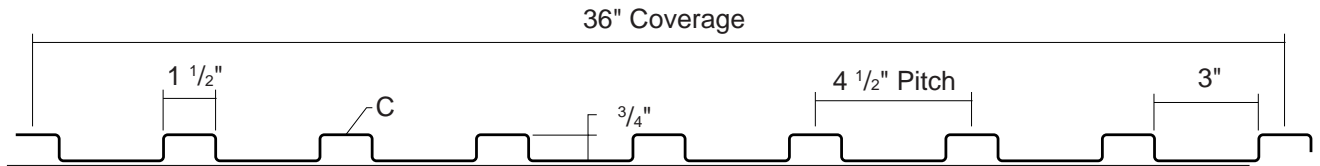


# T16-E WALL PANEL

CONDENSED  
TECHNICAL  
REFERENCE



ARCHITECTURAL  
COMMERCIAL  
INDUSTRIAL  
PANEL

EXPOSED  
FASTENED

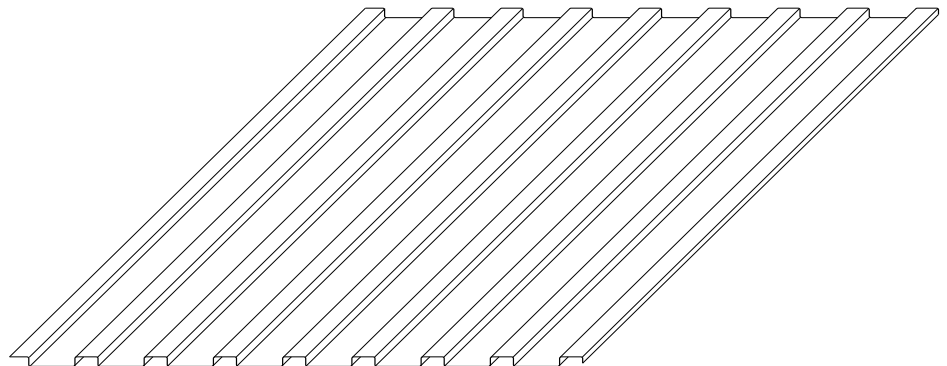
36"  
COVERAGE

CUSTOM  
CAPABILITIES

OPEN FRAMING OR  
SOLID SUBSTRATE

## PANEL OVERVIEW

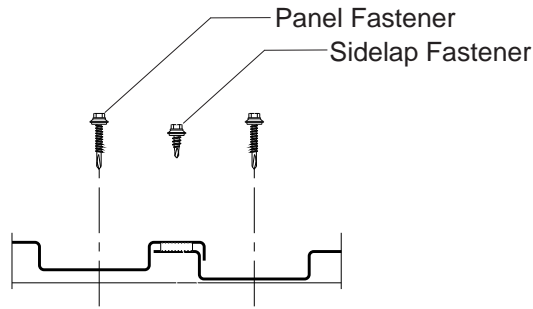
- ▶ Finishes: Standard: PVDF (Kynar 500®)  
Optional: Multi-pass Kynar®, Marblique, Plastisol, Polyester and MS Colorfast45® (SMP)
- ▶ Corrosion Protection: AZ55 per ASTM A 792 for unpainted Galvalume®  
AZ50 per ASTM A 792 for painted Galvalume®  
G90 per ASTM A 653 for Galvanized
- ▶ Gauges: 24 ga, 22 ga, 20 ga and 18 ga
- ▶ 36" panel coverage, 3/4" rib height
- ▶ Crisp 90° vertical box ribs on 4 1/2" 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



# T16-E WALL PANEL

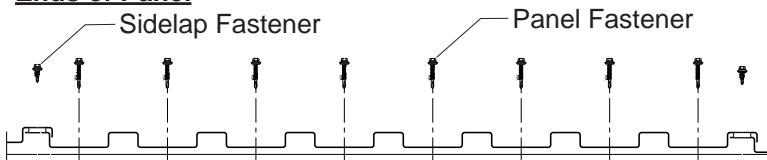
## CONDENSED TECHNICAL REFERENCE

### ATTACHMENT DETAIL

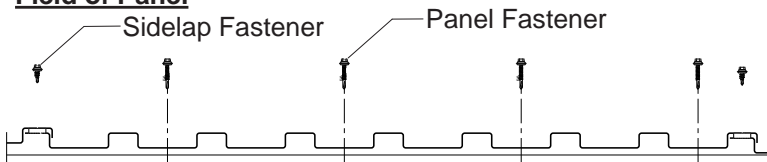


### FASTENING PATTERNS

#### 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

Sidelap Fastener:

1/4"-14 x 7/8" XL Stitch 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 <sup>4</sup> /ft	Sxx in <sup>3</sup> /ft	Ixx in <sup>4</sup> /ft	Sxx in <sup>3</sup> /ft	3'	3.5'	4'	4.5'	5'	6'	3'	3.5'	4'	4.5'	5'	6'
24	36	50	1.19	0.0300	0.0603	0.0240	0.0584	147	109	84	66	48	28	151	112	86	66	48	28
22	36	50	1.55	0.0433	0.0876	0.0333	0.0880	218	162	120	84	62	36	218	162	120	84	62	36
20	36	33	1.89	0.0533	0.1161	0.0467	0.1164	189	141	109	86	70	41	188	140	108	86	70	41
18	36	33	2.48	0.0700	0.1490	0.0667	0.1510	244	182	141	112	91	53	241	180	139	111	90	53

- 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.

**metal sales**  
manufacturing corporation



Anchorage, AK 866.640.7663  
Bay City, MI 888.777.7640  
Deer Lake, PA 800.544.2577  
Denver, CO 800.289.7663  
Detroit Lakes, MN 888.594.1394  
Fontana, CA 800.782.7953  
Fort Smith, AR 877.452.3915

Independence, MO 800.747.0012  
Jacksonville, FL 800.394.4419  
Jefferson, OH 800.321.5833  
Mocksville, NC 800.228.6119  
Nashville, TN 800.251.8508  
Rock Island, IL 800.747.1206  
Rogers, MN 800.328.9316

Seattle, WA 800.431.3470  
Sellersburg, IN 800.999.7777  
Sioux Falls, SD 888.902.8320  
Spokane, WA 800.572.6565  
Temple, TX 800.543.4415  
Woodland, CA 800.759.6019

[www.metalsales.us.com](http://www.metalsales.us.com)