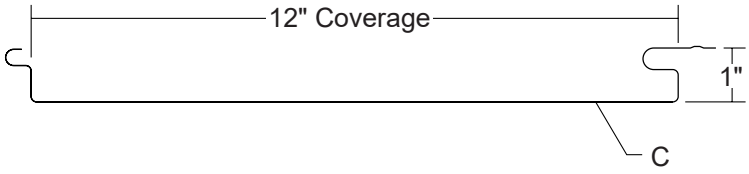
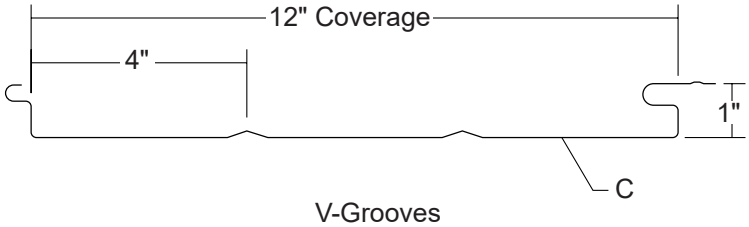
SOFFIT PANEL

Condensed Technical Reference



Flat Pan

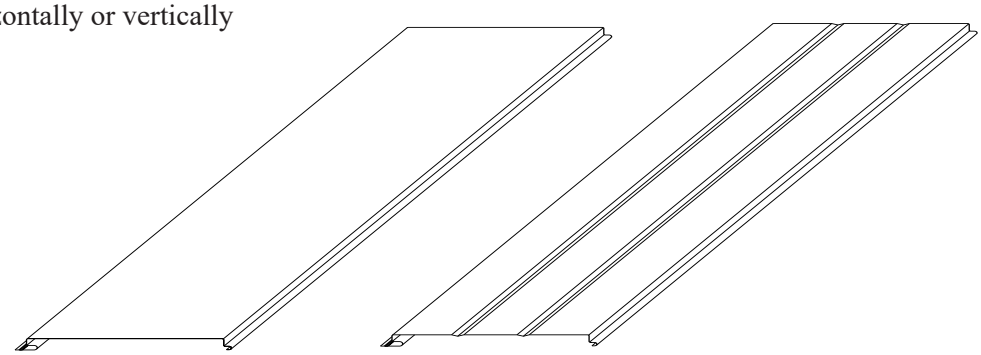


V-Grooves

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

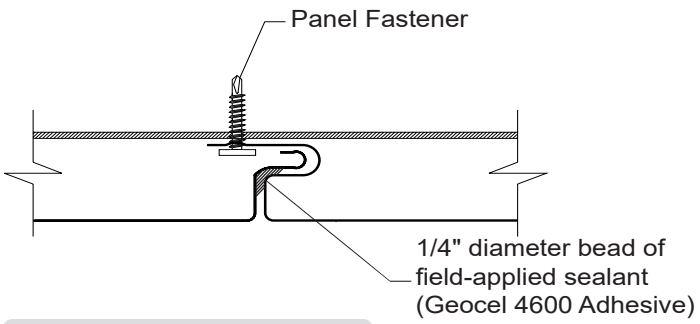
- UL 263 Fire Resistance Rating - per assembly
- ASTM E 283 Air Leakage - 0.25 cfm/ft^2 at 6.24 psf
- ASTM E 331 Water Penetration - none at 12 psf
- ASTM E 330 Structural Performance
- 2023 FBC Approval - FL9482.5

MS Metal Sales™

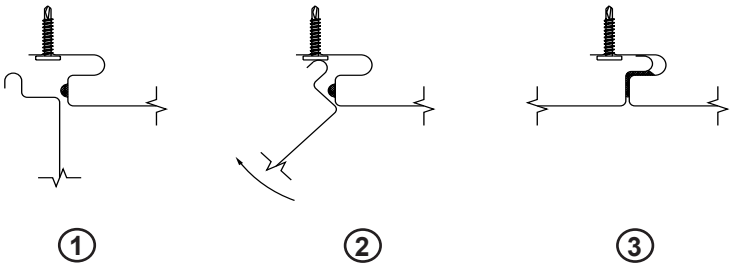
SOFFIT PANEL

Condensed Technical Reference

SIDELAP FASTENING DETAIL



SIDELAP INSTALLATION



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 Driller

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.

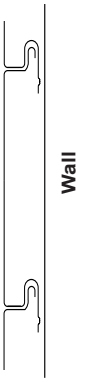
VERTICAL DIRECTIONAL DETAILS

Left to Right Installation

Right to Left Installation

HORIZONTAL DIRECTIONAL DETAIL

Top to Bottom Installation



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'	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	-

1. 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.
2. Allowable load is calculated in accordance with AISI 2016 specifications considering bending, shear, combined bending & shear and deflection. Allowable load does not address web crippling, fasteners, support material or load testing. Allowable load considers the three or more equal spans condition. Panel weight is not considered.
3. Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
4. Allowable loads do not include a 1/3 stress increase for wind.

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