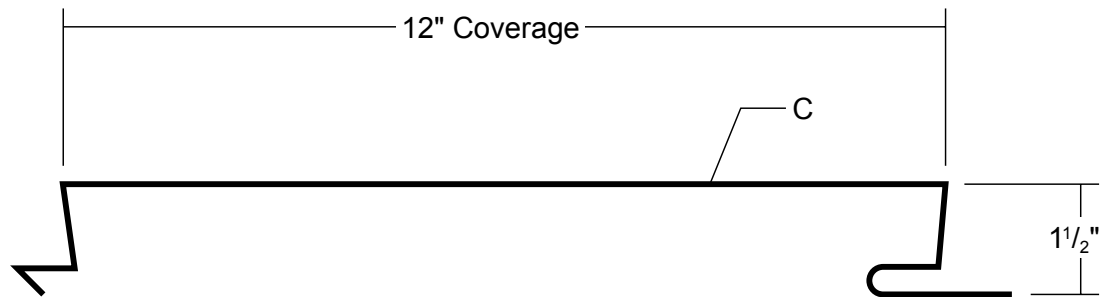


TL-17 PANEL

Condensed
Technical
Reference

WALL PANEL



ARCHITECTURAL
COMMERCIAL
INDUSTRIAL
PANEL

CONCEALED
FASTENED

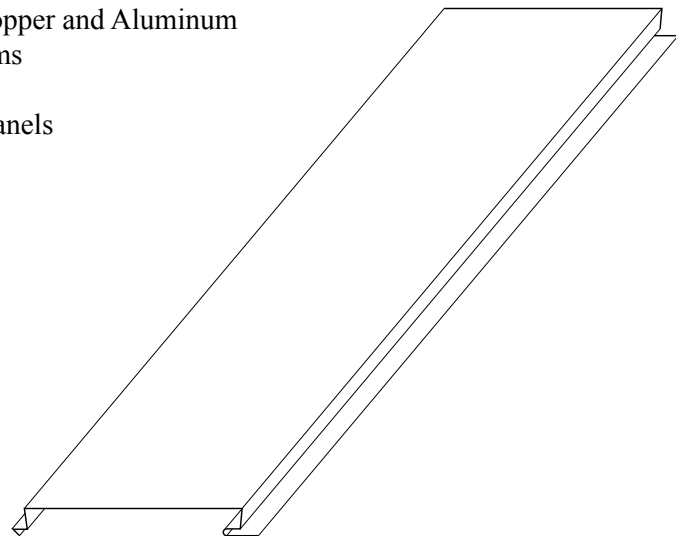
12"
COVERAGE

SOFFIT, FASCIA,
WALL AND LINER
PANEL

OPEN FRAMING OR
SOLID SUBSTRATE

PANEL OVERVIEW

- ▶ Finish: Standard: PVDF
Optional: multi-pass Kynar 500®, Marblique, Plastisol, Polyester and MS Colorfast45®
- ▶ 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
- ▶ Panel Length: 5' minimum, 30' maximum
- ▶ Optional material availability: Stainless Steel, Copper and Aluminum
- ▶ Use on single-skin or field-assembled wall systems
- ▶ Custom capabilities include:
 - Perforated panels for wind screens and liner panels



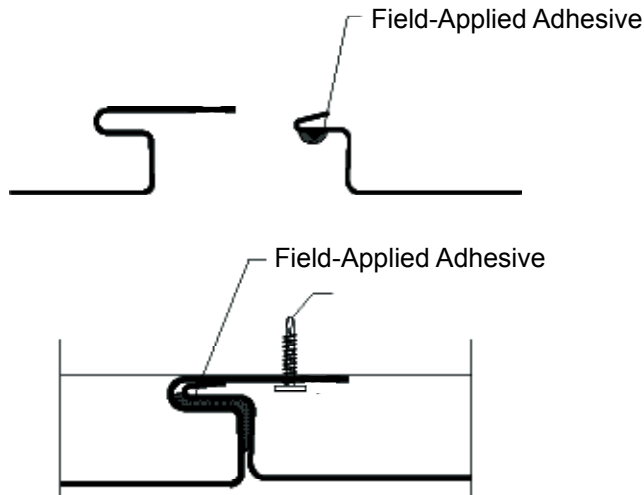
TESTING AND APPROVALS

- ▶ UL 263 Fire Resistance Rating - per assembly
- ▶ ASTM E 283 Air Leakage
- ▶ ASTM E 331 Water Penetration
- ▶ ASTM E 330 Uniform Static Air Pressure Difference
- ▶ ASTM E 1592 Uniform Static Air Pressure Difference

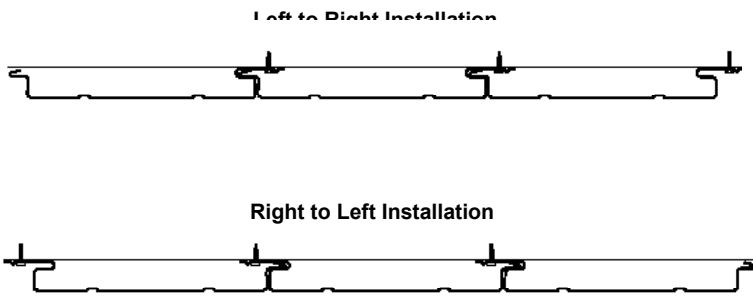
ms metal salesTM
manufacturing corporation

TL-17 PANEL

ATTACHMENT DETAILS



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:

3/8" 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'		
				2'	3'	4'	5'	6'	8'	2'	3'	4'	5'	6'	8'	2'	3'	4'	5'	6'	8'					
24	12	50	1.34	0.0495	0.0562	0.0746	0.0597	50	45	39	34	28	18	81	71	62	51	36	20							
22	12	50	1.76	0.0714	0.0847	0.1014	0.0811	63	56	50	44	38	25	83	74	65	56	48	30							
20	12	33	2.15	0.1017	0.1314	0.1328	0.1071	63	56	50	44	38	25	83	74	65	56	48	30							
18	12	33	2.82	0.1530	0.1851	0.1840	0.1486	63	56	50	44	38	25	83	74	65	56	48	30							

- Theoretical section properties have been calculated per AISI 2012 '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 2012 specifications considering bending, shear, combined bending, shear and deflection and panel testing per ASTM E 1592 over 16 ga support and field-applied adhesive as shown above. Allowable loads consider the 3 or more equal spans condition. Allowable loads do not address web crippling, fasteners or support material. 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.