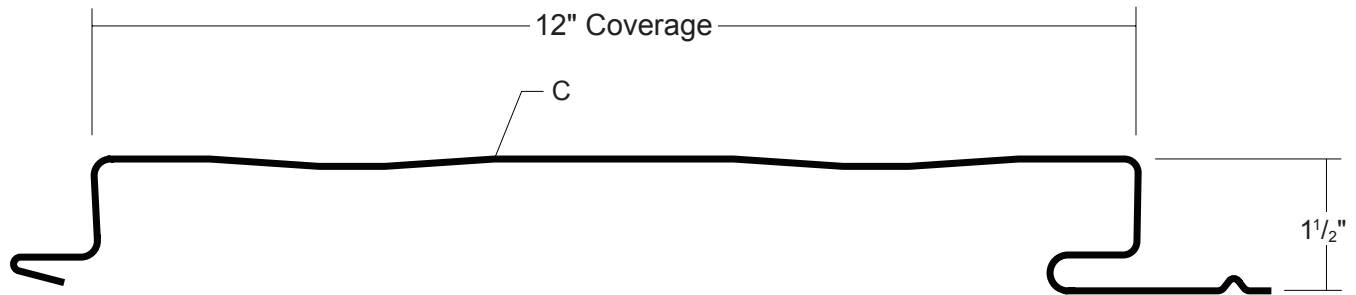


TLC-4 WALL PANEL

Condensed
Technical
Reference



ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL

CONCEALED
FASTENED

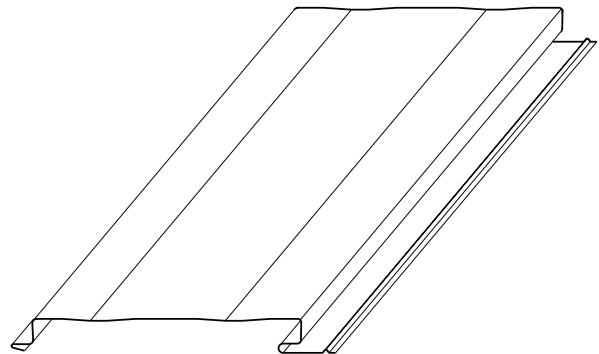
12"
COVERAGE

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
- ▶ Panels can be installed horizontally or vertically and are interchangeable for accent effects
- ▶ Use on single-skin or field-assembled wall systems
- ▶ Custom Capabilities include:
 - Perforated panels for wind screens and liner panels



TESTING AND APPROVALS

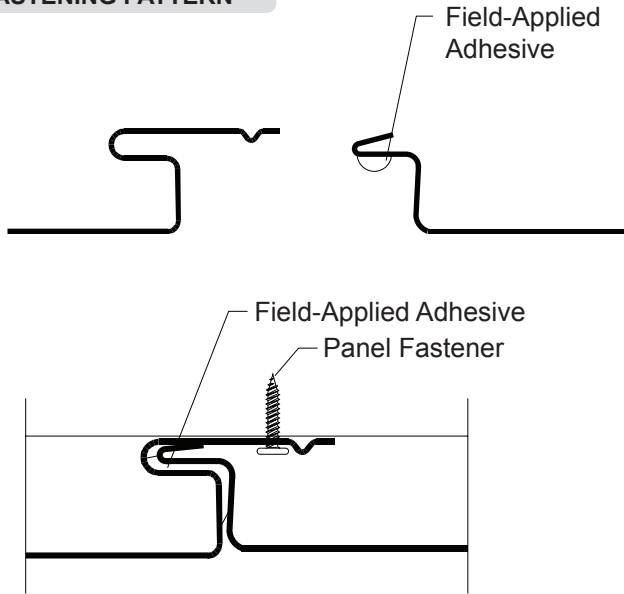
- ▶ ASTM E 283 Air Leakage
- ▶ ASTM E 331 Water Penetration
- ▶ ASTM E 330 Uniform Static Air Pressure Difference
- ▶ ASTM E 1592 Load Test

MS Metal Sales™

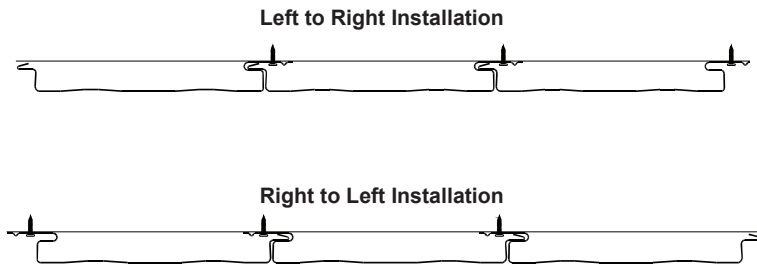
TLC-4 WALL PANEL

**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

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 | 0.1126 | 0.1360 | 0.1374 | 0.1190 | 50 | 45 | 39 | 34 | 28 | 18 | 80 | 71 | 62 | 53 | 39 | 22 |
| 22 | 12 | 50 | 1.97 | 0.1620 | 0.1820 | 0.1910 | 0.1669 | 63 | 56 | 50 | 44 | 38 | 25 | 88 | 78 | 68 | 59 | 49 | 30 |
| 20 | 12 | 33 | 2.37 | 0.2140 | 0.2256 | 0.2540 | 0.2275 | 63 | 56 | 50 | 44 | 38 | 25 | 88 | 78 | 68 | 59 | 49 | 30 |
| 18 | 12 | 33 | 3.14 | 0.2890 | 0.2959 | 0.3440 | 0.3099 | 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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