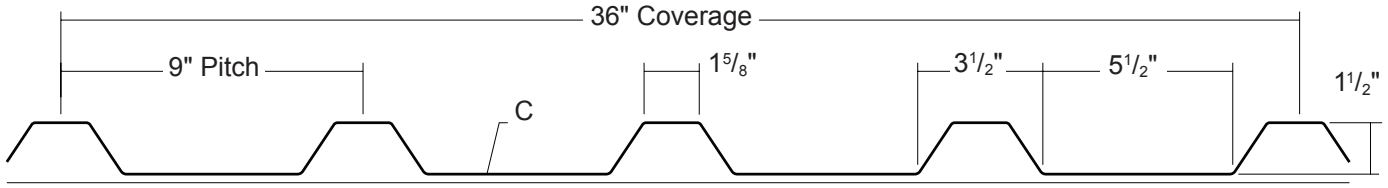
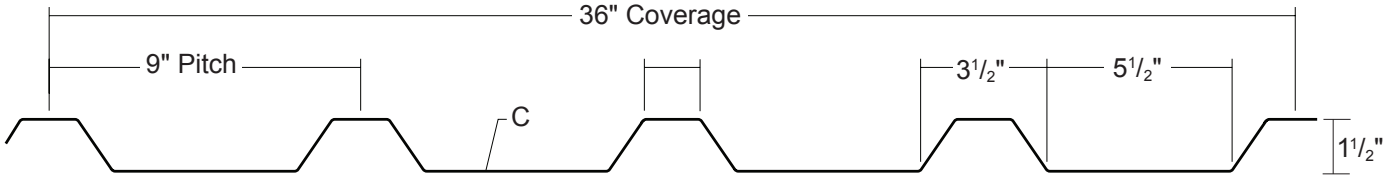
T7 ROOF PANEL

Condensed Technical Reference

Fontana, CA Profile



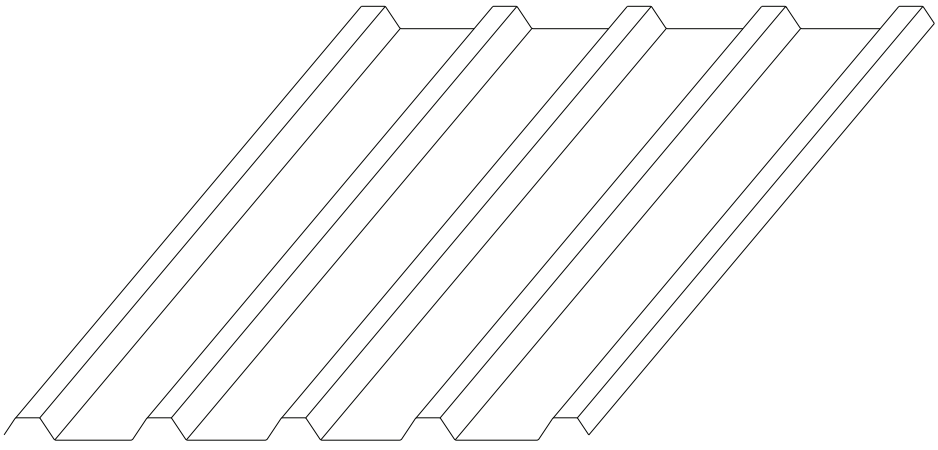
Sellersburg, IN Profile



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, 22 ga, 20 ga and 18 ga
- 36" panel coverage, 1½" rib height
- Trapezoidal ribs on 9" centers
- Panel Length: 5' minimum, 31'-10" maximum
- Exposed Fastened Panel
- Minimum Roof Slope 1:12
- Optional material availablity: Stainless Steel, Copper and Aluminum



MS Metal Sales™

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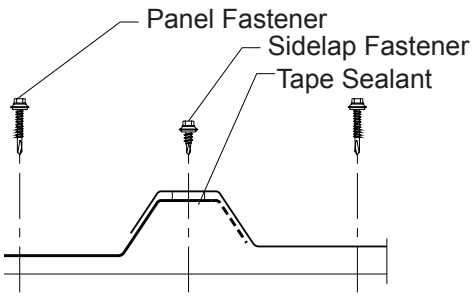
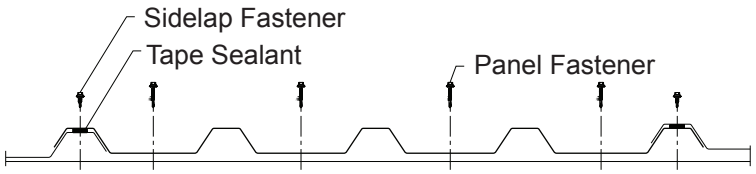
ATTACHMENT DETAIL

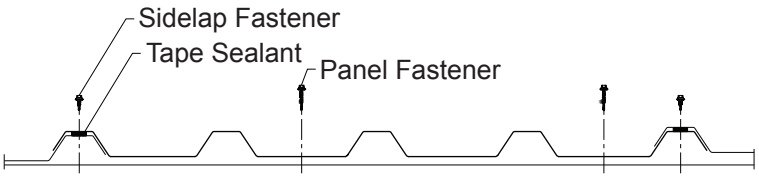


FASTENING PATTERNS

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	5'	6'	7'	8'	9'	10'	5'	6'	7'	8'	9'	10'
24	36	50	1.18	0.1067	0.1027	0.0713	0.0829	76	53	39	30	24	19	93	65	48	37	29	22
22	36	50	1.54	0.1500	0.1499	0.1033	0.1241	114	80	59	45	36	28	137	96	71	54	39	28
20	36	33	1.89	0.2033	0.2087	0.1433	0.1853	112	78	58	44	35	28	125	88	65	50	39	32
18	36	33	2.49	0.2700	0.2757	0.2100	0.2547	153	107	79	61	48	39	165	116	85	66	52	42

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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