

STAAD SPACE  
START JOB INFORMATION  
ENGINEER DATE 01-09-2018  
JOB COMMENT Applied loads on frames:  
JOB COMMENT Dead load = Self weight + 15kg/m2  
JOB COMMENT Roof live load = 60kg/m2  
JOB COMMENT Wind speed = 136km/hr  
JOB COMMENT \*\*\*\*\*  
JOB COMMENT Applied loads on mezzanine:  
JOB COMMENT Dead load = Self weight + 250kg/m2  
JOB COMMENT Live load = 500kg/m2  
ENGINEER NAME OMB  
ENGINEER NAME OMB  
JOB NAME Sponge Factory  
END JOB INFORMATION  
INPUT WIDTH 79  
UNIT METER KN  
JOINT COORDINATES  
1 0 0 0; 2 0 0 5.2; 3 0 0 9.7; 4 0 0 16.2; 5 0 0 22.7; 6 0 0 29.2; 7 0 0 35.7;  
8 0 0 42.2; 9 0 0 48.7; 10 0 0 55.2; 11 0 0 61.7; 12 0 0 68.2; 13 0 0 74.7;  
14 0 0 80.9; 15 0 3 35.7; 16 0 3 48.7; 17 0 3 80.9; 18 0 3.65 0; 19 0 3.65 5.2;  
20 0 3.65 9.7; 21 0 6 5.2; 22 0 6 9.7; 23 0 6 13.2; 24 0 6 16.2; 25 0 6 22.7;  
26 0 6 29.2; 27 0 6 35.7; 28 0 6 42.2; 29 0 6 48.7; 30 0 6 55.2; 31 0 6 57.5;  
32 0 6 61.7; 33 0 6 68.2; 34 0 6 74.7; 35 0 6 77.65; 36 0 6 80.9; 37 0 7.3 0;  
38 0 7.3 5.2; 39 0 7.3 9.7; 40 0 10.5 5.2; 41 0 10.5 9.7; 42 0 10.5 13.2;  
43 0 10.5 16.2; 44 0 10.5 22.7; 45 0 10.5 29.2; 46 0 10.5 35.7; 47 0 10.5 42.2;  
48 0 10.5 48.7; 49 0 10.5 55.2; 50 0 10.5 57.5; 51 0 10.5 61.7; 52 0 10.5 68.2;  
53 0 10.5 74.7; 54 0 10.5 77.65; 55 0 10.5 80.9; 56 0 10.95 0; 57 0 10.95 5.2;  
58 0 10.95 9.7; 59 0 14.295 0; 60 0 14.295 5.2; 61 0 14.295 9.7;  
62 0 14.295 16.2; 63 0 14.295 22.7; 64 0 14.295 29.2; 65 0 14.295 35.7;  
66 0 14.295 42.2; 67 0 14.295 48.7; 68 0 14.295 55.2; 69 0 14.295 61.7;  
70 0 14.295 68.2; 71 0 14.295 74.7; 72 0 14.295 80.9; 73 0.84 3.65 0;  
74 0.84 3.65 5.2; 75 0.84 3.65 9.7; 76 0.84 6 9.7; 77 0.84 6 13.2;  
78 0.84 6 16.2; 79 0.84 6 22.7; 80 0.84 6 29.2; 81 0.84 6 35.7; 82 0.84 6 42.2;  
83 0.84 6 48.7; 84 0.84 6 55.2; 85 0.84 6 57.5; 86 0.84 6 61.7; 87 0.84 6 68.2;  
88 0.84 6 74.7; 89 0.84 6 77.65; 90 0.84 6 80.9; 91 0.84 7.3 0;  
92 0.84 7.3 5.2; 93 0.84 7.3 9.7; 94 0.84 10.5 9.7; 95 0.84 10.5 13.2;  
96 0.84 10.5 16.2; 97 0.84 10.5 22.7; 98 0.84 10.5 29.2; 99 0.84 10.5 35.7;  
100 0.84 10.5 42.2; 101 0.84 10.5 48.7; 102 0.84 10.5 55.2; 103 0.84 10.5 57.5;  
104 0.84 10.5 61.7; 105 0.84 10.5 68.2; 106 0.84 10.5 74.7;  
107 0.84 10.5 77.65; 108 0.84 10.5 80.9; 109 0.84 10.95 0; 110 0.84 10.95 5.2;  
111 0.84 10.95 9.7; 112 1.5 14.445 0; 113 1.5 14.445 5.2; 114 1.5 14.445 9.7;  
115 1.5 14.445 16.2; 116 1.5 14.445 22.7; 117 1.5 14.445 29.2;  
118 1.5 14.445 35.7; 119 1.5 14.445 42.2; 120 1.5 14.445 48.7;  
121 1.5 14.445 55.2; 122 1.5 14.445 61.7; 123 1.5 14.445 68.2;  
124 1.5 14.445 74.7; 125 1.5 14.445 80.9; 126 1.68 3.65 0; 127 1.68 3.65 5.2;  
128 1.68 3.65 9.7; 129 1.68 6 9.7; 130 1.68 6 13.2; 131 1.68 6 16.2;  
132 1.68 6 22.7; 133 1.68 6 29.2; 134 1.68 6 35.7; 135 1.68 6 42.2;  
136 1.68 6 48.7; 137 1.68 6 55.2; 138 1.68 6 57.5; 139 1.68 6 61.7;  
140 1.68 6 68.2; 141 1.68 6 74.7; 142 1.68 6 77.65; 143 1.68 6 80.9;

