 2.49 | 0.16 | 0.10 | 0.07 | 3.03 |
| 13 | | 81 | 4.97 | 0.12 | 0.17 | 0.03 | -0.08 | -4.47 |
| | | 82 | -4.97 | 2.13 | -0.17 | -0.03 | -0.11 | 3.35 |
| 14 | | 81 | 4.89 | -0.05 | 0.01 | -0.04 | 0.01 | -4.51 |
| | | 82 | -4.89 | 2.30 | -0.01 | 0.04 | -0.01 | 3.19 |
| 15 | | 81 | 5.89 | -1.32 | 0.01 | -0.04 | 0.01 | -5.09 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 82 | -5.89 | 3.57 | -0.01 | 0.04 | -0.01 | 2.35 |
| 142 | 7 | 82 | 5.09 | -10.55 | -0.04 | 0.91 | 0.02 | -3.42 |
| | | 71 | -5.09 | 12.93 | 0.04 | -0.91 | 0.03 | -9.73 |
| | 8 | 82 | 4.10 | -7.49 | -0.26 | 0.39 | 0.10 | -2.14 |
| | | 71 | -4.10 | 9.24 | 0.26 | -0.39 | 0.18 | -7.24 |
| | 9 | 82 | 4.03 | -7.37 | 0.15 | 1.01 | -0.06 | -2.36 |
| | | 71 | -4.03 | 9.12 | -0.15 | -1.01 | -0.11 | -6.87 |
| | 10 | 82 | 4.07 | -7.42 | -0.03 | 0.65 | 0.01 | -2.25 |
| | | 71 | -4.07 | 9.18 | 0.03 | -0.65 | 0.02 | -7.04 |
| | 11 | 82 | 5.32 | -9.01 | -0.03 | 0.65 | 0.01 | -1.21 |
| | | 71 | -5.32 | 10.76 | 0.03 | -0.65 | 0.02 | -9.86 |
| | 12 | 82 | 4.91 | -9.98 | -0.22 | 0.66 | 0.09 | -3.10 |
| | | 71 | -4.91 | 12.23 | 0.22 | -0.66 | 0.16 | -9.34 |
| | 13 | 82 | 4.86 | -9.88 | 0.11 | 1.15 | -0.04 | -3.28 |
| | | 71 | -4.86 | 12.13 | -0.11 | -1.15 | -0.08 | -9.05 |
| | 14 | 82 | 4.89 | -9.92 | -0.04 | 0.86 | 0.02 | -3.19 |
| | | 71 | -4.89 | 12.18 | 0.04 | -0.86 | 0.03 | -9.19 |
| | 15 | 82 | 5.89 | -11.19 | -0.04 | 0.86 | 0.02 | -2.35 |
| | | 71 | -5.89 | 13.45 | 0.04 | -0.86 | 0.03 | -11.44 |
| 143 | 7 | 83 | 5.09 | -10.55 | 0.04 | -0.91 | -0.02 | -3.42 |
| | | 70 | -5.09 | 12.93 | -0.04 | 0.91 | -0.03 | -9.73 |
| | 8 | 83 | 4.03 | -7.37 | -0.15 | -1.01 | 0.06 | -2.36 |
| | | 70 | -4.03 | 9.12 | 0.15 | 1.01 | 0.11 | -6.87 |
| | 9 | 83 | 4.10 | -7.49 | 0.26 | -0.39 | -0.10 | -2.14 |
| | | 70 | -4.10 | 9.24 | -0.26 | 0.39 | -0.18 | -7.24 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 10 | 83 | 4.07 | -7.42 | 0.03 | -0.65 | -0.01 | -2.25 |
| | 70 | -4.07 | 9.18 | -0.03 | 0.65 | -0.02 | -7.04 |
| 11 | 83 | 5.32 | -9.01 | 0.03 | -0.65 | -0.01 | -1.21 |
| | 70 | -5.32 | 10.76 | -0.03 | 0.65 | -0.02 | -9.86 |
| 12 | 83 | 4.86 | -9.88 | -0.11 | -1.15 | 0.04 | -3.28 |
| | 70 | -4.86 | 12.13 | 0.11 | 1.15 | 0.08 | -9.05 |
| 13 | 83 | 4.91 | -9.98 | 0.22 | -0.66 | -0.09 | -3.10 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 70 | -4.91 | 12.23 | -0.22 | 0.66 | -0.16 | -9.34 |
| 14 | 83 | 4.89 | -9.92 | 0.04 | -0.86 | -0.02 | -3.19 |
| | 70 | -4.89 | 12.18 | -0.04 | 0.86 | -0.03 | -9.19 |
| 15 | 83 | 5.89 | -11.19 | 0.04 | -0.86 | -0.02 | -2.35 |
| | 70 | -5.89 | 13.45 | -0.04 | 0.86 | -0.03 | -11.44 |
| 144 | 7 82 | 0.05 | 8.11 | -0.00 | -0.00 | -0.00 | 0.95 |
| | 83 | -0.05 | 8.11 | 0.00 | 0.00 | 0.00 | -0.95 |
| 8 | 82 | 0.06 | 5.49 | 0.14 | 0.08 | -0.20 | 0.51 |
| | 83 | -0.06 | 5.81 | -0.14 | -0.08 | -0.19 | -0.96 |
| 9 | 82 | 0.06 | 5.81 | -0.14 | -0.08 | 0.19 | 0.96 |
| | 83 | -0.06 | 5.49 | 0.14 | 0.08 | 0.20 | -0.51 |
| 10 | 82 | 0.04 | 5.65 | -0.00 | -0.00 | -0.00 | 0.68 |
| | 83 | -0.04 | 5.65 | 0.00 | 0.00 | 0.00 | -0.68 |
| 11 | 82 | 0.04 | 5.65 | -0.00 | -0.00 | -0.00 | 0.68 |
| | 83 | -0.04 | 5.65 | 0.00 | 0.00 | 0.00 | -0.68 |
| 12 | 82 | 0.07 | 7.49 | 0.11 | 0.07 | -0.16 | 0.76 |
| | 83 | -0.07 | 7.75 | -0.11 | -0.07 | -0.15 | -1.12 |
| 13 | 82 | 0.07 | 7.75 | -0.11 | -0.07 | 0.15 | 1.12 |
| | 83 | -0.07 | 7.49 | 0.11 | 0.07 | 0.16 | -0.76 |
| 14 | 82 | 0.05 | 7.62 | -0.00 | -0.00 | -0.00 | 0.90 |
| | 83 | -0.05 | 7.62 | 0.00 | 0.00 | 0.00 | -0.90 |
| 15 | 82 | 0.05 | 7.62 | -0.00 | -0.00 | -0.00 | 0.90 |
| | 83 | -0.05 | 7.62 | 0.00 | 0.00 | 0.00 | -0.90 |
| 145 | 7 84 | 5.09 | -0.06 | -0.01 | 0.04 | -0.01 | -4.82 |
| | 83 | -5.09 | 2.44 | 0.01 | -0.04 | 0.01 | 3.42 |
| 8 | 84 | 4.17 | 0.19 | -0.21 | -0.06 | 0.10 | -3.21 |
| | 83 | -4.17 | 1.56 | 0.21 | 0.06 | 0.13 | 2.45 |
| 9 | 84 | 3.96 | -0.25 | 0.20 | 0.11 | -0.12 | -3.32 |
| | 83 | -3.96 | 2.01 | -0.20 | -0.11 | -0.10 | 2.05 |
| 10 | 84 | 4.07 | -0.02 | -0.00 | 0.03 | -0.00 | -3.26 |
| | 83 | -4.07 | 1.78 | 0.00 | -0.03 | 0.01 | 2.25 |
| 11 | 84 | 5.32 | -1.61 | -0.00 | 0.03 | -0.00 | -3.99 |
| | 83 | -5.32 | 3.36 | 0.00 | -0.03 | 0.01 | 1.21 |
| 12 | 84 | 4.97 | 0.12 | -0.17 | -0.03 | 0.08 | -4.47 |
| | 83 | -4.97 | 2.13 | 0.17 | 0.03 | 0.11 | 3.35 |
| 13 | 84 | 4.80 | -0.23 | 0.16 | 0.10 | -0.10 | -4.55 |
| | 83 | -4.80 | 2.49 | -0.16 | -0.10 | -0.07 | 3.03 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 14 | | 84 | 4.89 | -0.05 | -0.01 | 0.04 | -0.01 | -4.51 |
| | | 83 | -4.89 | 2.30 | 0.01 | -0.04 | 0.01 | 3.19 |
| 15 | | 84 | 5.89 | -1.32 | -0.01 | 0.04 | -0.01 | -5.09 |
| | | 83 | -5.89 | 3.57 | 0.01 | -0.04 | 0.01 | 2.35 |
| 146 | 7 | 81 | 0.01 | 8.11 | -0.00 | 0.00 | 0.00 | 1.05 |
| | | 84 | -0.01 | 8.11 | 0.00 | -0.00 | -0.00 | -1.05 |
| | 8 | 81 | 0.01 | 5.40 | 0.15 | 0.10 | -0.20 | 0.46 |
| | | 84 | -0.01 | 5.89 | -0.15 | -0.10 | -0.21 | -1.14 |
| | 9 | 81 | 0.01 | 5.89 | -0.15 | -0.10 | 0.21 | 1.14 |
| | | 84 | -0.01 | 5.40 | 0.15 | 0.10 | 0.20 | -0.46 |
| | 10 | 81 | 0.01 | 5.65 | -0.00 | 0.00 | 0.00 | 0.74 |
| | | 84 | -0.01 | 5.65 | 0.00 | -0.00 | -0.00 | -0.74 |
| | 11 | 81 | 0.01 | 5.65 | -0.00 | 0.00 | 0.00 | 0.74 |
| | | 84 | -0.01 | 5.65 | 0.00 | -0.00 | -0.00 | -0.74 |
| | 12 | 81 | 0.01 | 7.42 | 0.12 | 0.08 | -0.16 | 0.76 |
| | | 84 | -0.01 | 7.82 | -0.12 | -0.08 | -0.17 | -1.30 |
| | 13 | 81 | 0.01 | 7.82 | -0.12 | -0.08 | 0.17 | 1.30 |
| | | 84 | -0.01 | 7.42 | 0.12 | 0.08 | 0.16 | -0.76 |
| | 14 | 81 | 0.01 | 7.62 | -0.00 | 0.00 | 0.00 | 0.99 |
| | | 84 | -0.01 | 7.62 | 0.00 | -0.00 | -0.00 | -0.99 |
| | 15 | 81 | 0.01 | 7.62 | -0.00 | 0.00 | 0.00 | 0.99 |
| | | 84 | -0.01 | 7.62 | 0.00 | -0.00 | -0.00 | -0.99 |
| 147 | 7 | 85 | 170.15 | 5.68 | -7.46 | 0.02 | -1.56 | -0.06 |
| | | 9 | -169.97 | -5.68 | 7.46 | -0.02 | 3.71 | 1.69 |
| | 8 | 85 | -299.32 | -133.62 | 7.95 | -1.58 | 1.64 | -21.38 |
| | | 9 | 299.50 | 134.39 | -7.95 | 1.58 | -3.92 | -17.08 |
| | 9 | 85 | 566.32 | 140.82 | -19.44 | 1.59 | -3.92 | 22.65 |
| | | 9 | -566.14 | -140.82 | 19.44 | -1.59 | 9.49 | 17.77 |
| | 10 | 85 | 133.71 | 4.34 | -5.24 | 0.01 | -1.21 | -0.07 |
| | | 9 | -133.53 | -4.34 | 5.24 | -0.01 | 2.71 | 1.32 |
| | 11 | 85 | 408.14 | 10.41 | -122.26 | -0.93 | 14.52 | -0.84 |
| | | 9 | -407.96 | -10.41 | 122.26 | 0.93 | 20.57 | 3.83 |
| | 12 | 85 | -184.32 | -104.98 | 3.85 | -1.26 | 0.74 | -17.11 |
| | | 9 | 184.49 | 105.59 | -3.85 | 1.26 | -1.85 | -13.11 |
| | 13 | 85 | 508.20 | 114.58 | -18.05 | 1.28 | -3.70 | 18.12 |
| | | 9 | -508.02 | -114.58 | 18.05 | -1.28 | 8.88 | 14.77 |
| | 14 | 85 | 162.11 | 5.40 | -6.70 | 0.02 | -1.53 | -0.06 |
| | | 9 | -161.93 | -5.40 | 6.69 | -0.02 | 3.45 | 1.61 |
| | 15 | 85 | 381.66 | 10.25 | -100.32 | -0.74 | 11.05 | -0.67 |

9 -381.48 -10.25 100.32 0.74 17.74 3.62

148 7 86 170.15 -5.68 -7.46 -0.02 -1.56 0.06
10 -169.97 5.68 7.46 0.02 3.71 -1.69



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MEMBER END FORCES STRUCTURE TYPE = SPACE
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ALL UNITS ARE -- KN METE (LOCAL )

MEMBER LOAD JT AXIAL SHEAR-Y SHEAR-Z TORSION MOM-Y MOM-Z

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8 86 566.32 -140.82 -19.44 -1.59 -3.92 -22.65
10 -566.14 140.82 19.44 1.59 9.49 -17.77
9 86 -299.32 133.62 7.95 1.58 1.64 21.38
10 299.50 -134.39 -7.95 -1.58 -3.92 17.08
10 86 133.71 -4.34 -5.24 -0.01 -1.21 0.07
10 -133.53 4.34 5.24 0.01 2.71 -1.32
11 86 408.14 -10.41 -122.26 0.93 14.52 0.84
10 -407.96 10.41 122.26 -0.93 20.57 -3.83
12 86 508.20 -114.58 -18.05 -1.28 -3.70 -18.12
10 -508.02 114.58 18.05 1.28 8.88 -14.77
13 86 -184.32 104.98 3.85 1.26 0.74 17.11
10 184.49 -105.59 -3.85 -1.26 -1.85 13.11
14 86 162.11 -5.40 -6.70 -0.02 -1.53 0.06
10 -161.93 5.40 6.69 0.02 3.45 -1.61
15 86 381.66 -10.25 -100.32 0.74 11.05 0.67
10 -381.48 10.25 100.32 -0.74 17.74 -3.62

149 7 87 64.80 1.76 0.08 -0.01 0.02 -0.13
11 -64.62 -1.76 -0.08 0.01 -0.05 0.63
8 87 -351.05 -146.84 -6.85 0.81 -1.22 -19.44
11 351.23 147.61 6.85 -0.81 3.18 -22.82
9 87 468.05 148.60 7.70 -0.83 1.28 20.61
11 -467.87 -148.60 -7.70 0.83 -3.49 22.04
10 87 61.21 1.67 0.99 -0.00 -0.03 -0.12
11 -61.03 -1.67 -0.99 0.00 -0.25 0.60
11 87 -215.61 -4.46 -117.31 -0.97 14.55 0.67
11 215.79 4.46 117.94 0.97 19.21 -1.95
12 87 -264.98 -117.05 -5.69 0.65 -0.97 -15.58
11 265.16 117.66 5.69 -0.65 2.61 -18.10
13 87 390.30 119.30 5.95 -0.66 1.02 16.46

