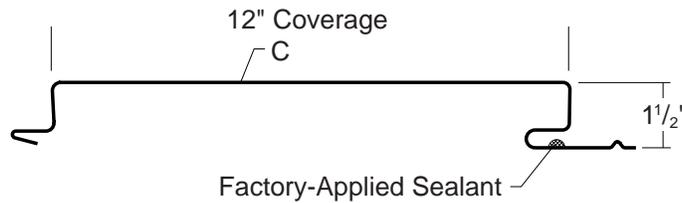


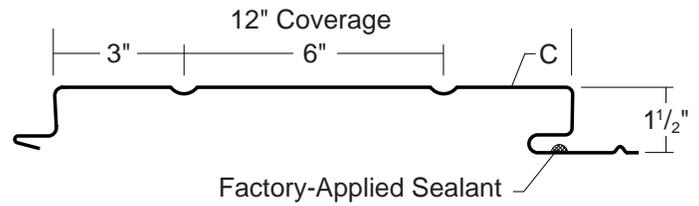
FLUSH FACE SERIES-12

**CONDENSED
TECHNICAL
REFERENCE**

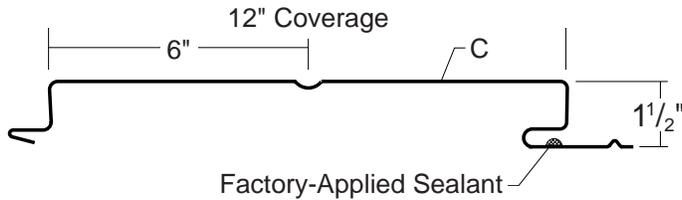
TLC-1 PANEL



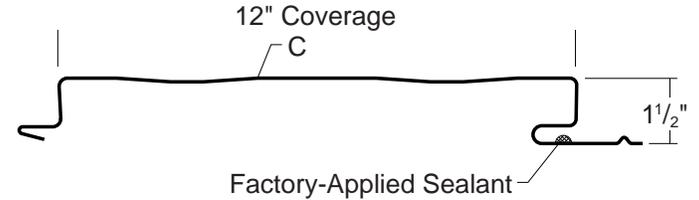
TLC-2 PANEL



TLC-3 PANEL



TLC-4 PANEL



ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL

CONCEALED
FASTENED

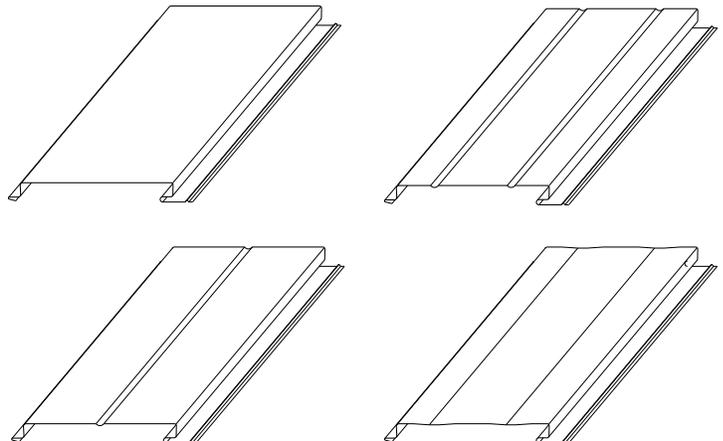
12"
COVERAGE

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, 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:



TESTING AND APPROVALS

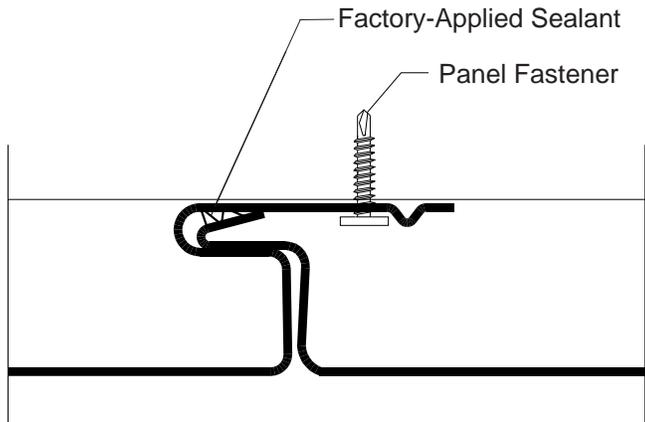
- ▶ ASTM E 283 Air Leakage
- ▶ ASTM E 331 Water Penetration
- ▶ ASTM E 330 Uniform Static Air Pressure Difference

ms metal sales
manufacturing corporation

FLUSH FACE SERIES-12

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

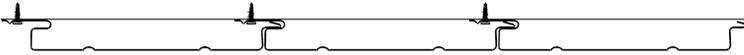
1/8" x 3/16" Pop Rivet

DIRECTIONAL DETAILS

Left to Right Installation



Right to Left Installation



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	1.48
22	12	50	1.93	0.0880	0.0923	0.1840	0.1592
20	12	33	2.35	0.1260	0.1421	0.2460	0.2177

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	1.48	70	63	56	43	29	16	70	63	56	43	29	16
22	12	50	1.93	70	63	56	43	29	16	70	63	56	43	29	16
20	12	33	2.35	70	63	56	43	29	16	70	63	56	43	29	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.