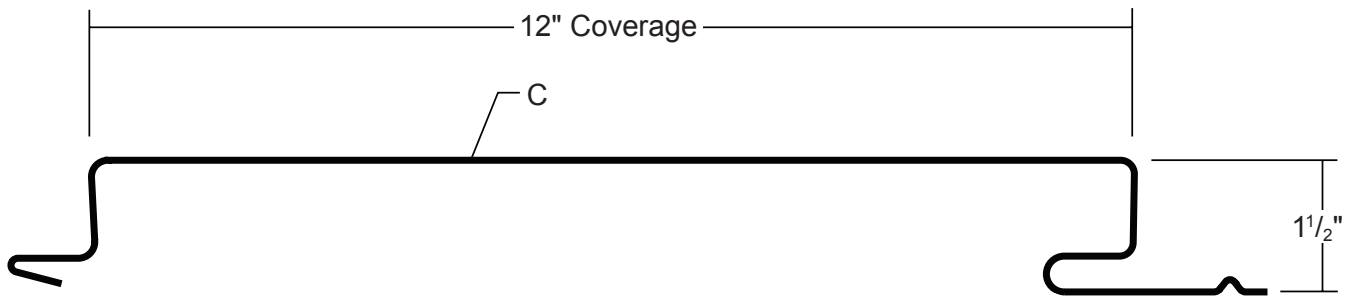
TLC-1 WALL PANEL

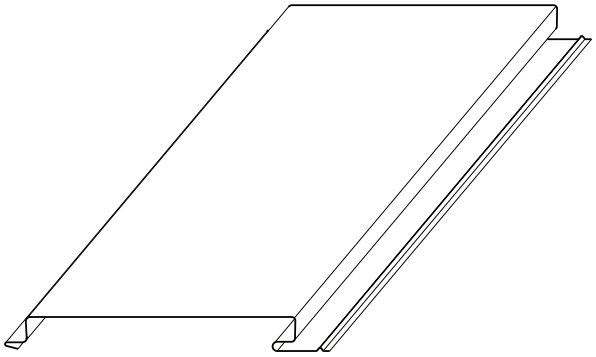
Condensed Technical Reference



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, concealed fastened, non-end lapping panel system
- Roll-Formed Panels
- Panel Length: 5' minimum, 40' maximum
- Optional material availability: Stainless Steel, Copper and Aluminum
- Panels can be installed horizontally or vertically and are interchangeable for accent effects
- Use on single-skin or field-assembled wall systems



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™

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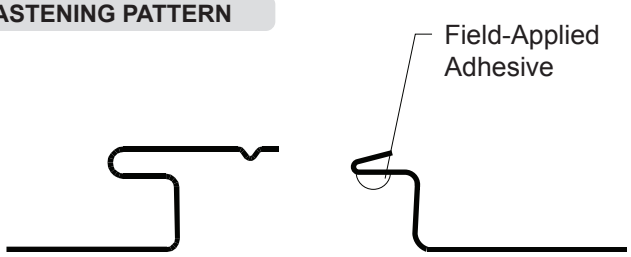
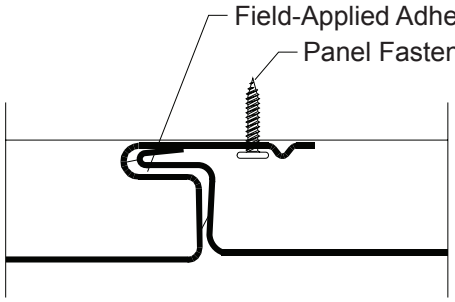
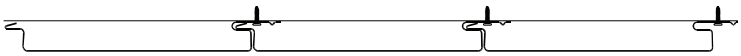
FASTENING PATTERN





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. 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

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	2'	3'	4'	5'	6'	8'	2'	3'	4'	5'	6'	8'
24	12	50	1.51	0.0589	0.0603	0.1327	0.1164	50	45	39	34	28	18	80	71	62	53	39	22
22	12	50	1.97	0.0860	0.0906	0.1840	0.1633	63	56	50	44	38	25	88	78	68	59	49	30
20	12	33	2.37	0.1240	0.1400	0.2460	0.2228	63	56	50	44	38	25	88	78	68	59	49	30
18	12	33	3.14	0.1840	0.2203	0.3330	0.3026	63	56	50	44	38	25	88	78	68	59	49	30

1. 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.
2. Allowable load is calculated in accordance with AISI 2016 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers the 3 or more equal spans condition. Allowable load does 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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