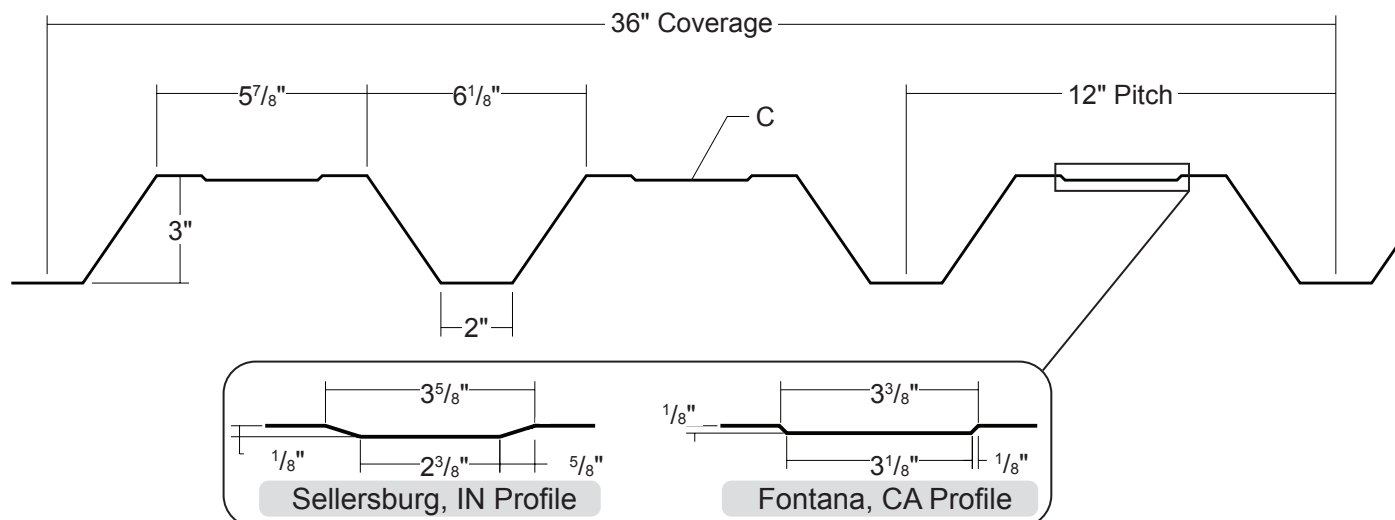


# T24 WALL PANEL

Condensed  
Technical  
Reference



ARCHITECTURAL  
COMMERCIAL  
INDUSTRIAL  
PANEL

EXPOSED  
FASTENED

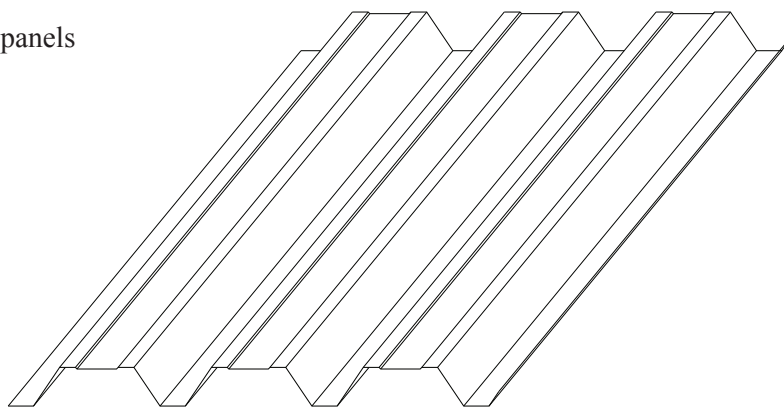
36"  
COVERAGE

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, 3" rib height
- ▶ Trapezoidal ribs on 12" centers
- ▶ Panel Length: 5' minimum, 30' maximum
- ▶ Exposed Fastened Panel
- ▶ Optional material availability: Stainless Steel, Copper and Aluminum
- ▶ Custom capabilities include:
  - Perforated panels for wind screens and liner panels



## TESTING

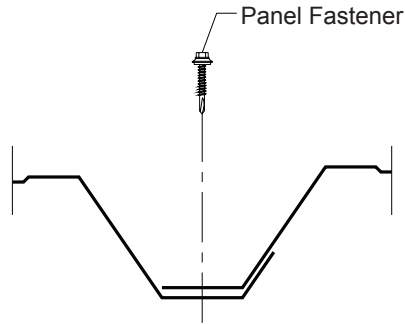
- ▶ ASTM E 283 Air Leakage
- ▶ ASTM E 331 Water Penetration
- ▶ ASTM E 330 Structural Performance
- ▶ ASTM E 1592 Structural Performance
- ▶ ICC Evaluation Report - ESR-4633

**MS Metal Sales**™

# T24 WALL PANEL

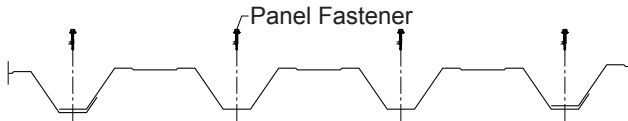
**Condensed  
Technical  
Reference**

## ATTACHMENT DETAIL



## FASTENING PATTERN

### Ends and Field of Panel



## GENERAL 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

Strippable Film on the panels and trims are for protection from manufacturing, handling and transit damage. The film must be removed before installation.

## 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 <sup>4</sup> /ft	Sxx in <sup>3</sup> /ft	Ixx in <sup>4</sup> /ft	Sxx in <sup>3</sup> /ft	5'	6'	7'	8'	10'	12'	5'	6'	7'	8'	10'	12'
24	36	50	1.22	0.4153	0.2665	0.3107	0.1430	112	81	62	48	32	22	158	121	91	70	45	31
22	36	50	1.60	0.5900	0.3590	0.4800	0.2368	196	141	106	82	53	38	261	194	148	116	74	51
20	36	33	1.96	0.7567	0.4449	0.7067	0.3802	220	155	116	89	58	40	252	180	134	104	67	47
18	36	33	2.59	1.0267	0.5897	0.9800	0.5380	318	224	166	127	82	57	346	244	181	139	90	63

- 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.
- Allowable loads are calculated in accordance with AISI 2016 specifications considering bending, shear, combined bending & shear and deflection. Allowable loads do not address web crippling, fasteners, support material or load testing. Panel weight is not considered.
- Allowable loads consider the 3 or more equal span condition.
- 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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