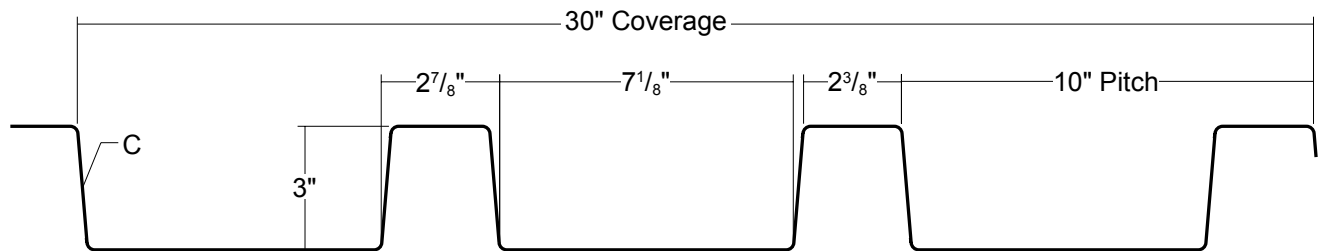


# T13-B ROOF PANEL

**CONDENSED  
TECHNICAL  
REFERENCE**



**ARCHITECTURAL  
COMMERCIAL  
INDUSTRIAL  
PANEL**

**EXPOSED  
FASTENED**

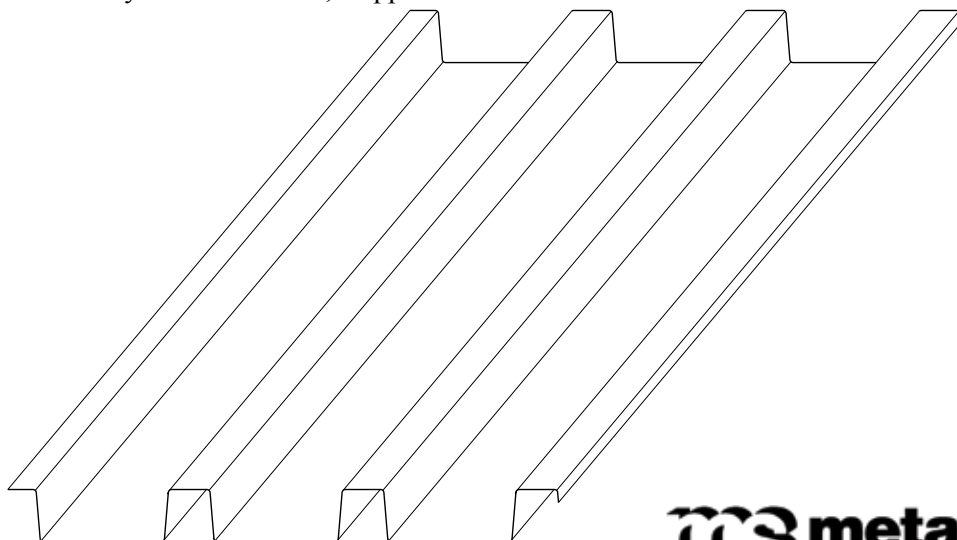
**30"  
COVERAGE**

**MINIMUM  
SLOPE  
1:12**

**OPEN FRAMING OR  
SOLID SUBSTRATE**

## PANEL OVERVIEW

- ▶ Finishes: Standard: PVDF (Kynar 500®)  
Optional: Multi-pass Kynar®, Marblique, Plastisol, Polyester and MS Colorfast45® (SMP)
- ▶ 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: 24 ga, 22 ga, 20 ga and 18 ga
- ▶ 30" panel coverage, 3" rib height
- ▶ Trapezoidal ribs on 10" centers
- ▶ Panel Length: 5' minimum, 32' maximum
- ▶ Exposed Fastened Panel
- ▶ Minimum Roof Slope 1:12
- ▶ Optional material availability: Stainless Steel, Copper and Aluminum

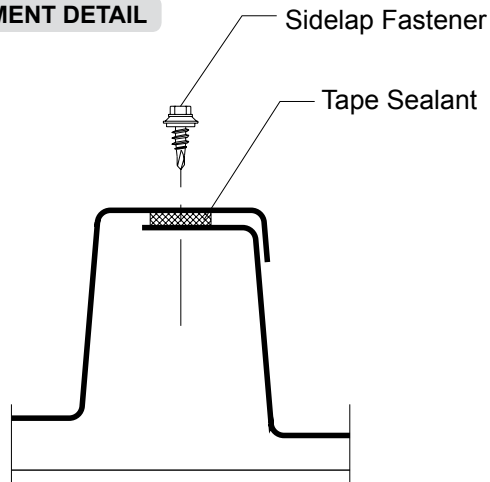


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# T13-B ROOF PANEL

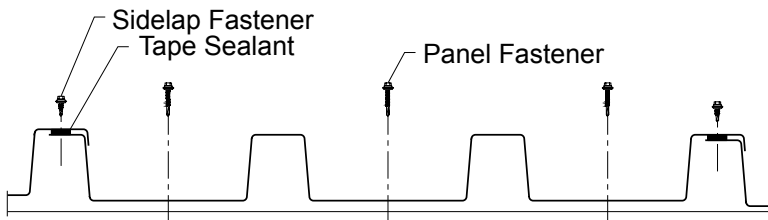
## CONDENSED TECHNICAL REFERENCE

### ATTACHMENT DETAIL



### FASTENING PATTERN

#### Ends and Field of Panel



### FASTENER INFORMATION

Overdriven fasteners will cause panel distortion.

Panel 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

Sidelap Fastener:

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

Trim Fastener:

1/8" x 3/16" Pop Rivet

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

### SECTION PROPERTIES

### ALLOWABLE UNIFORM LOADS psf (3 or More Equal Spans)

Ga.	Width in	Yield ksi	Weight psf	Top In Compression				Bottom In Compression				Inward Load						Outward Load					
				Ixx in <sup>4</sup> /ft		Sxx in <sup>3</sup> /ft		Ixx in <sup>4</sup> /ft		Sxx in <sup>3</sup> /ft		5'		6'		7'		8'		10'		12'	
				5'	6'	7'	8'	10'	12'	5'	6'	7'	8'	10'	12'	5'	6'	7'	8'	10'	12'		
24	30"	50	1.45	0.4324	0.1961	0.3328	0.1875	151	109	82	64	42	29	157	114	86	67	44	31				
22	30"	50	1.90	0.6456	0.3092	0.4804	0.2832	247	175	130	101	64	45	267	190	141	109	71	49				
20	30"	33	2.32	0.9080	0.4627	0.6560	0.4096	243	171	126	97	63	44	272	192	142	109	70	49				
18	30"	33	3.06	1.2680	0.6596	0.9360	0.6148	363	255	189	145	94	65	386	272	202	156	100	70				

- Theoretical section properties have been calculated per AISI 2007 'North American Specification for the Design of Cold-Formed Steel Structural Members'. Ixx and Sxx are effective section properties for deflection and bending.
- Allowable loads are calculated in accordance with AISI 2007 specifications considering bending, shear, combined bending and shear and deflection. Allowable loads consider the 3 or more equal span condition. Allowable loads do 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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