144 1.68 7.3 0; 145 1.68 7.3 5.2; 146 1.68 7.3 9.7; 147 1.68 10.5 9.7;  
148 1.68 10.5 13.2; 149 1.68 10.5 16.2; 150 1.68 10.5 22.7; 151 1.68 10.5 29.2;  
152 1.68 10.5 35.7; 153 1.68 10.5 42.2; 154 1.68 10.5 48.7; 155 1.68 10.5 55.2;  
156 1.68 10.5 57.5; 157 1.68 10.5 61.7; 158 1.68 10.5 68.2; 159 1.68 10.5 74.7;  
160 1.68 10.5 77.65; 161 1.68 10.5 80.9; 162 1.68 10.95 0; 163 1.68 10.95 5.2;  
164 1.68 10.95 9.7; 165 1.75 14.47 0; 166 1.75 14.47 29.2; 167 1.75 14.47 42.2;  
168 1.75 14.47 74.7; 169 2.52 3.65 0; 170 2.52 3.65 5.2; 171 2.52 3.65 9.7;  
172 2.52 6 9.7; 173 2.52 6 13.2; 174 2.52 6 16.2; 175 2.52 6 22.7;  
176 2.52 6 29.2; 177 2.52 6 35.7; 178 2.52 6 42.2; 179 2.52 6 48.7;  
180 2.52 6 55.2; 181 2.52 6 57.5; 182 2.52 6 61.7; 183 2.52 6 68.2;  
184 2.52 6 74.7; 185 2.52 6 77.65; 186 2.52 6 80.9; 187 2.52 7.3 0;  
188 2.52 7.3 5.2; 189 2.52 7.3 9.7; 190 2.52 10.5 9.7; 191 2.52 10.5 13.2;  
192 2.52 10.5 16.2; 193 2.52 10.5 22.7; 194 2.52 10.5 29.2; 195 2.52 10.5 35.7;  
196 2.52 10.5 42.2; 197 2.52 10.5 48.7; 198 2.52 10.5 55.2; 199 2.52 10.5 57.5;  
200 2.52 10.5 61.7; 201 2.52 10.5 68.2; 202 2.52 10.5 74.7;  
203 2.52 10.5 77.65; 204 2.52 10.5 80.9; 205 2.52 10.95 0; 206 2.52 10.95 5.2;  
207 2.52 10.95 9.7; 208 3.36 3.65 0; 209 3.36 3.65 5.2; 210 3.36 3.65 9.7;  
211 3.36 6 9.7; 212 3.36 6 13.2; 213 3.36 6 16.2; 214 3.36 6 22.7;  
215 3.36 6 29.2; 216 3.36 6 35.7; 217 3.36 6 42.2; 218 3.36 6 48.7;  
219 3.36 6 55.2; 220 3.36 6 57.5; 221 3.36 6 61.7; 222 3.36 6 68.2;  
223 3.36 6 74.7; 224 3.36 6 77.65; 225 3.36 6 80.9; 226 3.36 7.3 0;  
227 3.36 7.3 5.2; 228 3.36 7.3 9.7; 229 3.36 10.5 9.7; 230 3.36 10.5 13.2;  
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235 3.36 10.5 42.2; 236 3.36 10.5 48.7; 237 3.36 10.5 55.2; 238 3.36 10.5 57.5;  
239 3.36 10.5 61.7; 240 3.36 10.5 68.2; 241 3.36 10.5 74.7;  
242 3.36 10.5 77.65; 243 3.36 10.5 80.9; 244 3.36 10.95 0; 245 3.36 10.95 5.2;  
246 3.36 10.95 9.7; 247 3.5 14.645 5.2; 248 3.5 14.645 35.7;  
249 3.5 14.645 48.7; 250 3.5 14.645 80.9; 251 4.2 3.65 0; 252 4.2 3.65 5.2;  
253 4.2 3.65 9.7; 254 4.2 6 9.7; 255 4.2 6 13.2; 256 4.2 6 16.2;  
257 4.2 6 22.7; 258 4.2 6 29.2; 259 4.2 6 35.7; 260 4.2 6 42.2; 261 4.2 6 48.7;  
262 4.2 6 55.2; 263 4.2 6 61.7; 264 4.2 6 68.2; 265 4.2 6 74.7;  
266 4.2 6 77.65; 267 4.2 6 80.9; 268 4.2 7.3 0; 269 4.2 7.3 5.2;  
270 4.2 7.3 9.7; 271 4.2 10.5 9.7; 272 4.2 10.5 13.2; 273 4.2 10.5 16.2;  
274 4.2 10.5 22.7; 275 4.2 10.5 29.2; 276 4.2 10.5 35.7; 277 4.2 10.5 42.2;  
278 4.2 10.5 48.7; 279 4.2 10.5 55.2; 280 4.2 10.5 61.7; 281 4.2 10.5 68.2;  
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290 5.04 0 9.7; 291 5.04 3.65 0; 292 5.04 3.65 5.2; 293 5.04 3.65 9.7;  
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302 5.04 6 48.7; 303 5.04 6 55.2; 304 5.04 6 61.7; 305 5.04 6 68.2;  
306 5.04 6 74.7; 307 5.04 6 77.65; 308 5.04 6 80.9; 309 5.04 7.3 0;  
310 5.04 7.3 5.2; 311 5.04 7.3 9.7; 312 5.04 10.5 5.2; 313 5.04 10.5 9.7;  
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322 5.04 10.5 61.7; 323 5.04 10.5 68.2; 324 5.04 10.5 74.7;  
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333 5.25 14.82 74.7; 334 5.88 3.65 0; 335 5.88 3.65 5.2; 336 5.88 3.65 9.7;  
337 5.88 6 9.7; 338 5.88 6 16.2; 339 5.88 6 22.7; 340 5.88 6 29.2;

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377 6.72 6 55.2; 378 6.72 6 61.7; 379 6.72 6 68.2; 380 6.72 6 74.7;  
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393 6.72 10.5 61.7; 394 6.72 10.5 68.2; 395 6.72 10.5 74.7; 396 6.72 10.5 80.9;  
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401 7 14.995 35.7; 402 7 14.995 48.7; 403 7 14.995 80.9; 404 7.56 3.65 0;  
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413 7.56 6 48.7; 414 7.56 6 55.2; 415 7.56 6 61.7; 416 7.56 6 68.2;  
417 7.56 6 74.7; 418 7.56 6 80.9; 419 7.56 7.3 0; 420 7.56 7.3 5.2;  
421 7.56 7.3 9.7; 422 7.56 10.5 9.7; 423 7.56 10.5 16.2; 424 7.56 10.5 22.7;  
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596 10.5 15.345 55.2; 597 10.5 15.345 61.7; 598 10.5 15.345 68.2;  
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649 11.76 7.3 0; 650 11.76 7.3 5.2; 651 11.76 7.3 9.7; 652 11.76 10.5 9.7;  
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656 11.76 10.5 35.7; 657 11.76 10.5 42.2; 658 11.76 10.5 48.7;  
659 11.76 10.5 55.2; 660 11.76 10.5 61.7; 661 11.76 10.5 68.2;  
662 11.76 10.5 74.7; 663 11.76 10.5 80.9; 664 11.76 10.95 0;  
665 11.76 10.95 5.2; 666 11.76 10.95 9.7; 667 12 15.195 0; 668 12 15.195 5.2;  
669 12 15.195 9.7; 670 12 15.195 16.2; 671 12 15.195 22.7; 672 12 15.195 29.2;  
673 12 15.195 35.7; 674 12 15.195 42.2; 675 12 15.195 48.7; 676 12 15.195 55.2;  
677 12 15.195 61.7; 678 12 15.195 68.2; 679 12 15.195 74.7; 680 12 15.195 80.9;  
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684 12.25 15.17 74.7; 685 12.6 3.65 0; 686 12.6 3.65 5.2; 687 12.6 3.65 9.7;  
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696 12.6 6 61.7; 697 12.6 6 68.2; 698 12.6 6 74.7; 699 12.6 6 80.9;  
700 12.6 7.3 0; 701 12.6 7.3 5.2; 702 12.6 7.3 9.7; 703 12.6 10.5 9.7;  
704 12.6 10.5 16.2; 705 12.6 10.5 22.7; 706 12.6 10.5 29.2; 707 12.6 10.5 35.7;  
708 12.6 10.5 42.2; 709 12.6 10.5 48.7; 710 12.6 10.5 55.2; 711 12.6 10.5 61.7;  
712 12.6 10.5 68.2; 713 12.6 10.5 74.7; 714 12.6 10.5 80.9; 715 12.6 10.95 0;  
716 12.6 10.95 5.2; 717 12.6 10.95 9.7; 718 13.44 3.65 0; 719 13.44 3.65 5.2;  
720 13.44 3.65 9.7; 721 13.44 6 9.7; 722 13.44 6 16.2; 723 13.44 6 22.7;

724 13.44 6 29.2; 725 13.44 6 35.7; 726 13.44 6 42.2; 727 13.44 6 48.7;  
728 13.44 6 55.2; 729 13.44 6 61.7; 730 13.44 6 68.2; 731 13.44 6 74.7;  
732 13.44 6 80.9; 733 13.44 7.3 0; 734 13.44 7.3 5.2; 735 13.44 7.3 9.7;  
736 13.44 10.5 9.7; 737 13.44 10.5 16.2; 738 13.44 10.5 22.7;  
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1950 1114 1115;

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DEFINE MATERIAL START

ISOTROPIC STEEL

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POISSON 0.3

DENSITY 76.8195

ALPHA 1.2e-005

DAMP 0.03

TYPE STEEL

STRENGTH FY 235000 FU 400000 RY 1.5 RT 1.2

END DEFINE MATERIAL

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MEMBER PROPERTY AMERICAN

197 TO 203 205 206 215 TO 221 223 224 268 TO 274 276 277 286 TO 292 294 295 -  
343 TO 349 351 352 361 TO 367 369 370 416 TO 424 433 TO 441 482 TO 490 499 -  
500 TO 507 570 TO 578 585 TO 593 632 TO 639 647 TO 654 694 TO 701 709 TO 716 -  
756 TO 763 771 TO 778 818 TO 825 833 TO 840 1138 TO 1145 1153 TO 1160 1200 -  
1201 TO 1207 1215 TO 1222 1265 TO 1272 1280 TO 1287 1343 TO 1350 1358 TO 1365 -  
1408 TO 1415 1423 TO 1430 1479 TO 1486 1494 TO 1501 1544 TO 1551 -  
1559 TO 1566 1609 TO 1616 1624 TO 1631 1678 TO 1685 1693 TO 1700 -  
1743 TO 1751 1758 TO 1766 TABLE ST W21X62

