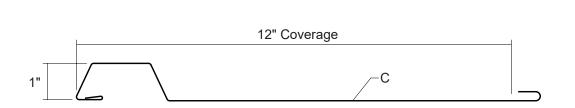
AP1-1212 WALL

APEX SERIES"



ARCHITECTURAL COMMERCIAL INDUSTRIAL PANEL

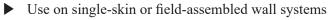
CONCEALED FASTENED

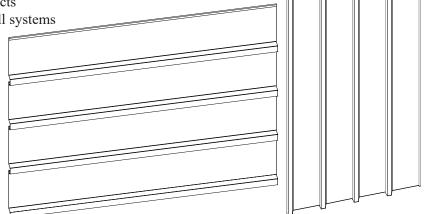
12" COVERAGE WALL AND LINER PANEL

OPEN FRAMING OR SOLID SUBSTRATE

PANEL OVERVIEW

- ► Finish: Standard: PVDF and Acrylic-Coated Galvalume®
 - Optional: multi-pass PVDF and Fluropon® PURE
- ► Corrosion Protection: AZ50 per ASTM A 792 for Painted Galvalume®
 - AZ55 per ASTM A 792 for Acrylic-Coated Galvalume®
 - G90 per ASTM A 653 for Painted Galvanized
- ▶ Gauges: 24 ga standard; 22 ga and 20 ga optional
- 12" panel coverage, 1" panel heightTrapezoidal ribs on 12" centers
- Clip-attached, concealed-fastened panel system
- ▶ Panel Length: 6' minimum, 20' maximum
- Panels can be installed horizontally or vertically
- Panels are interchangeable for accent effects





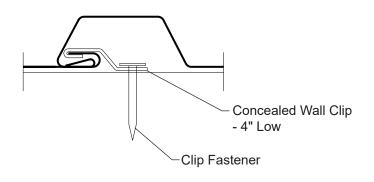
TESTING

- ► ASTM E 283 Air Leakage, with building wrap
- ► ASTM E 331 Water Penetration, with building wrap
- ASTM E 330 Load Test
- ► ASTM E 1592 Load Test
- 2023 FBC Approval FL34027.1

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P1-1212 WALL

PANEL ATTACHMENT



FASTENING INFORMATION

- Concealed Wall Clip 4" Low is 1-3/4" x 4" x 3/8", from 16 ga, G90 material with 2 fastener holes.
- Clip Fasteners should be driven just to contact between fastener head / clip / support. Overdriven fasteners will cause panel distortions.
- Fasteners should extend 1/2" or more past the inside face of the support material for steel and wood sheathing support materials.
- Clip Fasteners:

Attaching to Wood:

#12-11 Low Profile Wood Screw

Attaching to Steel:

< 18 ga: 1/4"-13 Deck Screw

≥ 18 ga, ≤ 12 ga: #12-14 Self Drilling Screw

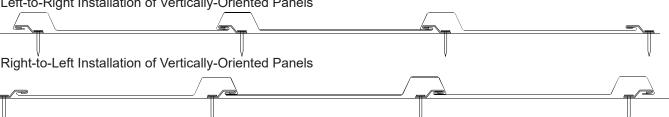
> 12 ga: 1/4"-14 Self Driller, No Washer

INSTALLATION DIRECTION

Horizontally-oriented panels must be installed from the bottom to the top.

Vertically-oriented panels may be installed from the right-to-left or left-to-right.

Left-to-Right Installation of Vertically-Oriented Panels



SECTION PROPERTIES									ALLOWABLE UNIFORM LOADS, psf For various clip spacings									
Ga	Width in	Viald	Weight psf	Top In Compression Bottom In Compression			Inward Load					Outward Load						
		Yield ksi		lxx in ⁴ /ft	Sxx in³/ft	lxx in ⁴ /ft	Sxx in³/ft	IIIWalu Load				Outward Load						
		1.01						2'	3'	4'	5'	6'	2'	3'	4'	5'	6'	
24	12	50	1.21	0.0260	0.0329	0.0207	0.0388	117	60	38	27	21	100	60	42	31	21	
22	12	50	1.58	0.0375	0.0482	0.0290	0.0516	117	60	38	27	21	100	60	42	31	21	
20	12	33	1.91	0.0527	0.0691	0.0394	0.0648	117	60	38	27	21	100	60	42	31	21	

- 1. Theoretical section properties have been calculated per AISI S100 2016(20) '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 S100 specification considering bending, shear, combined bending & shear, deflection and load testing of comparable profiles on 16 ga girts. Allowable load does not address web crippling, fasteners or support material. Panel weight is not considered.
- Allowable load considers the three or more equal spans condition.
- 4. 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.

⊘MSMC/1-2024

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