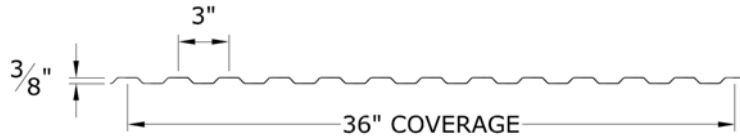




Mini-Rib

(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. |
| 24 | 50.0 | 1.10 | 0.9690 | 979.10 | 1401.20 | 0.0100 | 0.0339 | 1.0100 | 0.0100 | 0.0324 | 0.9700 |

1. Section properties are calculated in accordance with the 2004 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 | | | | | | | | | | | | | | | |
|-----------|--------------------|--------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 1.25 | 1.50 | 1.75 | 2.00 | 2.25 | 2.50 | 2.75 | 3.00 | 3.25 | 3.50 | 3.75 | 4.00 | 4.25 | 4.50 | 4.75 | 5.00 |
| Single | Positive Wind | 430 | 299 | 219 | 168 | 133 | 107 | 89 | 74 | 63 | 54 | 47 | 42 | 37 | 33 | 29 | 26 |
| | Negative Wind | 413 | 287 | 211 | 161 | 127 | 103 | 85 | 71 | 61 | 52 | 45 | 40 | 35 | 31 | 28 | 25 |
| | Live | 430 | 299 | 219 | 168 | 133 | 107 | 89 | 74 | 63 | 54 | 47 | 42 | 37 | 33 | 29 | 26 |
| | Deflection (L/180) | 447 | 258 | 163 | 109 | 76 | 55 | 42 | 32 | 25 | 20 | 16 | 13 | 11 | 9 | 8 | 6 |
| | Deflection (L/240) | 335 | 194 | 122 | 81 | 57 | 41 | 31 | 24 | 19 | 15 | 12 | 10 | 8 | 7 | 6 | 5 |
| 2 Span | Positive Wind | 392 | 276 | 205 | 158 | 125 | 102 | 84 | 71 | 60 | 52 | 45 | 40 | 35 | 31 | 28 | 25 |
| | Negative Wind | 407 | 287 | 213 | 164 | 130 | 106 | 87 | 74 | 63 | 54 | 47 | 41 | 37 | 33 | 29 | 26 |
| | Live | 392 | 276 | 205 | 158 | 125 | 102 | 84 | 71 | 60 | 52 | 45 | 40 | 35 | 31 | 28 | 25 |
| | Deflection (L/180) | 500 | 500 | 392 | 263 | 184 | 134 | 101 | 77 | 61 | 49 | 39 | 32 | 27 | 23 | 19 | 16 |
| | Deflection (L/240) | 500 | 467 | 294 | 197 | 138 | 101 | 75 | 58 | 46 | 36 | 29 | 24 | 20 | 17 | 14 | 12 |
| 3 Span | Positive Wind | 480 | 340 | 253 | 196 | 155 | 126 | 105 | 88 | 75 | 65 | 56 | 50 | 44 | 39 | 35 | 32 |
| | Negative Wind | 497 | 353 | 263 | 203 | 161 | 131 | 109 | 92 | 78 | 67 | 59 | 52 | 46 | 41 | 37 | 33 |
| | Live | 480 | 340 | 253 | 196 | 155 | 126 | 105 | 88 | 75 | 65 | 56 | 50 | 44 | 39 | 35 | 32 |
| | Deflection (L/180) | 500 | 488 | 307 | 206 | 144 | 105 | 79 | 61 | 48 | 38 | 31 | 25 | 21 | 18 | 15 | 13 |
| | Deflection (L/240) | 500 | 366 | 230 | 154 | 108 | 79 | 59 | 45 | 36 | 28 | 23 | 19 | 16 | 13 | 11 | 9 |
| 4 Span | Positive Wind | 451 | 319 | 237 | 183 | 145 | 118 | 98 | 82 | 70 | 61 | 53 | 46 | 41 | 37 | 33 | 30 |
| | Negative Wind | 467 | 331 | 246 | 190 | 151 | 123 | 102 | 86 | 73 | 63 | 55 | 48 | 43 | 38 | 34 | 31 |
| | Live | 451 | 319 | 237 | 183 | 145 | 118 | 98 | 82 | 70 | 61 | 53 | 46 | 41 | 37 | 33 | 30 |
| | Deflection (L/180) | 500 | 500 | 326 | 218 | 153 | 112 | 84 | 64 | 51 | 40 | 33 | 27 | 22 | 19 | 16 | 14 |
| | Deflection (L/240) | 500 | 389 | 245 | 164 | 115 | 84 | 63 | 48 | 38 | 30 | 24 | 20 | 17 | 14 | 12 | 10 |

Notes:

1. Allowable uniform loads are based upon equal span lengths.
2. Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
3. Negative Wind is wind suction or uplift and is **NOT** increased by 33 1/3%.
4. Live is the allowable live or snow load.
5. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
6. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
7. The weight of the panel has **NOT** been deducted from the allowable loads.
8. Positive Wind, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
9. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
10. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.
11. Load Tables are limited to a maximum allowable load of 500 psf.