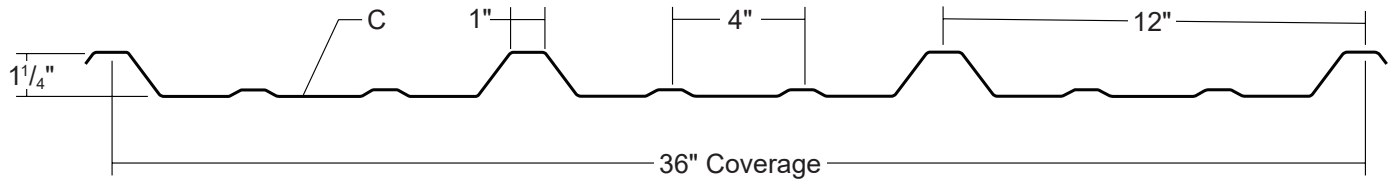


R-PANEL

**Condensed
Technical
Reference**



**ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL**

**EXPOSED
FASTENED**

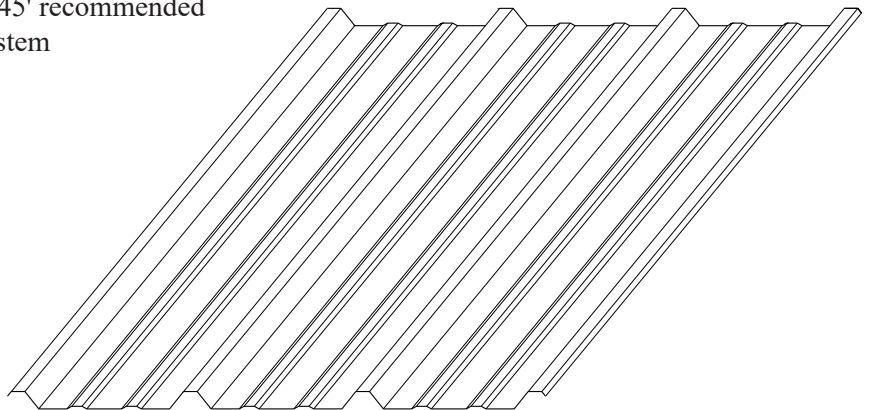
**36"
COVERAGE**

**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

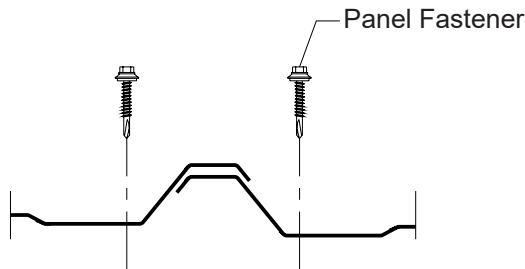
- ▶ UL 2218 Impact Resistance - Class 4
- ▶ UL 790 Fire Resistance Rating - Class A, per building code
- ▶ UL 263 Fire Resistance Rating - per assembly
- ▶ UL 580 Uplift Resistance - Class 90 Construction: #161
- ▶ Texas Windstorm - Evaluations RC-198 and RC-279
- ▶ 2023 FBC Approvals - FL9482.4, FL14645.11 and FL46539.3
- ▶ Miami-Dade County, Florida NOA 20-0331.02 - Wall expires 4/22/2025
- ▶ ICC Evaluation Report - ESR-2385

MS Metal Sales™

R-PANEL

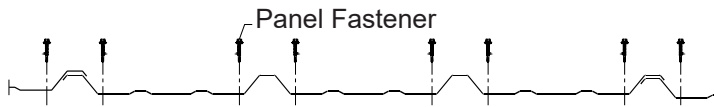
Condensed Technical Reference

ATTACHMENT DETAIL

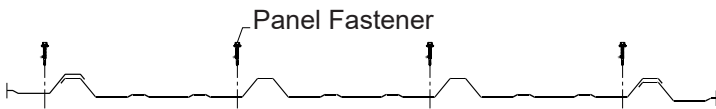


FASTENING PATTERNS

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						
				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	0.80	0.0357	0.0357	0.0305	0.0448	218	106	62	40	28	21	211	102	60	39	27	20		
24	36	50	1.05	0.0544	0.0560	0.0438	0.0600	317	148	85	55	38	28	299	139	80	51	36	26		
22	36	50	1.38	0.0781	0.0822	0.0612	0.0798	436	201	114	74	51	38	448	206	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'. Ixx and Sxx 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.

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