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 11 | -390.12 | -119.30 | -5.95 | 0.66 | -2.73 | 17.78 |
| 14 | 87 | 64.83 | 1.76 | 0.58 | -0.00 | -0.03 | -0.13 |
| | 11 | -64.65 | -1.76 | -0.58 | 0.00 | -0.14 | 0.63 |
| 15 | 87 | -156.63 | -3.14 | -94.06 | -0.78 | 11.64 | 0.50 |
| | 11 | 156.81 | 3.14 | 94.56 | 0.78 | 15.43 | -1.40 |
| 150 | 7 | 88 | 64.80 | -1.76 | 0.08 | 0.01 | 0.02 | 0.13 |
| | 12 | -64.62 | 1.76 | -0.08 | -0.01 | -0.05 | -0.63 |
| 8 | 88 | 468.05 | -148.60 | 7.70 | 0.83 | 1.28 | -20.61 |
| | 12 | -467.87 | 148.60 | -7.70 | -0.83 | -3.49 | -22.04 |
| 9 | 88 | -351.05 | 146.84 | -6.85 | -0.81 | -1.22 | 19.44 |
| | 12 | 351.23 | -147.61 | 6.85 | 0.81 | 3.18 | 22.82 |
| 10 | 88 | 61.21 | -1.67 | 0.99 | 0.00 | -0.03 | 0.12 |
| | 12 | -61.03 | 1.67 | -0.99 | -0.00 | -0.25 | -0.60 |
| 11 | 88 | -215.61 | 4.46 | -117.31 | 0.97 | 14.55 | -0.67 |
| | 12 | 215.79 | -4.46 | 117.94 | -0.97 | 19.21 | 1.95 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 12 | 88 | 390.30 | -119.30 | 5.95 | 0.66 | 1.02 | -16.46 |
| | 12 | -390.12 | 119.30 | -5.95 | -0.66 | -2.73 | -17.78 |
| 13 | 88 | -264.98 | 117.05 | -5.69 | -0.65 | -0.97 | 15.58 |
| | 12 | 265.16 | -117.66 | 5.69 | 0.65 | 2.61 | 18.10 |
| 14 | 88 | 64.83 | -1.76 | 0.58 | 0.00 | -0.03 | 0.13 |
| | 12 | -64.65 | 1.76 | -0.58 | -0.00 | -0.14 | -0.63 |
| 15 | 88 | -156.63 | 3.14 | -94.06 | 0.78 | 11.64 | -0.50 |
| | 12 | 156.81 | -3.14 | 94.56 | -0.78 | 15.43 | 1.40 |
| 151 | 7 | 89 | -0.21 | 3.66 | 0.00 | 0.00 | -0.00 | 0.87 |
| | 91 | 0.21 | 3.66 | -0.00 | -0.00 | 0.00 | -0.87 |
| 8 | 89 | 4.85 | -98.95 | -0.08 | 0.49 | 0.09 | -110.27 |
| | 91 | -4.85 | 104.16 | 0.08 | -0.49 | 0.08 | -111.73 |
| 9 | 89 | 4.85 | 104.16 | 0.08 | -0.49 | -0.08 | 111.73 |
| | 91 | -4.85 | -98.95 | -0.08 | 0.49 | -0.09 | 110.27 |
| 10 | 89 | -0.14 | 2.61 | 0.00 | 0.00 | -0.00 | 0.63 |
| | 91 | 0.14 | 2.61 | -0.00 | -0.00 | 0.00 | -0.63 |
| 11 | 89 | 0.04 | 2.61 | 0.00 | -0.00 | -0.02 | 0.79 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 91 | -0.04 | 2.61 | -0.00 | 0.00 | 0.02 | -0.79 |
| 12 | 89 | 3.79 | -77.80 | -0.07 | 0.39 | 0.08 | -87.89 |
| | 91 | -3.79 | 84.69 | 0.07 | -0.39 | 0.07 | -89.71 |
| 13 | 89 | 3.79 | 84.69 | 0.07 | -0.39 | -0.07 | 89.71 |
| | 91 | -3.79 | -77.80 | -0.07 | 0.39 | -0.08 | 87.89 |
| 14 | 89 | -0.20 | 3.45 | 0.00 | 0.00 | -0.00 | 0.82 |
| | 91 | 0.20 | 3.45 | -0.00 | -0.00 | 0.00 | -0.82 |
| 15 | 89 | -0.05 | 3.45 | 0.00 | -0.00 | -0.02 | 0.96 |
| | 91 | 0.05 | 3.45 | -0.00 | 0.00 | 0.02 | -0.96 |
| | | | | | | | |
| 152 | 7 90 | -0.00 | 0.45 | 0.00 | -0.00 | 0.00 | 0.13 |
| | 92 | 0.00 | 0.45 | -0.00 | 0.00 | -0.00 | -0.13 |
| 8 | 90 | 5.03 | -107.79 | -0.15 | 0.12 | 0.17 | -118.06 |
| | 92 | -5.03 | 108.68 | 0.15 | -0.12 | 0.17 | -118.54 |
| 9 | 90 | 5.03 | 108.68 | 0.15 | -0.12 | -0.17 | 118.54 |
| | 92 | -5.03 | -107.79 | -0.15 | 0.12 | -0.17 | 118.06 |
| 10 | 90 | 0.00 | 0.45 | 0.00 | 0.00 | 0.00 | 0.13 |
| | 92 | -0.00 | 0.45 | -0.00 | -0.00 | -0.00 | -0.13 |
| 11 | 90 | -0.13 | 0.45 | 0.00 | -0.00 | 0.00 | -0.04 |
| | 92 | 0.13 | 0.45 | -0.00 | 0.00 | -0.00 | 0.04 |
| 12 | 90 | 4.02 | -86.14 | -0.12 | 0.09 | 0.13 | -94.42 |
| | 92 | -4.02 | 87.04 | 0.12 | -0.09 | 0.13 | -94.86 |
| 13 | 90 | 4.02 | 87.04 | 0.12 | -0.09 | -0.13 | 94.86 |
| | 92 | -4.02 | -86.14 | -0.12 | 0.09 | -0.13 | 94.42 |
| 14 | 90 | 0.00 | 0.45 | 0.00 | -0.00 | 0.00 | 0.14 |
| | 92 | -0.00 | 0.45 | -0.00 | 0.00 | -0.00 | -0.14 |
| 15 | 90 | -0.11 | 0.45 | 0.00 | -0.00 | 0.00 | -0.00 |
| | 92 | 0.11 | 0.45 | -0.00 | 0.00 | -0.00 | 0.00 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 153 | 7 | 91 | -6.84 | 11.46 | -0.33 | 0.26 | 0.05 | 2.14 |
| | | 10 | 6.84 | -11.09 | 0.33 | -0.26 | 0.05 | 1.09 |
| 8 | | 91 | -196.57 | 61.77 | -1.30 | 0.98 | -0.10 | 65.48 |
| | | 10 | 196.57 | -61.48 | 1.30 | -0.98 | 0.47 | -47.80 |
| 9 | | 91 | 193.26 | -40.33 | 0.78 | -0.59 | 0.18 | -62.27 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 10 | -193.26 | 40.62 | -0.78 | 0.59 | -0.40 | 50.65 |
| 10 | 91 | -5.18 | 9.06 | -0.22 | 0.19 | 0.03 | 1.65 |
| | 10 | 5.18 | -8.77 | 0.22 | -0.19 | 0.03 | 0.90 |
| 11 | 91 | -12.01 | 28.78 | -10.11 | 1.11 | 1.57 | 4.43 |
| | 10 | 12.01 | -28.49 | 10.11 | -1.11 | 1.33 | 3.78 |
| 12 | 91 | -159.59 | 53.10 | -1.15 | 0.87 | -0.06 | 53.10 |
| | 10 | 159.59 | -52.75 | 1.15 | -0.87 | 0.39 | -37.92 |
| 13 | 91 | 152.27 | -28.58 | 0.51 | -0.38 | 0.16 | -49.11 |
| | 10 | -152.27 | 28.94 | -0.51 | 0.38 | -0.31 | 40.84 |
| 14 | 91 | -6.49 | 10.93 | -0.29 | 0.24 | 0.04 | 2.03 |
| | 10 | 6.49 | -10.57 | 0.29 | -0.24 | 0.04 | 1.04 |
| 15 | 91 | -11.95 | 26.71 | -8.19 | 0.98 | 1.27 | 4.26 |
| | 10 | 11.95 | -26.35 | 8.19 | -0.98 | 1.08 | 3.34 |
| | | | | | | | |
| 154 | 7 | 92 | -1.92 | 4.52 | 0.01 | -0.00 | 0.00 | 0.71 |
| | 12 | 1.92 | -4.40 | -0.01 | 0.00 | -0.00 | 0.57 |
| 8 | 92 | -203.65 | 50.48 | 0.79 | -0.22 | -0.11 | 68.47 |
| | 12 | 203.65 | -50.37 | -0.79 | 0.22 | -0.12 | -54.00 |
| 9 | 92 | 207.23 | -38.99 | -0.73 | 0.20 | 0.10 | -67.27 |
| | 12 | -207.23 | 39.11 | 0.73 | -0.20 | 0.11 | 56.06 |
| 10 | 92 | -1.84 | 4.26 | 0.08 | -0.02 | -0.01 | 0.67 |
| | 12 | 1.84 | -4.14 | -0.08 | 0.02 | -0.01 | 0.53 |
| 11 | 92 | 5.10 | -15.62 | -9.77 | 1.02 | 1.54 | -2.14 |
| | 12 | -5.10 | 15.74 | 9.77 | -1.02 | 1.27 | -2.36 |
| 12 | 92 | -163.37 | 41.50 | 0.62 | -0.17 | -0.08 | 54.95 |
| | 12 | 163.37 | -41.38 | -0.62 | 0.17 | -0.09 | -43.06 |
| 13 | 92 | 165.33 | -30.08 | -0.60 | 0.16 | 0.08 | -53.64 |
| | 12 | -165.33 | 30.20 | 0.60 | -0.16 | 0.09 | 44.99 |
| 14 | 92 | -1.93 | 4.52 | 0.05 | -0.01 | -0.01 | 0.71 |
| | 12 | 1.93 | -4.40 | -0.05 | 0.01 | -0.01 | 0.57 |
| 15 | 92 | 3.63 | -11.38 | -7.83 | 0.82 | 1.23 | -1.54 |
| | 12 | -3.63 | 11.50 | 7.83 | -0.82 | 1.01 | -1.74 |
| | | | | | | | |
| 155 | 7 | 93 | 0.31 | -0.69 | 0.00 | -0.05 | -0.00 | -1.18 |
| | 95 | -0.31 | 1.83 | -0.00 | 0.05 | -0.00 | -2.33 |
| 8 | 93 | -0.40 | 1.07 | -0.10 | 0.27 | 0.14 | 0.48 |
| | 95 | 0.40 | 0.07 | 0.10 | -0.27 | 0.13 | 0.91 |
| 9 | 93 | 0.85 | -1.76 | 0.09 | -0.33 | -0.14 | -2.08 |
| | 95 | -0.85 | 2.90 | -0.09 | 0.33 | -0.12 | -4.41 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 10 | 93 | | 0.24 | -0.02 | 0.00 | -0.03 | -0.00 | -0.34 |
| | | 95 | -0.24 | 1.16 | -0.00 | 0.03 | -0.00 | -1.29 |
| 11 | 93 | | 4.35 | -71.75 | 0.02 | -0.04 | -0.02 | -100.19 |
| | | 95 | -4.35 | 72.89 | -0.02 | 0.04 | -0.04 | -101.29 |
| 12 | 93 | | -0.20 | 0.51 | -0.08 | 0.19 | 0.11 | -0.08 |
| | | 95 | 0.20 | 0.63 | 0.08 | -0.19 | 0.10 | -0.09 |
| 13 | 93 | | 0.79 | -1.75 | 0.07 | -0.28 | -0.11 | -2.13 |
| | | 95 | -0.79 | 2.89 | -0.07 | 0.28 | -0.10 | -4.34 |
| 14 | 93 | | 0.31 | -0.36 | 0.00 | -0.04 | -0.00 | -0.74 |
| | | 95 | -0.31 | 1.50 | -0.00 | 0.04 | -0.00 | -1.85 |
| 15 | 93 | | 3.59 | -57.75 | 0.02 | -0.05 | -0.02 | -80.62 |
| | | 95 | -3.59 | 58.89 | -0.02 | 0.05 | -0.03 | -81.85 |
| 156 | 7 | 94 | 0.31 | -0.69 | -0.00 | 0.05 | 0.00 | -1.18 |
| | | 96 | -0.31 | 1.83 | 0.00 | -0.05 | 0.00 | -2.33 |
| 8 | 94 | | 0.85 | -1.76 | -0.09 | 0.33 | 0.14 | -2.08 |
| | | 96 | -0.85 | 2.90 | 0.09 | -0.33 | 0.12 | -4.41 |
| 9 | 94 | | -0.40 | 1.07 | 0.10 | -0.27 | -0.14 | 0.48 |
| | | 96 | 0.40 | 0.07 | -0.10 | 0.27 | -0.13 | 0.91 |
| 10 | 94 | | 0.24 | -0.02 | -0.00 | 0.03 | 0.00 | -0.34 |
| | | 96 | -0.24 | 1.16 | 0.00 | -0.03 | 0.00 | -1.29 |
| 11 | 94 | | 4.35 | -71.75 | -0.02 | 0.04 | 0.02 | -100.19 |
| | | 96 | -4.35 | 72.89 | 0.02 | -0.04 | 0.04 | -101.29 |
| 12 | 94 | | 0.79 | -1.75 | -0.07 | 0.28 | 0.11 | -2.13 |
| | | 96 | -0.79 | 2.89 | 0.07 | -0.28 | 0.10 | -4.34 |
| 13 | 94 | | -0.20 | 0.51 | 0.08 | -0.19 | -0.11 | -0.08 |
| | | 96 | 0.20 | 0.63 | -0.08 | 0.19 | -0.10 | -0.09 |
| 14 | 94 | | 0.31 | -0.36 | -0.00 | 0.04 | 0.00 | -0.74 |
| | | 96 | -0.31 | 1.50 | 0.00 | -0.04 | 0.00 | -1.85 |
| 15 | 94 | | 3.59 | -57.75 | -0.02 | 0.05 | 0.02 | -80.62 |
| | | 96 | -3.59 | 58.89 | 0.02 | -0.05 | 0.03 | -81.85 |
| 157 | 7 | 95 | -7.27 | 10.12 | -0.43 | 0.09 | 0.07 | 3.05 |
| | | 9 | 7.27 | -10.00 | 0.43 | -0.09 | 0.06 | -0.16 |
| 8 | 95 | | 7.90 | -20.39 | 11.67 | -0.64 | -1.98 | -3.51 |
| | | 9 | -7.90 | 20.51 | -11.67 | 0.64 | -1.37 | -2.36 |
| 9 | 95 | | -19.20 | 36.46 | -12.37 | 0.63 | 2.07 | 8.19 |
| | | 9 | 19.20 | -36.34 | 12.37 | -0.63 | 1.48 | 2.25 |
| 10 | 95 | | -4.93 | 7.97 | -0.32 | 0.07 | 0.05 | 2.10 |
| | | 9 | 4.93 | -7.85 | 0.32 | -0.07 | 0.04 | 0.17 |
| 11 | 95 | | -166.94 | 47.88 | -1.11 | 0.28 | 0.05 | 58.76 |

MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| | | 9 | 166.94 | -47.76 | 1.11 | -0.28 | 0.27 | -45.03 |
| | 12 | 95 | 3.92 | -13.10 | 9.19 | -0.48 | -1.56 | -1.78 |
| | | 9 | -3.92 | 13.22 | -9.19 | 0.48 | -1.08 | -2.00 |
| | 13 | 95 | -17.76 | 32.38 | -10.05 | 0.53 | 1.68 | 7.58 |
| | | 9 | 17.76 | -32.26 | 10.05 | -0.53 | 1.20 | 1.69 |
| | 14 | 95 | -6.34 | 9.59 | -0.40 | 0.08 | 0.06 | 2.71 |
| | | 9 | 6.34 | -9.47 | 0.40 | -0.08 | 0.05 | 0.03 |
| | 15 | 95 | -135.95 | 41.51 | -1.04 | 0.25 | 0.07 | 48.03 |
| | | 9 | 135.95 | -41.39 | 1.04 | -0.25 | 0.23 | -36.14 |
| 158 | 7 | 96 | -7.27 | 10.12 | 0.43 | -0.09 | -0.07 | 3.05 |
| | | 10 | 7.27 | -10.00 | -0.43 | 0.09 | -0.06 | -0.16 |
| | 8 | 96 | -19.20 | 36.46 | 12.37 | -0.63 | -2.07 | 8.19 |
| | | 10 | 19.20 | -36.34 | -12.37 | 0.63 | -1.48 | 2.25 |
| | 9 | 96 | 7.90 | -20.39 | -11.67 | 0.64 | 1.98 | -3.51 |
| | | 10 | -7.90 | 20.51 | 11.67 | -0.64 | 1.37 | -2.36 |
| | 10 | 96 | -4.93 | 7.97 | 0.32 | -0.07 | -0.05 | 2.10 |
| | | 10 | 4.93 | -7.85 | -0.32 | 0.07 | -0.04 | 0.17 |
| | 11 | 96 | -166.94 | 47.88 | 1.11 | -0.28 | -0.05 | 58.76 |
| | | 10 | 166.94 | -47.76 | -1.11 | 0.28 | -0.27 | -45.03 |
| | 12 | 96 | -17.76 | 32.38 | 10.05 | -0.53 | -1.68 | 7.58 |
| | | 10 | 17.76 | -32.26 | -10.05 | 0.53 | -1.20 | 1.69 |
| | 13 | 96 | 3.92 | -13.10 | -9.19 | 0.48 | 1.56 | -1.78 |
| | | 10 | -3.92 | 13.22 | 9.19 | -0.48 | 1.08 | -2.00 |
| | 14 | 96 | -6.34 | 9.59 | 0.40 | -0.08 | -0.06 | 2.71 |
| | | 10 | 6.34 | -9.47 | -0.40 | 0.08 | -0.05 | 0.03 |
| | 15 | 96 | -135.95 | 41.51 | 1.04 | -0.25 | -0.07 | 48.03 |
| | | 10 | 135.95 | -41.39 | -1.04 | 0.25 | -0.23 | -36.14 |
| 159 | 7 | 85 | 13.93 | 3.21 | 0.43 | -0.05 | -0.04 | 0.56 |
| | | 95 | -13.81 | -3.09 | -0.43 | 0.05 | -0.14 | 0.72 |
| | 8 | 85 | -20.12 | -8.39 | -11.77 | -0.67 | 2.83 | -0.83 |
| | | 95 | 20.23 | 8.51 | 11.77 | 0.67 | 1.94 | -2.59 |
| | 9 | 85 | 42.13 | 13.78 | 12.46 | 0.70 | -3.00 | 1.78 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 95 | -42.01 | -13.66 | -12.46 | -0.70 | -2.06 | 3.78 |
| 10 | 85 | 10.23 | 2.92 | 0.32 | -0.04 | -0.02 | 0.36 |
| | 95 | -10.11 | -2.80 | -0.32 | 0.04 | -0.11 | 0.80 |
| 11 | 85 | 206.63 | -35.61 | 1.13 | -0.21 | -0.23 | 28.06 |
| | 95 | -206.51 | 35.72 | -1.13 | 0.21 | -0.23 | -42.53 |
| 12 | 85 | -11.62 | -5.79 | -9.26 | -0.55 | 2.25 | -0.51 |
| | 95 | 11.73 | 5.90 | 9.26 | 0.55 | 1.51 | -1.87 |
| 13 | 85 | 38.18 | 11.94 | 10.12 | 0.54 | -2.41 | 1.59 |
| | 95 | -38.06 | -11.83 | -10.12 | -0.54 | -1.70 | 3.24 |
| 14 | 85 | 12.66 | 3.26 | 0.41 | -0.05 | -0.03 | 0.44 |
| | 95 | -12.54 | -3.14 | -0.41 | 0.05 | -0.13 | 0.85 |
| 15 | 85 | 169.78 | -27.56 | 1.06 | -0.19 | -0.20 | 22.61 |
| | 95 | -169.67 | 27.68 | -1.06 | 0.19 | -0.23 | -33.82 |
| 160 | 7 87 | 4.99 | 2.27 | 0.01 | -0.00 | 0.00 | 0.32 |
| | 90 | -4.87 | -2.15 | -0.01 | 0.00 | -0.00 | 0.57 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 8 | 87 | -246.65 | 39.30 | -0.88 | 0.27 | 0.18 | -34.86 |
| | 90 | 246.77 | -39.19 | 0.88 | -0.27 | 0.18 | 50.79 |
| 9 | 87 | 260.22 | -34.89 | 0.94 | -0.28 | -0.19 | 35.88 |
| | 90 | -260.11 | 35.01 | -0.94 | 0.28 | -0.20 | -50.07 |
| 10 | 87 | 4.75 | 2.15 | 0.08 | -0.00 | -0.01 | 0.31 |
| | 90 | -4.63 | -2.03 | -0.08 | 0.00 | -0.02 | 0.54 |
| 11 | 87 | -14.31 | -6.91 | -9.77 | -0.36 | 2.16 | -0.73 |
| | 90 | 14.43 | 7.03 | 9.77 | 0.36 | 1.81 | -2.10 |
| 12 | 87 | -196.13 | 31.99 | -0.72 | 0.22 | 0.15 | -27.82 |
| | 90 | 196.24 | -31.88 | 0.72 | -0.22 | 0.14 | 40.78 |
| 13 | 87 | 209.37 | -27.36 | 0.74 | -0.22 | -0.15 | 28.78 |
| | 90 | -209.25 | 27.48 | -0.74 | 0.22 | -0.15 | -39.91 |
| 14 | 87 | 4.99 | 2.27 | 0.05 | -0.00 | -0.01 | 0.32 |
| | 90 | -4.88 | -2.15 | -0.05 | 0.00 | -0.01 | 0.57 |
| 15 | 87 | -10.25 | -4.98 | -7.83 | -0.29 | 1.73 | -0.51 |
| | 90 | 10.37 | 5.09 | 7.83 | 0.29 | 1.45 | -1.54 |
| 161 | 7 87 | 2.97 | 3.16 | -0.06 | 0.01 | 0.00 | 0.11 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 93 | -2.86 | -3.04 | 0.06 | -0.01 | 0.02 | 1.15 |
| 8 | 87 | -22.32 | -11.54 | 12.32 | 0.62 | -2.88 | -1.03 |
| | 93 | 22.44 | 11.65 | -12.32 | -0.62 | -2.12 | -3.68 |
| 9 | 87 | 28.64 | 16.92 | -12.51 | -0.70 | 3.00 | 1.33 |
| | 93 | -28.52 | -16.81 | 12.51 | 0.70 | 2.07 | 5.52 |
| 10 | 87 | 4.15 | 2.57 | -0.08 | 0.01 | 0.00 | 0.28 |
| | 93 | -4.03 | -2.45 | 0.08 | -0.01 | 0.03 | 0.74 |
| 11 | 87 | -188.82 | 41.27 | 0.75 | -0.16 | -0.20 | -27.10 |
| | 93 | 188.94 | -41.15 | -0.75 | 0.16 | -0.11 | 43.82 |
| 12 | 87 | -17.43 | -8.35 | 9.85 | 0.49 | -2.30 | -0.83 |
| | 93 | 17.55 | 8.46 | -9.85 | -0.49 | -1.70 | -2.58 |
| 13 | 87 | 23.34 | 14.42 | -10.02 | -0.56 | 2.40 | 1.06 |
| | 93 | -23.22 | -14.30 | 10.02 | 0.56 | 1.66 | 4.77 |
| 14 | 87 | 3.74 | 2.94 | -0.07 | 0.01 | 0.00 | 0.22 |
| | 93 | -3.63 | -2.82 | 0.07 | -0.01 | 0.02 | 0.95 |
| 15 | 87 | -150.64 | 33.90 | 0.59 | -0.13 | -0.16 | -21.68 |
| | 93 | 150.75 | -33.78 | -0.59 | 0.13 | -0.08 | 35.42 |
| 162 | 7 | 85 | 15.49 | 6.12 | -0.33 | 0.15 | -0.08 | 1.20 |
| | 89 | -15.38 | -6.01 | 0.33 | -0.15 | 0.22 | 1.27 |
| 8 | 85 | -231.60 | 34.87 | 0.69 | -0.13 | -0.28 | -33.87 |
| | 89 | 231.71 | -34.75 | -0.69 | 0.13 | -0.01 | 47.99 |
| 9 | 85 | 259.87 | -24.97 | -1.22 | 0.35 | 0.16 | 36.10 |
| | 89 | -259.76 | 25.09 | 1.22 | -0.35 | 0.33 | -46.26 |
| 10 | 85 | 11.93 | 4.80 | -0.22 | 0.11 | -0.07 | 0.91 |
| | 89 | -11.81 | -4.68 | 0.22 | -0.11 | 0.16 | 1.02 |
| 11 | 85 | 30.84 | 13.79 | -10.11 | -0.34 | 2.19 | 1.94 |
| | 89 | -30.72 | -13.67 | 10.11 | 0.34 | 1.91 | 3.64 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 12 | 85 | -180.09 | 29.89 | 0.45 | -0.05 | -0.25 | -26.68 |
| | 89 | 180.21 | -29.77 | -0.45 | 0.05 | 0.07 | 38.79 |
| 13 | 85 | 213.08 | -17.98 | -1.08 | 0.33 | 0.10 | 29.29 |
| | 89 | -212.96 | 18.10 | 1.08 | -0.33 | 0.34 | -36.61 |
| 14 | 85 | 14.73 | 5.83 | -0.29 | 0.14 | -0.09 | 1.14 |
| | 89 | -14.61 | -5.72 | 0.29 | -0.14 | 0.20 | 1.21 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 15 | 85 | 29.85 | 13.03 | -8.19 | -0.22 | 1.72 | 1.96 |
| | | 89 | -29.73 | -12.91 | 8.19 | 0.22 | 1.60 | 3.30 |
| | | | | | | | | |
| 163 | 7 | 86 | 15.49 | 6.12 | 0.33 | -0.15 | 0.08 | 1.20 |
| | | 91 | -15.38 | -6.01 | -0.33 | 0.15 | -0.22 | 1.27 |
| | 8 | 86 | 259.87 | -24.97 | 1.22 | -0.35 | -0.16 | 36.10 |
| | | 91 | -259.76 | 25.09 | -1.22 | 0.35 | -0.33 | -46.26 |
| | 9 | 86 | -231.60 | 34.87 | -0.69 | 0.13 | 0.28 | -33.87 |
| | | 91 | 231.71 | -34.75 | 0.69 | -0.13 | 0.01 | 47.99 |
| | 10 | 86 | 11.93 | 4.80 | 0.22 | -0.11 | 0.07 | 0.91 |
| | | 91 | -11.81 | -4.68 | -0.22 | 0.11 | -0.16 | 1.02 |
| | 11 | 86 | 30.84 | 13.79 | 10.11 | 0.34 | -2.19 | 1.94 |
| | | 91 | -30.72 | -13.67 | -10.11 | -0.34 | -1.91 | 3.64 |
| | 12 | 86 | 213.08 | -17.98 | 1.08 | -0.33 | -0.10 | 29.29 |
| | | 91 | -212.96 | 18.10 | -1.08 | 0.33 | -0.34 | -36.61 |
| | 13 | 86 | -180.09 | 29.89 | -0.45 | 0.05 | 0.25 | -26.68 |
| | | 91 | 180.21 | -29.77 | 0.45 | -0.05 | -0.07 | 38.79 |
| | 14 | 86 | 14.73 | 5.83 | 0.29 | -0.14 | 0.09 | 1.14 |
| | | 91 | -14.61 | -5.72 | -0.29 | 0.14 | -0.20 | 1.21 |
| | 15 | 86 | 29.85 | 13.03 | 8.19 | 0.22 | -1.72 | 1.96 |
| | | 91 | -29.73 | -12.91 | -8.19 | -0.22 | -1.60 | 3.30 |
| | | | | | | | | |
| 164 | 7 | 86 | 13.93 | 3.21 | -0.43 | 0.05 | 0.04 | 0.56 |
| | | 96 | -13.81 | -3.09 | 0.43 | -0.05 | 0.14 | 0.72 |
| | 8 | 86 | 42.13 | 13.78 | -12.46 | -0.70 | 3.00 | 1.78 |
| | | 96 | -42.01 | -13.66 | 12.46 | 0.70 | 2.06 | 3.78 |
| | 9 | 86 | -20.12 | -8.39 | 11.77 | 0.67 | -2.83 | -0.83 |
| | | 96 | 20.23 | 8.51 | -11.77 | -0.67 | -1.94 | -2.59 |
| | 10 | 86 | 10.23 | 2.92 | -0.32 | 0.04 | 0.02 | 0.36 |
| | | 96 | -10.11 | -2.80 | 0.32 | -0.04 | 0.11 | 0.80 |
| | 11 | 86 | 206.63 | -35.61 | -1.13 | 0.21 | 0.23 | 28.06 |
| | | 96 | -206.51 | 35.72 | 1.13 | -0.21 | 0.23 | -42.53 |
| | 12 | 86 | 38.18 | 11.94 | -10.12 | -0.54 | 2.41 | 1.59 |
| | | 96 | -38.06 | -11.83 | 10.12 | 0.54 | 1.70 | 3.24 |
| | 13 | 86 | -11.62 | -5.79 | 9.26 | 0.55 | -2.25 | -0.51 |
| | | 96 | 11.73 | 5.90 | -9.26 | -0.55 | -1.51 | -1.87 |
| | 14 | 86 | 12.66 | 3.26 | -0.41 | 0.05 | 0.03 | 0.44 |
| | | 96 | -12.54 | -3.14 | 0.41 | -0.05 | 0.13 | 0.85 |
| | 15 | 86 | 169.78 | -27.56 | -1.06 | 0.19 | 0.20 | 22.61 |
| | | 96 | -169.67 | 27.68 | 1.06 | -0.19 | 0.23 | -33.82 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 165 | 7 | 88 | 2.97 | 3.16 | 0.06 | -0.01 | -0.00 | 0.11 |
| | | 94 | -2.86 | -3.04 | -0.06 | 0.01 | -0.02 | 1.15 |
| | 8 | 88 | 28.64 | 16.92 | 12.51 | 0.70 | -3.00 | 1.33 |
| | | 94 | -28.52 | -16.81 | -12.51 | -0.70 | -2.07 | 5.52 |
| | 9 | 88 | -22.32 | -11.54 | -12.32 | -0.62 | 2.88 | -1.03 |
| | | 94 | 22.44 | 11.65 | 12.32 | 0.62 | 2.12 | -3.68 |
| | 10 | 88 | 4.15 | 2.57 | 0.08 | -0.01 | -0.00 | 0.28 |
| | | 94 | -4.03 | -2.45 | -0.08 | 0.01 | -0.03 | 0.74 |
| | 11 | 88 | -188.82 | 41.27 | -0.75 | 0.16 | 0.20 | -27.10 |
| | | 94 | 188.94 | -41.15 | 0.75 | -0.16 | 0.11 | 43.82 |
| | 12 | 88 | 23.34 | 14.42 | 10.02 | 0.56 | -2.40 | 1.06 |
| | | 94 | -23.22 | -14.30 | -10.02 | -0.56 | -1.66 | 4.77 |
| | 13 | 88 | -17.43 | -8.35 | -9.85 | -0.49 | 2.30 | -0.83 |
| | | 94 | 17.55 | 8.46 | 9.85 | 0.49 | 1.70 | -2.58 |
| | 14 | 88 | 3.74 | 2.94 | 0.07 | -0.01 | -0.00 | 0.22 |
| | | 94 | -3.63 | -2.82 | -0.07 | 0.01 | -0.02 | 0.95 |
| | 15 | 88 | -150.64 | 33.90 | -0.59 | 0.13 | 0.16 | -21.68 |
| | | 94 | 150.75 | -33.78 | 0.59 | -0.13 | 0.08 | 35.42 |
| 166 | 7 | 88 | 4.99 | 2.27 | -0.01 | 0.00 | -0.00 | 0.32 |
| | | 92 | -4.87 | -2.15 | 0.01 | -0.00 | 0.00 | 0.57 |
| | 8 | 88 | 260.22 | -34.89 | -0.94 | 0.28 | 0.19 | 35.88 |
| | | 92 | -260.11 | 35.01 | 0.94 | -0.28 | 0.20 | -50.07 |
| | 9 | 88 | -246.65 | 39.30 | 0.88 | -0.27 | -0.18 | -34.86 |
| | | 92 | 246.77 | -39.19 | -0.88 | 0.27 | -0.18 | 50.79 |
| | 10 | 88 | 4.75 | 2.15 | -0.08 | 0.00 | 0.01 | 0.31 |
| | | 92 | -4.63 | -2.03 | 0.08 | -0.00 | 0.02 | 0.54 |
| | 11 | 88 | -14.31 | -6.91 | 9.77 | 0.36 | -2.16 | -0.73 |
| | | 92 | 14.43 | 7.03 | -9.77 | -0.36 | -1.81 | -2.10 |
| | 12 | 88 | 209.37 | -27.36 | -0.74 | 0.22 | 0.15 | 28.78 |
| | | 92 | -209.25 | 27.48 | 0.74 | -0.22 | 0.15 | -39.91 |
| | 13 | 88 | -196.13 | 31.99 | 0.72 | -0.22 | -0.15 | -27.82 |
| | | 92 | 196.24 | -31.88 | -0.72 | 0.22 | -0.14 | 40.78 |
| | 14 | 88 | 4.99 | 2.27 | -0.05 | 0.00 | 0.01 | 0.32 |
| | | 92 | -4.88 | -2.15 | 0.05 | -0.00 | 0.01 | 0.57 |
| | 15 | 88 | -10.25 | -4.98 | 7.83 | 0.29 | -1.73 | -0.51 |
| | | 92 | 10.37 | 5.09 | -7.83 | -0.29 | -1.45 | -1.54 |
| 167 | 7 | 97 | -6.25 | 10.78 | -0.36 | 0.25 | 0.05 | 2.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 14 | 6.25 | -10.41 | 0.36 | -0.25 | 0.05 | 1.03 |
| 8 | 97 | -196.97 | 59.56 | -1.35 | 0.93 | -0.11 | 66.04 |
| | 14 | 196.97 | -59.27 | 1.35 | -0.93 | 0.49 | -49.00 |
| 9 | 97 | 194.66 | -39.23 | 0.78 | -0.54 | 0.20 | -63.07 |
