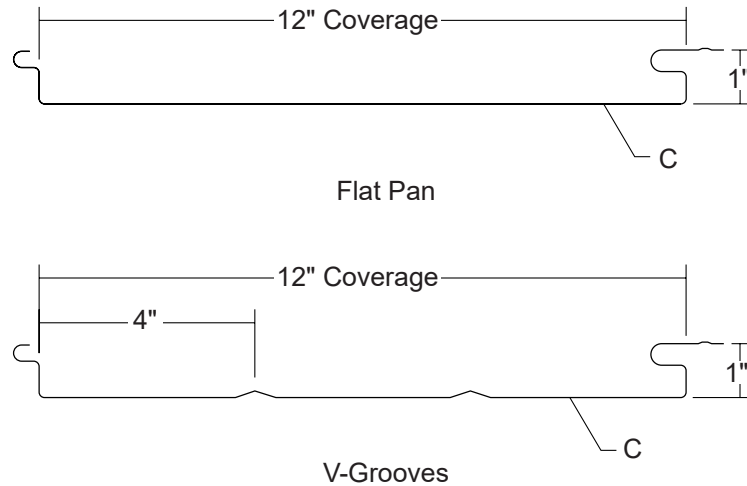


# SOFFIT PANEL

**Condensed  
Technical  
Reference**



**ARCHITECTURAL  
COMMERCIAL  
INDUSTRIAL  
PANEL**

**CONCEALED  
FASTENED**

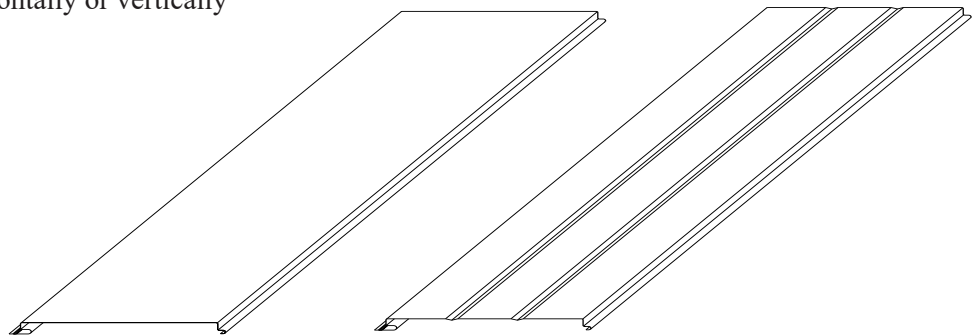
**12"  
COVERAGE**

**SOFFIT, FASCIA,  
WALL OR LINER  
APPLICATIONS**

**OPEN FRAMING OR  
SOLID SUBSTRATE**

## PANEL OVERVIEW

- ▶ Finishes: Standard: PVDF, MS Colorfast45® and Acrylic-Coated Galvalume®
- ▶ Corrosion Protection: AZ55 per ASTM A 792 for unpainted Galvalume®  
AZ50 per ASTM A 792 for painted Galvalume®  
G90 per ASTM A 653 for Galvanized
- ▶ Gauges: 26 ga and 24 ga and 22 ga
- ▶ 12" panel coverage, 1" panel depth
- ▶ Panel Length: 26 ga: 5' maximum and 5' minimum  
24 ga: 20' maximum and 5' minimum  
22 ga: 20' maximum and 5' minimum
- ▶ Applies over open framing or solid substrate
- ▶ Concealed, direct fastened panel for soffit, fascia, wall and liner applications
- ▶ Panels can be installed horizontally or vertically
- ▶ Tongue-and-groove sidelap



## TESTING AND APPROVALS

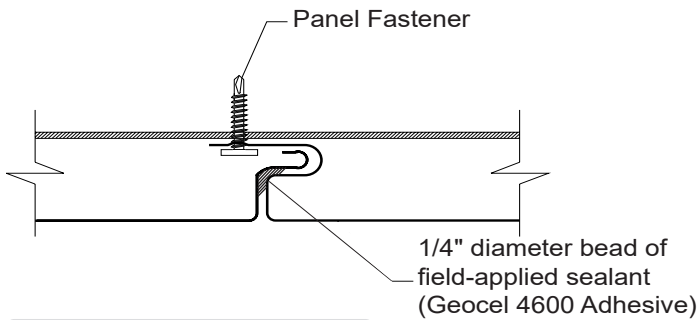
- ▶ UL 263 Fire Resistance Rating - per assembly
- ▶ ASTM E 283 Air Leakage - 0.25 cfm/ft² at 6.24 psf
- ▶ ASTM E 331 Water Penetration - none at 12 psf
- ▶ ASTM E 330 Structural Performance
- ▶ 2023 FBC Approval - FL9482.5

**MS Metal Sales™**

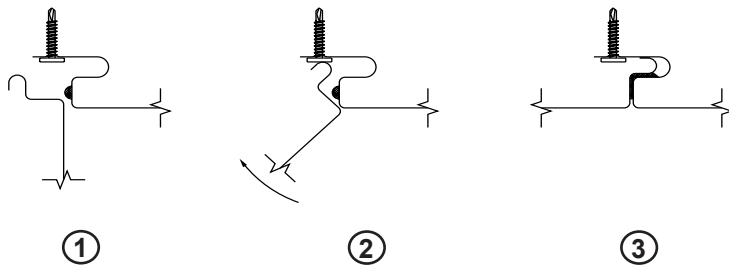
# SOFFIT PANEL

**Condensed  
Technical  
Reference**

## SIDELAP FASTENING DETAIL



## SIDELAP INSTALLATION



## VERTICAL DIRECTIONAL DETAILS

Left to Right Installation



Right to Left Installation



## FASTENER 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:

≤12 ga: #10-16 Pancake Head Drill

Trim Fasteners:

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

1/8" x 3/16" Pop Rivet

Field-Applied Sealant:

1/4" bead of Geocel 4600

Panels must be engaged before sealant has cured.

## HORIZONTAL DIRECTIONAL DETAIL

Top to Bottom Installation



## SECTION PROPERTIES

Ga	Width in	Yield ksi	Weight psf	Top In Compression		Bottom In Compression	
				Ixx in <sup>4</sup> /ft	Sxx in <sup>3</sup> /ft	Ixx in <sup>4</sup> /ft	Sxx in <sup>3</sup> /ft
26	12	50	0.94	0.0130	0.0226	0.0290	0.0339
24	12	50	1.23	0.0189	0.0338	0.0410	0.0480
22	12	50	1.62	0.0278	0.0520	0.0560	0.0651

## 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 <sup>4</sup> /ft	Sxx in <sup>3</sup> /ft	Ixx in <sup>4</sup> /ft	Sxx in <sup>3</sup> /ft												
				2'	2.5'	3'	3.5'	4'	5'	2'	2.5'	3'	3.5'	4'	5'				
26	12	50	0.94	0.0130	0.0226	0.0290	0.0339	144	100	74	55	42	27	-	-	-	-	-	-
24	12	50	1.23	0.0189	0.0338	0.0410	0.0480	178	129	97	75	60	40	55	55	55	55	55	-
22	12	50	1.62	0.0278	0.0520	0.0560	0.0651	234	170	129	100	80	54	55	55	55	55	55	-

- 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 & shear, deflection. Load testing on 16ga girts with Geocel4600, applied to joinery as shown above. Allowable load considers the three 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.