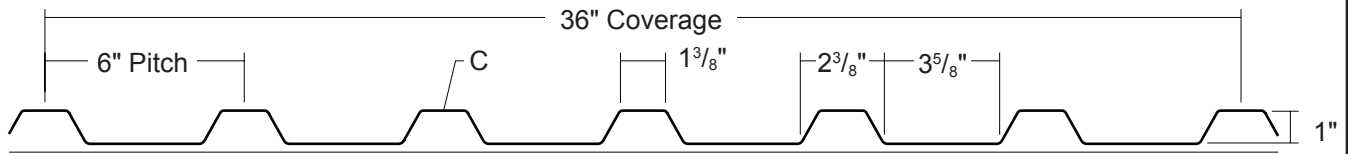


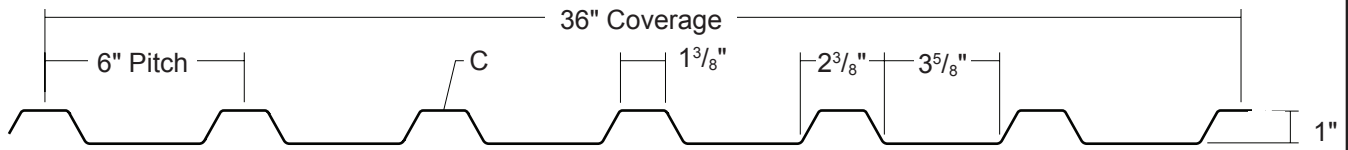
# T3 ROOF PANEL

Condensed  
Technical  
Reference

## Fontana, CA Profile



## Sellersburg, IN Profile



ARCHITECTURAL  
COMMERCIAL  
INDUSTRIAL  
PANEL

EXPOSED  
FASTENED

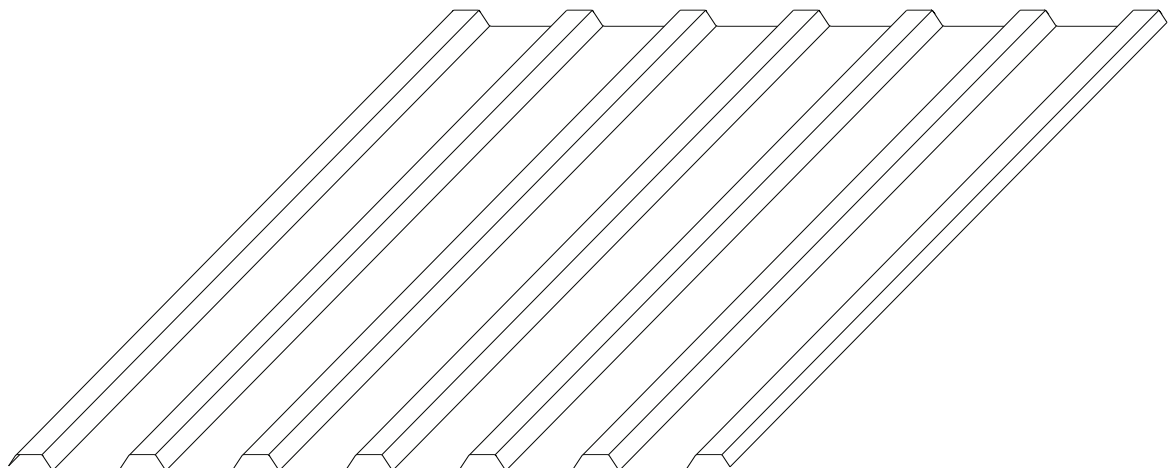
36"  
COVERAGE

MINIMUM  
SLOPE  
1:12

OPEN FRAMING OR  
SOLID SUBSTRATE

## PANEL OVERVIEW

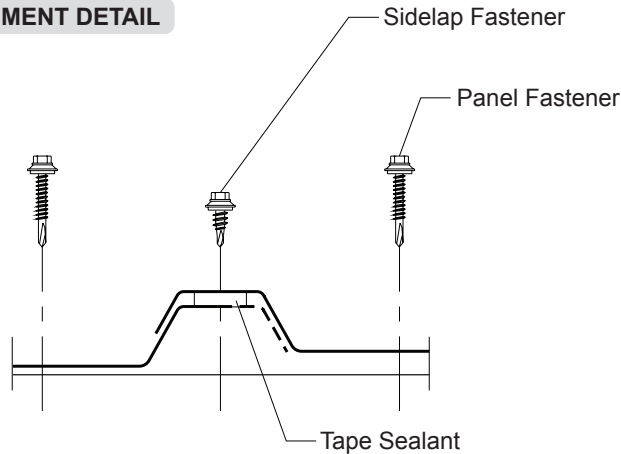
- ▶ Finishes: Standard: PVDF  
Optional: Multi-pass Kynar®, Marblique, Plastisol, Polyester and MS Colorfast45®
- ▶ Corrosion Protection: AZ55 per ASTM A 792 for unpainted Galvalume®  
AZ50 per ASTM A 792 for painted Galvalume®  
G90 per ASTM A 653 for Galvanized
- ▶ Gauges: 24 ga, 22 ga, 20 ga and 18 ga
- ▶ 36" panel coverage, 1" rib height
- ▶ Trapezoidal ribs on 6" centers
- ▶ Panel Length: 5' minimum, 31'-10" maximum
- ▶ Exposed Fastened Panel
- ▶ Minimum Roof Slope 1:12
- ▶ Optional material availability: Stainless Steel, Copper and Aluminum



**MS Metal Sales**™

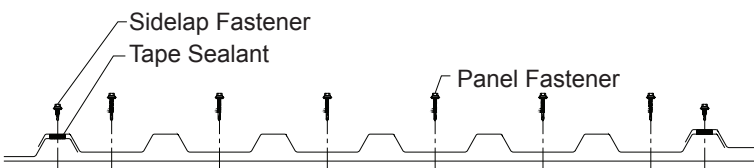
# T3 ROOF PANEL

## ATTACHMENT DETAIL

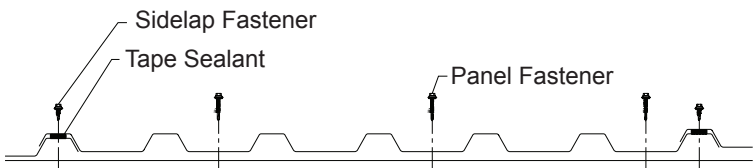


## FASTENING PATTERNS

### 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					
				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	3'	4'	5'	6'	7'	8'	3'	4'	5'	6'	7'	8'
24	36	50	1.13	0.0507	0.0756	0.0377	0.0680	172	98	63	44	29	20	190	108	70	46	29	20
22	36	50	1.48	0.0700	0.1075	0.0533	0.1018	255	146	94	59	37	25	268	153	99	59	37	25
20	36	33	1.81	0.0933	0.1448	0.0767	0.1379	226	129	84	58	43	31	236	136	88	61	45	31
18	36	33	2.38	0.1200	0.1883	0.1100	0.1837	300	172	111	78	57	39	307	176	114	80	59	39

- 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.