207 209 225 227 278 280 296 298 353 355 371 373 425 427 442 444 491 493 508 -  
510 579 580 594 595 640 TO 642 655 TO 657 702 TO 704 717 TO 719 764 TO 766 -  
779 TO 781 826 TO 828 841 TO 843 1146 TO 1148 1161 TO 1163 1208 TO 1210 1223 -  
1224 TO 1225 1273 TO 1275 1288 TO 1290 1351 TO 1353 1366 TO 1368 1416 TO 1418 -  
1431 TO 1433 1487 TO 1489 1502 TO 1504 1552 TO 1554 1567 TO 1569 -  
1617 TO 1619 1632 TO 1634 1686 TO 1688 1701 TO 1703 1752 1753 1767 -  
1768 TABLE ST W21X62

MEMBER PROPERTY EUROPEAN

2 4 6 11 TO 18 22 24 26 49 TO 51 53 54 56 TO 60 62 974 TO 984 992 TO 1002 -  
1852 1854 1856 1861 TO 1868 1872 1874 1876 1896 TO 1898 1900 1901 -  
1903 TO 1907 1909 TABLE ST HD360X134

MEMBER PROPERTY GERMAN

31 32 39 40 43 44 67 68 75 76 79 80 85 TO 87 89 90 92 TO 96 98 99 101 102 -  
111 119 123 129 137 141 196 204 208 214 222 226 267 275 279 285 293 297 342 -  
350 354 360 368 372 386 387 400 401 415 426 432 443 481 492 498 509 521 522 -  
532 533 540 541 551 552 598 628 TO 631 643 TO 646 658 TO 660 690 TO 693 705 -  
706 TO 708 720 TO 722 752 TO 755 767 TO 770 782 TO 784 814 TO 817 829 TO 832 -

844 TO 846 880 TO 883 895 TO 898 910 TO 912 985 TO 991 1003 TO 1006 1068 -  
1069 TO 1071 1083 TO 1086 1098 TO 1100 1134 TO 1137 1149 TO 1152 1164 TO 1166 -  
1196 1198 1199 1211 TO 1214 1226 TO 1228 1293 1929 TO 1931 1933 1934 1936 -  
1937 TO 1940 1942 1943 1945 1946 TABLE ST IPE400

7 9 10 27 TO 29 45 46 63 TO 65 81 82 514 516 518 TO 520 534 535 537 TO 539 -  
553 554 1298 1300 1303 TO 1305 1317 1318 1321 TO 1323 1335 1336 1857 1859 -  
1860 1877 TO 1879 1892 1893 1910 TO 1912 1925 1926 TABLE ST HEA300

145 192 TO 195 210 TO 213 228 TO 230 263 TO 266 281 TO 284 299 TO 301 338 -  
339 TO 341 356 TO 359 374 TO 376 411 TO 414 428 TO 431 445 TO 447 -

513 TABLE ST IPE300

MEMBER PROPERTY JAPANESE

231 TO 234 302 TO 305 407 TO 410 556 TO 565 686 TO 689 785 TO 788 847 TO 850 -  
1130 TO 1133 1192 TO 1195 1294 TO 1297 1371 1404 1406 1407 1419 TO 1422 1434 -  
1435 TO 1446 1475 TO 1478 1490 TO 1493 1505 TO 1507 1540 TO 1543 1555 TO 1558 -  
1570 TO 1576 1605 TO 1608 1620 TO 1623 1635 TO 1637 1670 TO 1677 -  
1689 TO 1692 1704 TO 1706 1735 TO 1742 1754 TO 1757 1769 TO 1771 -

1850 TABLE ST H350X175X7

MEMBER PROPERTY JAPANESE

130 TO 136 138 TO 140 142 1837 TO 1846 -  
1847 TAPERED 0.8894 0.01016 0.5334 0.209 0.0155 0.369 0.018  
112 TO 118 120 TO 122 124 1822 TO 1831 -  
1832 TAPERED 1.0668 0.01016 0.5334 0.209 0.0155 0.209 0.0155  
146 TO 159 913 TO 926 1054 TO 1067 1339 1341 1342 1354 TO 1357 1369 1370 1804 -  
1805 TO 1821 1833 TO 1836 1848 -  
1849 TAPERED 0.7 0.007 0.35 0.175 0.011 0.175 0.011

MEMBER PROPERTY JAPANESE

107 TO 110 125 TO 128 143 144 477 TO 480 494 TO 497 511 -  
512 TAPERED 0.6 0.0071 0.3 0.15 0.0107 0.15 0.0107  
566 TO 569 581 TO 584 596 597 1261 1263 1264 1276 TO 1279 1291 -  
1292 TAPERED 0.8 0.0086 0.4 0.18 0.0135 0.18 0.0135  
884 TO 894 1072 TO 1082 TAPERED 0.889 0.01016 0.5334 0.209 0.0155 0.209 0.0155  
952 TO 962 1007 TO 1017 TAPERED 1.0668 0.01016 0.889 0.209 0.0155 0.209 0.0155  
899 TO 909 1087 TO 1096 -  
1097 TAPERED 0.770733 0.01016 0.5334 0.209 0.0155 0.369 0.018  
963 TO 973 1018 TO 1027 -  
1028 TAPERED 0.8894 0.01016 0.770733 0.209 0.0155 0.369 0.018

UNIT MMS KN

MEMBER PROPERTY GERMAN

33 TO 38 41 69 TO 74 77 163 TO 170 176 TO 183 238 TO 245 251 TO 258 -  
309 TO 316 322 TO 329 380 TO 385 388 394 TO 399 402 450 TO 457 462 TO 469 -  
523 TO 530 542 TO 549 601 TO 608 613 TO 620 663 TO 670 675 TO 682 -  
725 TO 732 737 TO 744 791 TO 798 803 TO 810 853 TO 860 865 TO 872 -  
929 TO 936 941 TO 948 1031 TO 1038 1043 TO 1050 1107 TO 1114 1119 TO 1126 -  
1169 TO 1176 1181 TO 1188 1236 TO 1243 1249 TO 1256 1307 TO 1314 -  
1325 TO 1332 1379 TO 1385 1392 TO 1398 1450 TO 1456 1463 TO 1469 -  
1515 TO 1521 1528 TO 1534 1580 TO 1586 1593 TO 1599 1645 TO 1651 -  
1658 TO 1664 1710 TO 1716 1723 TO 1729 1779 TO 1786 1792 TO 1799 -  
1882 TO 1889 1915 TO 1922 TABLE ST IPE200

1386 TABLE ST IPE200

19 20 42 47 48 78 83 84 160 TO 162 171 TO 175 184 TO 187 235 TO 237 -

246 TO 250 259 TO 262 306 TO 308 317 TO 321 330 TO 333 377 TO 379 -  
389 TO 393 403 TO 406 448 449 458 TO 461 470 TO 472 517 531 536 550 555 599 -  
600 609 TO 612 621 TO 623 661 662 671 TO 674 683 TO 685 723 724 733 TO 736 -  
745 TO 747 789 790 799 TO 802 811 TO 813 851 852 861 TO 864 873 TO 875 927 -  
928 937 TO 940 949 TO 951 1029 1030 1039 TO 1042 1051 TO 1053 1105 1106 1115 -  
1116 TO 1118 1127 TO 1129 1167 1168 1177 TO 1180 1189 TO 1191 1233 TO 1235 -  
1244 TO 1248 1257 TO 1260 1301 1302 1306 1315 1316 1319 1320 1324 1333 1334 -  
1337 1338 1376 TO 1378 1387 TO 1391 1399 TO 1403 1447 TO 1449 1457 TO 1462 -  
1470 TO 1474 1512 TO 1514 1522 TO 1527 1535 TO 1539 1577 TO 1579 -  
1587 TO 1592 1600 TO 1604 1642 TO 1644 1652 TO 1657 1665 TO 1669 -  
1707 TO 1709 1717 TO 1722 1730 TO 1734 1776 TO 1778 1787 TO 1791 -  
1800 TO 1803 1869 1870 1881 1890 1891 1894 1895 1914 1923 1924 1927 -

