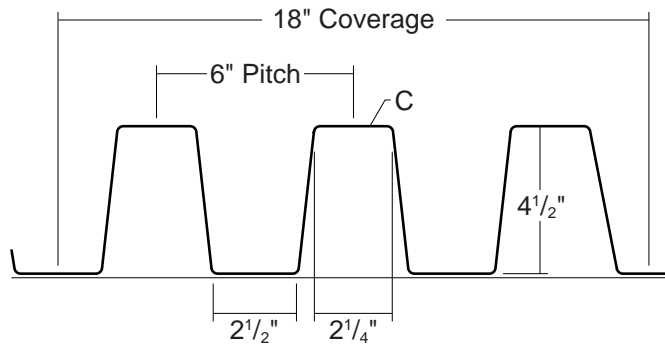


TDR-6 WALL PANEL

**CONDENSED
TECHNICAL
REFERENCE**



**ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL**

**EXPOSED
FASTENED**

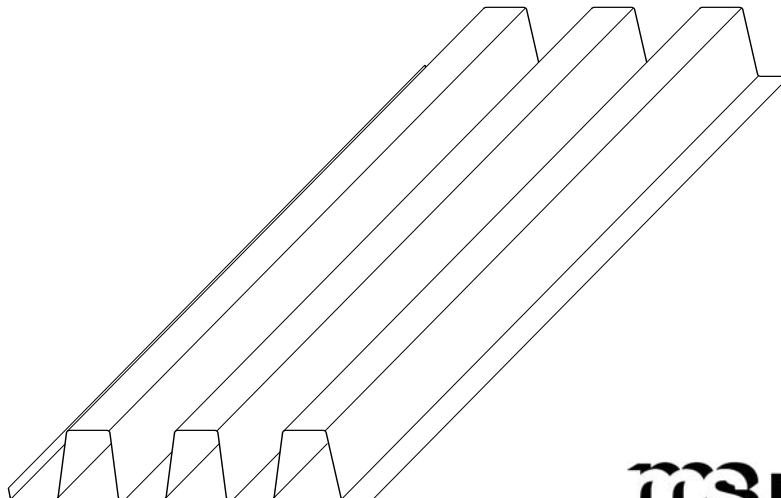
**18"
COVERAGE**

**WALL
PANEL**

**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
- ▶ **18" panel coverage, 4½" rib height**
- ▶ **Trapezoidal ribs on 6" 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

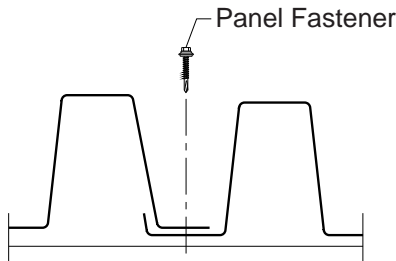


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TDR-6 WALL PANEL

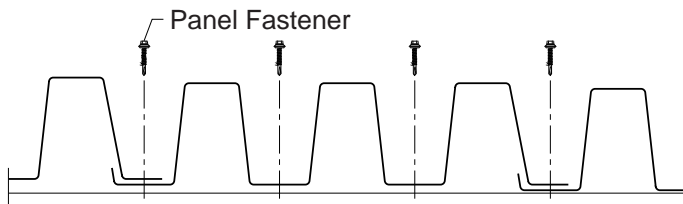
CONDENSED TECHNICAL REFERENCE

ATTACHMENT DETAIL



FASTENING PATTERN

Ends and 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

Ga	Width in	Yield ksi	Weight psf	Top in Compression		Bottom in Compression	
				Ixx in ⁴ /ft	Sxx in ³ /ft	Ixx in ⁴ /ft	Sxx in ³ /ft
24	18	50	2.20	1.3140	0.4551	1.3407	0.5100
22	18	50	2.89	1.9713	0.7372	2.0093	0.8363
20	18	33	3.53	2.7927	1.1373	2.7073	1.1949
18	18	33	4.65	3.8467	1.6061	3.7453	1.6221

ALLOWABLE UNIFORM LOADS, psf For various fastener spacings

								Inward Load						Outward Load					
								5'	6'	7'	8'	10'	12'	5'	6'	7'	8'	10'	12'
24	18	50	2.20	1.3140	0.4551	1.3407	0.5100	204	164	135	95	70	53	195	155	126	88	64	49
22	18	50	2.89	1.9713	0.7372	2.0093	0.8363	399	313	251	171	123	93	372	289	230	155	111	83
20	18	33	3.53	2.7927	1.1373	2.7073	1.1949	463	349	272	177	125	92	445	334	260	169	119	88
18	18	33	4.65	3.8467	1.6061	3.7453	1.6221	600	491	379	245	171	126	600	487	376	243	170	125

- 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.
- 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.
- 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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