



FC - 36 : NORMAL OCCUPANCY

SECTION PROPERTIES (PER FOOT OF WIDTH)

| IMPERIAL | Base Steel Thickness (in.) | Weight G90 (psf) | Yield Stress (ksi) | Sec. Modulus | | Deflection Moment of Inertia (in ⁴) | Specified Web Crippling Data | | | |
|----------|----------------------------|------------------|--------------------|--------------------|--------------------|---|------------------------------|--------------------------|-------------------------------|-------------------------------|
| | | | | Midspan | Support | | P _{e1} End (lb) | P _{e2} End (lb) | P _{i1} Interior (lb) | P _{i2} Interior (lb) |
| | | | | (in ³) | (in ³) | | | | | |
| | | | | | | | | | | |
| 0.0120 | 0.61 | 80 | 0.0108 | 0.0083 | 0.0071 | 29.5 | 7.37 | 57.2 | 9.73 | |
| 0.0135 | 0.68 | 80 | 0.0121 | 0.0095 | 0.0079 | 38.1 | 9.52 | 73.8 | 12.6 | |
| 0.0150 | 0.75 | 80 | 0.0134 | 0.0107 | 0.0088 | 47.8 | 12.0 | 92.5 | 15.7 | |
| 0.0180 | 0.89 | 80 | 0.0160 | 0.0132 | 0.0106 | 70.8 | 17.7 | 137 | 23.2 | |

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (PSF)

| SPAN LENGTH (in.) | | 1-SPAN | | | | 2-SPAN | | | | 3-SPAN | | | |
|-------------------|---|----------------------------|--------|--------|--------|----------------------------|--------|--------|--------|----------------------------|--------|--------|--------|
| | | BASE STEEL THICKNESS (in.) | | | | BASE STEEL THICKNESS (in.) | | | | BASE STEEL THICKNESS (in.) | | | |
| | | 0.0120 | 0.0135 | 0.0150 | 0.0180 | 0.0120 | 0.0135 | 0.0150 | 0.0180 | 0.0120 | 0.0135 | 0.0150 | 0.0180 |
| 18 | S | 114 | 128 | 142 | 169 | 88 | 100 | 113 | 139 | 110 | 126 | 142 | 174 |
| | D | 203 | 228 | 253 | 303 | 487 | 547 | 607 | 727 | 383 | 431 | 478 | 573 |
| 24 | S | 64 | 72 | 80 | 95 | 49 | 56 | 64 | 78 | 62 | 71 | 80 | 98 |
| | D | 86 | 96 | 107 | 128 | 205 | 231 | 256 | 307 | 162 | 182 | 202 | 242 |
| 30 | S | 41 | 46 | 51 | 61 | 32 | 36 | 41 | 50 | 40 | 45 | 51 | 63 |
| | D | 44 | 49 | 55 | 65 | 105 | 118 | 131 | 157 | 83 | 93 | 103 | 124 |
| 36 | S | 28 | 32 | 35 | 42 | 22 | 25 | 28 | 35 | 27 | 31 | 35 | 44 |
| | D | 25 | 28 | 32 | 38 | 61 | 68 | 76 | 91 | 48 | 54 | 60 | 72 |
| 42 | S | 21 | 23 | 26 | 31 | 16 | 18 | 21 | 26 | 20 | 23 | 26 | 32 |
| | D | 16 | 18 | 20 | 24 | 38 | 43 | 48 | 57 | 30 | 34 | 38 | 45 |
| 48 | S | 16 | 18 | 20 | 24 | 12 | 14 | 16 | 20 | 15 | 18 | 20 | 24 |
| | D | 11 | 12 | 13 | 16 | 26 | 29 | 32 | 38 | 20 | 23 | 25 | 30 |
| 54 | S | | | | 19 | | 11 | 13 | 15 | 12 | 14 | 16 | 19 |
| | D | | | | 11 | | 20 | 22 | 27 | 14 | 16 | 18 | 21 |
| 60 | S | | | | | | | 10 | 13 | | 11 | 13 | 16 |
| | D | | | | | | | 16 | 20 | | 12 | 13 | 15 |
| 66 | S | | | | | | | | 10 | | | | 13 |
| | D | | | | | | | | 15 | | | | 12 |
| 72 | S | | | | | | | | | | | | |
| | D | | | | | | | | | | | | |

Notes:

- 1 Based on ASTM A 653 or ASTM A 792 structural grade steel
 - 2 Values in row "S" are based on strength.
 - 3 Values in row "D" are based on deflection of 1/180th span.
 - 4 Web crippling not included in strength calculations. See Example.
- Limit States Design principles were used in accordance with CSA Standard S136-07