| | 14 | -194.66 | 39.52 | -0.78 | 0.54 | -0.42 | 51.76 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 10 | 97 | | -4.74 | 8.52 | -0.23 | 0.19 | 0.03 | 1.54 |
| | | 14 | 4.74 | -8.23 | 0.23 | -0.19 | 0.03 | 0.85 |
| 11 | 97 | | -9.72 | 22.93 | -11.53 | 0.71 | 1.79 | 3.56 |
| | | 14 | 9.72 | -22.64 | 11.53 | -0.71 | 1.52 | 2.97 |
| 12 | 97 | | -159.72 | 51.12 | -1.20 | 0.83 | -0.07 | 53.50 |
| | | 14 | 159.72 | -50.76 | 1.20 | -0.83 | 0.41 | -38.89 |
| 13 | 97 | | 153.59 | -27.91 | 0.51 | -0.35 | 0.18 | -49.79 |
| | | 14 | -153.59 | 28.27 | -0.51 | 0.35 | -0.32 | 41.71 |
| 14 | 97 | | -5.93 | 10.29 | -0.31 | 0.24 | 0.04 | 1.91 |
| | | 14 | 5.93 | -9.94 | 0.31 | -0.24 | 0.04 | 0.99 |
| 15 | 97 | | -9.92 | 21.81 | -9.35 | 0.66 | 1.45 | 3.52 |
| | | 14 | 9.92 | -21.46 | 9.35 | -0.66 | 1.23 | 2.68 |
| 169 | 7 | 98 | 156.92 | 5.28 | -7.66 | 0.01 | -1.44 | 0.12 |
| | | 13 | -156.74 | -5.28 | 7.66 | -0.01 | 3.64 | 1.40 |
| 8 | 98 | | -203.91 | -138.81 | 5.72 | -1.91 | 1.58 | -27.06 |
| | | 13 | 204.09 | 139.58 | -5.72 | 1.91 | -3.23 | -12.89 |
| 9 | 98 | | 450.14 | 145.39 | -17.46 | 1.92 | -3.68 | 28.58 |
| | | 13 | -449.96 | -145.39 | 17.46 | -1.92 | 8.69 | 13.15 |
| 10 | 98 | | 123.66 | 4.05 | -5.32 | 0.01 | -1.15 | 0.05 |
| | | 13 | -123.48 | -4.05 | 5.32 | -0.01 | 2.68 | 1.11 |
| 11 | 98 | | 324.49 | 8.36 | -130.63 | -1.10 | 21.60 | -0.55 |
| | | 13 | -324.31 | -8.36 | 130.63 | 1.10 | 15.89 | 2.95 |
| 12 | 98 | | -112.34 | -109.26 | 1.99 | -1.53 | 0.74 | -21.58 |
| | | 13 | 112.52 | 109.87 | -1.99 | 1.53 | -1.31 | -9.86 |
| 13 | 98 | | 410.90 | 118.10 | -16.56 | 1.54 | -3.46 | 22.93 |
| | | 13 | -410.72 | -118.10 | 16.56 | -1.54 | 8.22 | 10.97 |
| 14 | 98 | | 149.72 | 5.02 | -6.85 | 0.01 | -1.44 | 0.11 |
| | | 13 | -149.54 | -5.02 | 6.85 | -0.01 | 3.41 | 1.34 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 15 | 98 | 310.38 | 8.48 | -107.10 | -0.88 | 16.76 | -0.38 |
| | | 13 | -310.20 | -8.48 | 107.10 | 0.88 | 13.98 | 2.81 |
| | 170 | 7 | 99 | -7.52 | 9.15 | -0.42 | 0.07 | 0.06 | 3.06 |
| | | | 13 | 7.52 | -9.03 | 0.42 | -0.07 | 0.06 | -0.45 |
| | | 8 | 99 | 5.57 | -13.18 | 12.67 | -0.26 | -2.13 | -2.47 |
| | | | 13 | -5.57 | 13.30 | -12.67 | 0.26 | -1.51 | -1.33 |
| | | 9 | 99 | -17.18 | 27.74 | -13.35 | 0.23 | 2.22 | 7.15 |
| | | | 13 | 17.18 | -27.62 | 13.35 | -0.23 | 1.61 | 0.80 |
| | | 10 | 99 | -5.05 | 7.20 | -0.31 | 0.06 | 0.05 | 2.08 |
| | | | 13 | 5.05 | -7.08 | 0.31 | -0.06 | 0.04 | -0.03 |
| | | 11 | 99 | -172.61 | 49.80 | -1.11 | 0.22 | 0.01 | 61.11 |
| | | | 13 | 172.61 | -49.69 | 1.11 | -0.22 | 0.31 | -46.83 |
| | | 12 | 99 | 1.94 | -7.66 | 9.99 | -0.19 | -1.68 | -0.94 |
| | | | 13 | -1.94 | 7.78 | -9.99 | 0.19 | -1.19 | -1.27 |
| | | 13 | 99 | -16.26 | 25.08 | -10.83 | 0.21 | 1.80 | 6.75 |
| | | | 13 | 16.26 | -24.97 | 10.83 | -0.21 | 1.31 | 0.43 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 14 | 99 | -6.56 | 8.65 | -0.40 | 0.06 | 0.06 | 2.70 |
| | | 13 | 6.56 | -8.53 | 0.40 | -0.06 | 0.05 | -0.24 |
| | 15 | 99 | -140.60 | 42.73 | -1.03 | 0.19 | 0.03 | 49.92 |
| | | 13 | 140.60 | -42.61 | 1.03 | -0.19 | 0.26 | -37.68 |
| | 171 | 7 | 98 | 13.36 | 2.77 | 0.42 | -0.03 | -0.05 | 0.62 |
| | | | 99 | -13.25 | -2.65 | -0.42 | 0.03 | -0.12 | 0.48 |
| | | 8 | 98 | -13.07 | -5.17 | -12.72 | -1.05 | 3.32 | -0.35 |
| | | | 99 | 13.19 | 5.29 | 12.72 | 1.05 | 1.84 | -1.77 |
| | | 9 | 98 | 34.16 | 9.87 | 13.40 | 1.11 | -3.50 | 1.38 |
| | | | 99 | -34.04 | -9.75 | -13.40 | -1.11 | -1.93 | 2.60 |
| | | 10 | 98 | 9.72 | 2.57 | 0.31 | -0.03 | -0.04 | 0.37 |
| | | | 99 | -9.61 | -2.45 | -0.31 | 0.03 | -0.09 | 0.64 |
| | | 11 | 98 | 215.14 | -34.80 | 1.11 | -0.19 | -0.27 | 32.41 |
| | | | 99 | -215.02 | 34.92 | -1.11 | 0.19 | -0.18 | -46.56 |
| | | 12 | 98 | -6.15 | -3.36 | -10.03 | -0.85 | 2.64 | -0.10 |
| | | | 99 | 6.27 | 3.48 | 10.03 | 0.85 | 1.43 | -1.29 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 13 | 98 | 31.63 | 8.67 | 10.86 | 0.88 | -2.82 | 1.28 |
| | | 99 | -31.51 | -8.55 | -10.86 | -0.88 | -1.59 | 2.21 |
| | 14 | 98 | 12.08 | 2.83 | 0.40 | -0.03 | -0.05 | 0.48 |
| | | 99 | -11.97 | -2.71 | -0.40 | 0.03 | -0.11 | 0.64 |
| | 15 | 98 | 176.41 | -27.07 | 1.04 | -0.16 | -0.23 | 26.11 |
| | | 99 | -176.30 | 27.19 | -1.04 | 0.16 | -0.19 | -37.12 |
| | | | | | | | | |
| 172 | 7 | 100 | 63.11 | 1.71 | -0.37 | -0.01 | 0.33 | -0.11 |
| | | 15 | -62.93 | -1.71 | 0.37 | 0.01 | -0.22 | 0.60 |
| | 8 | 100 | -251.13 | -153.49 | -4.62 | 0.76 | -1.04 | -25.62 |
| | | 15 | 251.31 | 154.25 | 4.62 | -0.76 | 2.37 | -18.55 |
| | 9 | 100 | 363.77 | 155.10 | 4.76 | -0.78 | 1.54 | 26.84 |
| | | 15 | -363.60 | -155.10 | -4.76 | 0.78 | -2.91 | 17.68 |
| | 10 | 100 | 58.70 | 1.60 | 0.68 | -0.00 | 0.15 | -0.10 |
| | | 15 | -58.52 | -1.60 | -0.68 | 0.00 | -0.34 | 0.56 |
| | 11 | 100 | -144.53 | -2.76 | -125.92 | -1.13 | 21.75 | 0.52 |
| | | 15 | 144.71 | 2.76 | 126.55 | 1.13 | 14.48 | -1.31 |
| | 12 | 100 | -185.09 | -122.37 | -4.06 | 0.60 | -0.72 | -20.52 |
| | | 15 | 185.27 | 122.99 | 4.06 | -0.60 | 1.89 | -14.69 |
| | 13 | 100 | 306.83 | 124.50 | 3.45 | -0.63 | 1.34 | 21.44 |
| | | 15 | -306.66 | -124.50 | -3.45 | 0.63 | -2.33 | 14.29 |
| | 14 | 100 | 62.78 | 1.70 | 0.18 | -0.01 | 0.23 | -0.11 |
| | | 15 | -62.60 | -1.70 | -0.18 | 0.01 | -0.28 | 0.60 |
| | 15 | 100 | -99.81 | -1.79 | -101.10 | -0.91 | 17.51 | 0.38 |
| | | 15 | 99.99 | 1.79 | 101.60 | 0.91 | 11.58 | -0.90 |
| | | | | | | | | |
| 173 | 7 | 101 | 0.04 | 0.45 | 0.00 | -0.00 | 0.00 | 0.12 |
| | | 108 | -0.04 | 0.45 | -0.00 | 0.00 | -0.00 | -0.12 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| | 8 | 101 | 5.08 | -112.15 | -0.03 | 0.24 | 0.03 | -122.86 |
| | | 108 | -5.08 | 113.04 | 0.03 | -0.24 | 0.04 | -123.27 |
| | 9 | 101 | 5.08 | 113.04 | 0.03 | -0.24 | -0.04 | 123.27 |
| | | 108 | -5.08 | -112.15 | -0.03 | 0.24 | -0.03 | 122.86 |
| | 10 | 101 | 0.03 | 0.45 | 0.00 | -0.00 | 0.00 | 0.12 |
| | | 108 | -0.03 | 0.45 | -0.00 | 0.00 | -0.00 | -0.12 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 11 | 101 | -0.01 | 0.45 | 0.00 | -0.00 | 0.02 | 0.04 |
| | | 108 | 0.01 | 0.45 | -0.00 | 0.00 | -0.02 | -0.04 |
| | 12 | 101 | 4.07 | -89.63 | -0.02 | 0.19 | 0.03 | -98.26 |
| | | 108 | -4.07 | 90.52 | 0.02 | -0.19 | 0.03 | -98.64 |
| | 13 | 101 | 4.07 | 90.52 | 0.02 | -0.19 | -0.03 | 98.64 |
| | | 108 | -4.07 | -89.63 | -0.02 | 0.19 | -0.03 | 98.26 |
| | 14 | 101 | 0.04 | 0.45 | 0.00 | -0.00 | 0.00 | 0.12 |
| | | 108 | -0.04 | 0.45 | -0.00 | 0.00 | -0.00 | -0.12 |
| | 15 | 101 | -0.00 | 0.45 | 0.00 | -0.00 | 0.02 | 0.06 |
| | | 108 | 0.00 | 0.45 | -0.00 | 0.00 | -0.02 | -0.06 |
| 174 | 7 | 100 | 4.87 | 2.23 | -0.06 | -0.02 | 0.03 | 0.32 |
| | | 101 | -4.75 | -2.11 | 0.06 | 0.02 | -0.01 | 0.56 |
| | 8 | 100 | -251.10 | 38.90 | -0.78 | 0.23 | 0.10 | -38.44 |
| | | 101 | 251.22 | -38.78 | 0.78 | -0.23 | 0.22 | 54.20 |
| | 9 | 100 | 264.33 | -34.55 | 0.74 | -0.27 | -0.06 | 39.44 |
| | | 101 | -264.22 | 34.67 | -0.74 | 0.27 | -0.24 | -53.49 |
| | 10 | 100 | 4.58 | 2.08 | 0.03 | -0.01 | 0.01 | 0.30 |
| | | 101 | -4.46 | -1.96 | -0.03 | 0.01 | -0.02 | 0.52 |
| | 11 | 100 | -9.38 | -4.55 | -11.23 | -0.80 | 2.88 | -0.43 |
| | | 101 | 9.50 | 4.67 | 11.23 | 0.80 | 1.67 | -1.44 |
| | 12 | 100 | -199.69 | 31.67 | -0.66 | 0.18 | 0.09 | -30.67 |
| | | 101 | 199.81 | -31.56 | 0.66 | -0.18 | 0.18 | 43.51 |
| | 13 | 100 | 212.66 | -27.09 | 0.56 | -0.22 | -0.04 | 31.63 |
| | | 101 | -212.54 | 27.20 | -0.56 | 0.22 | -0.19 | -42.65 |
| | 14 | 100 | 4.85 | 2.22 | -0.01 | -0.02 | 0.02 | 0.32 |
| | | 101 | -4.73 | -2.10 | 0.01 | 0.02 | -0.01 | 0.56 |
| | 15 | 100 | -6.32 | -3.09 | -9.02 | -0.65 | 2.32 | -0.27 |
| | | 101 | 6.43 | 3.20 | 9.02 | 0.65 | 1.34 | -1.01 |
| 175 | 7 | 102 | -0.03 | -0.95 | 0.00 | -0.04 | -0.00 | -1.65 |
| | | 99 | 0.03 | 2.09 | -0.00 | 0.04 | -0.00 | -2.58 |
| | 8 | 102 | -0.02 | 1.02 | -0.05 | 0.29 | 0.06 | 0.56 |
| | | 99 | 0.02 | 0.12 | 0.05 | -0.29 | 0.08 | 0.70 |
| | 9 | 102 | -0.01 | -2.08 | 0.05 | -0.35 | -0.06 | -2.84 |
| | | 99 | 0.01 | 3.22 | -0.05 | 0.35 | -0.07 | -4.54 |
| | 10 | 102 | 0.01 | -0.18 | 0.00 | -0.03 | -0.00 | -0.66 |
| | | 99 | -0.01 | 1.32 | -0.00 | 0.03 | -0.00 | -1.44 |
| | 11 | 102 | 4.12 | -76.40 | 0.00 | -0.05 | 0.01 | -106.78 |
| | | 99 | -4.12 | 77.55 | -0.00 | 0.05 | -0.02 | -107.67 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 12 | | 102 | -0.03 | 0.38 | -0.04 | 0.22 | 0.05 | -0.19 |
| | | 99 | 0.03 | 0.76 | 0.04 | -0.22 | 0.06 | -0.35 |
| 13 | | 102 | -0.02 | -2.10 | 0.04 | -0.30 | -0.05 | -2.91 |
| | | 99 | 0.02 | 3.25 | -0.04 | 0.30 | -0.06 | -4.54 |
| 14 | | 102 | -0.01 | -0.59 | 0.00 | -0.04 | -0.00 | -1.16 |
| | | 99 | 0.01 | 1.73 | -0.00 | 0.04 | -0.00 | -2.06 |
| 15 | | 102 | 3.28 | -61.56 | 0.00 | -0.05 | 0.01 | -86.06 |
| | | 99 | -3.28 | 62.71 | -0.00 | 0.05 | -0.02 | -87.05 |
| 176 | 7 | 100 | 1.76 | 3.13 | -0.06 | 0.01 | 0.00 | -0.12 |
| | | 102 | -1.65 | -3.01 | 0.06 | -0.01 | 0.02 | 1.37 |
| 8 | | 100 | -15.33 | -8.18 | 13.61 | 0.97 | -3.57 | -0.61 |
| | | 102 | 15.45 | 8.30 | -13.61 | -0.97 | -1.96 | -2.74 |
| 9 | | 100 | 19.77 | 13.47 | -13.80 | -1.06 | 3.69 | 0.57 |
| | | 102 | -19.65 | -13.36 | 13.80 | 1.06 | 1.91 | 4.88 |
| 10 | | 100 | 3.25 | 2.52 | -0.07 | 0.01 | 0.00 | 0.13 |
| | | 102 | -3.13 | -2.41 | 0.07 | -0.01 | 0.03 | 0.87 |
| 11 | | 100 | -198.76 | 40.11 | 0.74 | -0.15 | -0.22 | -31.58 |
| | | 102 | 198.88 | -39.99 | -0.74 | 0.15 | -0.07 | 47.84 |
| 12 | | 100 | -12.24 | -5.66 | 10.88 | 0.78 | -2.85 | -0.58 |
| | | 102 | 12.36 | 5.78 | -10.88 | -0.78 | -1.56 | -1.74 |
| 13 | | 100 | 15.83 | 11.67 | -11.05 | -0.85 | 2.96 | 0.36 |
| | | 102 | -15.72 | -11.55 | 11.05 | 0.85 | 1.53 | 4.35 |
| 14 | | 100 | 2.62 | 2.91 | -0.07 | 0.01 | 0.00 | 0.01 |
| | | 102 | -2.50 | -2.79 | 0.07 | -0.01 | 0.02 | 1.14 |
| 15 | | 100 | -158.99 | 32.97 | 0.58 | -0.12 | -0.18 | -25.36 |
| | | 102 | 159.11 | -32.85 | -0.58 | 0.12 | -0.06 | 38.71 |
| 177 | 7 | 103 | 0.20 | 3.66 | 0.00 | 0.00 | -0.00 | 0.89 |
| | | 97 | -0.20 | 3.66 | -0.00 | -0.00 | 0.00 | -0.89 |
| 8 | | 103 | 5.15 | -102.23 | -0.04 | 0.47 | 0.05 | -113.86 |
| | | 97 | -5.15 | 107.45 | 0.04 | -0.47 | 0.04 | -115.31 |
| 9 | | 103 | 5.15 | 107.45 | 0.04 | -0.47 | -0.04 | 115.31 |
| | | 97 | -5.15 | -102.23 | -0.04 | 0.47 | -0.05 | 113.86 |
| 10 | | 103 | 0.15 | 2.61 | 0.00 | 0.00 | -0.00 | 0.64 |
| | | 97 | -0.15 | 2.61 | -0.00 | -0.00 | 0.00 | -0.64 |
| 11 | | 103 | 0.30 | 2.61 | 0.00 | -0.00 | -0.01 | 0.71 |
| | | 97 | -0.30 | 2.61 | -0.00 | 0.00 | 0.01 | -0.71 |
| 12 | | 103 | 4.20 | -80.42 | -0.03 | 0.38 | 0.04 | -90.76 |
| | | 97 | -4.20 | 87.32 | 0.03 | -0.38 | 0.03 | -92.58 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 13 | 103 | 4.20 | 87.32 | 0.03 | -0.38 | -0.03 | 92.58 |
| | 97 | -4.20 | -80.42 | -0.03 | 0.38 | -0.04 | 90.76 |
| 14 | 103 | 0.19 | 3.45 | 0.00 | 0.00 | -0.00 | 0.84 |
| | 97 | -0.19 | 3.45 | -0.00 | -0.00 | 0.00 | -0.84 |
| 15 | 103 | 0.31 | 3.45 | 0.00 | -0.00 | -0.01 | 0.90 |
