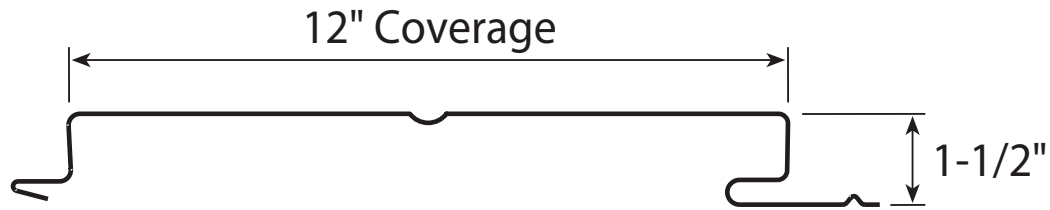


# TLC-3 WALL PANEL

**Condensed  
Technical  
Reference**



**ARCHITECTURAL  
COMMERCIAL  
INDUSTRIAL  
PANEL**

**CONCEALED  
FASTENED**

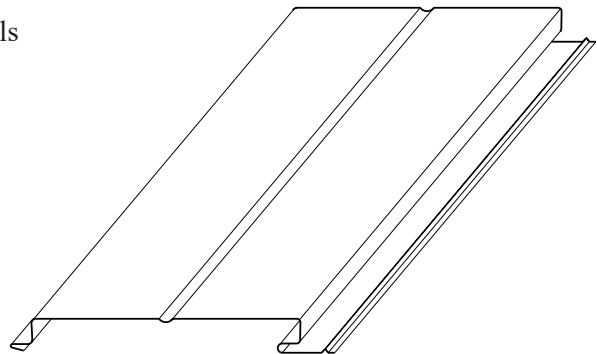
**12"  
COVERAGE**

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

**OPEN FRAMING OR  
SOLID SUBSTRATE**

## PANEL OVERVIEW

- ▶ Finish: Standard: PVDF  
Optional: multi-pass PVDF
- ▶ Corrosion Protection: AZ50 per ASTM A 792 for painted Galvalume®  
G90 per ASTM A 653 for Galvanized
- ▶ Gauges: 24 ga, 22 ga and 20 ga
- ▶ 12" panel coverage, 1 1/2" panel height
- ▶ Flush face, concealed fastened, non-end lapping panel system
- ▶ Roll-Formed Panels
- ▶ Panel Length: 5' minimum, 40' maximum
- ▶ Panels can be installed horizontally or vertically
- ▶ Panels cannot be endlapped
- ▶ Use on single-skin or field-assembled wall systems
- ▶ Custom Capabilities include:
  - Perforated panels for wind screens and liner panels



## TESTING AND APPROVALS

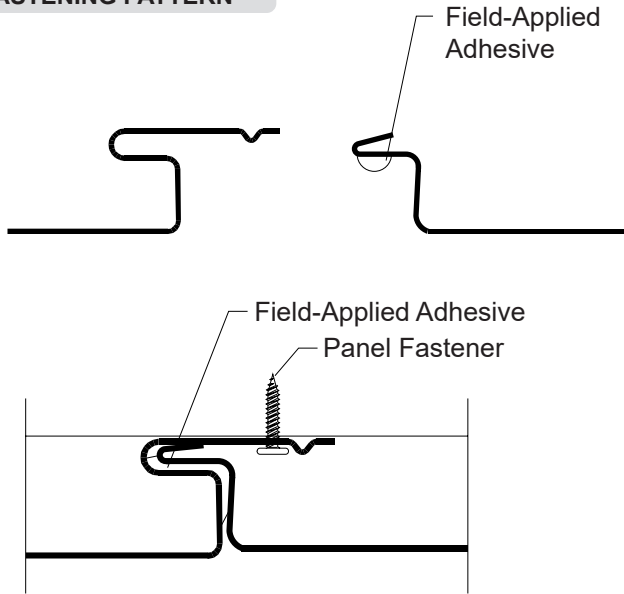
- ▶ ASTM E 283 Air Leakage
- ▶ ASTM E 331 Water Penetration
- ▶ ASTM E 330 Uniform Static Air Pressure Difference
- ▶ ASTM E 1592 Load Test

**MS Metal Sales™**

# TLC-3 WALL PANEL

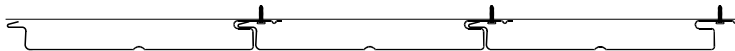
**Condensed  
Technical  
Reference**

## FASTENING PATTERN

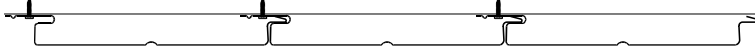


## DIRECTIONAL DETAILS

### Left to Right Installation



### Right to Left Installation



## 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. 20 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 Geocel 4600

Vertical panels may be installed left-to-right or right-to-left.

Horizontal panels are installed from top to bottom.

## 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	1.48	0.0611	0.0620	0.1311	0.1120
22	12	50	1.93	0.0860	0.0890	0.1840	0.1589
20	12	33	2.35	0.1190	0.1317	0.2450	0.2172

## 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	33	25	20	19	18	80	53	40	32	27	25
63	42	31	29	27	25	88	58	44	35	32	30
63	42	31	29	27	25	88	58	44	35	32	30

- Theoretical section properties have been calculated per AISI S100-2016 '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 & shear, deflection and ASTM E 330 testing on 16 ga girts. Allowable load considers the 3 or more equal spans condition. Allowable load does not address web crippling, fasteners, support material or load testing with other supports. 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.

**MS Metal Sales™**

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

**metalsales.us.com**

Jacksonville, FL 800.394.4419  
Kelso, WA 800.431.3470  
Rock Island, IL 800.747.1206  
Rogers, MN 800.328.9316

Sellersburg, IN 800.999.7777  
Sioux Falls, SD 888.299.0024  
Spokane, WA 800.572.6565  
Temple, TX 800.543.4415  
Woodland, CA 800.759.6019