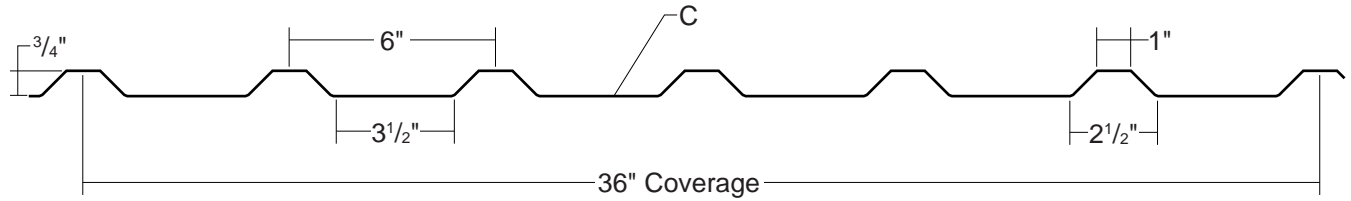


# PBU-PANEL

**CONDENSED  
TECHNICAL  
REFERENCE**



**COMMERCIAL  
INDUSTRIAL  
PANEL**

**EXPOSED  
FASTENED**

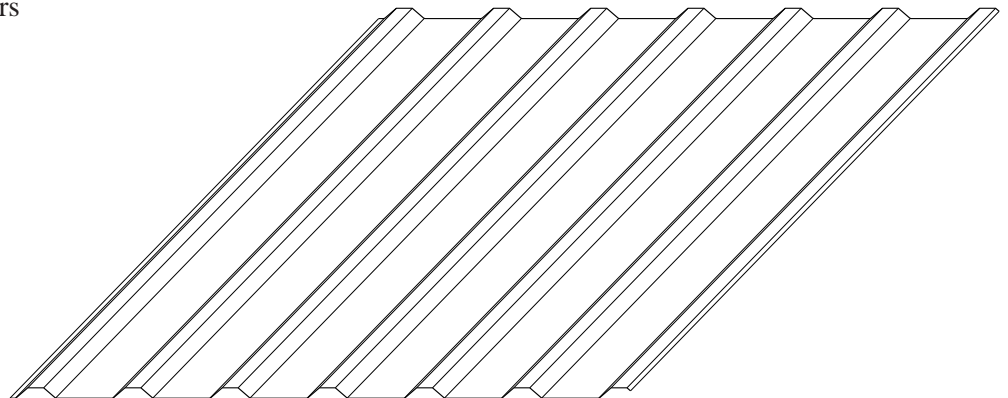
**36"  
COVERAGE**

**MINIMUM  
SLOPE  
1:12**

**OPEN FRAMING OR  
SOLID SUBSTRATE**

## PANEL OVERVIEW

- ▶ Finishes: PVDF (Kynar 500®), 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, 3/4" rib height
- ▶ Panel Length: Minimum: 5'; Maximum: 45' recommended
- ▶ Exposed fastened metal building roof and wall system
- ▶ Trapezoidal rib on 6" centers
- ▶ Minimum roof slope: 1:12



## TESTING AND APPROVALS

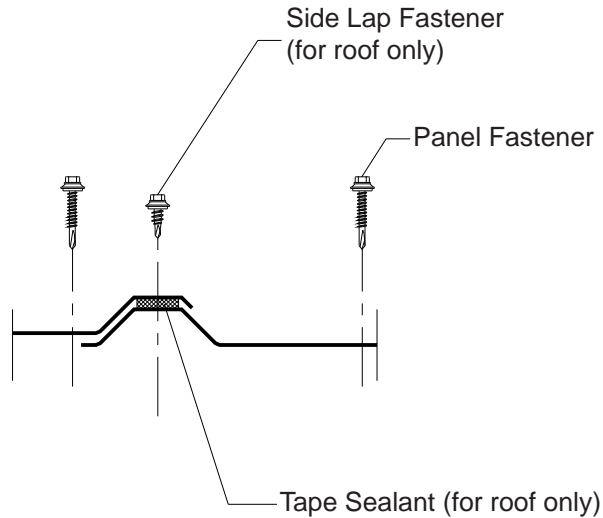
- ▶ UL 2218 Impact Resistance - Class 4
- ▶ UL 790 Fire Resistance Rating - Class A, per building code
- ▶ UL 263 Fire Resistance Rating - per assembly
- ▶ UL 580 Uplift Resistance - Class 90 Construction: #39

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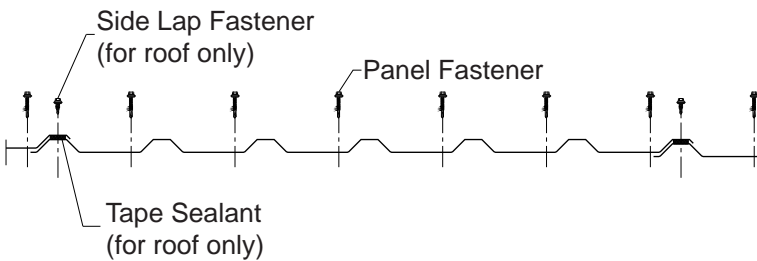
# PBU-PANEL

## CONDENSED TECHNICAL REFERENCE

### ATTACHMENT DETAIL



### FASTENING PATTERN



### 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:

1/4"-14 x 7/8" XL Stitch 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 <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	0.83	0.0193	0.0356	0.0130	0.0372	249	114	58	30	17	11	240	109	58	30	17	11		
24	36	50	1.08	0.0277	0.0526	0.0190	0.0486	274	124	70	40	23	14	294	134	76	40	23	14		
22	36	50	1.42	0.0400	0.0746	0.0267	0.0680	381	173	98	53	31	19	414	189	103	53	31	19		

- 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.
- 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.
- 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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