| | 97 | -0.31 | 3.45 | -0.00 | 0.00 | 0.01 | -0.90 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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|---|---|---|---|---|---|---|---|---|
| 178 | 7 | 98 | 14.89 | 5.77 | -0.36 | 0.14 | -0.07 | 1.21 |
| | | 103 | -14.77 | -5.65 | 0.36 | -0.14 | 0.22 | 1.11 |
| | 8 | 98 | -233.91 | 34.09 | 0.74 | -0.15 | -0.35 | -36.98 |
| | | 103 | 234.03 | -33.97 | -0.74 | 0.15 | 0.05 | 50.79 |
| | 9 | 98 | 261.13 | -24.72 | -1.30 | 0.37 | 0.26 | 39.21 |
| | | 103 | -261.02 | 24.84 | 1.30 | -0.37 | 0.27 | -49.27 |
| | 10 | 98 | 11.45 | 4.53 | -0.23 | 0.11 | -0.06 | 0.91 |
| | | 103 | -11.33 | -4.41 | 0.23 | -0.11 | 0.16 | 0.91 |
| | 11 | 98 | 25.26 | 11.09 | -11.53 | -0.78 | 2.90 | 1.63 |
| | | 103 | -25.14 | -10.97 | 11.53 | 0.78 | 1.78 | 2.84 |
| | 12 | 98 | -182.13 | 29.15 | 0.47 | -0.07 | -0.31 | -29.17 |
| | | 103 | 182.25 | -29.03 | -0.47 | 0.07 | 0.12 | 40.97 |
| | 13 | 98 | 213.91 | -17.90 | -1.16 | 0.34 | 0.18 | 31.79 |
| | | 103 | -213.79 | 18.02 | 1.16 | -0.34 | 0.29 | -39.08 |
| | 14 | 98 | 14.16 | 5.50 | -0.31 | 0.14 | -0.08 | 1.14 |
| | | 103 | -14.04 | -5.38 | 0.31 | -0.14 | 0.20 | 1.07 |
| | 15 | 98 | 25.21 | 10.75 | -9.35 | -0.57 | 2.29 | 1.72 |
| | | 103 | -25.09 | -10.63 | 9.35 | 0.57 | 1.50 | 2.61 |
| 179 | 7 | 104 | 156.92 | -5.28 | -7.66 | -0.01 | -1.44 | -0.12 |
| | | 14 | -156.74 | 5.28 | 7.66 | 0.01 | 3.64 | -1.40 |
| | 8 | 104 | 450.14 | -145.39 | -17.46 | -1.92 | -3.68 | -28.58 |
| | | 14 | -449.96 | 145.39 | 17.46 | 1.92 | 8.69 | -13.15 |
| | 9 | 104 | -203.91 | 138.81 | 5.72 | 1.91 | 1.58 | 27.06 |
| | | 14 | 204.09 | -139.58 | -5.72 | -1.91 | -3.23 | 12.89 |
| | 10 | 104 | 123.66 | -4.05 | -5.32 | -0.01 | -1.15 | -0.05 |
| | | 14 | -123.48 | 4.05 | 5.32 | 0.01 | 2.68 | -1.11 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 11 | 104 | 324.49 | -8.36 | -130.63 | 1.10 | 21.60 | 0.55 |
| | | 14 | -324.31 | 8.36 | 130.63 | -1.10 | 15.89 | -2.95 |
| | 12 | 104 | 410.90 | -118.10 | -16.56 | -1.54 | -3.46 | -22.93 |
| | | 14 | -410.72 | 118.10 | 16.56 | 1.54 | 8.22 | -10.97 |
| | 13 | 104 | -112.34 | 109.26 | 1.99 | 1.53 | 0.74 | 21.58 |
| | | 14 | 112.52 | -109.87 | -1.99 | -1.53 | -1.31 | 9.86 |
| | 14 | 104 | 149.72 | -5.02 | -6.85 | -0.01 | -1.44 | -0.11 |
| | | 14 | -149.54 | 5.02 | 6.85 | 0.01 | 3.41 | -1.34 |
| | 15 | 104 | 310.38 | -8.48 | -107.10 | 0.88 | 16.76 | 0.38 |
| | | 14 | -310.20 | 8.48 | 107.10 | -0.88 | 13.98 | -2.81 |
| 180 | 7 | 104 | 14.89 | 5.77 | 0.36 | -0.14 | 0.07 | 1.21 |
| | | 97 | -14.77 | -5.65 | -0.36 | 0.14 | -0.22 | 1.11 |
| | 8 | 104 | 261.13 | -24.72 | 1.30 | -0.37 | -0.26 | 39.21 |
| | | 97 | -261.02 | 24.84 | -1.30 | 0.37 | -0.27 | -49.27 |
| | 9 | 104 | -233.91 | 34.09 | -0.74 | 0.15 | 0.35 | -36.98 |
| | | 97 | 234.03 | -33.97 | 0.74 | -0.15 | -0.05 | 50.79 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 10 | 104 | 11.45 | 4.53 | 0.23 | -0.11 | 0.06 | 0.91 |
| | 97 | -11.33 | -4.41 | -0.23 | 0.11 | -0.16 | 0.91 |
| 11 | 104 | 25.26 | 11.09 | 11.53 | 0.78 | -2.90 | 1.63 |
| | 97 | -25.14 | -10.97 | -11.53 | -0.78 | -1.78 | 2.84 |
| 12 | 104 | 213.91 | -17.90 | 1.16 | -0.34 | -0.18 | 31.79 |
| | 97 | -213.79 | 18.02 | -1.16 | 0.34 | -0.29 | -39.08 |
| 13 | 104 | -182.13 | 29.15 | -0.47 | 0.07 | 0.31 | -29.17 |
| | 97 | 182.25 | -29.03 | 0.47 | -0.07 | -0.12 | 40.97 |
| 14 | 104 | 14.16 | 5.50 | 0.31 | -0.14 | 0.08 | 1.14 |
| | 97 | -14.04 | -5.38 | -0.31 | 0.14 | -0.20 | 1.07 |
| 15 | 104 | 25.21 | 10.75 | 9.35 | 0.57 | -2.29 | 1.72 |
| | 97 | -25.09 | -10.63 | -9.35 | -0.57 | -1.50 | 2.61 |
| 181 | 7 | 105 | -7.52 | 9.15 | 0.42 | -0.07 | -0.06 | 3.06 |
| | | 14 | 7.52 | -9.03 | -0.42 | 0.07 | -0.06 | -0.45 |
| | 8 | 105 | -17.18 | 27.74 | 13.35 | -0.23 | -2.22 | 7.15 |
| | | 14 | 17.18 | -27.62 | -13.35 | 0.23 | -1.61 | 0.80 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 9 | 105 | 5.57 | -13.18 | -12.67 | 0.26 | 2.13 | -2.47 |
| | 14 | -5.57 | 13.30 | 12.67 | -0.26 | 1.51 | -1.33 |
| 10 | 105 | -5.05 | 7.20 | 0.31 | -0.06 | -0.05 | 2.08 |
| | 14 | 5.05 | -7.08 | -0.31 | 0.06 | -0.04 | -0.03 |
| 11 | 105 | -172.61 | 49.80 | 1.11 | -0.22 | -0.01 | 61.11 |
| | 14 | 172.61 | -49.69 | -1.11 | 0.22 | -0.31 | -46.83 |
| 12 | 105 | -16.26 | 25.08 | 10.83 | -0.21 | -1.80 | 6.75 |
| | 14 | 16.26 | -24.97 | -10.83 | 0.21 | -1.31 | 0.43 |
| 13 | 105 | 1.94 | -7.66 | -9.99 | 0.19 | 1.68 | -0.94 |
| | 14 | -1.94 | 7.78 | 9.99 | -0.19 | 1.19 | -1.27 |
| 14 | 105 | -6.56 | 8.65 | 0.40 | -0.06 | -0.06 | 2.70 |
| | 14 | 6.56 | -8.53 | -0.40 | 0.06 | -0.05 | -0.24 |
| 15 | 105 | -140.60 | 42.73 | 1.03 | -0.19 | -0.03 | 49.92 |
| | 14 | 140.60 | -42.61 | -1.03 | 0.19 | -0.26 | -37.68 |
| | | | | | | | |
| 182 | 7 | 104 | 13.36 | 2.77 | -0.42 | 0.03 | 0.05 | 0.62 |
| | | 105 | -13.25 | -2.65 | 0.42 | -0.03 | 0.12 | 0.48 |
| | 8 | 104 | 34.16 | 9.87 | -13.40 | -1.11 | 3.50 | 1.38 |
| | | 105 | -34.04 | -9.75 | 13.40 | 1.11 | 1.93 | 2.60 |
| | 9 | 104 | -13.07 | -5.17 | 12.72 | 1.05 | -3.32 | -0.35 |
| | | 105 | 13.19 | 5.29 | -12.72 | -1.05 | -1.84 | -1.77 |
| | 10 | 104 | 9.72 | 2.57 | -0.31 | 0.03 | 0.04 | 0.37 |
| | | 105 | -9.61 | -2.45 | 0.31 | -0.03 | 0.09 | 0.64 |
| | 11 | 104 | 215.14 | -34.80 | -1.11 | 0.19 | 0.27 | 32.41 |
| | | 105 | -215.02 | 34.92 | 1.11 | -0.19 | 0.18 | -46.56 |
| | 12 | 104 | 31.63 | 8.67 | -10.86 | -0.88 | 2.82 | 1.28 |
| | | 105 | -31.51 | -8.55 | 10.86 | 0.88 | 1.59 | 2.21 |
| | 13 | 104 | -6.15 | -3.36 | 10.03 | 0.85 | -2.64 | -0.10 |
| | | 105 | 6.27 | 3.48 | -10.03 | -0.85 | -1.43 | -1.29 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 14 | 104 | 12.08 | 2.83 | -0.40 | 0.03 | 0.05 | 0.48 |
| | 105 | -11.97 | -2.71 | 0.40 | -0.03 | 0.11 | 0.64 |
| 15 | 104 | 176.41 | -27.07 | -1.04 | 0.16 | 0.23 | 26.11 |
| | 105 | -176.30 | 27.19 | 1.04 | -0.16 | 0.19 | -37.12 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 183 | 7 | 106 | 63.11 | -1.71 | -0.37 | 0.01 | 0.33 | 0.11 |
| | | 16 | -62.93 | 1.71 | 0.37 | -0.01 | -0.22 | -0.60 |
| | 8 | 106 | 363.77 | -155.10 | 4.76 | 0.78 | 1.54 | -26.84 |
| | | 16 | -363.60 | 155.10 | -4.76 | -0.78 | -2.91 | -17.68 |
| | 9 | 106 | -251.13 | 153.49 | -4.62 | -0.76 | -1.04 | 25.62 |
| | | 16 | 251.31 | -154.25 | 4.62 | 0.76 | 2.37 | 18.55 |
| | 10 | 106 | 58.70 | -1.60 | 0.68 | 0.00 | 0.15 | 0.10 |
| | | 16 | -58.52 | 1.60 | -0.68 | -0.00 | -0.34 | -0.56 |
| | 11 | 106 | -144.53 | 2.76 | -125.92 | 1.13 | 21.75 | -0.52 |
| | | 16 | 144.71 | -2.76 | 126.55 | -1.13 | 14.48 | 1.31 |
| | 12 | 106 | 306.83 | -124.50 | 3.45 | 0.63 | 1.34 | -21.44 |
| | | 16 | -306.66 | 124.50 | -3.45 | -0.63 | -2.33 | -14.29 |
| | 13 | 106 | -185.09 | 122.37 | -4.06 | -0.60 | -0.72 | 20.52 |
| | | 16 | 185.27 | -122.99 | 4.06 | 0.60 | 1.89 | 14.69 |
| | 14 | 106 | 62.78 | -1.70 | 0.18 | 0.01 | 0.23 | 0.11 |
| | | 16 | -62.60 | 1.70 | -0.18 | -0.01 | -0.28 | -0.60 |
| | 15 | 106 | -99.81 | 1.79 | -101.10 | 0.91 | 17.51 | -0.38 |
| | | 16 | 99.99 | -1.79 | 101.60 | -0.91 | 11.58 | 0.90 |
| 184 | 7 | 107 | -0.03 | -0.95 | -0.00 | 0.04 | 0.00 | -1.65 |
| | | 105 | 0.03 | 2.09 | 0.00 | -0.04 | 0.00 | -2.58 |
| | 8 | 107 | -0.01 | -2.08 | -0.05 | 0.35 | 0.06 | -2.84 |
| | | 105 | 0.01 | 3.22 | 0.05 | -0.35 | 0.07 | -4.54 |
| | 9 | 107 | -0.02 | 1.02 | 0.05 | -0.29 | -0.06 | 0.56 |
| | | 105 | 0.02 | 0.12 | -0.05 | 0.29 | -0.08 | 0.70 |
| | 10 | 107 | 0.01 | -0.18 | -0.00 | 0.03 | 0.00 | -0.66 |
| | | 105 | -0.01 | 1.32 | 0.00 | -0.03 | 0.00 | -1.44 |
| | 11 | 107 | 4.12 | -76.40 | -0.00 | 0.05 | -0.01 | -106.78 |
| | | 105 | -4.12 | 77.55 | 0.00 | -0.05 | 0.02 | -107.67 |
| | 12 | 107 | -0.02 | -2.10 | -0.04 | 0.30 | 0.05 | -2.91 |
| | | 105 | 0.02 | 3.25 | 0.04 | -0.30 | 0.06 | -4.54 |
| | 13 | 107 | -0.03 | 0.38 | 0.04 | -0.22 | -0.05 | -0.19 |
| | | 105 | 0.03 | 0.76 | -0.04 | 0.22 | -0.06 | -0.35 |
| | 14 | 107 | -0.01 | -0.59 | -0.00 | 0.04 | 0.00 | -1.16 |
| | | 105 | 0.01 | 1.73 | 0.00 | -0.04 | 0.00 | -2.06 |
| | 15 | 107 | 3.28 | -61.56 | -0.00 | 0.05 | -0.01 | -86.06 |
| | | 105 | -3.28 | 62.71 | 0.00 | -0.05 | 0.02 | -87.05 |
| 185 | 7 | 106 | 1.76 | 3.13 | 0.06 | -0.01 | -0.00 | -0.12 |
| | | 107 | -1.65 | -3.01 | -0.06 | 0.01 | -0.02 | 1.37 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| | 8 | 106 | 19.77 | 13.47 | 13.80 | 1.06 | -3.69 | 0.57 |
| | | 107 | -19.65 | -13.36 | -13.80 | -1.06 | -1.91 | 4.88 |
| | 9 | 106 | -15.33 | -8.18 | -13.61 | -0.97 | 3.57 | -0.61 |
| | | 107 | 15.45 | 8.30 | 13.61 | 0.97 | 1.96 | -2.74 |
| | 10 | 106 | 3.25 | 2.52 | 0.07 | -0.01 | -0.00 | 0.13 |
| | | 107 | -3.13 | -2.41 | -0.07 | 0.01 | -0.03 | 0.87 |
| | 11 | 106 | -198.76 | 40.11 | -0.74 | 0.15 | 0.22 | -31.58 |
| | | 107 | 198.88 | -39.99 | 0.74 | -0.15 | 0.07 | 47.84 |
| | 12 | 106 | 15.83 | 11.67 | 11.05 | 0.85 | -2.96 | 0.36 |
| | | 107 | -15.72 | -11.55 | -11.05 | -0.85 | -1.53 | 4.35 |
| | 13 | 106 | -12.24 | -5.66 | -10.88 | -0.78 | 2.85 | -0.58 |
| | | 107 | 12.36 | 5.78 | 10.88 | 0.78 | 1.56 | -1.74 |
| | 14 | 106 | 2.62 | 2.91 | 0.07 | -0.01 | -0.00 | 0.01 |
| | | 107 | -2.50 | -2.79 | -0.07 | 0.01 | -0.02 | 1.14 |
| | 15 | 106 | -158.99 | 32.97 | -0.58 | 0.12 | 0.18 | -25.36 |
| | | 107 | 159.11 | -32.85 | 0.58 | -0.12 | 0.06 | 38.71 |
| 186 | 7 | 108 | -1.83 | 4.41 | -0.06 | -0.02 | 0.01 | 0.68 |
| | | 16 | 1.83 | -4.29 | 0.06 | 0.02 | 0.01 | 0.57 |
| | 8 | 108 | -206.26 | 49.27 | 0.71 | -0.12 | -0.02 | 69.78 |
| | | 16 | 206.26 | -49.16 | -0.71 | 0.12 | -0.19 | -55.65 |
| | 9 | 108 | 210.14 | -38.07 | -0.75 | 0.08 | 0.02 | -68.66 |
| | | 16 | -210.14 | 38.19 | 0.75 | -0.08 | 0.19 | 57.71 |
| | 10 | 108 | -1.73 | 4.09 | 0.03 | -0.02 | -0.00 | 0.64 |
| | | 16 | 1.73 | -3.98 | -0.03 | 0.02 | -0.01 | 0.52 |
| | 11 | 108 | 3.40 | -10.47 | -11.23 | 0.61 | 1.77 | -1.40 |
| | | 16 | -3.40 | 10.58 | 11.23 | -0.61 | 1.45 | -1.62 |
| | 12 | 108 | -165.45 | 40.53 | 0.53 | -0.10 | -0.01 | 55.99 |
| | | 16 | 165.45 | -40.41 | -0.53 | 0.10 | -0.15 | -44.38 |
| | 13 | 108 | 167.67 | -29.35 | -0.64 | 0.06 | 0.03 | -54.76 |
| | | 16 | -167.67 | 29.46 | 0.64 | -0.06 | 0.16 | 46.32 |
| | 14 | 108 | -1.82 | 4.39 | -0.01 | -0.02 | 0.00 | 0.68 |
| | | 16 | 1.82 | -4.27 | 0.01 | 0.02 | 0.00 | 0.56 |
| | 15 | 108 | 2.28 | -7.26 | -9.02 | 0.49 | 1.43 | -0.95 |
| | | 16 | -2.28 | 7.38 | 9.02 | -0.49 | 1.16 | -1.15 |
| 187 | 7 | 106 | 4.87 | 2.23 | 0.06 | 0.02 | -0.03 | 0.32 |
| | | 108 | -4.75 | -2.11 | -0.06 | -0.02 | 0.01 | 0.56 |
| | 8 | 106 | 264.33 | -34.55 | -0.74 | 0.27 | 0.06 | 39.44 |
| | | 108 | -264.22 | 34.67 | 0.74 | -0.27 | 0.24 | -53.49 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 9 | 106 | -251.10 | 38.90 | 0.78 | -0.23 | -0.10 | -38.44 |
| | 108 | 251.22 | -38.78 | -0.78 | 0.23 | -0.22 | 54.20 |
| 10 | 106 | 4.58 | 2.08 | -0.03 | 0.01 | -0.01 | 0.30 |
| | 108 | -4.46 | -1.96 | 0.03 | -0.01 | 0.02 | 0.52 |
| 11 | 106 | -9.38 | -4.55 | 11.23 | 0.80 | -2.88 | -0.43 |
| | 108 | 9.50 | 4.67 | -11.23 | -0.80 | -1.67 | -1.44 |



