

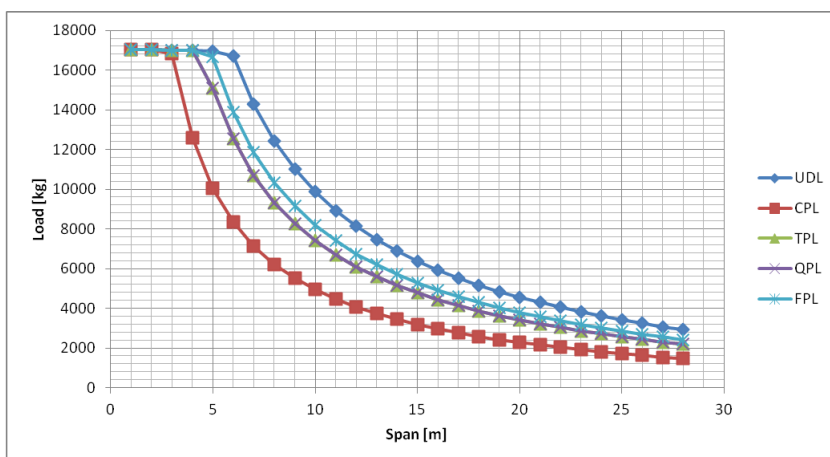
TABLE OF MAXIMUM ALLOWABLE LOADS

| T100R: maximum load - no limit on deflection | | | | | | | | | | | | | | | | |
|--|----------------|----------------------------|------|----------------|-------------------|------|----------------|-------------------------|------|----------------|---------------------------|------|----------------|-------------------------|------|--|
| | | | | | | | | | | | | | | | | |
| | | UNIFORMLY DISTRIBUTED LOAD | | | CENTER POINT LOAD | | | SINGLE THIRD POINT LOAD | | | SINGLE QUARTER POINT LOAD | | | SINGLE FIFTH POINT LOAD | | |
| Span [m] | q _m | q _m *L | def. | F _m | F _m | def. | F _m | 2*F _m | def. | F _m | 3*F _m | def. | F _m | 4*F _m | def. | |
| | kg/m | Kg | mm | kg/m | Kg | mm | Kg | Kg | mm | Kg | Kg | mm | Kg | Kg | mm | |
| 1 | 17050 | 17050 | 0 | 17050 | 17050 | 0,1 | 8525 | 17050 | 0,1 | 5683 | 17050 | 0,1 | 4262 | 17050 | 0,1 | |
| 2 | 8512 | 17025 | 0,3 | 17025 | 17025 | 0,5 | 8512 | 17025 | 0,5 | 5675 | 17025 | 0,4 | 4256 | 17025 | 0,4 | |
| 3 | 5667 | 17000 | 1 | 16823 | 16823 | 2 | 8500 | 17000 | 2 | 5667 | 17000 | 1 | 4250 | 17000 | 1 | |
| 4 | 4244 | 16975 | 3 | 12595 | 12595 | 3 | 8487 | 16975 | 4 | 5658 | 16975 | 3 | 4244 | 16975 | 3 | |
| 5 | 3390 | 16950 | 5 | 10054 | 10054 | 5 | 7540 | 15081 | 6 | 5027 | 15081 | 6 | 4172 | 16689 | 6 | |
| 6 | 2785 | 16711 | 9 | 8355 | 8355 | 7 | 6266 | 12533 | 9 | 4178 | 12533 | 8 | 3467 | 13870 | 9 | |
| 7 | 2040 | 14277 | 12 | 7138 | 7138 | 10 | 5354 | 10708 | 12 | 3569 | 10708 | 11 | 2962 | 11850 | 12 | |
| 8 | 1556 | 12445 | 16 | 6223 | 6223 | 13 | 4667 | 9334 | 16 | 3111 | 9334 | 15 | 2582 | 10330 | 16 | |
| 9 | 1224 | 11015 | 20 | 5508 | 5508 | 16 | 4131 | 8262 | 20 | 2754 | 8262 | 19 | 2286 | 9143 | 20 | |
| 10 | 987 | 9866 | 25 | 4933 | 4933 | 20 | 3700 | 7400 | 25 | 2467 | 7400 | 23 | 2047 | 8189 | 25 | |
| 11 | 811 | 8922 | 30 | 4461 | 4461 | 24 | 3346 | 6691 | 30 | 2230 | 6691 | 28 | 1851 | 7405 | 30 | |
| 12 | 678 | 8130 | 35 | 4065 | 4065 | 29 | 3049 | 6098 | 36 | 2033 | 6098 | 34 | 1687 | 6748 | 36 | |
