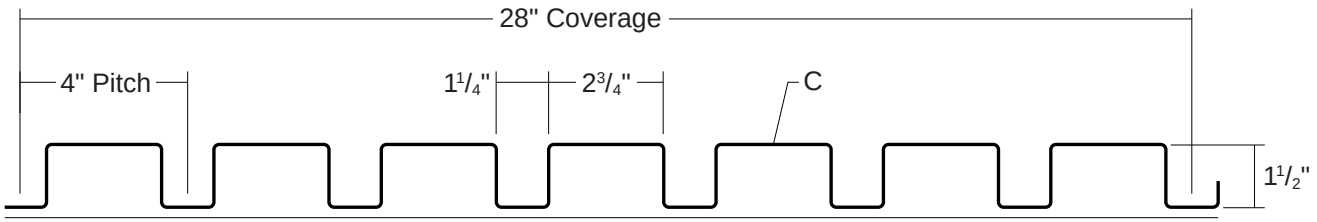
T10-A WALL PANEL

CONDENSED TECHNICAL REFERENCE



ARCHITECTURAL COMMERCIAL INDUSTRIAL PANEL

EXPOSED FASTENED

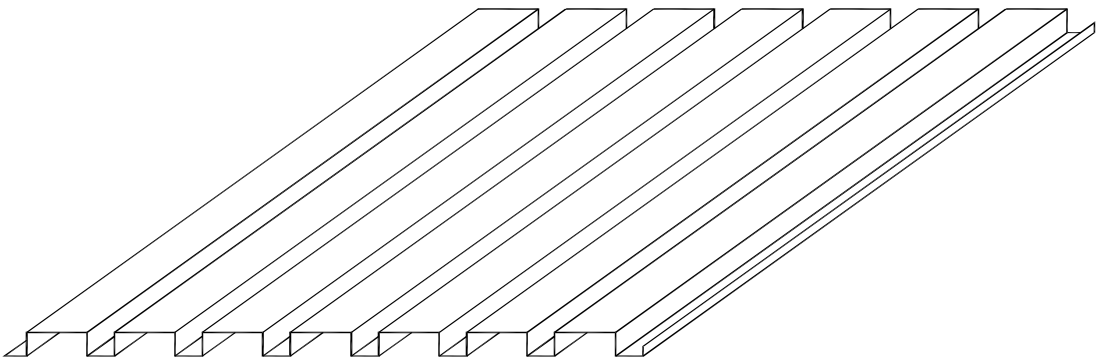
28" COVERAGE

CUSTOM CAPABILITIES

OPEN FRAMING OR SOLID SUBSTRATE

PANEL OVERVIEW

- Finishes: Standard: PVDF (Kynar 500®)
  Optional: Multi-pass Kynar®, Marblique, Plastisol, Polyester and MS Colorfast45® (SMP)
- 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, 1½" rib height
- Crisp 90º vertical box ribs on 4" centers
- Panel Length: 5' minimum, 24' maximum
- Exposed Fastened Panel
- Optional material availablity: Stainless Steel, Copper and Aluminum
- Custom capabilities include:
  - Perforated panels for wind screens and liner panels



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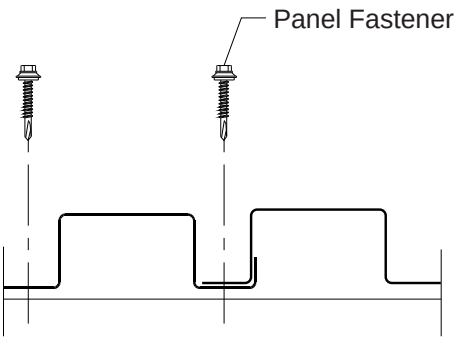
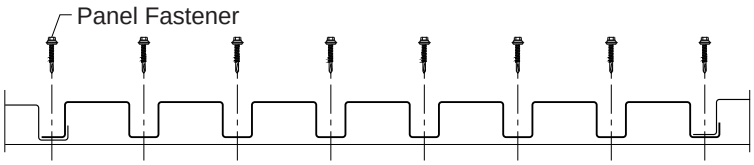
CONDENSED TECHNICAL REFERENCE

ATTACHMENT DETAIL

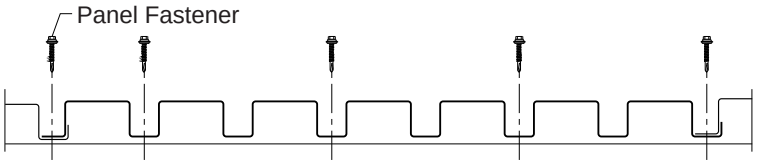


FASTENING PATTERNS

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					
				Ixx in^4/ft	Sxx in^3/ft	Ixx in^4/ft	Sxx in^3/ft	5'	6'	7'	8'	10'	12'	5'	6'	7'	8'	10'	12'
24	28	50	1.57	0.1221	0.1569	0.1539	0.1657	153	107	79	54	28	16	145	101	74	54	28	16
22	28	50	2.05	0.1714	0.2251	0.2109	0.2329	215	150	105	70	36	21	208	145	105	70	36	21
20	28	33	2.50	0.2400	0.2856	0.2614	0.2896	176	123	90	69	43	25	174	121	89	68	43	25
18	28	33	3.28	0.3343	0.3784	0.3386	0.3767	229	160	118	90	56	32	230	161	118	91	56	32

1. Theoretical section properties have been calculated per AISI 2007 '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 loads are calculated in accordance with AISI 2007 specifications considering bending, shear, combined bending and shear and deflection. Allowable loads consider the 3 or more equal span condition. Allowable loads do 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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