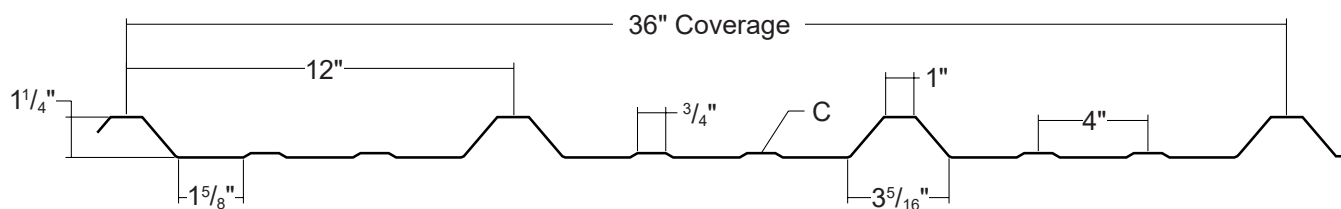


PBR-PANEL

**Condensed
Technical
Reference**



**COMMERCIAL
INDUSTRIAL
PANEL**

**EXPOSED
FASTENED**

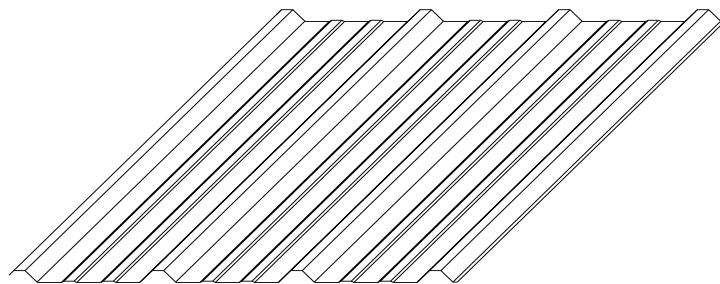
**36"
COVERAGE**

**MINIMUM
SLOPE
1:12**

**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 roof and wall system
- ▶ Panels can be installed horizontally or vertically
- ▶ Trapezoidal rib on 12" centers
- ▶ Minimum roof slope: 1:12
- ▶ Optional material availability: Bonderized

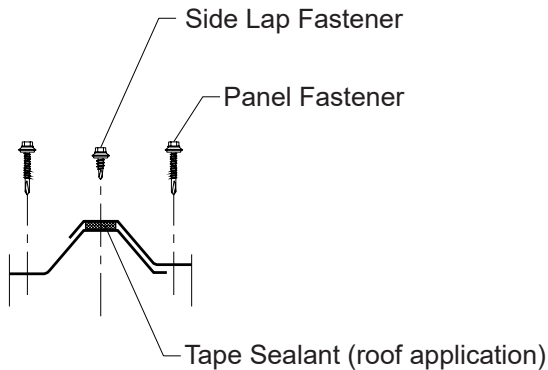


TESTING AND APPROVALS

- ▶ UL 2218 Impact Resistance - Class 4
- ▶ UL 790 Fire Resistance Rating - Class A, per building code
- ▶ UL 263 Fire Resistance Rating - per assembly
- ▶ ASTM E 1592 Structural Performance
- ▶ UL 580 Uplift Resistance - Class 90 Construction: #161
- ▶ Texas Windstorm - Evaluations RC-198, RC-265 and RC-279
- ▶ 2023 FBC Approvals - FL9482.4, FL10999.7, FL14645.11, FL46539.3, 17814.2 and 47815.2
- ▶ Miami-Dade County, Florida NOA 23-1214.04 - Wall expires 4/22/2030
- ▶ Miami-Dade County, Florida NOA 23-1214.05 - Roof expires 4/22/2030
- ▶ ICC Evaluation Report - ESR-2385

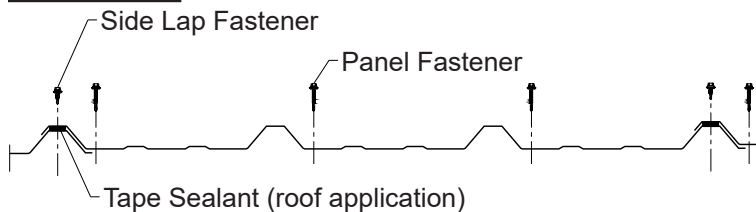
MS Metal Sales™

ATTACHMENT DETAIL

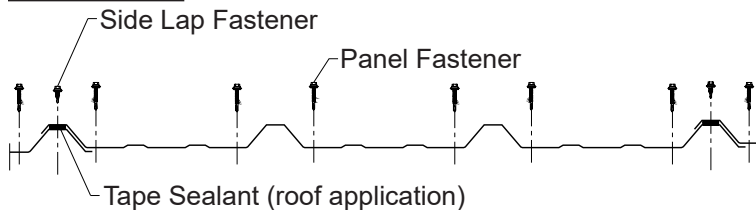


FASTENING PATTERNS

Field of Panel



Ends 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

Side Lap Fastener: Spaced 12" on center

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

Trim Fastener:

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

Tape Sealant:

Single Bead: 3/8 x 3/32 x 50' Roll

SECTION PROPERTIES

								For various fastener spacings											
Ga	Width in	Yield ksi	Weight psf	Top in Compression		Bottom in Compression		Inward Load						Outward Load					
				Ixx in ⁴ /ft	Sxx in ³ /ft	Ixx in ⁴ /ft	Sxx in ³ /ft	2'	3'	4'	5'	6'	7'	2'	3'	4'	5'	6'	7'
26	36	80	0.84	0.0367	0.0367	0.0317	0.0458	244	114	65	42	29	22	236	110	63	40	28	21
24	36	50	1.09	0.0560	0.0579	0.0457	0.0613	335	154	88	57	39	29	318	146	83	53	37	27
22	36	50	1.43	0.0800	0.0860	0.0633	0.0816	455	207	118	76	53	39	477	218	124	80	55	41

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