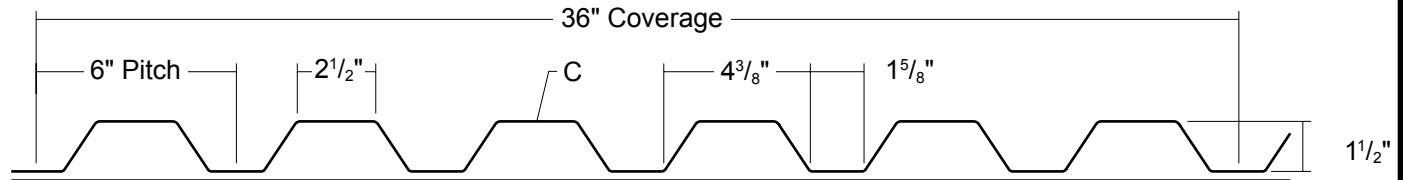


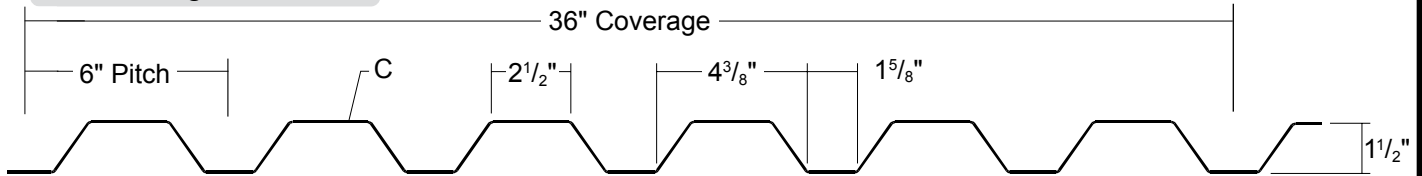
# T5 WALL PANEL

Condensed  
Technical  
Reference

## Fontana, CA Profile



## Sellersburg, IN Profile



ARCHITECTURAL  
COMMERCIAL  
INDUSTRIAL  
PANEL

EXPOSED  
FASTENED

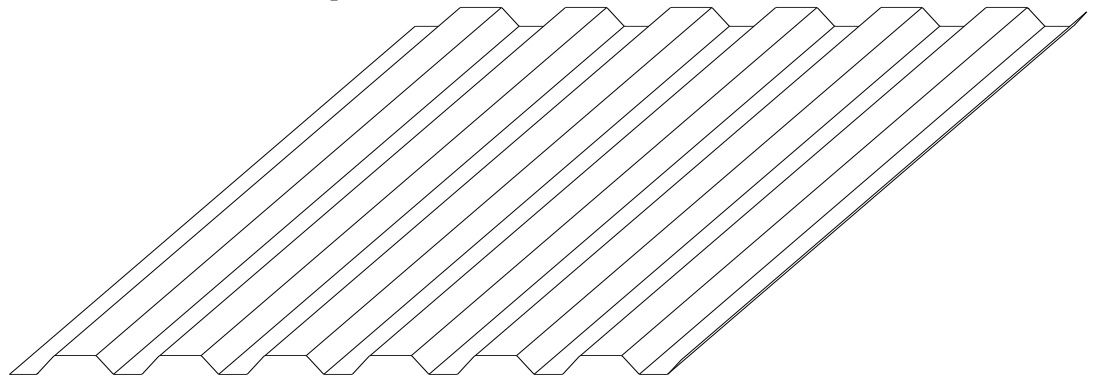
36"  
COVERAGE

WALL  
PANEL

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 1/2" rib height
- ▶ Trapezoidal ribs on 6" centers
- ▶ Panel Length: 5' minimum, 31'-10" maximum
- ▶ Exposed Fastened Panel
- ▶ Optional material availability: Stainless Steel, Copper and Aluminum
- ▶ Custom capabilities include:
  - Perforated panels for wind screens and liner panels



## TESTING

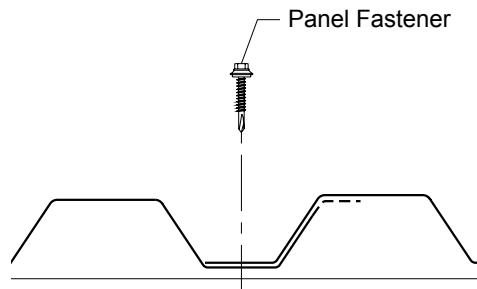
- ▶ ASTM E 331 Water Penetration - none at 20 psf\*
  - ▶ ASTM E 283 Air Leakage - 0.001 cfm/ft<sup>2</sup> at 12 psf\*
- \* Includes tape sealant in sidelaps

**ms metal sales**<sup>TM</sup>  
manufacturing corporation

# T5 WALL PANEL

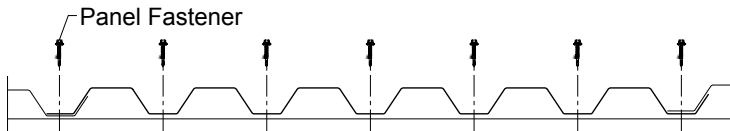
**Condensed  
Technical  
Reference**

## ATTACHMENT DETAIL

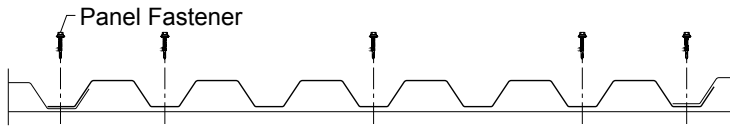


## FASTENING PATTERNS

### 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

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	5'	6'	7'	8'	9'	10'	5'	6'	7'	8'	9'	10'
24	36	50	1.22	0.1010	0.1194	0.1110	0.1245	114	80	59	45	31	23	110	77	56	43	31	23
22	36	50	1.60	0.1433	0.1747	0.1567	0.1789	165	115	85	58	41	30	161	112	83	58	41	30
20	36	33	1.96	0.1933	0.2527	0.2067	0.2503	151	106	78	60	47	36	153	107	79	60	48	36
18	36	33	2.58	0.2733	0.3440	0.2767	0.3330	201	141	104	80	63	47	208	145	107	82	65	47

- 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.

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