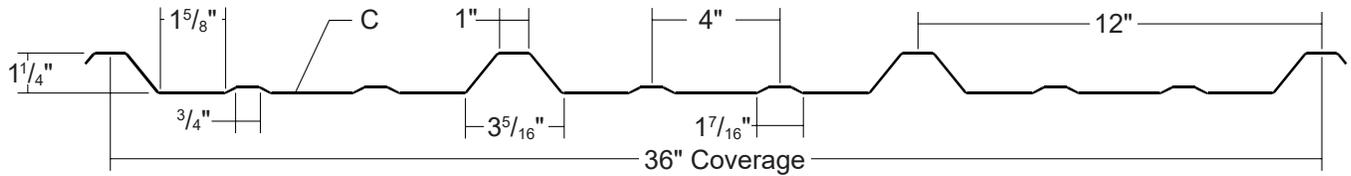


R-PANEL

Condensed
Technical
Reference



ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL

EXPOSED
FASTENED

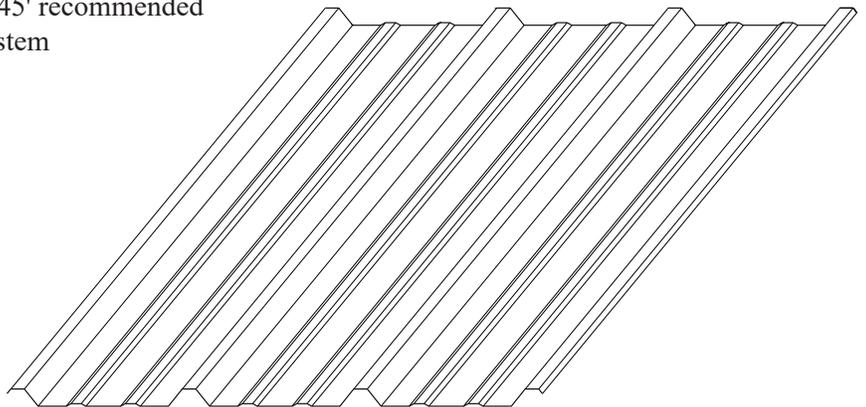
36"
COVERAGE

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

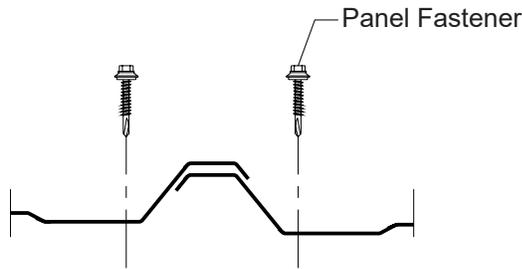


TESTING AND APPROVALS

- ▶ 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

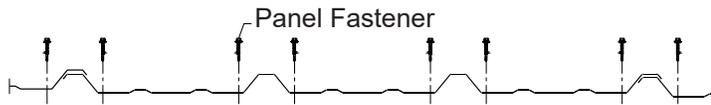
ms metal sales[™]
manufacturing corporation

ATTACHMENT DETAIL

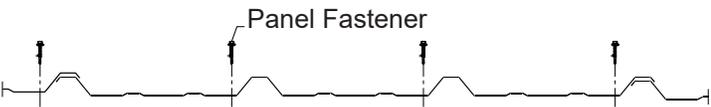


FASTENING PATTERNS

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'	
				l _{xx}	S _{xx}	l _{xx}	S _{xx}	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 2012 '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 2012 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.