1928 TABLE ST IPE200

UNIT METER KN

MEMBER PROPERTY EUROPEAN

1 3 5 8 21 23 25 30 52 55 61 66 88 91 97 100 103 TO 106 188 TO 191 -  
334 TO 337 473 TO 476 624 TO 627 748 TO 751 876 TO 879 1101 TO 1104 1229 -  
1230 TO 1232 1372 TO 1375 1508 TO 1511 1638 TO 1641 1772 TO 1775 1851 1853 -  
1855 1858 1871 1873 1875 1880 1899 1902 1908 1913 1932 1935 1941 1944 1947 -  
1948 TO 1950 TABLE ST 114.3X3.2CHS

MEMBER PROPERTY GERMAN

515 1299 TABLE TB HEA300 WP 0.2 TH 0.005 BW 0.2 BT 0.005

MEMBER PROPERTY JAPANESE

1405 TABLE TB H350X175X7 WP 0.15 TH 0.005 BW 0.15 BT 0.005

MEMBER PROPERTY

1340 TAPERED 0.71 0.007 0.36 0.175 0.016 0.175 0.016

MEMBER PROPERTY GERMAN

1197 TABLE TB IPE400 WP 0.15 TH 0.005 BW 0.15 BT 0.006

MEMBER PROPERTY

1262 TAPERED 0.81 0.0086 0.41 0.18 0.0185 0.18 0.0185

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CONSTANTS

MATERIAL STEEL ALL

SUPPORTS

1 TO 14 288 TO 290 554 TO 564 755 TO 757 1050 TO 1063 PINNED

UNIT MMS KN

MEMBER RELEASE

33 TO 39 41 69 TO 75 77 163 TO 170 176 TO 183 238 TO 245 251 TO 258 -  
309 TO 316 322 TO 329 380 TO 386 388 394 TO 400 402 450 TO 457 462 TO 469 -  
523 TO 530 542 TO 549 601 TO 608 613 TO 620 663 TO 670 675 TO 682 -  
725 TO 732 737 TO 744 791 TO 798 803 TO 810 853 TO 860 865 TO 872 -  
929 TO 936 941 TO 948 1031 TO 1038 1043 TO 1050 1107 TO 1114 1119 TO 1126 -  
1169 TO 1176 1181 TO 1188 1236 TO 1243 1249 TO 1256 1307 TO 1314 -  
1325 TO 1332 1379 TO 1386 1392 TO 1398 1450 TO 1456 1463 TO 1469 -  
1515 TO 1521 1528 TO 1534 1580 TO 1586 1593 TO 1599 1645 TO 1651 -  
1658 TO 1664 1710 TO 1716 1723 TO 1729 1779 TO 1786 1792 TO 1799 -  
1882 TO 1889 1915 TO 1922 START MY MZ

19 20 31 42 43 47 48 67 78 79 83 84 160 TO 162 171 TO 175 184 TO 187 -  
235 TO 237 246 TO 250 259 TO 262 306 TO 308 317 TO 321 330 TO 333 -  
377 TO 379 389 TO 393 403 TO 406 448 449 458 TO 461 470 TO 472 517 521 531 -



532 536 540 550 551 555 599 600 609 TO 612 621 TO 623 661 662 671 TO 674 -  
683 TO 685 723 724 733 TO 736 745 TO 747 789 790 799 TO 802 811 TO 813 851 -  
852 861 TO 864 873 TO 875 927 928 937 TO 940 949 TO 951 1029 1030 -  
1039 TO 1042 1051 TO 1053 1105 1106 1115 TO 1118 1127 TO 1129 1167 1168 1177 -  
1178 TO 1180 1189 TO 1191 1233 TO 1235 1244 TO 1248 1257 TO 1260 1301 1302 -  
1306 1315 1316 1319 1320 1324 1333 1334 1337 1338 1376 TO 1378 1387 TO 1391 -  
1399 TO 1403 1447 TO 1449 1457 TO 1462 1470 TO 1474 1512 TO 1514 -  
1522 TO 1527 1535 TO 1539 1577 TO 1579 1587 TO 1592 1600 TO 1604 -  
1642 TO 1644 1652 TO 1657 1665 TO 1669 1707 TO 1709 1717 TO 1722 -  
1730 TO 1734 1776 TO 1778 1787 TO 1791 1800 TO 1803 1869 1870 1881 1890 1891 -  
1894 1895 1914 1923 1924 1927 1928 START MY MZ  
33 TO 38 41 69 TO 74 77 163 TO 170 176 TO 183 238 TO 245 251 TO 258 -  
309 TO 316 322 TO 329 380 TO 385 388 394 TO 399 402 450 TO 457 462 TO 469 -  
523 TO 530 542 TO 549 601 TO 608 613 TO 620 663 TO 670 675 TO 682 -  
725 TO 732 737 TO 744 791 TO 798 803 TO 810 853 TO 860 865 TO 872 -  
929 TO 936 941 TO 948 1031 TO 1038 1043 TO 1050 1107 TO 1114 1119 TO 1126 -  
1169 TO 1176 1181 TO 1188 1236 TO 1243 1249 TO 1256 1307 TO 1314 -  
1325 TO 1332 1379 TO 1385 1392 TO 1398 1450 TO 1456 1463 TO 1469 -  
1515 TO 1521 1528 TO 1534 1580 TO 1586 1593 TO 1599 1645 TO 1651 -  
1658 TO 1664 1710 TO 1716 1723 TO 1729 1779 TO 1786 1792 TO 1799 -  
1882 TO 1889 1915 TO 1922 END MY MZ  
40 76 387 401 1386 END MY MZ  
19 20 32 42 44 47 48 68 78 80 83 84 160 TO 162 171 TO 175 184 TO 187 -  
235 TO 237 246 TO 250 259 TO 262 306 TO 308 317 TO 321 330 TO 333 -  
377 TO 379 389 TO 393 403 TO 406 448 449 458 TO 461 470 TO 472 517 522 531 -  
533 536 541 550 552 555 599 600 609 TO 612 621 TO 623 661 662 671 TO 674 -  
683 TO 685 723 724 733 TO 736 745 TO 747 789 790 799 TO 802 811 TO 813 851 -  
852 861 TO 864 873 TO 875 927 928 937 TO 940 949 TO 951 1029 1030 -  
1039 TO 1042 1051 TO 1053 1105 1106 1115 TO 1118 1127 TO 1129 1167 1168 1177 -  
1178 TO 1180 1189 TO 1191 1233 TO 1235 1244 TO 1248 1257 TO 1260 1301 1302 -  
1306 1315 1316 1319 1320 1324 1333 1334 1337 1338 1376 TO 1378 1387 TO 1391 -  
1399 TO 1403 1447 TO 1449 1457 TO 1462 1470 TO 1474 1512 TO 1514 -  
1522 TO 1527 1535 TO 1539 1577 TO 1579 1587 TO 1592 1600 TO 1604 -  
1642 TO 1644 1652 TO 1657 1665 TO 1669 1707 TO 1709 1717 TO 1722 -  
1730 TO 1734 1776 TO 1778 1787 TO 1791 1800 TO 1803 1869 1870 1881 1890 1891 -  
1894 1895 1914 1923 1924 1927 1928 END MY MZ  
1 3 5 8 21 23 25 30 52 55 61 66 88 91 97 100 103 TO 106 188 TO 191 -  
334 TO 337 473 TO 476 624 TO 627 748 TO 751 876 TO 879 1101 TO 1104 1229 -  
1230 TO 1232 1372 TO 1375 1508 TO 1511 1638 TO 1641 1772 TO 1775 1851 1853 -  
1855 1858 1871 1873 1875 1880 1899 1902 1908 1913 1932 1935 1941 1944 1947 -  
1948 TO 1950 START MY MZ  
1 3 5 8 21 23 25 30 52 55 61 66 88 91 97 100 103 TO 106 188 TO 191 -  
334 TO 337 473 TO 476 624 TO 627 748 TO 751 876 TO 879 1101 TO 1104 1229 -  
1230 TO 1232 1372 TO 1375 1508 TO 1511 1638 TO 1641 1772 TO 1775 1851 1853 -  
1855 1858 1871 1873 1875 1880 1899 1902 1908 1913 1932 1935 1941 1944 1947 -  
1948 TO 1950 END MY MZ  
111 119 123 129 137 141 START MY MZ  
350 368 481 492 498 509 END MY MZ  
START GROUP DEFINITION  
MEMBER

