

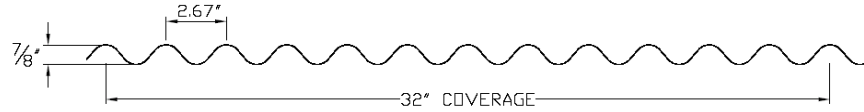


TECHNICAL BULLETIN

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No. 07-229-06

Multi-Cor



| 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 | 80.0 | 1.02 | 1.6154 | 543.28 | 680.70 | 0.0259 | 0.0572 | 2.0550 | 0.0259 | 0.0572 | 2.0550 |

- 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 | 608 | 342 | 219 | 152 | 111 | 85 | 67 | 54 | 45 | 38 | 32 | 27 | 24 | 21 | 18 | 16 |
| | Negative Wind | 608 | 342 | 219 | 152 | 111 | 85 | 67 | 54 | 45 | 38 | 32 | 27 | 24 | 21 | 18 | 16 |
| | Live | 608 | 342 | 219 | 152 | 111 | 85 | 67 | 54 | 45 | 38 | 32 | 27 | 24 | 21 | 18 | 16 |
| | Deflection (L/180) | 670 | 282 | 144 | 83 | 52 | 35 | 24 | 18 | 13 | 10 | 8 | 6 | 5 | 4 | 3 | 3 |
| | Deflection (L/240) | 503 | 212 | 108 | 62 | 39 | 26 | 18 | 13 | 10 | 7 | 6 | 4 | 4 | 3 | 2 | 2 |
| 2 Span | Positive Wind | 363 | 272 | 214 | 149 | 110 | 84 | 67 | 54 | 45 | 37 | 32 | 27 | 24 | 21 | 18 | 16 |
| | Negative Wind | 574 | 331 | 214 | 149 | 110 | 84 | 67 | 54 | 45 | 37 | 32 | 27 | 24 | 21 | 18 | 16 |
| | Live | 363 | 272 | 214 | 149 | 110 | 84 | 67 | 54 | 45 | 37 | 32 | 27 | 24 | 21 | 18 | 16 |
| | Deflection (L/180) | 1615 | 681 | 349 | 201 | 127 | 85 | 59 | 43 | 32 | 25 | 19 | 15 | 12 | 10 | 8 | 7 |
| | Deflection (L/240) | 1211 | 511 | 261 | 151 | 95 | 63 | 44 | 32 | 24 | 18 | 14 | 11 | 9 | 7 | 6 | 5 |
| 3 Span | Positive Wind | 412 | 309 | 247 | 186 | 137 | 105 | 83 | 67 | 56 | 47 | 40 | 34 | 30 | 26 | 23 | 21 |
| | Negative Wind | 700 | 407 | 265 | 186 | 137 | 105 | 83 | 67 | 56 | 47 | 40 | 34 | 30 | 26 | 23 | 21 |
| | Live | 412 | 309 | 247 | 186 | 137 | 105 | 83 | 67 | 56 | 47 | 40 | 34 | 30 | 26 | 23 | 21 |
| | Deflection (L/180) | 1265 | 534 | 273 | 158 | 99 | 66 | 46 | 34 | 25 | 19 | 15 | 12 | 10 | 8 | 6 | 5 |
| | Deflection (L/240) | 949 | 400 | 205 | 118 | 74 | 50 | 35 | 25 | 19 | 14 | 11 | 9 | 7 | 6 | 5 | 4 |
| 4 Span | Positive Wind | 397 | 297 | 238 | 174 | 128 | 98 | 78 | 63 | 52 | 44 | 37 | 32 | 28 | 24 | 22 | 19 |
| | Negative Wind | 659 | 382 | 248 | 174 | 128 | 98 | 78 | 63 | 52 | 44 | 37 | 32 | 28 | 24 | 22 | 19 |
| | Live | 397 | 297 | 238 | 174 | 128 | 98 | 78 | 63 | 52 | 44 | 37 | 32 | 28 | 24 | 22 | 19 |
| | Deflection (L/180) | 1343 | 566 | 290 | 167 | 105 | 70 | 49 | 36 | 27 | 20 | 16 | 13 | 10 | 8 | 7 | 6 |
| | Deflection (L/240) | 1007 | 425 | 217 | 125 | 79 | 53 | 37 | 27 | 20 | 15 | 12 | 9 | 8 | 6 | 5 | 4 |

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".

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