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MEMBER END FORCES STRUCTURE TYPE = SPACE

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ALL UNITS ARE -- KN METE (LOCAL )

| MEMBER | LOAD | JT | AXIAL | SHEAR-Y | SHEAR-Z | TORSION | MOM-Y | MOM-Z |
|---|---|---|---|---|---|---|---|---|
| 12 | 106 | | 212.66 | -27.09 | -0.56 | 0.22 | 0.04 | 31.63 |
| | | 108 | -212.54 | 27.20 | 0.56 | -0.22 | 0.19 | -42.65 |
| 13 | 106 | | -199.69 | 31.67 | 0.66 | -0.18 | -0.09 | -30.67 |
| | | 108 | 199.81 | -31.56 | -0.66 | 0.18 | -0.18 | 43.51 |
| 14 | 106 | | 4.85 | 2.22 | 0.01 | 0.02 | -0.02 | 0.32 |
| | | 108 | -4.73 | -2.10 | -0.01 | -0.02 | 0.01 | 0.56 |
| 15 | 106 | | -6.32 | -3.09 | 9.02 | 0.65 | -2.32 | -0.27 |
| | | 108 | 6.43 | 3.20 | -9.02 | -0.65 | -1.34 | -1.01 |

********** END OF LATEST ANALYSIS RESULT **********

221. PRINT SUPPORT REACTION

_ SUPPORT REACTION _



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SUPPORT REACTIONS -UNIT KN METE STRUCTURE TYPE = SPACE

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| JOINT | LOAD | FORCE-X | FORCE-Y | FORCE-Z | MOM-X | MOM-Y | MOM Z |
|---|---|---|---|---|---|---|---|
| 5 | 7 | 0.53 | 226.37 | 1.41 | 1.66 | -0.00 | -0.36 |
| | 8 | -48.81 | -475.82 | 1.22 | 1.22 | -0.23 | 156.06 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 9 | 51.50 | 846.88 | 1.49 | 1.59 | 0.21 | -157.53 |
| | 10 | 0.61 | 183.55 | 1.17 | 0.79 | -0.00 | -0.41 |
| | 11 | 0.53 | 619.33 | 43.01 | 136.19 | 0.05 | -0.36 |
| | 12 | -39.00 | -310.88 | 1.29 | 1.46 | -0.18 | 124.80 |
| | 13 | 41.26 | 747.28 | 1.51 | 1.76 | 0.17 | -126.06 |
| | 14 | 0.54 | 216.62 | 1.25 | 1.12 | -0.00 | -0.37 |
| | 15 | 0.48 | 565.24 | 34.72 | 109.44 | 0.04 | -0.34 |
| 6 | 7 | -0.53 | 226.37 | 1.41 | 1.66 | 0.00 | 0.36 |
| | 8 | -51.50 | 846.88 | 1.49 | 1.59 | -0.21 | 157.53 |
| | 9 | 48.81 | -475.82 | 1.22 | 1.22 | 0.23 | -156.06 |
| | 10 | -0.61 | 183.55 | 1.17 | 0.79 | 0.00 | 0.41 |
| | 11 | -0.53 | 619.33 | 43.01 | 136.19 | -0.05 | 0.36 |
| | 12 | -41.26 | 747.28 | 1.51 | 1.76 | -0.17 | 126.06 |
| | 13 | 39.00 | -310.88 | 1.29 | 1.46 | 0.18 | -124.80 |
| | 14 | -0.54 | 216.62 | 1.25 | 1.12 | 0.00 | 0.37 |
| | 15 | -0.48 | 565.24 | 34.72 | 109.44 | -0.04 | 0.34 |
| 7 | 7 | 0.79 | 103.30 | -1.41 | -0.05 | -0.00 | -0.50 |
| | 8 | -48.44 | -539.02 | -1.05 | -0.22 | -0.33 | 155.76 |
| | 9 | 51.49 | 735.02 | -1.65 | -0.28 | 0.33 | -157.42 |
| | 10 | 0.79 | 99.98 | -1.54 | -0.87 | -0.00 | -0.50 |
| | 11 | 0.87 | -335.80 | 39.12 | 134.08 | 0.03 | -0.55 |
| | 12 | -38.60 | -407.37 | -1.16 | -0.06 | -0.27 | 124.51 |
| | 13 | 41.35 | 611.85 | -1.64 | -0.11 | 0.26 | -126.03 |
| | 14 | 0.79 | 103.83 | -1.55 | -0.58 | -0.00 | -0.50 |
| | 15 | 0.85 | -244.80 | 30.98 | 107.37 | 0.02 | -0.54 |
| 8 | 7 | -0.79 | 103.30 | -1.41 | -0.05 | 0.00 | 0.50 |
| | 8 | -51.49 | 735.02 | -1.65 | -0.28 | -0.33 | 157.42 |
| | 9 | 48.44 | -539.02 | -1.05 | -0.22 | 0.33 | -155.76 |
| | 10 | -0.79 | 99.98 | -1.54 | -0.87 | 0.00 | 0.50 |
| | 11 | -0.87 | -335.80 | 39.12 | 134.08 | -0.03 | 0.55 |
| | 12 | -41.35 | 611.85 | -1.64 | -0.11 | -0.26 | 126.03 |
| | 13 | 38.60 | -407.37 | -1.16 | -0.06 | 0.27 | -124.51 |
| | 14 | -0.79 | 103.83 | -1.55 | -0.58 | 0.00 | 0.50 |
| | 15 | -0.85 | -244.80 | 30.98 | 107.37 | -0.02 | 0.54 |

********** END OF LATEST ANALYSIS RESULT **********

222. PARAMETER 1
223. CODE IS800 LSD



224. FYLD 310000 MEMB 2 4 6 8 13 TO 80 89 TO 158 167 169 170 172 173 175 177 179 -
225. 181 183 184 186
226. MAIN 180 MEMB 2 4 6 8 13 TO 80 89 TO 158 167 169 170 172 173 175 177 179 181 -

227. 183 184 186
228. CHECK CODE MEMB 2 4 6 8 13 TO 80 89 TO 158 167 169 170 172 173 175 177 179 -
229. 181 183 184 186
_STEEL DESIGN _

|---|
| _Member Number: 2 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.955 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Sec. 9.3.2.2 |

|---|
| _Member Number: 4 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.955 Critical Load Case: 8 Location: 0.00 |
| Critical Condition: Sec. 9.3.2.2 |

|---|
| _Member Number: 6 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.899 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Sec. 9.3.2.2 |

|---|
| _Member Number: 8 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.899 Critical Load Case: 8 Location: 0.00 |
| Critical Condition: Sec. 9.3.2.2 |



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STAAD.PRO CODE CHECKING - IS-800-2007-LSD (V2.2)
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|---|
| _Member Number: 13 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.612 Critical Load Case: 8 Location: 0.29 |
| Critical Condition: Sec. 9.3.2.2 |

|---|
| _Member Number: 14 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.549 Critical Load Case: 11 Location: 0.29 |
| Critical Condition: Sec. 9.3.2.2 |

|---|
| _Member Number: 15 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.549 Critical Load Case: 11 Location: 0.29 |
| Critical Condition: Sec. 9.3.2.2 |

|---|
| _Member Number: 16 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.659 Critical Load Case: 8 Location: 0.29 |
| Critical Condition: Sec. 9.3.2.2 |



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STAAD.PRO CODE CHECKING - IS-800-2007-LSD (V2.2)
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|---|
| _Member Number: 17 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.753 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Sec. 9.3.2.2 |

|---|
| _Member Number: 18 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.753 Critical Load Case: 8 Location: 0.00 |
| Critical Condition: Sec. 9.3.2.2 |

|---|
| _Member Number: 19 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.689 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Sec. 9.3.2.2 |

|--------------------------------------------------------------------------|

|--------------------------------------------------------------------------|
| _Member Number:  20 _                                                    |
| Member Section:  ST  220X220X10.0SHS  (TATA STRUCTURA SECTIONS)          |
| Status: PASS  Ratio:  0.689  Critical Load Case:  8  Location:  0.00  |
| Critical Condition: Sec. 9.3.2.2                                         |
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STAAD.PRO CODE CHECKING - IS-800-2007-LSD (V2.2)
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|--------------------------------------------------------------------------|
| _Member Number:  21 _                                                    |
| Member Section:  ST  240X120X8.0RHS  (TATA STRUCTURA SECTIONS)           |
| Status: PASS  Ratio:  0.619  Critical Load Case:  8  Location:  0.29  |
| Critical Condition: Sec. 9.3.2.2                                         |
|--------------------------------------------------------------------------|

|--------------------------------------------------------------------------|
| _Member Number:  22 _                                                    |
| Member Section:  ST  240X120X8.0RHS  (TATA STRUCTURA SECTIONS)           |
| Status: PASS  Ratio:  0.573  Critical Load Case:  11  Location:  0.29  |
| Critical Condition: Sec. 9.3.2.2                                         |
|--------------------------------------------------------------------------|

|--------------------------------------------------------------------------|
| _Member Number:  23 _                                                    |
| Member Section:  ST  240X120X8.0RHS  (TATA STRUCTURA SECTIONS)           |
| Status: PASS  Ratio:  0.573  Critical Load Case:  11  Location:  0.29  |
| Critical Condition: Sec. 9.3.2.2                                         |
|--------------------------------------------------------------------------|

|--------------------------------------------------------------------------|
| _Member Number:  24 _                                                    |
| Member Section:  ST  240X120X8.0RHS  (TATA STRUCTURA SECTIONS)           |
| Status: PASS  Ratio:  0.671  Critical Load Case:  8  Location:  0.29  |
| Critical Condition: Sec. 9.3.2.2                                         |
|--------------------------------------------------------------------------|



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|---|
| _Member Number: 25 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.674 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Sec. 9.3.2.2 |
|---|

|---|
| _Member Number: 26 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.674 Critical Load Case: 8 Location: 0.00 |
| Critical Condition: Sec. 9.3.2.2 |
|---|

|---|
| _Member Number: 27 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.618 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Sec. 9.3.2.2 |
|---|

|---|
| _Member Number: 28 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.618 Critical Load Case: 8 Location: 0.00 |
| Critical Condition: Sec. 9.3.2.2 |
|---|



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|---|
|* _Member Number: 29 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: FAIL Ratio: 1.017 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Sec. 9.3.1.1 |
|---|

|---|
| _Member Number: 30 _ |

| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.928 Critical Load Case: 11 Location: 3.36 |
| Critical Condition: Sec. 8.2.1.2 |
|---|

|---|
| _Member Number: 31 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.928 Critical Load Case: 11 Location: 3.36 |
| Critical Condition: Sec. 8.2.1.2 |
|---|

|---|
|* _Member Number: 32 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: FAIL Ratio: 1.162 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Sec. 9.3.1.1 |
|---|



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|---|
| _Member Number: 33 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.550 Critical Load Case: 9 Location: 3.75 |
| Critical Condition: Sec. 9.3.2.2 |
|---|

|---|
| _Member Number: 34 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.550 Critical Load Case: 8 Location: 3.75 |
| Critical Condition: Sec. 9.3.2.2 |
|---|

|---|
| _Member Number: 35 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.500 Critical Load Case: 9 Location: 3.75 |
| Critical Condition: Sec. 9.3.2.2 |
|---|

|---------------------------------------------------------------------------|
| _Member Number: 36 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.500 Critical Load Case: 8 Location: 3.75 |
| Critical Condition: Sec. 9.3.2.2 |
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|---------------------------------------------------------------------------|
| _Member Number: 37 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.894 Critical Load Case: 8 Location: 2.76 |
| Critical Condition: Sec. 8.2.1.2 |
|---------------------------------------------------------------------------|

|---------------------------------------------------------------------------|
| _Member Number: 38 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.824 Critical Load Case: 11 Location: 3.36 |
| Critical Condition: Sec. 8.2.1.2 |
|---------------------------------------------------------------------------|

|---------------------------------------------------------------------------|
| _Member Number: 39 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.824 Critical Load Case: 11 Location: 3.36 |
| Critical Condition: Sec. 8.2.1.2 |
|---------------------------------------------------------------------------|

|---------------------------------------------------------------------------|
| _Member Number: 40 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.970 Critical Load Case: 8 Location: 2.76 |
| Critical Condition: Sec. 8.2.1.2 |
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|---------------------------------------------------------------------------|
| _Member Number: 41 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.454 Critical Load Case: 9 Location: 3.75 |
| Critical Condition: Sec. 9.3.2.2 |
|---------------------------------------------------------------------------|

|---------------------------------------------------------------------------|
| _Member Number: 42 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.454 Critical Load Case: 8 Location: 3.75 |
| Critical Condition: Sec. 9.3.2.2 |
|---------------------------------------------------------------------------|

|---------------------------------------------------------------------------|
| _Member Number: 43 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.413 Critical Load Case: 9 Location: 3.75 |
| Critical Condition: Sec. 9.3.2.2 |
|---------------------------------------------------------------------------|

|---------------------------------------------------------------------------|
| _Member Number: 44 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.413 Critical Load Case: 8 Location: 3.75 |
| Critical Condition: Sec. 9.3.2.2 |
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|---------------------------------------------------------------------------|
| _Member Number: 45 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.749 Critical Load Case: 8 Location: 2.76 |
| Critical Condition: Sec. 8.2.1.2 |
|---------------------------------------------------------------------------|

|---------------------------------------------------------------------------|
| _Member Number: 46 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.694 Critical Load Case: 11 Location: 3.36 |

| Critical Condition: Sec. 8.2.1.2 |
|---|

|---|
| _Member Number: 47 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.694 Critical Load Case: 11 Location: 3.36 |
| Critical Condition: Sec. 8.2.1.2 |

|---|
| _Member Number: 48 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.814 Critical Load Case: 8 Location: 2.76 |
| Critical Condition: Sec. 8.2.1.2 |