\_FRAMES 2 4 6 7 9 TO 18 22 24 26 TO 29 45 46 49 TO 51 53 54 56 TO 60 -  
 62 TO 65 81 82 85 TO 87 89 90 92 TO 96 98 99 101 102 146 TO 159 231 TO 234 -  
 302 TO 305 407 TO 410 556 TO 565 686 TO 689 785 TO 788 847 TO 850 -  
 913 TO 926 1054 TO 1067 1130 TO 1133 1192 TO 1195 1294 TO 1297 1437 TO 1446 -  
 1573 TO 1576 1670 TO 1673 1735 TO 1738 1804 TO 1817 1852 1854 1856 1857 1859 -  
 1860 TO 1868 1872 1874 1876 TO 1879 1892 1893 1896 TO 1898 1900 1901 1903 -  
 1904 TO 1907 1909 TO 1912 1925 1926 1929 TO 1931 1933 1934 1936 TO 1940 1942 -  
 1943 1945 1946  
 \_BRACING 1 3 5 8 21 23 25 30 52 55 61 66 88 91 97 100 103 TO 106 188 TO 191 -  
 334 TO 337 473 TO 476 624 TO 627 748 TO 751 876 TO 879 1101 TO 1104 1229 -  
 1230 TO 1232 1372 TO 1375 1508 TO 1511 1638 TO 1641 1772 TO 1775 1851 1853 -  
 1855 1858 1871 1873 1875 1880 1899 1902 1908 1913 1932 1935 1941 1944 1947 -  
 1948 TO 1950  
 \_SECONDARY 19 20 31 TO 44 47 48 67 TO 80 83 84 107 TO 145 160 TO 187 -  
 192 TO 230 235 TO 301 306 TO 333 338 TO 406 411 TO 472 477 TO 513 517 521 -  
 522 TO 533 536 540 TO 552 555 566 TO 623 628 TO 685 690 TO 747 752 TO 784 -  
 789 TO 846 851 TO 875 880 TO 912 927 TO 973 985 TO 991 1003 TO 1053 1068 -  
 1069 TO 1100 1105 TO 1129 1134 TO 1191 1196 TO 1228 1233 TO 1293 1301 1302 -  
 1306 TO 1316 1319 1320 1324 TO 1334 1337 TO 1371 1376 TO 1436 1447 TO 1507 -  
 1512 TO 1572 1577 TO 1637 1642 TO 1669 1674 TO 1734 1739 TO 1771 -  
 1776 TO 1803 1818 TO 1850 1869 1870 1881 TO 1891 1894 1895 1914 TO 1924 1927 -  
 1928  
 \_OPENINGS 31 32 39 40 43 44 67 68 75 76 79 80 111 119 123 129 137 141 196 -  
 204 208 214 222 226 267 275 279 285 293 297 342 350 354 360 368 372 386 387 -  
 400 401 415 426 432 443 481 492 498 509 521 522 532 533 540 541 551 552  
 END GROUP DEFINITION  
 UNIT METER KN  
 MEMBER OFFSET  
 107 TO 110 112 TO 118 120 TO 122 124 TO 128 130 TO 136 138 TO 140 142 TO 144 -  
 146 TO 159 477 TO 480 494 TO 497 511 512 566 TO 569 581 TO 584 596 597 913 -  
 914 TO 926 1054 TO 1067 1261 TO 1264 1276 TO 1279 1291 1292 1339 TO 1342 1354 -  
 1355 TO 1357 1369 1370 1804 TO 1849 START LOCAL 0.15 0 0  
 LOAD 1 LOADTYPE Dead TITLE DEAD LOAD  
 SELFWEIGHT Y -1  
 MEMBER LOAD  
 146 TO 159 231 TO 234 302 TO 305 407 TO 410 556 TO 565 686 TO 689 785 TO 788 -  
 847 TO 850 913 TO 926 1054 TO 1067 1130 TO 1133 1192 TO 1195 1294 TO 1297 -  
 1437 TO 1446 1573 TO 1576 1670 TO 1673 1735 TO 1738 1804 TO 1816 -  
 1817 UNI GY -0.975  
 ONEWAY LOAD  
 YRANGE 0 11 ONE -2.5 GY  
 LOAD 2 LOADTYPE Live TITLE MEZZ LIVE LOAD  
 ONEWAY LOAD  
 YRANGE 0 11 ONE -5 GY  
 LOAD 3 LOADTYPE Roof Live TITLE ROOF LIVE LOAD  
 MEMBER LOAD  
 146 TO 159 231 TO 234 302 TO 305 407 TO 410 556 TO 565 686 TO 689 785 TO 788 -  
 847 TO 850 913 TO 926 1054 TO 1067 1130 TO 1133 1192 TO 1195 1294 TO 1297 -  
 1437 TO 1446 1573 TO 1576 1670 TO 1673 1735 TO 1738 1804 TO 1816 -  
 1817 UNI GY -3.9

LOAD 4 LOADTYPE Wind TITLE WL-C1

MEMBER LOAD

2 4 6 7 9 TO 18 22 24 26 TO 29 45 46 49 TO 51 53 54 56 TO 60 62 TO 65 81 82 -  
85 TO 87 89 90 92 TO 96 98 99 101 102 UNI GX 3.25  
146 TO 159 231 TO 234 302 TO 305 407 TO 410 556 TO 565 686 TO 689 785 TO 788 -  
847 TO 850 913 TO 926 UNI Y 6.5  
1054 TO 1067 1130 TO 1133 1192 TO 1195 1294 TO 1297 1437 TO 1446 1573 TO 1576 -  
1670 TO 1673 1735 TO 1738 1804 TO 1817 UNI Y 4.55  
1852 1854 1856 1857 1859 TO 1868 1872 1874 1876 TO 1879 1892 1893 -  
1896 TO 1898 1900 1901 1903 TO 1907 1909 TO 1912 1925 1926 1929 TO 1931 1933 -  
1934 1936 TO 1940 1942 1943 1945 1946 UNI GX 3.9

LOAD 5 LOADTYPE Wind TITLE WL-C2

MEMBER LOAD

2 4 6 7 9 TO 18 22 24 26 TO 29 45 46 49 TO 51 53 54 56 TO 60 62 TO 65 81 82 -  
85 TO 87 89 90 92 TO 96 98 99 101 102 UNI GX 4.55  
146 TO 159 231 TO 234 302 TO 305 407 TO 410 556 TO 565 686 TO 689 785 TO 788 -  
847 TO 850 913 TO 926 UNI Y 3.9  
1054 TO 1067 1130 TO 1133 1192 TO 1195 1294 TO 1297 1437 TO 1446 1573 TO 1576 -  
1670 TO 1673 1735 TO 1738 1804 TO 1817 UNI Y 3.25  
1852 1854 1856 1857 1859 TO 1868 1872 1874 1876 TO 1879 1892 1893 -  
1896 TO 1898 1900 1901 1903 TO 1907 1909 TO 1912 1925 1926 1929 TO 1931 1933 -  
1934 1936 TO 1940 1942 1943 1945 1946 UNI GX 3.25

