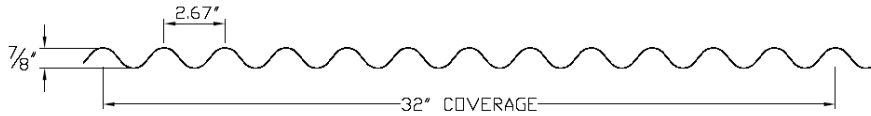




Multi-Cor

Bare & Painted



| SECTION PROPERTIES | | | | | | TOP IN COMPRESSION | | | BOTTOM IN COMPRESSION | | |
|--------------------|----------|--------------|--------------------------|------------------------------|------------------------------|--|--|------------------------------|--|--|------------------------------|
| GAUGE | FY (ksi) | WEIGHT (psf) | V _a (kip/ft.) | P _{a_end} (lbs/ft.) | P _{a_int} (lbs/ft.) | I _x (in. ⁴ /ft.) | S _e (in. ³ /ft.) | M _a (kip-in./ft.) | I _x (in. ⁴ /ft.) | S _e (in. ³ /ft.) | M _a (kip-in./ft.) |
| 24 | 50.0 | 1.23 | 1.5891 | 802.77 | 832.85 | 0.0333 | 0.0722 | 1.8052 | 0.0333 | 0.0757 | 1.8052 |

1. Section properties are calculated in accordance with the 2016 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. V_a is the allowable shear.
3. P_a is the allowable load for web crippling on end & interior supports.
4. I_x is for deflection determination.
5. S_e is for bending.
6. M_a is the allowable bending moment.
7. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

| Span Type | Load Type | Span in Feet | | | | | | | | | | | | | | | |
|-----------|--------------------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 1.50 | 2.00 | 2.50 | 3.00 | 3.50 | 4.00 | 4.50 | 5.00 | 5.50 | 6.00 | 6.50 | 7.00 | 7.50 | 8.00 | 8.50 | 9.00 |
| Single | Positive Wind | 500 | 300 | 192 | 133 | 98 | 75 | 59 | 48 | 39 | 33 | 28 | 24 | 21 | 18 | 16 | 14 |
| | Negative Wind | 500 | 300 | 192 | 133 | 98 | 75 | 59 | 48 | 39 | 33 | 28 | 24 | 21 | 18 | 16 | 14 |
| | Live | 500 | 300 | 192 | 133 | 98 | 75 | 59 | 48 | 39 | 33 | 28 | 24 | 21 | 18 | 16 | 14 |
| | Deflection (L/180) | 500 | 364 | 186 | 107 | 67 | 45 | 31 | 23 | 17 | 13 | 10 | 8 | 6 | 5 | 4 | 3 |
| | Deflection (L/240) | 500 | 273 | 139 | 80 | 50 | 34 | 23 | 17 | 13 | 10 | 7 | 6 | 5 | 4 | 3 | 2 |
| 2 Span | Positive Wind | 500 | 292 | 189 | 132 | 97 | 74 | 59 | 47 | 39 | 33 | 28 | 24 | 21 | 18 | 16 | 14 |
| | Negative Wind | 500 | 292 | 189 | 132 | 97 | 74 | 59 | 47 | 39 | 33 | 28 | 24 | 21 | 18 | 16 | 14 |
| | Live | 500 | 292 | 189 | 132 | 97 | 74 | 59 | 47 | 39 | 33 | 28 | 24 | 21 | 18 | 16 | 14 |
| | Deflection (L/180) | 500 | 500 | 449 | 259 | 163 | 109 | 77 | 56 | 42 | 32 | 25 | 20 | 16 | 13 | 11 | 9 |
| | Deflection (L/240) | 500 | 500 | 336 | 194 | 122 | 82 | 57 | 42 | 31 | 24 | 19 | 15 | 12 | 10 | 8 | 7 |
| 3 Span | Positive Wind | 500 | 361 | 234 | 164 | 121 | 93 | 73 | 59 | 49 | 41 | 35 | 30 | 26 | 23 | 20 | 18 |
| | Negative Wind | 500 | 361 | 234 | 164 | 121 | 93 | 73 | 59 | 49 | 41 | 35 | 30 | 26 | 23 | 20 | 18 |
| | Live | 500 | 361 | 234 | 164 | 121 | 93 | 73 | 59 | 49 | 41 | 35 | 30 | 26 | 23 | 20 | 18 |
| | Deflection (L/180) | 500 | 500 | 351 | 203 | 128 | 85 | 60 | 43 | 33 | 25 | 20 | 16 | 13 | 10 | 8 | 7 |
| | Deflection (L/240) | 500 | 500 | 263 | 152 | 96 | 64 | 45 | 32 | 24 | 19 | 15 | 12 | 9 | 8 | 6 | 5 |
| 4 Span | Positive Wind | 500 | 339 | 219 | 153 | 113 | 86 | 68 | 55 | 46 | 38 | 33 | 28 | 24 | 21 | 19 | 17 |
| | Negative Wind | 500 | 339 | 219 | 153 | 113 | 86 | 68 | 55 | 46 | 38 | 33 | 28 | 24 | 21 | 19 | 17 |
| | Live | 500 | 339 | 219 | 153 | 113 | 86 | 68 | 55 | 46 | 38 | 33 | 28 | 24 | 21 | 19 | 17 |
| | Deflection (L/180) | 500 | 500 | 373 | 216 | 136 | 91 | 64 | 46 | 35 | 27 | 21 | 17 | 13 | 11 | 9 | 8 |
| | Deflection (L/240) | 500 | 500 | 280 | 162 | 102 | 68 | 48 | 35 | 26 | 20 | 15 | 12 | 10 | 8 | 7 | 6 |

Notes:

1. Allowable uniform loads are based upon equal span lengths.
2. Live is the allowable live or snow load.
3. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
4. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
5. The weight of the panel has **NOT** been deducted from the allowable loads.
6. Positive Wind, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. H2-1 of the AISI Specification.
7. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
8. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.
9. Load Tables are limited to a maximum allowable load of 500 psf.