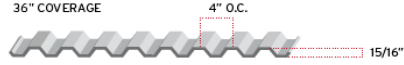




15/16" FORM DECK



SECTION PROPERTIES (Per Foot of Width)

| Gage | Base Steel Thickness (in.) | Weight (psf) | Yield Stress (ksi) | Sec. Modulus | | Deflection Moment of Inertia I_{xd} (in ⁴) | Web Crippling Loads | | Web Crippling Data | | | |
|------|----------------------------|--------------|--------------------|------------------------------|------------------------------|--|---------------------|------------|--------------------|-------------------|------------------------|------------------------|
| | | | | Midspan | Support | | P_e (lb) | P_i (lb) | P_{e1} End (lb) | P_{e2} End (lb) | P_{i1} Interior (lb) | P_{i2} Interior (lb) |
| | | | | S_{pos} (in ³) | S_{neg} (in ³) | | | | | | | |
| 26 | 0.0179 | 1.00 | 60 | 0.0669 | 0.0669 | 0.0374 | 509 | 740 | 155 | 38.7 | 231 | 39.3 |
| 24 | 0.0238 | 1.31 | 60 | 0.0965 | 0.0965 | 0.0510 | 862 | 1326 | 289 | 72.2 | 456 | 77.5 |
| 22 | 0.0295 | 1.61 | 60 | 0.127 | 0.127 | 0.0632 | 1278 | 2033 | 459 | 115 | 749 | 127 |
| 20 | 0.0358 | 1.94 | 60 | 0.157 | 0.157 | 0.0765 | 1823 | 2969 | 696 | 174 | 1162 | 197 |

ALLOWABLE UNIFORMLY DISTRIBUTED LOADS (psf)

| SPAN LENGTH (ft) | | 1-SPAN | | | | 2-SPAN | | | | 3-SPAN | | | |
|-----------------------------|---|----------------------------|--------------|--------------|--------------|----------------------------|--------------|--------------|---------------|----------------------------|--------------|--------------|---------------|
| | | BASE STEEL THICKNESS (in.) | | | | BASE STEEL THICKNESS (in.) | | | | BASE STEEL THICKNESS (in.) | | | |
| | | 0.0179 | 0.0238 | 0.0295 | 0.0358 | 0.0179 | 0.0238 | 0.0295 | 0.0358 | 0.0179 | 0.0238 | 0.0295 | 0.0358 |
| MAX CO. SPAN (ft-in) | | 4' 0" | 5' 9" | 7' 6" | 9' 5" | 4' 11" | 7' 1" | 9' 3" | 11' 7" | 5' 0" | 7' 2" | 9' 5" | 11' 9" |
| 3.0 | S | 178 | 257 | 337 | 419 | 178 | 257 | 337 | 419 | 223 | 321 | 421 | 523 |
| | D | 91 | 124 | 153 | 186 | 218 | 297 | 368 | 446 | 172 | 234 | 290 | 351 |
| 3.5 | S | 131 | 189 | 247 | 307 | 131 | 189 | 247 | 307 | 164 | 236 | 309 | 384 |
| | D | 57 | 78 | 97 | 117 | 137 | 187 | 232 | 281 | 108 | 147 | 183 | 221 |
| 4.0 | S | 100 | 144 | 189 | 235 | 100 | 144 | 189 | 235 | 125 | 181 | 237 | 294 |
| | D | 38 | 52 | 65 | 78 | 92 | 125 | 155 | 188 | 72 | 99 | 122 | 148 |
| 4.5 | S | | 114 | 150 | 186 | 79 | 114 | 150 | 186 | 99 | 143 | 187 | 233 |
| | D | | 37 | 45 | 55 | 65 | 88 | 109 | 132 | 51 | 69 | 86 | 104 |
| 5.0 | S | | 92 | 121 | 151 | 64 | 92 | 121 | 151 | 80 | 116 | 152 | 188 |
| | D | | 27 | 33 | 40 | 47 | 64 | 80 | 96 | 37 | 51 | 63 | 76 |
| 5.5 | S | | 76 | 100 | 125 | | 76 | 100 | 125 | | 95 | 125 | 156 |
| | D | | 20 | 25 | 30 | | 48 | 60 | 72 | | 38 | 47 | 57 |
| 6.0 | S | | 64 | 84 | 105 | | 64 | 84 | 105 | | 80 | 105 | 131 |
| | D | | 15 | 19 | 23 | | 37 | 46 | 56 | | 29 | 36 | 44 |
| 6.5 | S | | | 72 | 89 | | 55 | 72 | 89 | | 68 | 90 | 111 |
| | D | | | 15 | 18 | | 29 | 36 | 44 | | 23 | 29 | 35 |
| 7.0 | S | | | 62 | 77 | | 47 | 62 | 77 | | 59 | 77 | 96 |
| | D | | | 12 | 15 | | 23 | 29 | 35 | | 18 | 23 | 28 |
| 7.5 | S | | | 54 | 67 | | | 54 | 67 | | 51 | 67 | 84 |
| | D | | | 10 | 12 | | | 24 | 29 | | 15 | 19 | 22 |
| 8.0 | S | | | 47 | 59 | | | 47 | 59 | | 45 | 59 | 74 |
| | D | | | 8 | 10 | | | 19 | 24 | | 12 | 15 | 19 |

NOTES:

- Based on ASTM A 653 80 ksi structural steel.
- Values in row "S" are based on strength.
- Values in row "D" are based on deflection of SPAN LENGTH/240.
- P_e = Allowable end web crippling load based on $N = 1.5$ in.
- P_i = Allowable interior web crippling load based on $N = 3.0$ in.
- See Example for use of web crippling data.
- MAX CO. SPAN = Maximum construction span based on 200 lb concentrated load per foot of deck (SDI).
- Allowable Strength Design principles were used in accordance with AISI S100-16.

DISCLAIMER:

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