LOAD 6 LOADTYPE Wind TITLE WR-C1

MEMBER LOAD

1852 1854 1856 1857 1859 TO 1868 1872 1874 1876 TO 1879 1892 1893 -  
1896 TO 1898 1900 1901 1903 TO 1907 1909 TO 1912 1925 1926 1929 TO 1931 1933 -  
1934 1936 TO 1940 1942 1943 1945 1946 UNI GX -3.25  
1054 TO 1067 1130 TO 1133 1192 TO 1195 1294 TO 1297 1437 TO 1446 1573 TO 1576 -  
1670 TO 1673 1735 TO 1738 1804 TO 1817 UNI Y 6.5  
146 TO 159 231 TO 234 302 TO 305 407 TO 410 556 TO 565 686 TO 689 785 TO 788 -  
847 TO 850 913 TO 926 UNI Y 4.55  
2 4 6 7 9 TO 18 22 24 26 TO 29 45 46 49 TO 51 53 54 56 TO 60 62 TO 65 81 82 -  
85 TO 87 89 90 92 TO 96 98 99 101 102 UNI GX -3.9

LOAD 7 LOADTYPE Wind TITLE WR-C2

MEMBER LOAD

1852 1854 1856 1857 1859 TO 1868 1872 1874 1876 TO 1879 1892 1893 -  
1896 TO 1898 1900 1901 1903 TO 1907 1909 TO 1912 1925 1926 1929 TO 1931 1933 -  
1934 1936 TO 1940 1942 1943 1945 1946 UNI GX -4.55  
1054 TO 1067 1130 TO 1133 1192 TO 1195 1294 TO 1297 1437 TO 1446 1573 TO 1576 -  
1670 TO 1673 1735 TO 1738 1804 TO 1817 UNI Y 3.9  
146 TO 159 231 TO 234 302 TO 305 407 TO 410 556 TO 565 686 TO 689 785 TO 788 -  
847 TO 850 913 TO 926 UNI Y 3.25  
2 4 6 7 9 TO 18 22 24 26 TO 29 45 46 49 TO 51 53 54 56 TO 60 62 TO 65 81 82 -  
85 TO 87 89 90 92 TO 96 98 99 101 102 UNI GX -3.25

LOAD COMB 8 GENERATED AISC ASD 1

1 1.0

LOAD COMB 9 GENERATED AISC ASD 2

1 1.0 2 1.0

LOAD COMB 10 GENERATED AISC ASD 3

1 1.0 3 1.0

LOAD COMB 11 GENERATED AISC ASD 4  
1 1.0 2 0.75 3 0.75  
LOAD COMB 12 GENERATED AISC ASD 5  
1 1.0 2 0.75  
LOAD COMB 13 GENERATED AISC ASD 6  
1 1.0 4 1.0  
LOAD COMB 14 GENERATED AISC ASD 7  
1 1.0 5 1.0  
LOAD COMB 15 GENERATED AISC ASD 8  
1 1.0 6 1.0  
LOAD COMB 16 GENERATED AISC ASD 9  
1 1.0 7 1.0  
LOAD COMB 17 GENERATED AISC ASD 10  
1 1.0 2 0.75 3 0.75 4 0.75  
LOAD COMB 18 GENERATED AISC ASD 11  
1 1.0 2 0.75 3 0.75 5 0.75  
LOAD COMB 19 GENERATED AISC ASD 12  
1 1.0 2 0.75 3 0.75 6 0.75  
LOAD COMB 20 GENERATED AISC ASD 13  
1 1.0 2 0.75 3 0.75 7 0.75  
LOAD COMB 21 GENERATED AISC ASD 14  
1 1.0 2 0.75 4 0.75  
LOAD COMB 22 GENERATED AISC ASD 15  
1 1.0 2 0.75 5 0.75  
LOAD COMB 23 GENERATED AISC ASD 16  
1 1.0 2 0.75 6 0.75  
LOAD COMB 24 GENERATED AISC ASD 17  
1 1.0 2 0.75 7 0.75  
LOAD COMB 25 GENERATED AISC ASD 18  
1 0.6 4 1.0  
LOAD COMB 26 GENERATED AISC ASD 19  
1 0.6 5 1.0  
LOAD COMB 27 GENERATED AISC ASD 20  
1 0.6 6 1.0  
LOAD COMB 28 GENERATED AISC ASD 21  
1 0.6 7 1.0  
LOAD COMB 29 GENERATED AISC ASD 22  
1 0.6  
LOAD COMB 30 GENERATED AISC ASD 23  
1 1.0 4 0.5  
LOAD COMB 31 GENERATED AISC ASD 24  
1 1.0 5 0.5  
LOAD COMB 32 GENERATED AISC ASD 25  
1 1.0 6 0.5  
LOAD COMB 33 GENERATED AISC ASD 26  
1 1.0 7 0.5  
PERFORM ANALYSIS PRINT ALL  
LOAD LIST 8 TO 33  
PARAMETER 1  
CODE AISC

FYLD 235000 MEMB 7 9 10 27 TO 29 45 46 63 TO 65 81 82 85 TO 87 89 90 -  
92 TO 96 98 99 101 102 107 TO 110 125 TO 128 143 TO 159 192 TO 195 -  
210 TO 213 228 TO 234 263 TO 266 281 TO 284 299 TO 305 338 TO 341 -  
356 TO 359 374 TO 376 407 TO 414 428 TO 431 445 TO 447 477 TO 480 -  
494 TO 497 511 TO 516 518 TO 520 534 535 537 TO 539 553 554 556 TO 569 581 -  
582 TO 584 596 TO 598 628 TO 631 643 TO 646 658 TO 660 686 TO 693 705 TO 708 -  
720 TO 722 752 TO 755 767 TO 770 782 TO 788 814 TO 817 829 TO 832 -  
844 TO 850 880 TO 883 895 TO 898 910 TO 926 985 TO 991 1003 TO 1006 1054 -  
1055 TO 1071 1083 TO 1086 1098 TO 1100 1130 TO 1137 1149 TO 1152 1164 TO 1166 -  
1192 TO 1199 1211 TO 1214 1226 TO 1228 1261 TO 1264 1276 TO 1279 -  
1291 TO 1300 1303 TO 1305 1317 1318 1321 TO 1323 1335 1336 1339 TO 1342 1354 -  
1355 TO 1357 1369 TO 1371 1404 TO 1407 1419 TO 1422 1434 TO 1446 1475 TO 1478 -  
1490 TO 1493 1505 TO 1507 1540 TO 1543 1555 TO 1558 1570 TO 1576 -  
1605 TO 1608 1620 TO 1623 1635 TO 1637 1670 TO 1677 1689 TO 1692 -  
1704 TO 1706 1735 TO 1742 1754 TO 1757 1769 TO 1771 1804 TO 1821 -  
1833 TO 1836 1848 TO 1850 1857 1859 1860 1877 TO 1879 1892 1893 1910 TO 1912 -  
1925 1926

FYLD 235000 MEMB 1929 TO 1931 1933 1934 1936 TO 1940 1942 1943 1945 1946

FYLD 325000 MEMB 112 TO 118 130 TO 136 197 TO 203 215 TO 221 268 TO 274 286 -  
287 TO 292 343 TO 349 361 TO 367 416 TO 422 433 TO 439 482 TO 488 499 TO 505 -  
570 TO 576 585 TO 591 632 TO 638 647 TO 653 694 TO 700 709 TO 714 -  
756 TO 761 771 TO 776 818 TO 823 833 TO 838 884 TO 890 899 TO 905 -  
952 TO 958 963 TO 969 1007 TO 1013 1018 TO 1024 1072 TO 1078 1087 TO 1093 -  
1138 TO 1143 1153 TO 1158 1200 TO 1205 1215 TO 1220 1265 TO 1270 -  
1280 TO 1285 1343 TO 1348 1358 TO 1363 1408 TO 1413 1423 TO 1428 -  
1479 TO 1484 1494 TO 1499 1544 TO 1549 1559 TO 1564 1609 TO 1614 -  
1624 TO 1629 1678 TO 1683 1693 TO 1698 1743 TO 1749 1758 TO 1764 -  
1822 TO 1828 1837 TO 1843

