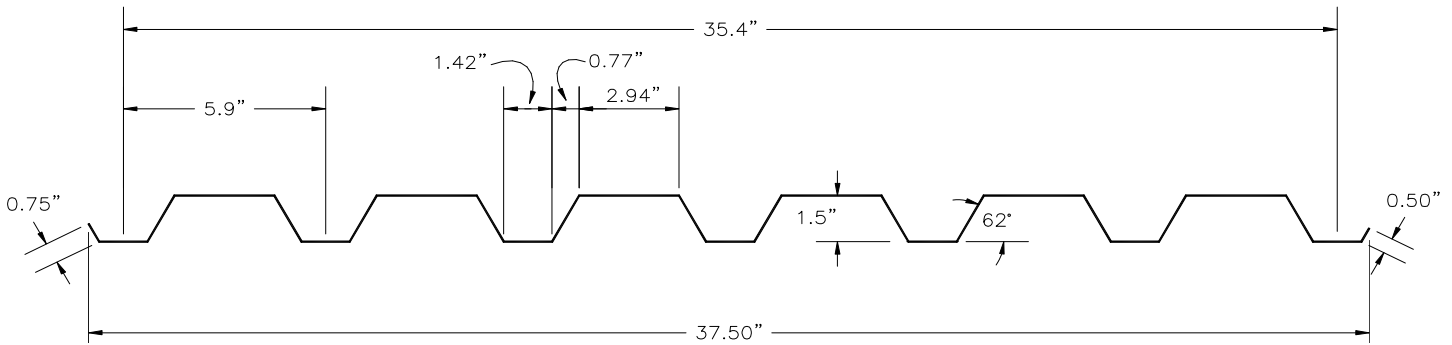




ARCHITECTURAL SYSTEMS, LLC

FLOLINE 900R PANEL



| SECTION PROPERTIES | | | | | | TOP IN COMPRESSION | | | BOTTOM IN COMPRESSION | | |
|--------------------|----------|--------------|-----------|-------------|-------------|--------------------------|--------------------------|--------------|--------------------------|--------------------------|--------------|
| GAUGE | FY (KSI) | WEIGHT (PSF) | Vn kip/ft | REXn lbs/ft | RINn lbs/ft | Ix (in ⁴ /ft) | Sx (in ³ /ft) | Ma kip-in/ft | Ix (in ⁴ /ft) | Sx (in ³ /ft) | Ma kip-in/ft |
| 24 | 50 | 1.33 | 2.161 | 577 | 895 | 0.1063 | 0.128 | 3.84 | 0.1334 | 0.1443 | 4.33 |

1. Section properties are calculated in accordance with the 2007 AISI North American Specification for the Design of Cold-Formed Structural Members.
2. Vn is the nominal web shear strength.
3. REXn is the nominal end-of-panel bearing strength (2" bearing)
4. RINn is the nominal panel bearing strength at interior supports (2" bearing)
4. Ix is Moment of Inertia for deflection determination
5. Sx is Section modulus for bending
6. Ma 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 | | | | | | | | | | | | | | | |
|-----------|--------------------|--------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| | | 1.50 | 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 | 769.12 | 576.84 | 409.60 | 284.45 | 208.98 | 160.00 | 126.42 | 102.40 | 84.63 | 71.11 | 60.59 | 52.25 | 45.51 | 40.00 | 35.43 | 31.61 |
| | Negative Wind | 769.12 | 576.84 | 461.47 | 320.71 | 235.62 | 180.40 | 142.54 | 115.45 | 95.42 | 80.18 | 68.32 | 58.91 | 51.31 | 45.10 | 39.95 | 35.63 |
| | Live | 769.12 | 576.84 | 409.60 | 284.45 | 208.98 | 160.00 | 126.42 | 102.40 | 84.63 | 71.11 | 60.59 | 52.25 | 45.51 | 40.00 | 35.43 | 31.61 |
| | Deflection (L/180) | 3008.33 | 1269.93 | 650.83 | 377.23 | 238.03 | 159.93 | 112.73 | 82.53 | 62.33 | 48.33 | 38.33 | 30.93 | 25.43 | 21.13 | 17.83 | 15.23 |
| | Deflection (L/240) | 2256.53 | 952.73 | 488.43 | 283.23 | 178.83 | 120.23 | 84.83 | 62.23 | 47.03 | 36.53 | 29.03 | 23.53 | 19.33 | 16.23 | 13.73 | 11.73 |
| Double | Positive Wind | 477.41 | 358.06 | 286.45 | 238.71 | 204.60 | 179.03 | 142.54 | 115.45 | 95.42 | 80.18 | 68.32 | 58.91 | 51.31 | 45.10 | 39.95 | 35.63 |
| | Negative Wind | 477.41 | 358.06 | 286.45 | 238.71 | 204.60 | 160.00 | 126.42 | 102.40 | 84.63 | 71.11 | 60.59 | 52.25 | 45.51 | 40.00 | 35.43 | 31.61 |
| | Live | 477.41 | 358.06 | 286.45 | 238.71 | 204.60 | 179.03 | 142.54 | 115.45 | 95.42 | 80.18 | 68.32 | 58.91 | 51.31 | 45.10 | 39.95 | 35.63 |
| | Deflection (L/180) | 7244.73 | 3057.13 | 1565.93 | 906.73 | 571.53 | 383.33 | 269.63 | 196.93 | 148.23 | 114.53 | 90.33 | 72.63 | 59.23 | 49.03 | 41.13 | 34.83 |
| | Deflection (L/240) | 5433.83 | 2293.13 | 1174.73 | 680.43 | 428.93 | 287.83 | 202.53 | 148.03 | 111.53 | 86.23 | 68.13 | 54.83 | 44.83 | 37.13 | 31.23 | 26.53 |
| Triple | Positive Wind | 542.51 | 406.88 | 325.51 | 271.26 | 232.51 | 203.44 | 178.17 | 144.32 | 119.27 | 100.22 | 85.40 | 73.63 | 64.14 | 56.37 | 49.94 | 44.54 |
| | Negative Wind | 542.51 | 406.88 | 325.51 | 271.26 | 232.51 | 200.00 | 158.03 | 128.00 | 105.79 | 88.89 | 75.74 | 65.31 | 56.89 | 50.00 | 44.29 | 39.51 |
| | Live | 542.51 | 406.88 | 325.51 | 271.26 | 232.51 | 203.44 | 178.17 | 144.32 | 119.27 | 100.22 | 85.40 | 73.63 | 64.14 | 56.37 | 49.94 | 44.54 |
| | Deflection (L/180) | 5692.23 | 2402.23 | 1230.53 | 712.73 | 449.33 | 301.43 | 212.13 | 155.03 | 116.73 | 90.23 | 71.23 | 57.33 | 46.83 | 38.83 | 32.63 | 27.63 |
| | Deflection (L/240) | 4269.53 | 1801.93 | 923.23 | 534.83 | 337.33 | 226.43 | 159.43 | 116.53 | 87.93 | 68.03 | 53.83 | 43.33 | 35.43 | 29.43 | 24.83 | 21.13 |

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.
9. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2" at end supports and 2" at interior supports