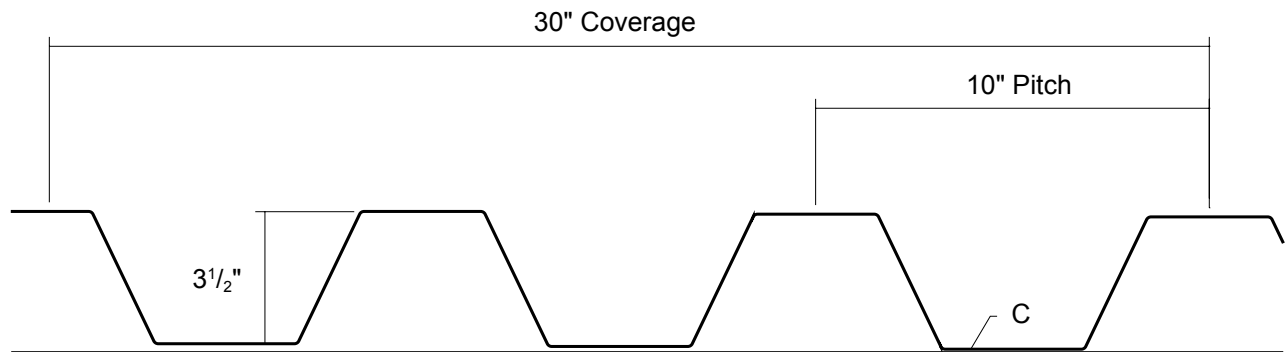


# T14 ROOF PANEL

Condensed  
Technical  
Reference



ARCHITECTURAL  
COMMERCIAL  
INDUSTRIAL  
PANEL

EXPOSED  
FASTENED

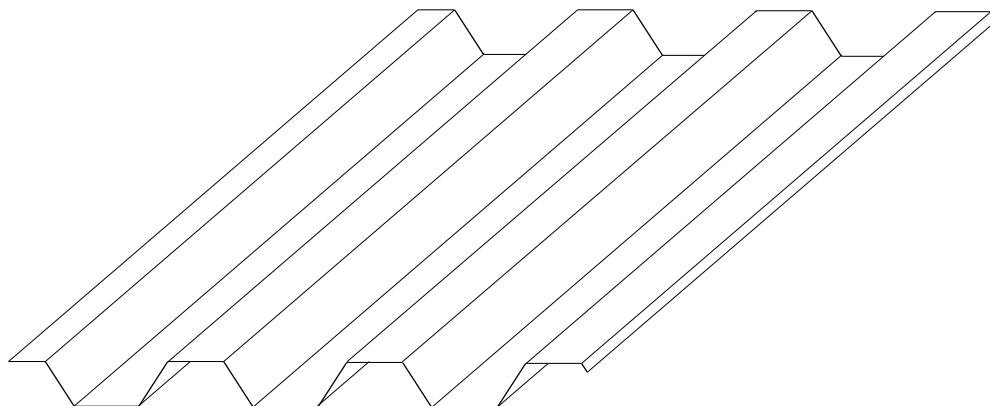
30"  
COVERAGE

MINIMUM  
SLOPE  
1:12

OPEN FRAMING OR  
SOLID SUBSTRATE

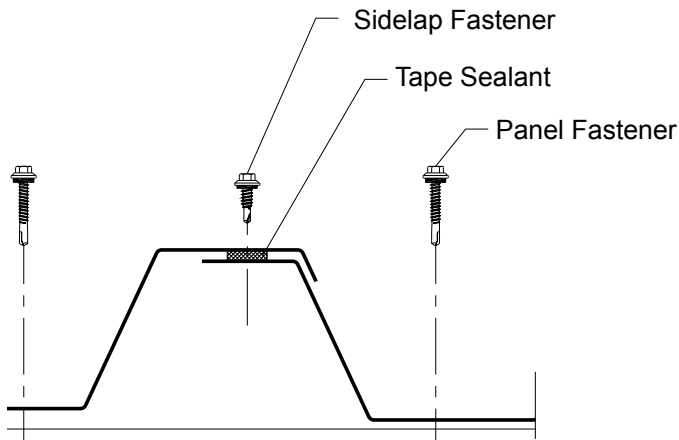
## PANEL OVERVIEW

- ▶ 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 1/2" rib height
- ▶ Trapezoidal ribs on 10" centers
- ▶ Panel Length: 5' minimum, 32' maximum
- ▶ Exposed Fastened Panel
- ▶ Minimum Roof Slope 1:12 (Tube Sealant is required at sidelap and endlap)
- ▶ Optional material availability: Stainless Steel, Copper and Aluminum



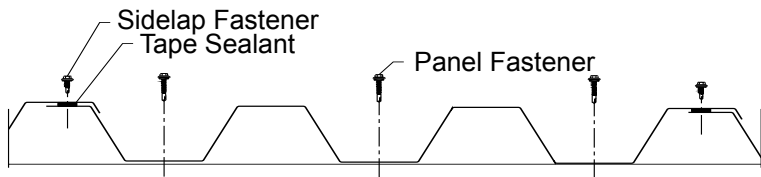
# T14 ROOF PANEL

## 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 or

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

## SECTION PROPERTIES

## ALLOWABLE UNIFORM 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	5'		6'		7'		8'		10'		12'	
								5'	6'	7'	8'	10'	12'	5'	6'	7'	8'	10'	12'
24	30	50	1.37	0.4908	0.2175	0.4812	0.2057	137	103	80	64	43	31	140	106	83	66	45	32
22	30	50	1.80	0.7504	0.3622	0.7336	0.3390	257	189	144	113	75	53	269	198	151	119	79	56
20	30	33	2.20	1.0640	0.5576	1.0520	0.5279	302	214	160	123	80	56	316	225	168	130	84	59
18	30	33	2.91	1.4840	0.8008	1.4800	0.7676	400	316	235	181	117	81	400	329	244	188	122	85

- Theoretical section properties have been calculated per AISI 2016 '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 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.