



TECHNICAL BULLETIN

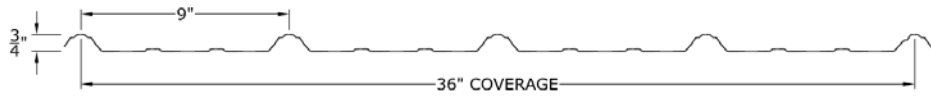
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No. 07-198-06

Max-Rib

(G100 Galvanized & 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. |
| 29 | 80.0 | 0.69 | 0.4160 | 193.50 | 253.70 | 0.0100 | 0.0172 | 0.6170 | 0.0060 | 0.0173 | 0.5100 |

- Section properties are calculated in accordance with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
- V_a is the allowable shear.
- P_a is the allowable load for web crippling on end & interior supports.
- I_x is for deflection determination.
- S_e is for bending.
- M_a is the allowable bending moment.
- 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 | 182 | 102 | 65 | 45 | 33 | 25 | 20 | 16 | 13 | 11 | 9 | 8 | 7 | 6 | 5 | 5 |
| | Negative Wind | 151 | 85 | 54 | 37 | 27 | 21 | 16 | 13 | 11 | 9 | 8 | 6 | 6 | 5 | 4 | 4 |
| | Live | 182 | 102 | 65 | 45 | 33 | 25 | 20 | 16 | 13 | 11 | 9 | 8 | 7 | 6 | 5 | 5 |
| | Deflection (L/180) | 258 | 109 | 55 | 32 | 20 | 13 | 9 | 6 | 5 | 4 | 3 | 2 | 2 | 1 | 1 | 1 |
| | Deflection (L/240) | 194 | 81 | 41 | 24 | 15 | 10 | 7 | 5 | 3 | 3 | 2 | 1 | 1 | 1 | 1 | 0 |
| 2 Span | Positive Wind | 143 | 82 | 53 | 37 | 27 | 21 | 16 | 13 | 11 | 9 | 8 | 6 | 6 | 5 | 4 | 4 |
| | Negative Wind | 169 | 98 | 63 | 44 | 33 | 25 | 20 | 16 | 13 | 11 | 9 | 8 | 7 | 6 | 5 | 5 |
| | Live | 143 | 82 | 53 | 37 | 27 | 21 | 16 | 13 | 11 | 9 | 8 | 6 | 6 | 5 | 4 | 4 |
| | Deflection (L/180) | 499 | 210 | 107 | 62 | 39 | 26 | 18 | 13 | 10 | 7 | 6 | 4 | 3 | 3 | 2 | 2 |
| | Deflection (L/240) | 374 | 157 | 80 | 46 | 29 | 19 | 13 | 10 | 7 | 5 | 4 | 3 | 2 | 2 | 2 | 1 |
| 3 Span | Positive Wind | 174 | 101 | 66 | 46 | 34 | 26 | 20 | 16 | 13 | 11 | 10 | 8 | 7 | 6 | 5 | 5 |
| | Negative Wind | 204 | 120 | 78 | 55 | 41 | 31 | 25 | 20 | 16 | 14 | 12 | 10 | 9 | 7 | 7 | 6 |
| | Live | 174 | 101 | 66 | 46 | 34 | 26 | 20 | 16 | 13 | 11 | 10 | 8 | 7 | 6 | 5 | 5 |
| | Deflection (L/180) | 390 | 164 | 84 | 48 | 30 | 20 | 14 | 10 | 7 | 6 | 4 | 3 | 3 | 2 | 2 | 1 |
| | Deflection (L/240) | 293 | 123 | 63 | 36 | 23 | 15 | 10 | 7 | 5 | 4 | 3 | 2 | 2 | 1 | 1 | 1 |
| 4 Span | Positive Wind | 164 | 95 | 61 | 43 | 31 | 24 | 19 | 15 | 13 | 10 | 9 | 8 | 7 | 6 | 5 | 4 |
| | Negative Wind | 193 | 113 | 73 | 51 | 38 | 29 | 23 | 19 | 15 | 13 | 11 | 9 | 8 | 7 | 6 | 5 |
| | Live | 164 | 95 | 61 | 43 | 31 | 24 | 19 | 15 | 13 | 10 | 9 | 8 | 7 | 6 | 5 | 4 |
| | Deflection (L/180) | 415 | 175 | 89 | 51 | 32 | 21 | 15 | 11 | 8 | 6 | 5 | 4 | 3 | 2 | 2 | 1 |
| | Deflection (L/240) | 311 | 131 | 67 | 38 | 24 | 16 | 11 | 8 | 6 | 4 | 3 | 3 | 2 | 2 | 1 | 1 |

Notes:

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

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