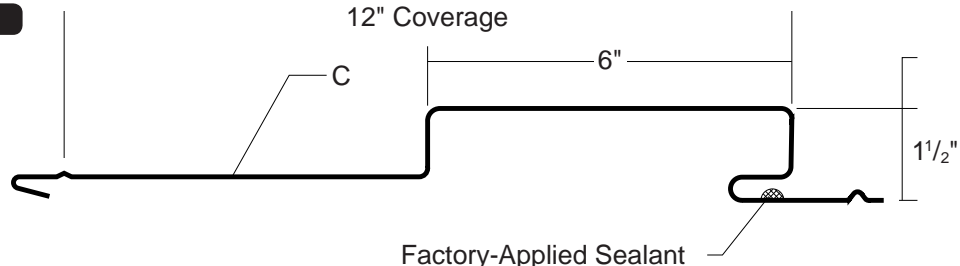


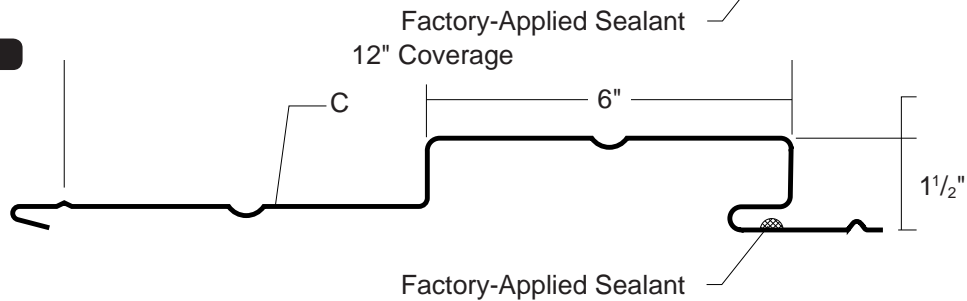
FLUSH FACE SERIES-6

CONDENSED
TECHNICAL
REFERENCE

TLC-9 PANEL



TLC-10 PANEL



ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL

CONCEALED
FASTENED

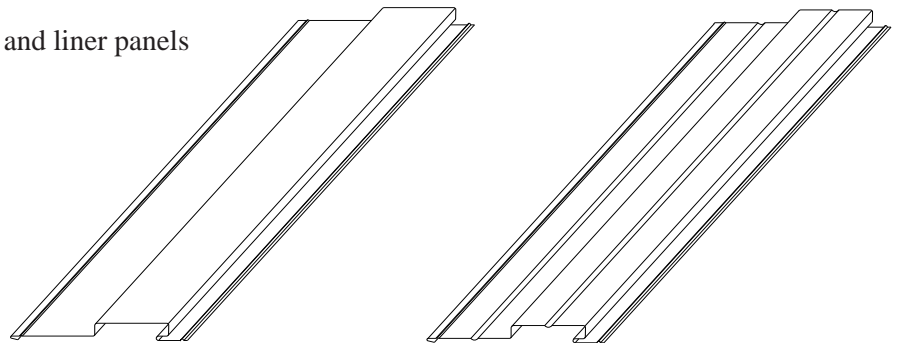
12"
COVERAGE

SOFFIT, FASCIA,
WALL AND LINER
PANEL

OPEN FRAMING OR
SOLID SUBSTRATE

PANEL OVERVIEW

- ▶ Finish: Standard: PVDF (Kynar 500®)
Optional: multi-pass Kynar 500®, Marblique, Plastisol, Polyester and MS Colorfast45® (SMP)
- ▶ 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 with 6" reveal, concealed fastened panel system
- ▶ Roll-Formed Panels
- ▶ Panel Length: 5' minimum, 40' maximum
- ▶ Optional material availability: Stainless Steel, Copper and Aluminum
- ▶ 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

