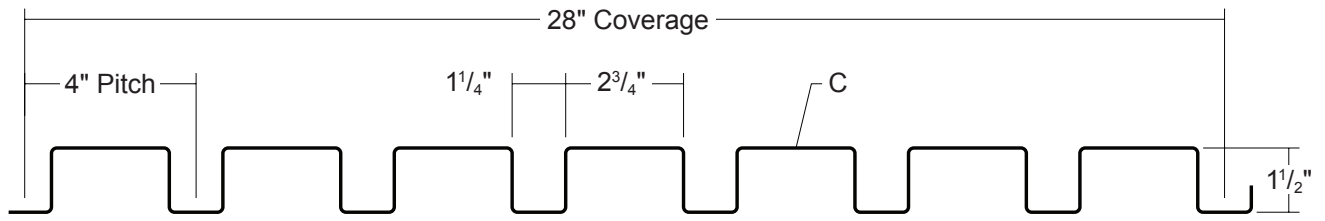


T10-A WALL PANEL

Condensed
Technical
Reference

T10 SERIES



ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL

EXPOSED
FASTENED

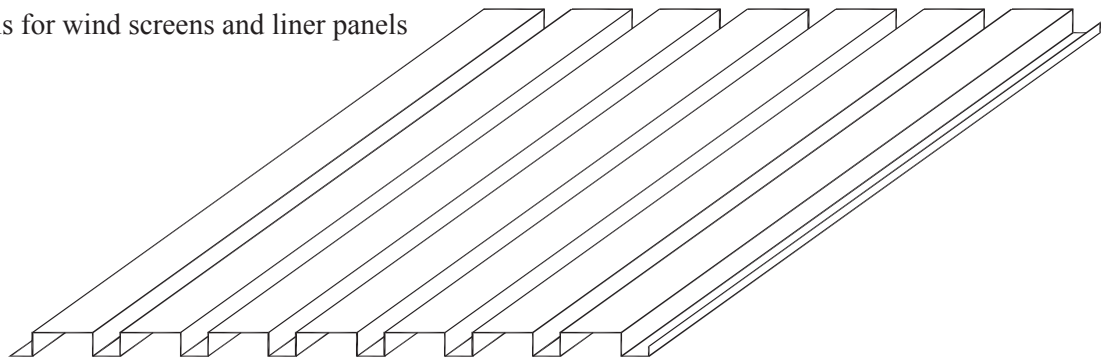
28"
COVERAGE

CUSTOM
CAPABILITIES

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
- ▶ 28" panel coverage, 1 1/2" rib height
- ▶ Crisp 90° vertical box ribs on 4" centers
- ▶ Panel Length: 5' minimum, 32' maximum
- ▶ Exposed Fastened Panel
- ▶ Optional material availability: Stainless Steel, Copper and Aluminum
- ▶ Custom capabilities include:
 - Perforated panels for wind screens and liner panels



TESTING

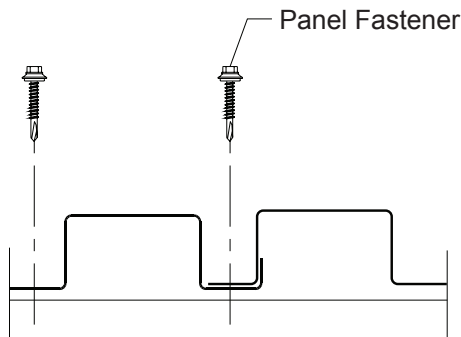
- ▶ ASTM E 283 Air Leakage
- ▶ ASTM E 331 Water Penetration
- ▶ ASTM E 330 Structural Performance
- ▶ ASTM E 1592 Structural Performance
- ▶ ICC Evaluation Report - ESR-4633

MS Metal Sales™

T10-A WALL PANEL

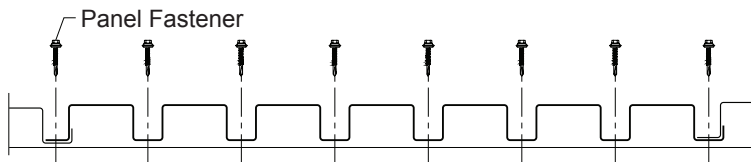
**Condensed
Technical
Reference**

ATTACHMENT DETAIL

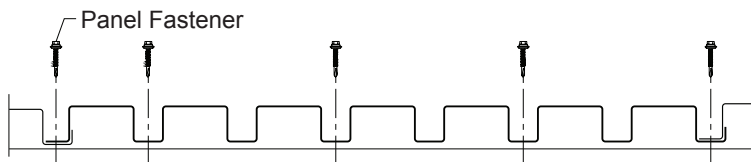


FASTENING PATTERNS

Ends of Panel



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 trim 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					
				I _{xx} in ⁴ /ft	S _{xx} in ³ /ft	I _{xx} in ⁴ /ft	S _{xx} in ³ /ft	5'	6'	7'	8'	10'	12'	5'	6'	7'	8'	10'	12'
24	28	50	1.58	0.1230	0.1574	0.1547	0.1665	154	107	79	56	28	16	146	101	75	56	28	16
22	28	50	2.07	0.1727	0.2275	0.2121	0.2344	215	151	107	72	37	21	208	146	107	72	37	21
20	28	33	2.52	0.2400	0.2887	0.2614	0.2932	178	124	92	70	44	26	176	122	90	69	44	26
18	28	33	3.30	0.3386	0.3827	0.3386	0.3814	229	162	119	91	57	33	230	162	120	92	57	33

- Theoretical section properties have been calculated per AISI 2016 'North American Specification for the Design of Cold-Formed Steel Structural Members'. I_{xx} and S_{xx} are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2016 specifications considering bending, shear, combined bending & shear and deflection. Allowable load does not consider other support conditions such as, web crippling, fasteners, support material or load testing. Panel weight is not considered.
- Allowable load considers 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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