



Maxima 1.5 16"

(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 | 1.18 | 0.7790 | 218.90 | 335.00 | 0.0659 | 0.0483 | 1.4470 | 0.0320 | 0.0422 | 1.1930 |

- 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 | | | | | | | | | | | | | | | |
|--------------------------------|--------------------|--------------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|
| | | 1.00 | 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 |
| Single | Positive Wind | 500 | 428 | 241 | 154 | 107 | 78 | 60 | 47 | 38 | 31 | 26 | 22 | 19 | 17 | 15 | 13 |
| | Live | 500 | 428 | 241 | 154 | 107 | 78 | 60 | 47 | 38 | 31 | 26 | 22 | 19 | 17 | 15 | 13 |
| | Deflection (L/180) | 500 | 500 | 500 | 368 | 213 | 134 | 90 | 63 | 46 | 34 | 26 | 20 | 16 | 13 | 11 | 9 |
| | Deflection (L/240) | 500 | 500 | 500 | 276 | 160 | 100 | 67 | 47 | 34 | 25 | 20 | 15 | 12 | 10 | 8 | 7 |
| 2 Span | Positive Wind | 500 | 325 | 189 | 123 | 86 | 63 | 49 | 38 | 31 | 26 | 21 | 18 | 16 | 14 | 12 | 10 |
| | Live | 500 | 325 | 189 | 123 | 86 | 63 | 49 | 38 | 31 | 26 | 21 | 18 | 16 | 14 | 12 | 10 |
| | Deflection (L/180) | 500 | 500 | 500 | 500 | 381 | 240 | 161 | 113 | 82 | 61 | 47 | 37 | 30 | 24 | 20 | 16 |
| | Deflection (L/240) | 500 | 500 | 500 | 494 | 286 | 180 | 120 | 84 | 61 | 46 | 35 | 28 | 22 | 18 | 15 | 12 |
| 3 Span | Positive Wind | 500 | 393 | 232 | 152 | 107 | 79 | 61 | 48 | 39 | 32 | 27 | 23 | 20 | 17 | 15 | 13 |
| | Live | 500 | 393 | 232 | 152 | 107 | 79 | 61 | 48 | 39 | 32 | 27 | 23 | 20 | 17 | 15 | 13 |
| | Deflection (L/180) | 500 | 500 | 500 | 500 | 299 | 188 | 126 | 88 | 64 | 48 | 37 | 29 | 23 | 19 | 15 | 13 |
| | Deflection (L/240) | 500 | 500 | 500 | 387 | 224 | 141 | 94 | 66 | 48 | 36 | 28 | 22 | 17 | 14 | 11 | 9 |
| 4 Span | Positive Wind | 500 | 371 | 218 | 142 | 100 | 74 | 57 | 45 | 36 | 30 | 25 | 21 | 18 | 16 | 14 | 12 |
| | Live | 500 | 371 | 218 | 142 | 100 | 74 | 57 | 45 | 36 | 30 | 25 | 21 | 18 | 16 | 14 | 12 |
| | Deflection (L/180) | 500 | 500 | 500 | 500 | 317 | 199 | 133 | 94 | 68 | 51 | 39 | 31 | 24 | 20 | 16 | 13 |
| | Deflection (L/240) | 500 | 500 | 500 | 411 | 238 | 149 | 100 | 70 | 51 | 38 | 29 | 23 | 18 | 15 | 12 | 10 |
| ASTM E1592 Wind Uplift Testing | | 161.9 | 148.7 | 135.5 | 122.2 | 109.0 | 97.6 | 86.2 | 74.7 | 63.3 | | | | | | | |

Notes:

- Allowable uniform loads are based upon equal span lengths.
- Positive Wind is wind pressure 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 and Live load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
- Values of ASTM E1592 Wind Uplift Testing include a factor of safety of 1.67. Shaded areas are outside of test range. Contact McElroy Metal for more information.
- 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.