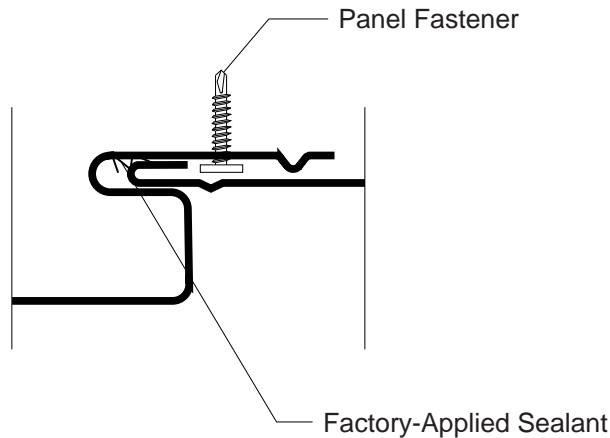
- ▶ ASTM E 283 Air Leakage
- ▶ ASTM E 331 Water Penetration
- ▶ ASTM E 330 Uniform Static Air Pressure Difference

ms metal sales
manufacturing corporation

FLUSH FACE SERIES-6

CONDENSED TECHNICAL REFERENCE

FASTENING PATTERN



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

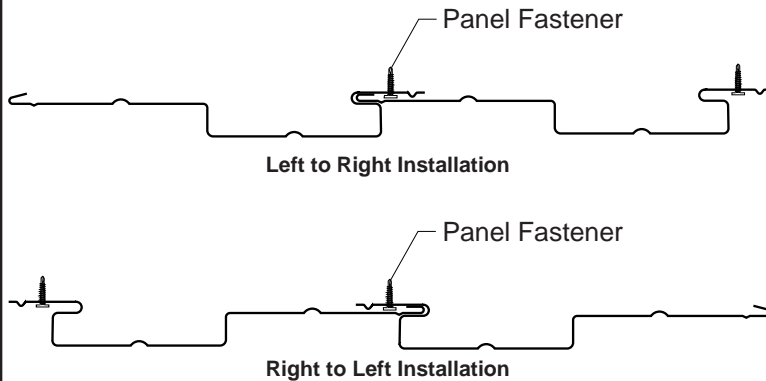
>=18 ga, <=12 ga: #10-16 Pancake Head Driller

Trim Fasteners:

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

1/8" x 3/16" Pop Rivet

DIRECTIONAL DETAILS



SECTION PROPERTIES

| Ga | Width in | Yield ksi | Weight psf | Top In Compression | | Bottom In Compression | |
|----|-------------|--------------|---------------|----------------------------|----------------------------|----------------------------|----------------------------|
| | | | | Ixx in ⁴ /ft | Sxx in ³ /ft | Ixx in ⁴ /ft | Sxx in ³ /ft |
| 24 | 12 | 50 | 1.51 | 0.0623 | 0.0592 | 0.1041 | 0.1059 |
| 22 | 12 | 50 | 1.97 | 0.0906 | 0.0879 | 0.1437 | 0.1491 |
| 20 | 12 | 33 | 2.39 | 0.1310 | 0.1329 | 0.1920 | 0.2079 |

ALLOWABLE UNIFORM LOADS, psf For various fastener spacings

| | | | | | | | | Inward Load | | | | | Outward Load | | | | | | |
|----|----|----|------|--------|--------|--------|--------|-------------|----|----|----|----|--------------|----|----|----|----|----|-----|
| | | | | | | | | 2' | 3' | 4' | 6' | 8' | 10' | 2' | 3' | 4' | 6' | 8' | 10' |
| 24 | 12 | 50 | 1.51 | 0.0623 | 0.0592 | 0.1041 | 0.1059 | 90 | 81 | 71 | 53 | 34 | 16 | 90 | 81 | 71 | 53 | 34 | 16 |
| 22 | 12 | 50 | 1.97 | 0.0906 | 0.0879 | 0.1437 | 0.1491 | 90 | 81 | 71 | 53 | 34 | 16 | 90 | 81 | 71 | 53 | 34 | 16 |
| 20 | 12 | 33 | 2.39 | 0.1310 | 0.1329 | 0.1920 | 0.2079 | 90 | 81 | 71 | 53 | 34 | 16 | 90 | 81 | 71 | 53 | 34 | 16 |

- 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, deflection and ASTM E 330 testing of 24 gauge panels. Allowable loads consider the 3 or more equal spans 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.