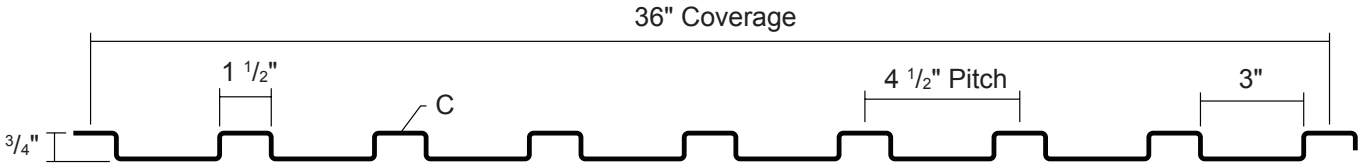
T16-E ROOF PANEL

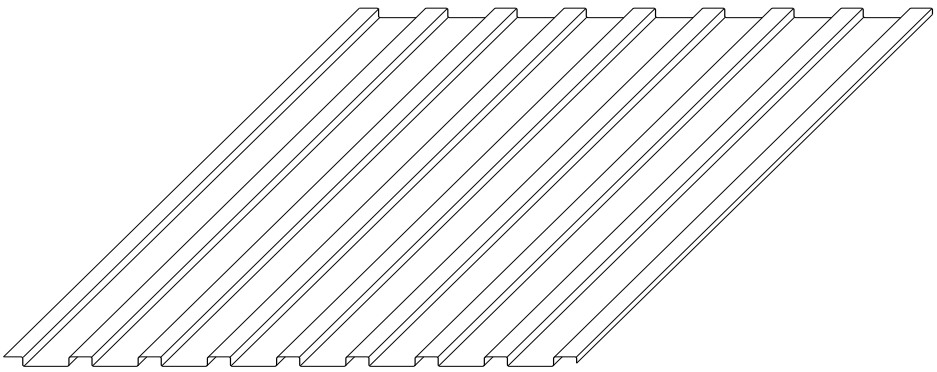
Condensed Technical Reference



ARCHITECTURAL COMMERCIAL INDUSTRIAL PANEL | **EXPOSED FASTENED** | **36" 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" panel coverage, 3/4" rib height
- Crisp 90º vertical box ribs on 4 1/2" centers
- Panel Length: 5' minimum, 25' maximum
- Exposed Fastened Panel
- Minimum Roof Slope 1:12
- Optional material availablity: Stainless Steel, Copper and Aluminum



MS Metal Sales™

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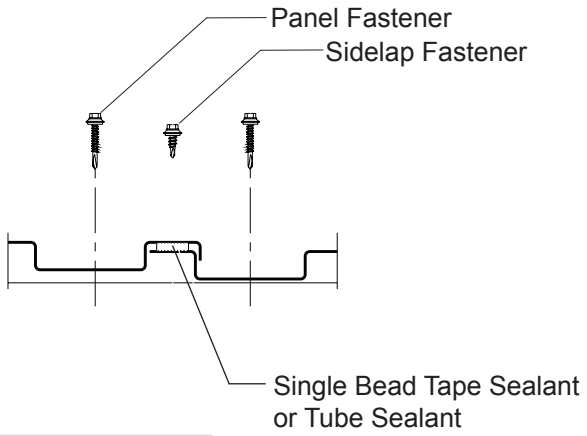
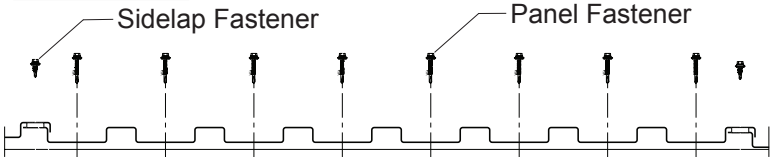
ATTACHMENT DETAIL

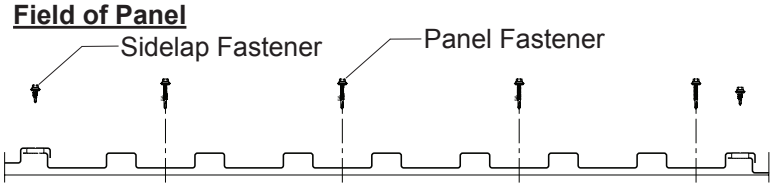


FASTENING PATTERNS

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 For various fastener spacings

Ga	Width in	Yield ksi	Weight psf	Top in Compression		Bottom in Compression		Inward Load						Outward Load					
				Ixx in^4/ft	Sxx in^3/ft	Ixx in^4/ft	Sxx in^3/ft	3'	3.5'	4'	4.5'	5'	6'	3'	3.5'	4'	4.5'	5'	6'
24	36	50	1.19	0.0300	0.0603	0.0240	0.0584	147	109	84	66	49	28	151	112	86	67	49	28
22	36	50	1.55	0.0433	0.0876	0.0333	0.0880	218	162	122	86	62	36	217	162	122	86	62	36

1. Theoretical section properties have been calculated per AISI 2016 'North American Specification for the Design of Cold-Formed Steel Structural Members'. Ixx and Sxx are effective section properties for deflection and bending.
2. 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.
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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