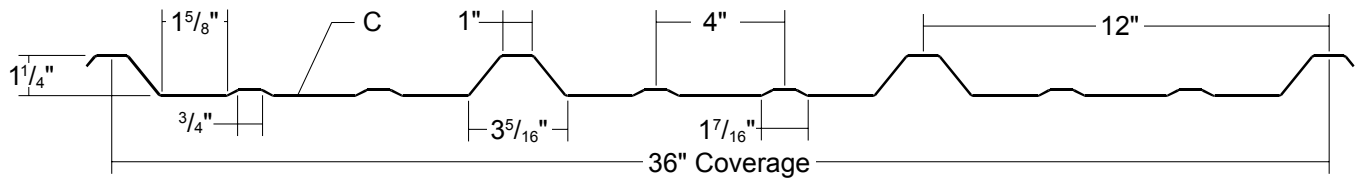


R-PANEL

Condensed
Technical
Reference



ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL

EXPOSED
FASTENED

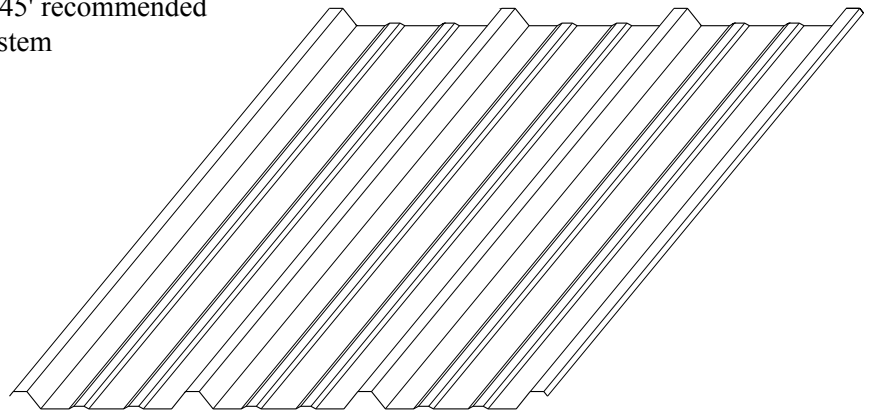
36"
COVERAGE

WALL
PANEL

OPEN FRAMING OR
SOLID SUBSTRATE

PANEL OVERVIEW

- ▶ Finishes: PVDF, MS Colorfast45[®] and Acrylic-Coated Galvalume[®]
- ▶ Corrosion Protection: AZ55 per ASTM A 792 for unpainted Galvalume[®]
AZ50 per ASTM A 792 for painted Galvalume[®]
G90 per ASTM A 653 for Galvanized
- ▶ Gauges: 26 ga and 24 ga standard; 22 ga optional
- ▶ 36" panel coverage, 1 1/4" rib height
- ▶ Panel Length: Minimum: 5'; Maximum: 45' recommended
- ▶ Exposed fastened metal building wall system
- ▶ Trapezoidal rib on 12" centers



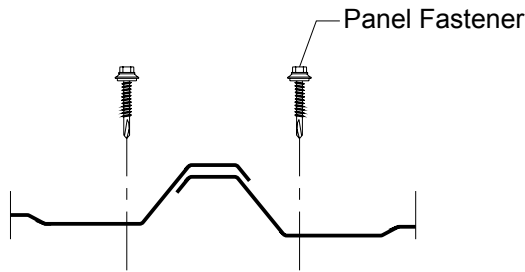
TESTING AND APPROVALS

- ▶ UL 2218 Impact Resistance - Class 4
- ▶ UL 790 Fire Resistance Rating - Class A, per building code
- ▶ UL 263 Fire Resistance Rating - per assembly
- ▶ UL 580 Uplift Resistance - Class 90 Construction: #161
- ▶ Texas Windstorm - Evaluations RC-198 and RC-279
- ▶ 2017 FBC Approvals - FL9482.4 and FL14645.13
- ▶ Miami-Dade County, Florida NOA 18-0131.04 - Wall expires 4/22/2020
- ▶ ICC Evaluation Report - ESR-2385

MS metal sales[™]
manufacturing corporation

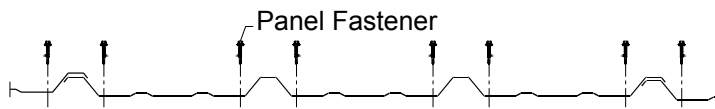
R-PANEL

ATTACHMENT DETAIL

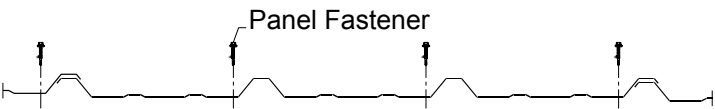


FASTENING PATTERNS

End of Panel



Field of Panel



FASTENER INFORMATION

Overdriven fasteners will cause panel distortions.

Fasteners should extend 1/2" or more past the inside face of the support material.

Thick panels (ex. 18 ga) or supports (ex. 1/2" steel) may require predrilling of holes for screws.

Panel Fastener:

Attaching to Wood:

#10-14 XL Wood Screw

Attaching to Steel:

#12-14 XL Self Drilling Screw

Trim Fastener:

1/4"-14 x 7/8" XL Stitch Screw

SECTION PROPERTIES

ALLOWABLE UNIFORM LIVE LOADS, psf For various fastener spacings

| Ga | Width in | Yield ksi | Weight psf | Top in Compression | | Bottom in Compression | | Inward Load | | | | | | Outward Load | | | | | |
|----|-------------|--------------|---------------|--|--|--|--|-------------|-----|-----|----|----|----|--------------|-----|-----|----|----|----|
| | | | | I _{xx} in ⁴ /ft | S _{xx} in ³ /ft | I _{xx} in ⁴ /ft | S _{xx} in ³ /ft | 2' | 3' | 4' | 5' | 6' | 7' | 2' | 3' | 4' | 5' | 6' | 7' |
| | | | | | | | | | | | | | | | | | | | |
| 26 | 36 | 80 | 0.80 | 0.0357 | 0.0357 | 0.0303 | 0.0448 | 245 | 123 | 73 | 48 | 34 | 23 | 211 | 102 | 60 | 39 | 27 | 20 |
| 24 | 36 | 50 | 1.05 | 0.0543 | 0.0560 | 0.0437 | 0.0600 | 317 | 149 | 85 | 55 | 38 | 28 | 299 | 140 | 80 | 52 | 36 | 26 |
| 22 | 36 | 50 | 1.38 | 0.0780 | 0.0822 | 0.0613 | 0.0798 | 437 | 201 | 115 | 74 | 51 | 38 | 448 | 207 | 118 | 76 | 53 | 39 |

- Theoretical section properties have been calculated per AISI 2016 'North American Specification for the Design of Cold-Formed Steel Structural Members'. I_{xx} and S_{xx} are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2016 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers the 3 or more equal spans condition. Allowable load does not address web crippling, fasteners, support material or load testing. Panel weight is not considered.
- Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
- Allowable loads do not include a 1/3 stress increase for wind.