FYLD 325000 MEMB 120 TO 122 124 138 TO 140 142 205 TO 207 209 223 TO 225 227 -  
276 TO 278 280 294 TO 296 298 351 TO 353 355 369 TO 371 373 423 TO 425 427 -  
440 TO 442 444 489 TO 491 493 506 TO 508 510 577 TO 580 592 TO 595 -  
639 TO 642 654 TO 657 701 TO 704 715 TO 719 762 TO 766 777 TO 781 -  
824 TO 828 839 TO 843 891 TO 894 906 TO 909 959 TO 962 970 TO 973 -  
1014 TO 1017 1025 TO 1028 1079 TO 1082 1094 TO 1097 1144 TO 1148 -  
1159 TO 1163 1206 TO 1210 1221 TO 1225 1271 TO 1275 1286 TO 1290 -  
1349 TO 1353 1364 TO 1368 1414 TO 1418 1429 TO 1433 1485 TO 1489 -  
1500 TO 1504 1550 TO 1554 1565 TO 1569 1615 TO 1619 1630 TO 1634 -  
1684 TO 1688 1699 TO 1703 1750 TO 1753 1765 TO 1768 1829 TO 1832 -  
1844 TO 1847

FYLD 350000 MEMB 2 4 6 11 TO 18 22 24 26 49 TO 51 53 54 56 TO 60 62 -  
974 TO 984 992 TO 1002 1852 1854 1856 1861 TO 1868 1872 1874 1876 -  
1896 TO 1898 1900 1901 1903 TO 1907 1909

FYLD 235000 MEMB 1 3 5 8 21 23 25 30 52 55 61 66 88 91 97 100 103 TO 106 188 -  
189 TO 191 334 TO 337 473 TO 476 624 TO 627 748 TO 751 876 TO 879 -  
1101 TO 1104 1229 TO 1232 1372 TO 1375 1508 TO 1511 1638 TO 1641 -  
1772 TO 1775 1851 1853 1855 1858 1871 1873 1875 1880 1899 1902 1908 1913 -  
1932 1935 1941 1944 1947 TO 1950

FYLD 275000 MEMB 33 TO 39 41 69 TO 75 77 163 TO 170 176 TO 183 238 TO 245 -  
251 TO 258 309 TO 316 322 TO 329 380 TO 386 388 394 TO 400 402 450 TO 457 -  
462 TO 469 523 TO 530 542 TO 549 601 TO 608 613 TO 620 663 TO 670 -

675 TO 682 725 TO 732 737 TO 744 791 TO 798 803 TO 810 853 TO 860 -  
865 TO 872 929 TO 936 941 TO 948 1031 TO 1038 1043 TO 1050 1107 TO 1114 1119 -  
1120 TO 1126 1169 TO 1176 1181 TO 1188 1236 TO 1243 1249 TO 1256 1307 TO 1314 -  
1325 TO 1332 1379 TO 1386 1392 TO 1398 1450 TO 1456 1463 TO 1469 -  
1515 TO 1521 1528 TO 1534 1580 TO 1586 1593 TO 1599 1645 TO 1651 -  
1658 TO 1664 1710 TO 1716 1723 TO 1729 1779 TO 1786 1792 TO 1799 -  
1882 TO 1889 1915 TO 1922

FYLD 275000 MEMB 19 20 31 32 40 42 TO 44 47 48 67 68 76 78 TO 80 83 84 111 -  
119 123 129 137 141 160 TO 162 171 TO 175 184 TO 187 196 204 208 214 222 -  
226 235 TO 237 246 TO 250 259 TO 262 267 275 279 285 293 297 306 TO 308 317 -  
318 TO 321 330 TO 333 342 350 354 360 368 372 377 TO 379 387 389 TO 393 401 -  
403 TO 406 415 426 432 443 448 449 458 TO 461 470 TO 472 481 492 498 509 -  
517 521 522 531 TO 533 536 540 541 550 TO 552 555 599 600 609 TO 612 621 -  
622 TO 623 661 662 671 TO 674 683 TO 685 723 724 733 TO 736 745 TO 747 789 -  
790 799 TO 802 811 TO 813 851 852 861 TO 864 873 TO 875 927 928 937 TO 940 -  
949 TO 951 1029 1030 1039 TO 1042 1051 TO 1053 1105 1106 1115 TO 1118 1127 -  
1128 TO 1129 1167 1168 1177 TO 1180 1189 TO 1191 1233 TO 1235 1244 TO 1248 -  
1257 TO 1260 1301 1302 1306 1315 1316 1319 1320 1324 1333 1334 1337 1338 -  
1376 TO 1378 1387 TO 1391 1399 TO 1403 1447 TO 1449 1457 TO 1462 -  
1470 TO 1474 1512 TO 1514 1522 TO 1527 1535 TO 1539 1577 TO 1579 -  
1587 TO 1592 1600 TO 1604 1642 TO 1644 1652 TO 1657 1665 TO 1669 -  
1707 TO 1709 1717 TO 1722 1730 TO 1734 1776 TO 1778 1787 TO 1791 -  
1800 TO 1803 1869 1870 1881 1890 1891 1894 1895 1914 1923 1924 1927 1928

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LY 0.5 MEMB 33 TO 39 41 69 TO 75 77 163 TO 170 176 TO 183 238 TO 245 -  
251 TO 258 309 TO 316 322 TO 329 380 TO 386 388 394 TO 400 402 450 TO 457 -  
462 TO 469 523 TO 530 542 TO 549 601 TO 608 613 TO 620 663 TO 670 -  
675 TO 682 725 TO 732 737 TO 744 791 TO 798 803 TO 810 853 TO 860 -  
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1882 TO 1889 1915 TO 1922

LY 0.5 MEMB 19 20 31 32 40 42 TO 44 47 48 67 68 76 78 TO 80 83 84 111 119 -  
123 129 137 141 160 TO 162 171 TO 175 184 TO 187 196 204 208 214 222 226 -  
235 TO 237 246 TO 250 259 TO 262 267 275 279 285 293 297 306 TO 308 -  
317 TO 321 330 TO 333 342 350 354 360 368 372 377 TO 379 387 389 TO 393 401 -  
403 TO 406 415 426 432 443 448 449 458 TO 461 470 TO 472 481 492 498 509 -  
517 521 522 531 TO 533 536 540 541 550 TO 552 555 599 600 609 TO 612 621 -  
622 TO 623 661 662 671 TO 674 683 TO 685 723 724 733 TO 736 745 TO 747 789 -  
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1800 TO 1803 1869 1870 1881 1890 1891 1894 1895 1914 1923 1924 1927 1928

UNT 0.5 MEMB 33 TO 39 41 69 TO 75 77 163 TO 170 176 TO 183 238 TO 245 251 -  
252 TO 258 309 TO 316 322 TO 329 380 TO 386 388 394 TO 400 402 450 TO 457 -  
462 TO 469 523 TO 530 542 TO 549 601 TO 608 613 TO 620 663 TO 670 -  
675 TO 682 725 TO 732 737 TO 744 791 TO 798 803 TO 810 853 TO 860 -  
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1882 TO 1889 1915 TO 1922

UNT 0.5 MEMB 19 20 31 32 40 42 TO 44 47 48 67 68 76 78 TO 80 83 84 111 119 -  
123 129 137 141 160 TO 162 171 TO 175 184 TO 187 196 204 208 214 222 226 -  
235 TO 237 246 TO 250 259 TO 262 267 275 279 285 293 297 306 TO 308 -  
317 TO 321 330 TO 333 342 350 354 360 368 372 377 TO 379 387 389 TO 393 401 -  
403 TO 406 415 426 432 443 448 449 458 TO 461 470 TO 472 481 492 498 509 -  
517 521 522 531 TO 533 536 540 541 550 TO 552 555 599 600 609 TO 612 621 -  
622 TO 623 661 662 671 TO 674 683 TO 685 723 724 733 TO 736 745 TO 747 789 -  
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1800 TO 1803 1869 1870 1881 1890 1891 1894 1895 1914 1923 1924 1927 1928

