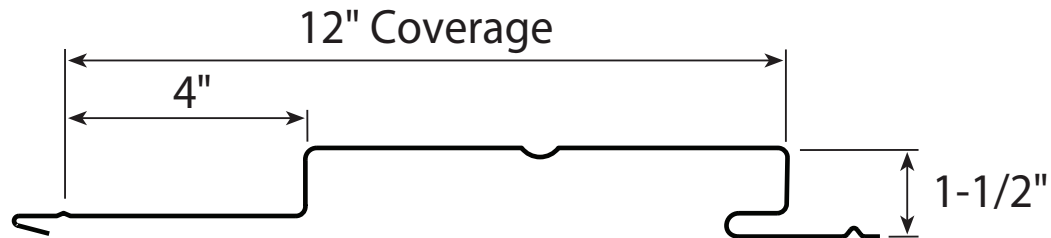


# TLC-12 WALL PANEL

**Condensed  
Technical  
Reference**



**ARCHITECTURAL  
COMMERCIAL  
INDUSTRIAL  
PANEL**

**CONCEALED  
FASTENED**

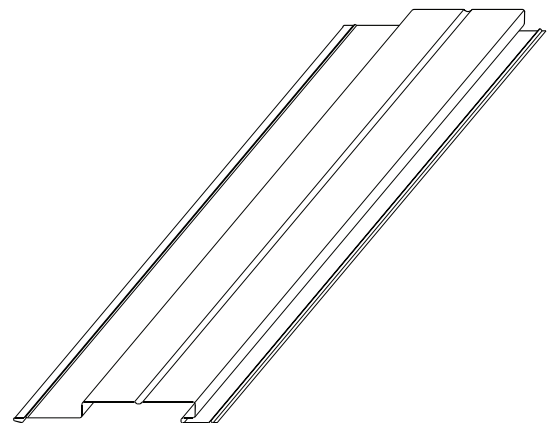
**12"  
COVERAGE**

**SOFFIT, FASCIA,  
WALL AND LINER  
PANEL**

**OPEN FRAMING OR  
SOLID SUBSTRATE**

## PANEL OVERVIEW

- ▶ Finish: Standard: PVDF  
Optional: multi-pass Kynar 500®, Marblique, Plastisol and Polyester
- ▶ Corrosion Protection: 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
- ▶ 12" panel coverage, 1 1/2" panel height
- ▶ Flush face with 4" reveal, concealed fastened, non-end lapping panel system
- ▶ Roll-Formed Panels
- ▶ Panel Length: 5' minimum, 40' maximum
- ▶ Use on single-skin or field-assembled wall systems
- ▶ Panels can be installed horizontally or vertically and are interchangeable for accent effects
- ▶ Custom capabilities include:
  - Perforated panels for wind screens and liner panels



## TESTING AND APPROVALS

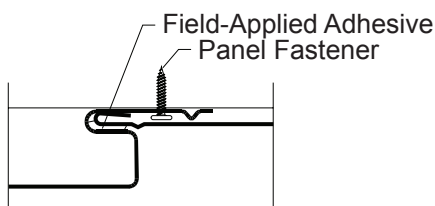
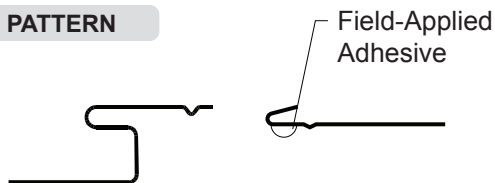
- ▶ ASTM E 283 Air Leakage
- ▶ ASTM E 331 Water Penetration
- ▶ ASTM E 330 Uniform Static Air Pressure Difference
- ▶ ASTM E 1592 Load Test

**m3 Metal Sales™**

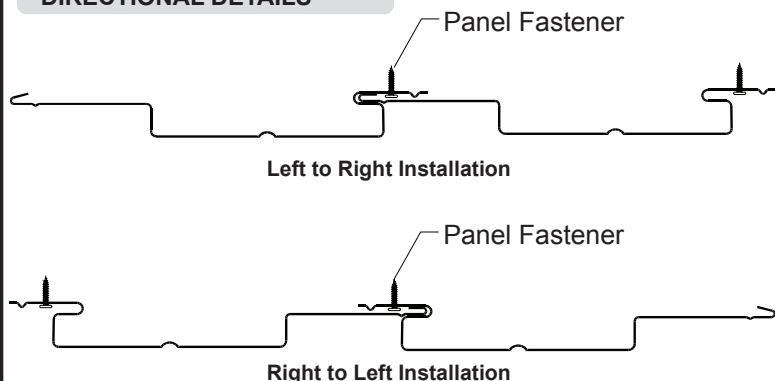
# TLC-12 WALL PANEL

**Condensed  
Technical  
Reference**

## FASTENING PATTERN



## DIRECTIONAL DETAILS



## FASTENING INFORMATION

Overdriven fasteners will cause panel distortions.

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 Fasteners:

Attaching to Wood:

#10-12 Pancake Head Wood Screw

Attaching to Steel:

<18 ga: 1/4"-13 Deck Screw

>=18 ga, <=12 ga: #10-16 Pancake Head Driller

Trim Fasteners:

1/4"-14 x 7/8" XL Stitch Screw

1/8" x 3/16" Pop Rivet

Field-Applied Adhesive:

1/4" diameter bead of SM7108

## SECTION PROPERTIES

Ga	Width in	Yield ksi	Weight psf	Top In Compression		Bottom In Compression	
				Ixx in <sup>4</sup> /ft	Sxx in <sup>3</sup> /ft	Ixx in <sup>4</sup> /ft	Sxx in <sup>3</sup> /ft
24	12	50	1.51	0.0650	0.0636	0.1174	0.1144
22	12	50	1.97	0.0917	0.0911	0.1653	0.1653
20	12	33	2.37	0.1310	0.1346	0.2250	0.2364
18	12	33	3.14	0.1890	0.1995	0.3120	0.3338

## ALLOWABLE UNIFORM LOADS, psf for various fastener spacings

Inward Load						Outward Load					
2'	3'	4'	5'	6'	8'	2'	3'	4'	5'	6'	8'
50	45	39	34	28	18	80	71	62	53	39	22
63	56	50	44	38	25	88	78	68	59	49	30
63	56	50	44	38	25	88	78	68	59	49	30
63	56	50	44	38	25	88	78	68	59	49	30

- 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 load is calculated in accordance with AISI 2016 specifications considering bending, shear, combined bending and shear and deflection. Allowable load does not address web crippling, fasteners, support material or load testing.
- Allowable load considers the 3 or more equal spans condition. 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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