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|---|
| _Member Number: 49 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.363 Critical Load Case: 9 Location: 3.75 |
| Critical Condition: Sec. 9.3.2.2 |

|---|
| _Member Number: 50 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.363 Critical Load Case: 8 Location: 3.75 |
| Critical Condition: Sec. 9.3.2.2 |

|---|
| _Member Number: 51 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.331 Critical Load Case: 9 Location: 3.75 |
| Critical Condition: Sec. 9.3.2.2 |

|---|
| _Member Number: 52 _ |

| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.331 Critical Load Case: 8 Location: 3.75 |
| Critical Condition: Sec. 9.3.2.2 |
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|---|
| _Member Number: 53 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.601 Critical Load Case: 8 Location: 2.76 |
| Critical Condition: Sec. 8.2.1.2 |
|---|

|---|
| _Member Number: 54 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.560 Critical Load Case: 11 Location: 3.36 |
| Critical Condition: Sec. 8.2.1.2 |
|---|

|---|
| _Member Number: 55 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.560 Critical Load Case: 11 Location: 3.36 |
| Critical Condition: Sec. 8.2.1.2 |
|---|

|---|
| _Member Number: 56 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.653 Critical Load Case: 8 Location: 2.76 |
| Critical Condition: Sec. 8.2.1.2 |
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| _Member Number: 57 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.279 Critical Load Case: 9 Location: 3.75 |
| Critical Condition: Sec. 9.3.2.2 |

| _Member Number: 58 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.279 Critical Load Case: 8 Location: 3.75 |
| Critical Condition: Sec. 9.3.2.2 |

| _Member Number: 59 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.255 Critical Load Case: 9 Location: 3.75 |
| Critical Condition: Sec. 9.3.2.2 |

| _Member Number: 60 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.255 Critical Load Case: 8 Location: 3.75 |
| Critical Condition: Sec. 9.3.2.2 |



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| _Member Number: 61 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.452 Critical Load Case: 8 Location: 2.76 |
| Critical Condition: Sec. 8.2.1.2 |

| _Member Number: 62 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.425 Critical Load Case: 11 Location: 3.36 |
| Critical Condition: Sec. 8.2.1.2 |

|---|
| _Member Number: 63 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.425 Critical Load Case: 11 Location: 3.36 |
| Critical Condition: Sec. 8.2.1.2 |

|---|
| _Member Number: 64 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.491 Critical Load Case: 8 Location: 2.76 |
| Critical Condition: Sec. 8.2.1.2 |



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|---|
| _Member Number: 65 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.245 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |

|---|
| _Member Number: 66 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.245 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |

|---|
| _Member Number: 67 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.245 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |

|---|
| _Member Number: 68 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.245 Critical Load Case: 7 Location: 0.00 |

| Critical Condition: Slenderness (Compression) |
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|---|
| _Member Number: 69 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.311 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |

|---|
| _Member Number: 70 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.378 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |

|---|
| _Member Number: 71 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.378 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |

|---|
| _Member Number: 72 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.325 Critical Load Case: 8 Location: 2.76 |
| Critical Condition: Sec. 8.2.1.2 |

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|---|
| _Member Number: 73 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |

| Status: PASS Ratio: 0.245 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---|

|---|
| _Member Number: 74 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.245 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---|

|---|
| _Member Number: 75 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.245 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---|

|---|
| _Member Number: 76 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.245 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
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|---|
| _Member Number: 77 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.140 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Tension) |
|---|

|---|
| _Member Number: 78 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.170 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Tension) |
|---|

|---|

| _Member Number: 79 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.170 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Tension) |

| _Member Number: 80 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.140 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Tension) |



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| _Member Number: 89 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.113 Critical Load Case: 8 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |

| _Member Number: 90 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.113 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |

| _Member Number: 91 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.311 Critical Load Case: 8 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |

| _Member Number: 92 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.113 Critical Load Case: 8 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |

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|---|
| _Member Number: 93 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.113 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |

|---|
| _Member Number: 94 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.311 Critical Load Case: 8 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |

|---|
| _Member Number: 95 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.113 Critical Load Case: 8 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |

|---|
| _Member Number: 96 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.113 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |



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|---|
| _Member Number: 97 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.311 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |

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|---|
| _Member Number: 98 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.113 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---|

|---|
| _Member Number: 99 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.113 Critical Load Case: 8 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---|

|---|
| _Member Number: 100 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.311 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
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|---|
| _Member Number: 101 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.113 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---|

|---|
| _Member Number: 102 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.113 Critical Load Case: 8 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---|

|---|
| _Member Number: 103 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |

| Status: PASS Ratio: 0.311 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---|

|---|
| _Member Number: 104 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.113 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
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|---|
| _Member Number: 105 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.113 Critical Load Case: 8 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---|

|---|
| _Member Number: 106 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.311 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---|

|---|
| _Member Number: 107 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.113 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---|

|---|
| _Member Number: 108 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.113 Critical Load Case: 8 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
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|---|
| _Member Number: 109 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.311 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |

|---|
| _Member Number: 110 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.113 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |

|---|
| _Member Number: 111 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.113 Critical Load Case: 8 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |

|---|
| _Member Number: 112 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.311 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |



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|---|
| _Member Number: 113 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.111 Critical Load Case: 13 Location: 1.20 |
| Critical Condition: Sec. 9.3.2.2 |

|---|
| _Member Number: 114 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.109 Critical Load Case: 9 Location: 1.20 |
| Critical Condition: Sec. 9.3.2.2 |

|---|
| _Member Number: 115 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.109 Critical Load Case: 8 Location: 1.20 |
| Critical Condition: Sec. 9.3.2.2 |

|---|
| _Member Number: 116 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.111 Critical Load Case: 12 Location: 1.20 |
| Critical Condition: Sec. 9.3.2.2 |



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|---|
| _Member Number: 117 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.154 Critical Load Case: 12 Location: 0.00 |
| Critical Condition: Sec. 8.2.1.2 |

|---|
| _Member Number: 118 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.311 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |

|---|
| _Member Number: 119 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.311 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |

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|---|
| _Member Number: 120 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.154 Critical Load Case: 13 Location: 0.00 |
| Critical Condition: Sec. 8.2.1.2 |
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|---|
| _Member Number: 121 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.126 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---|

|---|
| _Member Number: 122 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.311 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---|

|---|
| _Member Number: 123 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.311 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---|

|---|
| _Member Number: 124 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.126 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
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|---|
| _Member Number: 125 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.167 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---|

|---|
| _Member Number: 126 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.167 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---|

|---|
| _Member Number: 127 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.167 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---|

|---|
| _Member Number: 128 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.167 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
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|---|
| _Member Number: 129 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.113 Critical Load Case: 8 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---|

|---|
| _Member Number: 130 _ |

| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.113 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---|

|---|
| _Member Number: 131 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.140 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Tension) |
|---|

|---|
| _Member Number: 132 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.126 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
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|---|
| _Member Number: 133 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.214 Critical Load Case: 15 Location: 1.12 |
| Critical Condition: Sec. 8.2.1.2 |
|---|

|---|
| _Member Number: 134 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.214 Critical Load Case: 15 Location: 1.12 |
| Critical Condition: Sec. 8.2.1.2 |
|---|

|---|
| _Member Number: 135 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.311 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---|

|---------------------------------------------------------------------------|
| _Member Number: 136 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.126 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---------------------------------------------------------------------------|



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STAAD.PRO CODE CHECKING - IS-800-2007-LSD (V2.2)
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|---------------------------------------------------------------------------|
| _Member Number: 137 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.311 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---------------------------------------------------------------------------|

|---------------------------------------------------------------------------|
| _Member Number: 138 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.113 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---------------------------------------------------------------------------|

|---------------------------------------------------------------------------|
| _Member Number: 139 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.113 Critical Load Case: 8 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---------------------------------------------------------------------------|

|---------------------------------------------------------------------------|
| _Member Number: 140 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.311 Critical Load Case: 7 Location: 0.00 |
| Critical Condition: Slenderness (Compression) |
|---------------------------------------------------------------------------|



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STAAD.PRO CODE CHECKING - IS-800-2007-LSD (V2.2)
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|---------------------------------------------------------------------------|
| _Member Number:  141 _                                                    |
| Member Section:  ST  240X120X8.0RHS  (TATA STRUCTURA SECTIONS)            |
| Status: PASS  Ratio:  0.126  Critical Load Case:  7  Location:  0.00      |
| Critical Condition: Slenderness (Compression)                             |
|---------------------------------------------------------------------------|

|---------------------------------------------------------------------------|
| _Member Number:  142 _                                                    |
| Member Section:  ST  240X120X8.0RHS  (TATA STRUCTURA SECTIONS)            |
| Status: PASS  Ratio:  0.126  Critical Load Case:  7  Location:  0.00      |
| Critical Condition: Slenderness (Compression)                             |
|---------------------------------------------------------------------------|

|---------------------------------------------------------------------------|
| _Member Number:  143 _                                                    |
| Member Section:  ST  240X120X8.0RHS  (TATA STRUCTURA SECTIONS)            |
| Status: PASS  Ratio:  0.126  Critical Load Case:  7  Location:  0.00      |
| Critical Condition: Slenderness (Compression)                             |
|---------------------------------------------------------------------------|

|---------------------------------------------------------------------------|
| _Member Number:  144 _                                                    |
| Member Section:  ST  240X120X8.0RHS  (TATA STRUCTURA SECTIONS)            |
| Status: PASS  Ratio:  0.311  Critical Load Case:  7  Location:  0.00      |
| Critical Condition: Slenderness (Compression)                             |
|---------------------------------------------------------------------------|



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STAAD.PRO CODE CHECKING - IS-800-2007-LSD (V2.2)
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|---------------------------------------------------------------------------|
| _Member Number:  145 _                                                    |
| Member Section:  ST  240X120X8.0RHS  (TATA STRUCTURA SECTIONS)            |
| Status: PASS  Ratio:  0.126  Critical Load Case:  7  Location:  0.00      |
| Critical Condition: Slenderness (Compression)                             |
|---------------------------------------------------------------------------|

|---------------------------------------------------------------------------|
| _Member Number:  146 _                                                    |
| Member Section:  ST  240X120X8.0RHS  (TATA STRUCTURA SECTIONS)            |
| Status: PASS  Ratio:  0.311  Critical Load Case:  7  Location:  0.00      |

| Critical Condition: Slenderness (Compression) |
|---|

|---|
| _Member Number: 147 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.368 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Sec. 9.3.2.2 |
|---|

|---|
| _Member Number: 148 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.368 Critical Load Case: 8 Location: 0.00 |
| Critical Condition: Sec. 9.3.2.2 |
|---|



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STAAD.PRO CODE CHECKING - IS-800-2007-LSD (V2.2)
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|---|
| _Member Number: 149 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.321 Critical Load Case: 9 Location: 0.29 |
| Critical Condition: Sec. 9.3.2.2 |
|---|

|---|
| _Member Number: 150 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.321 Critical Load Case: 8 Location: 0.29 |
| Critical Condition: Sec. 9.3.2.2 |
|---|

|---|
| _Member Number: 151 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.982 Critical Load Case: 8 Location: 2.19 |
| Critical Condition: Sec. 8.2.1.2 |
|---|

|---|
|* _Member Number: 152 _ |

| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: FAIL Ratio: 1.070 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Sec. 9.3.1.1 |
|---|

_ STAAD SPACE -- PAGE NO. 138

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STAAD.PRO CODE CHECKING - IS-800-2007-LSD (V2.2)

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|---|
| _Member Number: 153 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.612 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Sec. 9.3.2.2 |
|---|

|---|
| _Member Number: 154 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.659 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Sec. 9.3.2.2 |
|---|

|---|
| _Member Number: 155 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.890 Critical Load Case: 11 Location: 2.79 |
| Critical Condition: Sec. 8.2.1.2 |
|---|

|---|
| _Member Number: 156 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.890 Critical Load Case: 11 Location: 2.79 |
| Critical Condition: Sec. 8.2.1.2 |
|---|

_ STAAD SPACE -- PAGE NO. 139

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STAAD.PRO CODE CHECKING - IS-800-2007-LSD (V2.2)

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| _Member Number: 157 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.516 Critical Load Case: 11 Location: 0.00 |
| Critical Condition: Sec. 8.2.1.2 |

| _Member Number: 158 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.516 Critical Load Case: 11 Location: 0.00 |
| Critical Condition: Sec. 8.2.1.2 |

| _Member Number: 167 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.619 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Sec. 9.3.2.2 |

| _Member Number: 169 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.346 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Sec. 9.3.2.2 |



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STAAD.PRO CODE CHECKING - IS-800-2007-LSD (V2.2)
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| _Member Number: 170 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.537 Critical Load Case: 11 Location: 0.00 |
| Critical Condition: Sec. 8.2.1.2 |

| _Member Number: 172 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.295 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Sec. 9.3.2.2 |

|---|
|* _Member Number: 173 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: FAIL Ratio: 1.141 Critical Load Case: 8 Location: 2.19 |
| Critical Condition: Sec. 9.3.1.1 |
|---|

|---|
| _Member Number: 175 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.946 Critical Load Case: 11 Location: 2.79 |
| Critical Condition: Sec. 8.2.1.2 |
|---|



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STAAD.PRO CODE CHECKING - IS-800-2007-LSD (V2.2)
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|---|
|* _Member Number: 177 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: FAIL Ratio: 1.022 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Sec. 9.3.1.1 |
|---|

|---|
| _Member Number: 179 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.346 Critical Load Case: 8 Location: 0.00 |
| Critical Condition: Sec. 9.3.2.2 |
|---|

|---|
| _Member Number: 181 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.537 Critical Load Case: 11 Location: 0.00 |
| Critical Condition: Sec. 8.2.1.2 |
|---|

|---|
| _Member Number: 183 _ |
| Member Section: ST 220X220X10.0SHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.295 Critical Load Case: 8 Location: 0.00 |

| Critical Condition: Sec. 9.3.2.2 |
|---|

_ STAAD SPACE -- PAGE NO. 142

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STAAD.PRO CODE CHECKING - IS-800-2007-LSD (V2.2)

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|---|
| _Member Number: 184 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.946 Critical Load Case: 11 Location: 2.79 |
| Critical Condition: Sec. 8.2.1.2 |

|---|
| _Member Number: 186 _ |
| Member Section: ST 240X120X8.0RHS (TATA STRUCTURA SECTIONS) |
| Status: PASS Ratio: 0.671 Critical Load Case: 9 Location: 0.00 |
| Critical Condition: Sec. 9.3.2.2 |

230. STEEL MEMBER TAKE OFF LIST 2 4 6 8 13 TO 80 89 TO 158 167 169 170 172 173 -

_ STAAD SPACE -- PAGE NO. 143

_STEEL TAKE OFF _

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STEEL TAKE-OFF

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| PROFILE | LENGTH(METE) | WEIGHT(KN ) |
|---|---|---|

_

231. 175 177 179 181 183 184 186

| | | |
|---|---|---|
| ST 220X220X10.0SHS | 150.00 | 93.831 |
| ST 240X120X8.0RHS | 193.28 | 79.272 |
| | --- | |
| TOTAL = | 173.103 | |

