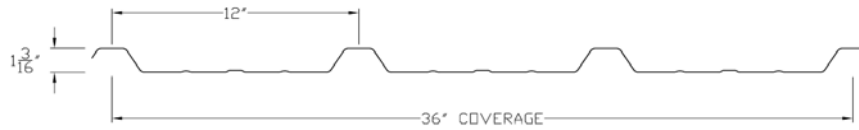




Multi-Rib

Bare Galvalume & Painted Galvalume



| 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.) |
| 26 | 50.0 | 0.87 | 0.5407 | 150.7 | 199.2 | 0.035 | 0.037 | 0.937 | 0.022 | 0.033 | 0.821 |

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 in Feet | | | | | | | | | | | | | | | |
|-----------|--------------------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Span Type | Load Type | 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 | 277 | 156 | 99 | 69 | 50 | 39 | 30 | 24 | 20 | 17 | 14 | 12 | 11 | 9 | 8 | 7 |
| | Negative Wind | 243 | 136 | 87 | 60 | 44 | 34 | 27 | 21 | 18 | 15 | 12 | 11 | 9 | 8 | 7 | 6 |
| | Live | 277 | 156 | 99 | 69 | 50 | 39 | 30 | 24 | 20 | 17 | 14 | 12 | 11 | 9 | 8 | 7 |
| | Deflection (L/180) | 500 | 382 | 195 | 113 | 71 | 47 | 33 | 24 | 18 | 14 | 11 | 8 | 7 | 5 | 4 | 4 |
| | Deflection (L/240) | 500 | 286 | 146 | 84 | 53 | 35 | 25 | 18 | 13 | 10 | 8 | 6 | 5 | 4 | 3 | 3 |
| 2 Span | Positive Wind | 224 | 130 | 84 | 59 | 43 | 33 | 26 | 21 | 17 | 15 | 12 | 11 | 9 | 8 | 7 | 6 |
| | Negative Wind | 250 | 146 | 95 | 67 | 49 | 38 | 30 | 24 | 20 | 17 | 14 | 12 | 11 | 9 | 8 | 7 |
| | Live | 224 | 130 | 84 | 59 | 43 | 33 | 26 | 21 | 17 | 15 | 12 | 11 | 9 | 8 | 7 | 6 |
| | Deflection (L/180) | 500 | 500 | 381 | 220 | 139 | 93 | 65 | 47 | 35 | 27 | 21 | 17 | 14 | 11 | 9 | 8 |
| | Deflection (L/240) | 500 | 500 | 286 | 165 | 104 | 69 | 49 | 35 | 26 | 20 | 16 | 13 | 10 | 8 | 7 | 6 |
| 3 Span | Positive Wind | 271 | 159 | 104 | 73 | 54 | 42 | 33 | 27 | 22 | 18 | 16 | 13 | 12 | 10 | 9 | 8 |
| | Negative Wind | 300 | 179 | 118 | 83 | 61 | 47 | 37 | 30 | 25 | 21 | 18 | 15 | 13 | 12 | 10 | 9 |
| | Live | 271 | 159 | 104 | 73 | 54 | 42 | 33 | 27 | 22 | 18 | 16 | 13 | 12 | 10 | 9 | 8 |
| | Deflection (L/180) | 500 | 500 | 299 | 173 | 109 | 73 | 51 | 37 | 28 | 21 | 17 | 13 | 11 | 9 | 7 | 6 |
| | Deflection (L/240) | 500 | 438 | 224 | 129 | 81 | 54 | 38 | 28 | 21 | 16 | 12 | 10 | 8 | 6 | 5 | 4 |
| 4 Span | Positive Wind | 256 | 150 | 98 | 69 | 51 | 39 | 31 | 25 | 20 | 17 | 15 | 12 | 11 | 9 | 8 | 7 |
| | Negative Wind | 284 | 168 | 110 | 78 | 57 | 44 | 35 | 28 | 23 | 20 | 17 | 14 | 12 | 11 | 10 | 8 |
| | Live | 256 | 150 | 98 | 69 | 51 | 39 | 31 | 25 | 20 | 17 | 15 | 12 | 11 | 9 | 8 | 7 |
| | Deflection (L/180) | 500 | 500 | 317 | 183 | 115 | 77 | 54 | 39 | 29 | 22 | 18 | 14 | 11 | 9 | 8 | 6 |
| | Deflection (L/240) | 500 | 465 | 238 | 137 | 86 | 58 | 40 | 29 | 22 | 17 | 13 | 10 | 8 | 7 | 6 | 5 |

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.