

# T12 PANEL

Condensed  
Technical  
Reference



ARCHITECTURAL  
COMMERCIAL  
INDUSTRIAL  
PANEL

EXPOSED  
FASTENED

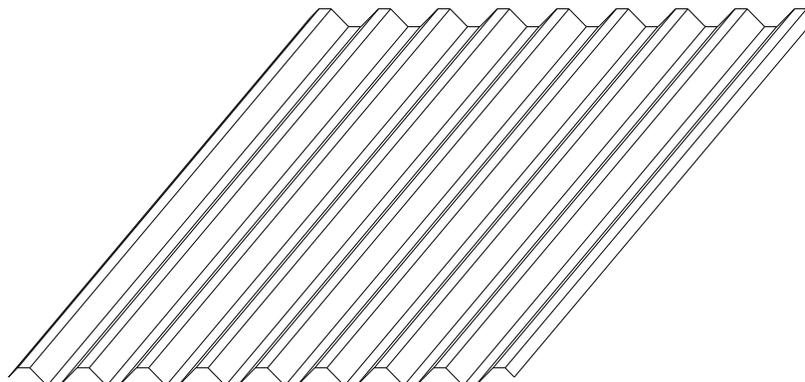
36 1/2"  
COVERAGE

MINIMUM  
SLOPE  
1:12

OPEN FRAMING OR  
SOLID SUBSTRATE

## PANEL OVERVIEW

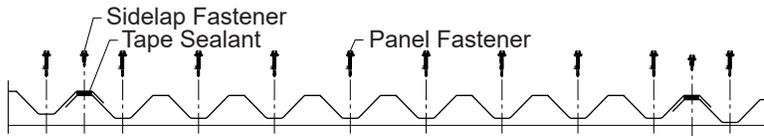
- ▶ Finishes: Standard: PVDF  
Optional: Multi-pass Kynar®, Marblique, Plastisol, Polyester and MS Colorfast45®
- ▶ Corrosion Protection: AZ55 per ASTM A 792 for unpainted Galvalume®  
AZ50 per ASTM A 792 for painted Galvalume®  
G90 per ASTM A 653 for Galvanized
- ▶ Gauges: 24 ga and 22 ga
- ▶ 36 1/2" panel coverage and 1 3/8" rib height
- ▶ Trapezoidal ribs on 4 9/16" centers
- ▶ Panel Length: 5' minimum, 32' maximum
- ▶ Exposed Fastened Panel
- ▶ Minimum Roof Slope 1:12
- ▶ Optional material availability: Stainless Steel, Copper and Aluminum



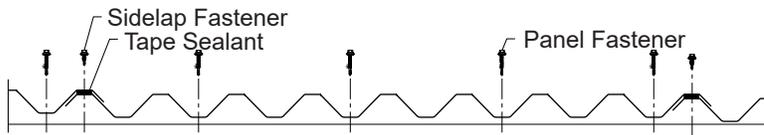
# T12 PANEL

## FASTENING PATTERNS

### Ends of Panel



### 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		Sxx		Ixx		Sxx		4'			5'			6'			7'			8'			9'		
				in <sup>4</sup> /ft	in <sup>3</sup> /ft	in <sup>4</sup> /ft	in <sup>3</sup> /ft	in <sup>4</sup> /ft	in <sup>3</sup> /ft	4'	5'	6'	7'	8'	9'	4'	5'	6'	7'	8'	9'								
24	36.5	50	1.19	0.0855	0.1208	0.0888	0.1217	174	112	69	43	29	20	172	111	69	43	29	20										
22	36.5	50	1.57	0.1151	0.1584	0.1151	0.1584	228	147	89	56	38	26	228	147	89	56	38	26										

- Theoretical section properties have been calculated per AISI 2012 '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 the AISI 2012 specification 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.