UNB 0.5 MEMB 33 TO 39 41 69 TO 75 77 163 TO 170 176 TO 183 238 TO 245 251 -  
252 TO 258 309 TO 316 322 TO 329 380 TO 386 388 394 TO 400 402 450 TO 457 -  
462 TO 469 523 TO 530 542 TO 549 601 TO 608 613 TO 620 663 TO 670 -  
675 TO 682 725 TO 732 737 TO 744 791 TO 798 803 TO 810 853 TO 860 -  
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1882 TO 1889 1915 TO 1922

UNB 0.5 MEMB 19 20 31 32 40 42 TO 44 47 48 67 68 76 78 TO 80 83 84 111 119 -  
123 129 137 141 160 TO 162 171 TO 175 184 TO 187 196 204 208 214 222 226 -  
235 TO 237 246 TO 250 259 TO 262 267 275 279 285 293 297 306 TO 308 -  
317 TO 321 330 TO 333 342 350 354 360 368 372 377 TO 379 387 389 TO 393 401 -  
403 TO 406 415 426 432 443 448 449 458 TO 461 470 TO 472 481 492 498 509 -  
517 521 522 531 TO 533 536 540 541 550 TO 552 555 599 600 609 TO 612 621 -  
622 TO 623 661 662 671 TO 674 683 TO 685 723 724 733 TO 736 745 TO 747 789 -  
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1587 TO 1592 1600 TO 1604 1642 TO 1644 1652 TO 1657 1665 TO 1669 -

1707 TO 1709 1717 TO 1722 1730 TO 1734 1776 TO 1778 1787 TO 1791 -  
1800 TO 1803 1869 1870 1881 1890 1891 1894 1895 1914 1923 1924 1927 1928

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LY 1.4 MEMB 2 4 6 7 9 TO 18 22 24 26 TO 29 45 46 49 TO 51 53 54 56 TO 60 62 -  
63 TO 65 81 82 85 TO 87 89 90 92 TO 96 98 99 101 102 146 TO 159 231 TO 234 -  
302 TO 305 407 TO 410 556 TO 565 686 TO 689 785 TO 788 847 TO 850 -  
913 TO 926 1054 TO 1067 1130 TO 1133 1192 TO 1195 1294 TO 1297 1437 TO 1446 -  
1573 TO 1576 1670 TO 1673 1735 TO 1738 1804 TO 1817 1852 1854 1856 1857 1859 -  
1860 TO 1868 1872 1874 1876 TO 1879 1892 1893 1896 TO 1898 1900 1901 1903 -  
1904 TO 1907 1909 TO 1912 1925 1926 1929 TO 1931 1933 1934 1936 TO 1940 1942 -  
1943 1945 1946

UNB 1.4 MEMB 2 4 6 7 9 TO 18 22 24 26 TO 29 45 46 49 TO 51 53 54 56 TO 60 -  
62 TO 65 81 82 85 TO 87 89 90 92 TO 96 98 99 101 102 146 TO 159 231 TO 234 -  
302 TO 305 407 TO 410 556 TO 565 686 TO 689 785 TO 788 847 TO 850 -  
913 TO 926 1054 TO 1067 1130 TO 1133 1192 TO 1195 1294 TO 1297 1437 TO 1446 -  
1573 TO 1576 1670 TO 1673 1735 TO 1738 1804 TO 1817 1852 1854 1856 1857 1859 -  
1860 TO 1868 1872 1874 1876 TO 1879 1892 1893 1896 TO 1898 1900 1901 1903 -  
1904 TO 1907 1909 TO 1912 1925 1926 1929 TO 1931 1933 1934 1936 TO 1940 1942 -  
1943 1945 1946

UNT 1.4 MEMB 2 4 6 7 9 TO 18 22 24 26 TO 29 45 46 49 TO 51 53 54 56 TO 60 -  
62 TO 65 81 82 85 TO 87 89 90 92 TO 96 98 99 101 102 146 TO 159 231 TO 234 -  
302 TO 305 407 TO 410 556 TO 565 686 TO 689 785 TO 788 847 TO 850 -  
913 TO 926 1054 TO 1067 1130 TO 1133 1192 TO 1195 1294 TO 1297 1437 TO 1446 -  
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1860 TO 1868 1872 1874 1876 TO 1879 1892 1893 1896 TO 1898 1900 1901 1903 -  
1904 TO 1907 1909 TO 1912 1925 1926 1929 TO 1931 1933 1934 1936 TO 1940 1942 -  
1943 1945 1946

DFF 120 MEMB 2 4 6 7 9 TO 18 22 24 26 TO 29 45 46 49 TO 51 53 54 56 TO 60 -  
62 TO 65 81 82 85 TO 87 89 90 92 TO 96 98 99 101 102 146 TO 159 231 TO 234 -  
302 TO 305 407 TO 410 556 TO 565 686 TO 689 785 TO 788 847 TO 850 -  
913 TO 926 1054 TO 1067 1130 TO 1133 1192 TO 1195 1294 TO 1297 1437 TO 1446 -  
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1904 TO 1907 1909 TO 1912 1925 1926 1929 TO 1931 1933 1934 1936 TO 1940 1942 -  
1943 1945 1946

SSZ 0 MEMB 2 4 6 7 9 TO 18 22 24 26 TO 29 45 46 49 TO 51 53 54 56 TO 60 62 -  
63 TO 65 81 82 85 TO 87 89 90 92 TO 96 98 99 101 102 146 TO 159 231 TO 234 -  
302 TO 305 407 TO 410 556 TO 565 686 TO 689 785 TO 788 847 TO 850 -  
913 TO 926 1054 TO 1067 1130 TO 1133 1192 TO 1195 1294 TO 1297 1437 TO 1446 -  
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1860 TO 1868 1872 1874 1876 TO 1879 1892 1893 1896 TO 1898 1900 1901 1903 -  
1904 TO 1907 1909 TO 1912 1925 1926 1929 TO 1931 1933 1934 1936 TO 1940 1942 -  
1943 1945 1946

CMZ 0.85 MEMB 2 4 6 7 9 TO 18 22 24 26 TO 29 45 46 49 TO 51 53 54 56 TO 60 -  
62 TO 65 81 82 85 TO 87 89 90 92 TO 96 98 99 101 102 146 TO 159 231 TO 234 -  
302 TO 305 407 TO 410 556 TO 565 686 TO 689 785 TO 788 847 TO 850 -  
913 TO 926 1054 TO 1067 1130 TO 1133 1192 TO 1195 1294 TO 1297 1437 TO 1446 -  
1573 TO 1576 1670 TO 1673 1735 TO 1738 1804 TO 1817 1852 1854 1856 1857 1859 -  
1860 TO 1868 1872 1874 1876 TO 1879 1892 1893 1896 TO 1898 1900 1901 1903 -  
1904 TO 1907 1909 TO 1912 1925 1926 1929 TO 1931 1933 1934 1936 TO 1940 1942 -



1943 1945 1946

KY 0.9 MEMB 1 3 5 8 21 23 25 30 52 55 61 66 88 91 97 100 103 TO 106 -  
188 TO 191 334 TO 337 473 TO 476 624 TO 627 748 TO 751 876 TO 879 -  
1101 TO 1104 1229 TO 1232 1372 TO 1375 1508 TO 1511 1638 TO 1641 -  
1772 TO 1775 1851 1853 1855 1858 1871 1873 1875 1880 1899 1902 1908 1913 -  
1932 1935 1941 1944 1947 TO 1950

KZ 0.9 MEMB 1 3 5 8 21 23 25 30 52 55 61 66 88 91 97 100 103 TO 106 -  
188 TO 191 334 TO 337 473 TO 476 624 TO 627 748 TO 751 876 TO 879 -  
1101 TO 1104 1229 TO 1232 1372 TO 1375 1508 TO 1511 1638 TO 1641 -  
1772 TO 1775 1851 1853 1855 1858 1871 1873 1875 1880 1899 1902 1908 1913 -  
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CHECK CODE ALL

PARAMETER 2

CODE AISC

STEEL TAKE OFF ALL

FINISH