_

| MEMBER | PROFILE | LENGTH (METE) | WEIGHT (KN ) |
|---|---|---|---|

_

| | | | |
|---|---|---|---|
| 2 | ST 220X220X10.0SHS | 3.46 | 2.166 |
| 4 | ST 220X220X10.0SHS | 3.46 | 2.166 |

| | | | | |
|---|---|---|---|---|
| 6 | ST | 220X220X10.0SHS | 3.46 | 2.166 |
| 8 | ST | 220X220X10.0SHS | 3.46 | 2.166 |
| 13 | ST | 240X120X8.0RHS | 0.29 | 0.118 |
| 14 | ST | 240X120X8.0RHS | 0.29 | 0.118 |
| 15 | ST | 240X120X8.0RHS | 0.29 | 0.118 |
| 16 | ST | 240X120X8.0RHS | 0.29 | 0.118 |
| 17 | ST | 220X220X10.0SHS | 3.46 | 2.166 |
| 18 | ST | 220X220X10.0SHS | 3.46 | 2.166 |
| 19 | ST | 220X220X10.0SHS | 3.46 | 2.166 |
| 20 | ST | 220X220X10.0SHS | 3.46 | 2.166 |
| 21 | ST | 240X120X8.0RHS | 0.29 | 0.118 |
| 22 | ST | 240X120X8.0RHS | 0.29 | 0.118 |
| 23 | ST | 240X120X8.0RHS | 0.29 | 0.118 |
| 24 | ST | 240X120X8.0RHS | 0.29 | 0.118 |
| 25 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 26 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 27 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 28 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 29 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 30 | ST | 240X120X8.0RHS | 3.36 | 1.378 |
| 31 | ST | 240X120X8.0RHS | 3.36 | 1.378 |
| 32 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 33 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 34 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 35 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 36 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 37 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 38 | ST | 240X120X8.0RHS | 3.36 | 1.378 |
| 39 | ST | 240X120X8.0RHS | 3.36 | 1.378 |
| 40 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 41 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 42 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 43 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 44 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 45 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 46 | ST | 240X120X8.0RHS | 3.36 | 1.378 |



| | | | | |
|---|---|---|---|---|
| 47 | ST | 240X120X8.0RHS | 3.36 | 1.378 |
| 48 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 49 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 50 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 51 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 52 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 53 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 54 | ST | 240X120X8.0RHS | 3.36 | 1.378 |

| | | | | |
|---|---|---|---|---|
| 55 | ST | 240X120X8.0RHS | 3.36 | 1.378 |
| 56 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 57 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 58 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 59 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 60 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 61 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 62 | ST | 240X120X8.0RHS | 3.36 | 1.378 |
| 63 | ST | 240X120X8.0RHS | 3.36 | 1.378 |
| 64 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 65 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 66 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 67 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 68 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 69 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 70 | ST | 240X120X8.0RHS | 3.36 | 1.378 |
| 71 | ST | 240X120X8.0RHS | 3.36 | 1.378 |
| 72 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 73 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 74 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 75 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 76 | ST | 220X220X10.0SHS | 3.75 | 2.346 |
| 77 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 78 | ST | 240X120X8.0RHS | 3.36 | 1.378 |
| 79 | ST | 240X120X8.0RHS | 3.36 | 1.378 |
| 80 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 89 | ST | 240X120X8.0RHS | 1.00 | 0.410 |
| 90 | ST | 240X120X8.0RHS | 1.00 | 0.410 |
| 91 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 92 | ST | 240X120X8.0RHS | 1.00 | 0.410 |
| 93 | ST | 240X120X8.0RHS | 1.00 | 0.410 |
| 94 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 95 | ST | 240X120X8.0RHS | 1.00 | 0.410 |
| 96 | ST | 240X120X8.0RHS | 1.00 | 0.410 |
| 97 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 98 | ST | 240X120X8.0RHS | 1.00 | 0.410 |
| 99 | ST | 240X120X8.0RHS | 1.00 | 0.410 |
| 100 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 101 | ST | 240X120X8.0RHS | 1.00 | 0.410 |
| 102 | ST | 240X120X8.0RHS | 1.00 | 0.410 |
| 103 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 104 | ST | 240X120X8.0RHS | 1.00 | 0.410 |
| 105 | ST | 240X120X8.0RHS | 1.00 | 0.410 |
| 106 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 107 | ST | 240X120X8.0RHS | 1.00 | 0.410 |
| 108 | ST | 240X120X8.0RHS | 1.00 | 0.410 |

| | | | | |
|---|---|---|---|---|
| 109 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 110 | ST | 240X120X8.0RHS | 1.00 | 0.410 |



| | | | | |
|---|---|---|---|---|
| 111 | ST | 240X120X8.0RHS | 1.00 | 0.410 |
| 112 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 113 | ST | 220X220X10.0SHS | 1.20 | 0.751 |
| 114 | ST | 220X220X10.0SHS | 1.20 | 0.751 |
| 115 | ST | 220X220X10.0SHS | 1.20 | 0.751 |
| 116 | ST | 220X220X10.0SHS | 1.20 | 0.751 |
| 117 | ST | 240X120X8.0RHS | 1.12 | 0.459 |
| 118 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 119 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 120 | ST | 240X120X8.0RHS | 1.12 | 0.459 |
| 121 | ST | 240X120X8.0RHS | 1.12 | 0.459 |
| 122 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 123 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 124 | ST | 240X120X8.0RHS | 1.12 | 0.459 |
| 125 | ST | 220X220X10.0SHS | 2.55 | 1.595 |
| 126 | ST | 220X220X10.0SHS | 2.55 | 1.595 |
| 127 | ST | 220X220X10.0SHS | 2.55 | 1.595 |
| 128 | ST | 220X220X10.0SHS | 2.55 | 1.595 |
| 129 | ST | 240X120X8.0RHS | 1.00 | 0.410 |
| 130 | ST | 240X120X8.0RHS | 1.00 | 0.410 |
| 131 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 132 | ST | 240X120X8.0RHS | 1.12 | 0.459 |
| 133 | ST | 240X120X8.0RHS | 1.12 | 0.459 |
| 134 | ST | 240X120X8.0RHS | 1.12 | 0.459 |
| 135 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 136 | ST | 240X120X8.0RHS | 1.12 | 0.459 |
| 137 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 138 | ST | 240X120X8.0RHS | 1.00 | 0.410 |
| 139 | ST | 240X120X8.0RHS | 1.00 | 0.410 |
| 140 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 141 | ST | 240X120X8.0RHS | 1.12 | 0.459 |
| 142 | ST | 240X120X8.0RHS | 1.12 | 0.459 |
| 143 | ST | 240X120X8.0RHS | 1.12 | 0.459 |
| 144 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 145 | ST | 240X120X8.0RHS | 1.12 | 0.459 |
| 146 | ST | 240X120X8.0RHS | 2.76 | 1.132 |
| 147 | ST | 220X220X10.0SHS | 0.29 | 0.180 |
| 148 | ST | 220X220X10.0SHS | 0.29 | 0.180 |
| 149 | ST | 220X220X10.0SHS | 0.29 | 0.180 |
| 150 | ST | 220X220X10.0SHS | 0.29 | 0.180 |
| 151 | ST | 240X120X8.0RHS | 2.19 | 0.897 |
| 152 | ST | 240X120X8.0RHS | 2.19 | 0.897 |

| | | | | |
|---|---|---|---|---|
| 153 | ST | 240X120X8.0RHS | 0.29 | 0.118 |
| 154 | ST | 240X120X8.0RHS | 0.29 | 0.118 |
| 155 | ST | 240X120X8.0RHS | 2.79 | 1.143 |
| 156 | ST | 240X120X8.0RHS | 2.79 | 1.143 |
| 157 | ST | 240X120X8.0RHS | 0.29 | 0.118 |
| 158 | ST | 240X120X8.0RHS | 0.29 | 0.118 |
| 167 | ST | 240X120X8.0RHS | 0.29 | 0.118 |
| 169 | ST | 220X220X10.0SHS | 0.29 | 0.180 |
| 170 | ST | 240X120X8.0RHS | 0.29 | 0.118 |
| 172 | ST | 220X220X10.0SHS | 0.29 | 0.180 |
| 173 | ST | 240X120X8.0RHS | 2.19 | 0.897 |
| 175 | ST | 240X120X8.0RHS | 2.79 | 1.143 |
| 177 | ST | 240X120X8.0RHS | 2.19 | 0.897 |
| 179 | ST | 220X220X10.0SHS | 0.29 | 0.180 |



| | | | | |
|---|---|---|---|---|
| 181 | ST | 240X120X8.0RHS | 0.29 | 0.118 |
| 183 | ST | 220X220X10.0SHS | 0.29 | 0.180 |
| 184 | ST | 240X120X8.0RHS | 2.79 | 1.143 |
| 186 | ST | 240X120X8.0RHS | 0.29 | 0.118 |

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TOTAL = 173.103

********** END OF DATA FROM INTERNAL STORAGE **********

232. LOAD LIST 16
233. START CONCRETE DESIGN

_CONCRETE DESIGN_

234. CODE INDIAN
235. FC 25000 MEMB 1 3 5 7
236. FYMAIN 500000 MEMB 1 3 5 7
237. FYSEC 500000 MEMB 1 3 5 7
238. DESIGN COLUMN 1 3 5 7



_COLUMN_

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IS 456 - 2000 C O L U M N D E S I G N R E S U L T S

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IS-456 L I M I T S T A T E D E S I G N
C O L U M N N O. 1 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe500 (Sec.)

LENGTH: 2275.0 mm CROSS SECTION: 600.0 mm X 600.0 mm COVER: 40.0 mm

** GUIDING LOAD CASE: 16 END JOINT: 5 SHORT COLUMN

REQD. STEEL AREA : 243.63 Sq.mm.
REQD. CONCRETE AREA: 30453.77 Sq.mm.
MAIN REINFORCEMENT : Provide 8 - 12 dia. (0.25%, 904.78 Sq.mm.)
(Equally distributed)
TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 190 mm c/c

SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)
---
Puz : 4138.62 Muz1 : 119.49 Muy1 : 119.49

INTERACTION RATIO: 0.14 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)
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WORST LOAD CASE: 16
END JOINT: 5 Puz : 4379.11 Muz : 190.27 Muy : 190.27 IR: 0.09

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IS-456 L I M I T S T A T E D E S I G N
C O L U M N N O. 3 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe500 (Sec.)

LENGTH: 2275.0 mm CROSS SECTION: 600.0 mm X 600.0 mm COVER: 40.0 mm

** GUIDING LOAD CASE: 16 END JOINT: 6 SHORT COLUMN

REQD. STEEL AREA : 243.63 Sq.mm.
REQD. CONCRETE AREA: 30453.77 Sq.mm.
MAIN REINFORCEMENT : Provide 8 - 12 dia. (0.25%, 904.78 Sq.mm.)
(Equally distributed)
TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 190 mm c/c

SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)
---
Puz : 4138.62 Muz1 : 119.49 Muy1 : 119.49

INTERACTION RATIO: 0.14 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)
---
WORST LOAD CASE: 16
END JOINT: 6 Puz : 4379.11 Muz : 190.27 Muy : 190.27 IR: 0.09

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IS-456 L I M I T S T A T E D E S I G N
C O L U M N N O. 5 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe500 (Sec.)

LENGTH: 2275.0 mm CROSS SECTION: 600.0 mm X 600.0 mm COVER: 40.0 mm

** GUIDING LOAD CASE: 16 END JOINT: 7 SHORT COLUMN



REQD. STEEL AREA : 111.18 Sq.mm.
REQD. CONCRETE AREA: 13897.12 Sq.mm.
MAIN REINFORCEMENT : Provide 8 - 12 dia. (0.25%, 904.78 Sq.mm.)
(Equally distributed)
TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 190 mm c/c

SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)

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Puz : 4090.44 Muz1 : 57.68 Muy1 : 57.68

INTERACTION RATIO: 0.13 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)
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WORST LOAD CASE: 16
END JOINT: 3 Puz : 4379.11 Muz : 138.71 Muy : 138.71 IR: 0.06

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IS-456 L I M I T S T A T E D E S I G N
C O L U M N N O. 7 D E S I G N R E S U L T S

M25 Fe500 (Main) Fe500 (Sec.)

LENGTH: 2275.0 mm CROSS SECTION: 600.0 mm X 600.0 mm COVER: 40.0 mm

** GUIDING LOAD CASE: 16 END JOINT: 8 SHORT COLUMN

REQD. STEEL AREA : 111.18 Sq.mm.
REQD. CONCRETE AREA: 13897.12 Sq.mm.
MAIN REINFORCEMENT : Provide 8 - 12 dia. (0.25%, 904.78 Sq.mm.)
(Equally distributed)
TIE REINFORCEMENT : Provide 8 mm dia. rectangular ties @ 190 mm c/c

SECTION CAPACITY BASED ON REINFORCEMENT REQUIRED (KNS-MET)
---
Puz : 4090.44 Muz1 : 57.68 Muy1 : 57.68

INTERACTION RATIO: 0.13 (as per Cl. 39.6, IS456:2000)

SECTION CAPACITY BASED ON REINFORCEMENT PROVIDED (KNS-MET)
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WORST LOAD CASE: 16
END JOINT: 4 Puz : 4379.11 Muz : 138.71 Muy : 138.71 IR: 0.06

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**********END OF COLUMN DESIGN RESULTS**********

239. END CONCRETE DESIGN
240. PERFORM ANALYSIS

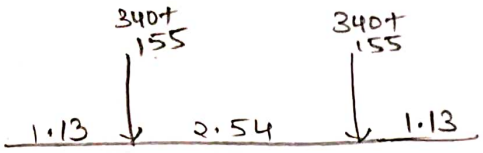
** ALL CASES BEING MADE ACTIVE BEFORE RE-ANALYSIS. **

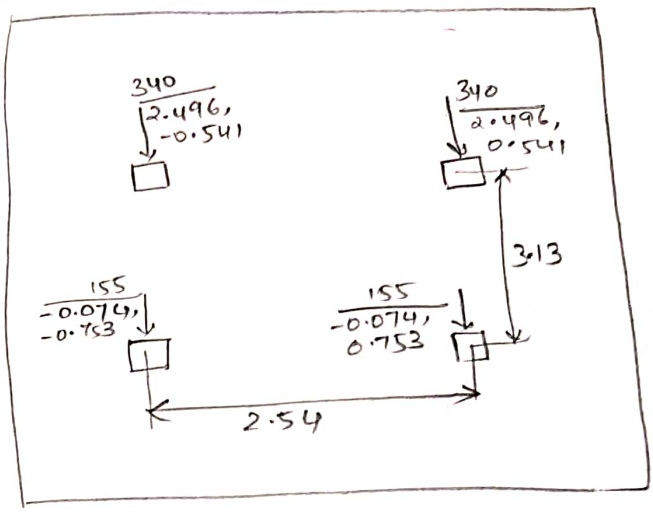
241. FINISH

********** END OF THE STAAD.Pro RUN **********

**** DATE= DEC 11,2023 TIME= 10:31:31 ****

# Gandhi hospital




$(495 \times 1.13) + (495 \times 3.67)$

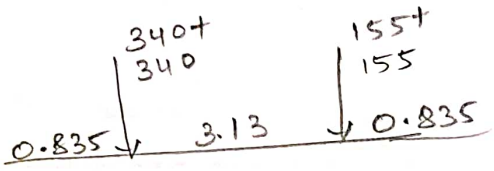
$= 559.35 + 1816.65$

$= 2376/990 = 2.4\ m$

$c/2 = \frac{4.8}{2} = 2.4$

$e = \frac{c}{2} - D = 2.4 - 2.4 = 0$

$e = 0.$




$(680 \times 0.835) + (310 \times 3.965)$

$= 567.8 + 1229.15$

$= 1796.95/990 = 1.815$

$c/2 = \frac{4.8}{2} = 2.4$

$e = \frac{c}{2} - D = 2.4 - 1.815 = 0.585$

self weight $= 4.8 \times 4.8 \times 0.475 \times 25 = 273.6\ kN$

OverBurden $= [(4.8 \times 4.8) - 4(0.6 \times 0.6)] \times 1.175 \times 18$

$= [23.04 - 1.44] \times 1.175 \times 18$

$= 21.6 \times 1.175 \times 18 = 456.84$

Total dead load $= 273.6 + 456.84 = 730.44$

Total load $= 990 + 730.44 = 1720.44 \simeq 1721$

$[Pe]_x = 1721 \times 0 = 0$

$M_x = 4.844 + 0 = 4.844$

$[Pe]_z = 1721 \times 0.585 = 1006.785$

$M_z = 0 + 1006.785 = 1006.785$

$$\frac{P}{A} + \frac{6M_x}{z} + \frac{6M_z}{z}$$

$$= \frac{1721}{4.8 \times 4.8} + \frac{6 \times 4.844}{4.8 \times 4.8^2} + \frac{6 \times 1006.785}{4.8^2 \times 4.8}$$

$$= 74.69 + 0.262 + 54.633$$

$$= 129.585 \text{ kN} = 12.96 \text{ T}$$

$$M = \frac{wl^2}{2} = \frac{12.96 \times 1.02^2}{2} = 6.742$$

$$\text{Depth } (d) = \sqrt{\frac{6.742 \times 1.5 \times 10^7}{0.135 \times 25 \times 1000}}$$

$$= 173.10 \simeq 175 \text{ mm.}$$