| 13 | 574 | 7457 | 42 | 3728 | 3728 | 34 | 2796 | 5593 | 42 | 1864 | 5593 | 40 | 1547 | 6189 | 42 | |
| 14 | 491 | 6876 | 48 | 3438 | 3438 | 39 | 2578 | 5157 | 49 | 1719 | 5157 | 46 | 1427 | 5707 | 48 | |
| 15 | 425 | 6369 | 55 | 3185 | 3185 | 45 | 2388 | 4777 | 56 | 1592 | 4777 | 53 | 1322 | 5286 | 55 | |
| 16 | 370 | 5923 | 63 | 2961 | 2961 | 51 | 2221 | 4442 | 64 | 1481 | 4442 | 60 | 1229 | 4916 | 63 | |
| 17 | 325 | 5526 | 71 | 2763 | 2763 | 58 | 2072 | 4144 | 72 | 1381 | 4144 | 68 | 1147 | 4586 | 71 | |
| 18 | 287 | 5170 | 80 | 2585 | 2585 | 65 | 1939 | 3878 | 81 | 1293 | 3878 | 76 | 1073 | 4291 | 80 | |
| 19 | 255 | 4849 | 89 | 2425 | 2425 | 73 | 1819 | 3637 | 90 | 1212 | 3637 | 85 | 1006 | 4025 | 89 | |
| 20 | 228 | 4558 | 98 | 2279 | 2279 | 81 | 1709 | 3419 | 100 | 1140 | 3419 | 94 | 946 | 3783 | 99 | |
| 21 | 204 | 4292 | 108 | 2146 | 2146 | 89 | 1610 | 3219 | 110 | 1073 | 3219 | 103 | 891 | 3563 | 109 | |
| 22 | 184 | 4048 | 119 | 2024 | 2024 | 98 | 1518 | 3036 | 121 | 1012 | 3036 | 114 | 840 | 3360 | 119 | |
| 23 | 166 | 3823 | 130 | 1912 | 1912 | 107 | 1434 | 2868 | 132 | 956 | 2868 | 124 | 793 | 3173 | 130 | |
| 24 | 151 | 3615 | 141 | 1808 | 1808 | 117 | 1356 | 2711 | 144 | 904 | 2711 | 135 | 750 | 3001 | 142 | |
| 25 | 137 | 3422 | 154 | 1711 | 1711 | 128 | 1283 | 2566 | 156 | 855 | 2566 | 147 | 710 | 2840 | 154 | |
| 26 | 125 | 3241 | 166 | 1620 | 1620 | 138 | 1215 | 2431 | 169 | 810 | 2431 | 159 | 672 | 2690 | 167 | |
| 27 | 114 | 3072 | 179 | 1536 | 1536 | 150 | 1152 | 2304 | 182 | 768 | 2304 | 172 | 637 | 2550 | 180 | |
| 28 | 104 | 2913 | 193 | 1456 | 1456 | 162 | 1092 | 2185 | 196 | 728 | 2185 | 185 | 604 | 2418 | 193 | |

The calculation at the base of the table has been prepared in accordance with the UNI EN 1999-1-1.

The allowable loads are net of the weight of the truss .
The deflection includes the weight of the truss.

The constraints must be considered as an ideal condition; It will be the customer's responsibility analyze the structure in the light of the actual conditions of load, constraint and use.


HIGH LOAD