

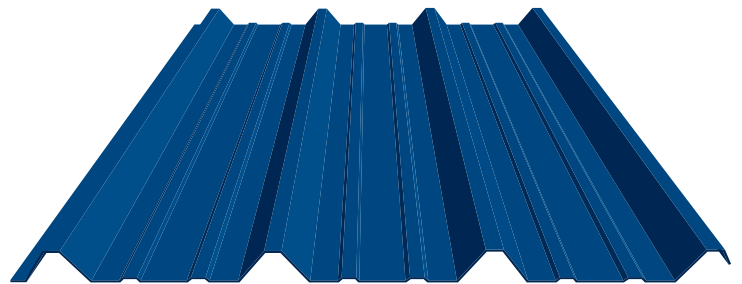
# PBR-Panel

## Metal Sales Manufacturing Corporation



### Metal Roof and Wall Panel

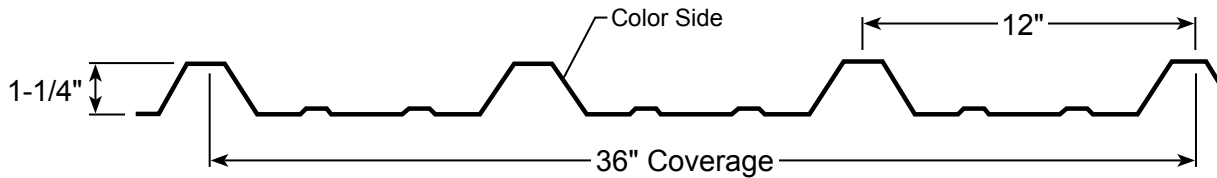
- ▶ Choose from PVDF (Kynar 500®), MS Colorfast45® or Acrylic Coated Galvalume®
- ▶ Available in a wide variety of ENERGY STAR® listed colors
- ▶ Installs over open framing or a solid substrate
- ▶ 24 gauge and 26 gauge standard
- ▶ Minimum 1:12 slope



800.406.7387  
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## PROFILE



## TESTING

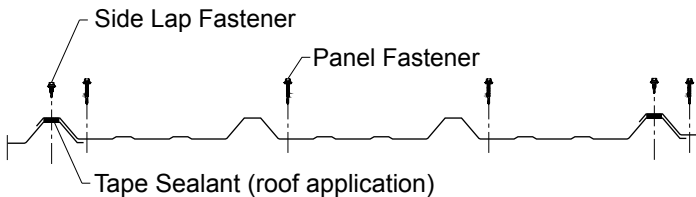
- ▶ **UL 2218 Impact Resistance:** Class 4
- ▶ **UL 790 Fire Resistance Rating:** Class A, per building code
- ▶ **UL 263 Fire Resistance Rating:** per assembly
- ▶ **ASTM E 1592:** Structural Performance
- ▶ **UL 580 Uplift Resistance Class 90 Construction:** #161
- ▶ **Texas Wind Storm:** Evaluation RC-265
- ▶ **2010 FBC Approvals:** FL9482.4, FL10999.7 and FL14645.11
- ▶ **Miami-Dade County, Florida:** NOA 09-0113.01 - Wall
- ▶ **Miami-Dade County, Florida:** NOA 10-0427.04 - Roof

## GENERAL INFORMATION

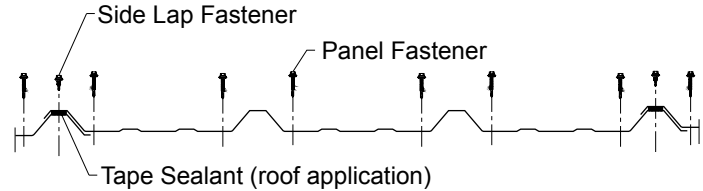
- ▶ **Roof Slope:** Minimum 1:12
- ▶ **Substructure:** PBR-Panel is designed to be utilized over open framing or a solid substrate with a minimum 30# felt underlayment. To avoid panel distortion, use a properly aligned and uniform substructure.
- ▶ **Factory Cut Panel Length:** Minimum 5'-0". Maximum 45'-0"
- ▶ **Finishes:** Galvalume®, MS Colorfast45®, or PVDF (Kynar 500®) colors.
- ▶ **Panel Fastener:** Attaching to Wood: #10-14 XL Wood Screw, Attaching to Steel: #12-14 XL Self Drilling Screw
- ▶ **Side Lap Fastener:** 1/4"-14 x 7/8" XL Stitch Screw
- ▶ **Trim Fastener:** 1/4"-14 x 7/8" XL Stitch Screw

## FASTENING PATTERNS

### Field of Panel



### Ends of Panel



For all specific warranty, application, installation, and technical information regarding these products, contact your Metal Sales representative.

## LOAD TABLE

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 <sub>xx</sub> in <sup>4</sup> /ft	S <sub>xx</sub> in <sup>3</sup> /ft	I <sub>xx</sub> in <sup>4</sup> /ft	S <sub>xx</sub> in <sup>3</sup> /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	261	129	76	49	35	23	223	107	62	40	28	21		
24	36	50	1.09	0.0560	0.0579	0.0457	0.0613	330	153	88	57	39	29	314	145	83	53	37	27		
22	36	50	1.43	0.0800	0.0860	0.0633	0.0816	453	207	118	76	53	39	474	218	124	80	55	40		

1. Theoretical section properties have been calculated per AISI 2007 'North American Specification for the Design of Cold-Formed Steel Structural Members'.  
I<sub>xx</sub> and S<sub>xx</sub> are effective section properties for deflection and bending.
2. Allowable load is calculated in accordance with AISI 2007 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.
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.

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