VERTICAL SEAM

ARCHITECTURAL COMMERCIAL PANEL

CONCEALED FASTENED

12", 16" OR 18" COVERAGE

MINIMUM SLOPE 1:12*

OPEN FRAMING OR SOLID SUBSTRATE

PANEL OVERVIEW

- Finishes: 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: 24 ga standard; 26 ga and 22 ga optional
- 12", 16" or 18" panel coverage, 1 3/4" rib height
- Panel Length: Minimum: 5'; Maximum: 45' recommended
- Architectural, structural integral standing seam roof system
- Alternate materials include 16 and 20 oz copper and 0.032" aluminum
- Snap-together side lap with factory-applied sealant
* Minimum roof slope is 1:12 for solid substrates and 3:12 for open framing

TESTING AND APPROVALS

- UL 2218 Impact Resistance - Class 4
- UL 790 Fire Resistance Rating - Class A, per building code
- UL 263 Fire Resistance Rating - per assembly
- ASTM E 283 Air Leakage - 0.035 cfm/ft² at 1.57 psf
- ASTM E 331 Water Penetration - none at 12 psf
- ASTM E 1680 Air Leakage - 0.0036 cfm/ft² at 6.24 psf
- ASTM E 1646 Water Penetration - none at 6.24 psf
- ASTM E 1592 Structural Performance
- UL 580 Uplift Resistance - Class 90 Constructions: #436, #446 and #448
- Texas Windstorm - Evaluation RC-412
- 2017 FBC Approvals - FL11560.10, FL11560.11, FL 11560.12, FL11560.13 and FL11560.14
- Miami-Dade County, Florida - NOA 18-1227.01, expires 3/8/2024
- ICC Evaluation Report - ESR-2385
VERTICAL SEAM

ATTACHMENT DETAIL

Factory-Applied Sealant
Vertical Seam Panel
Clip Fastener
Clip

FASTENING INFORMATION

► Clips
1. Clip spacing is based upon the design loads, the spanning capacity of the panels, the fasteners and the support members.
2. Clips are 0.050" thick. G90 is standard, 304 stainless is optional. 2 fastener holes is standard, 3 holes is optional.
3. Clips can accommodate practically unlimited thermal movement.

► Fasteners
1. Overdriven fasteners will cause panel distortions.
2. Fasteners to wood and steel should extend 1/2" or more past the inside face of the support material.

Clip Fasteners and Concealed End Fasteners:
Attaching to Wood:
#10-12 Pancake Head Wood Screw
Attaching to Steel:
<18 ga: 1/4"-14 Deck Screw
>=18 ga, <=12 ga: #10-16 Pancake Head Driller
Attaching to Concrete:
3/16" or 1/4" TapCon, Phillips Flat Head

Exposed End Fasteners:
Attaching to Wood:
#10-14 XL Wood Screw
Attaching to Steel:
#12-14 XL Driller

Trim Fasteners:
1/4"-14 x 7/8" XL Stitch Screw
1/8" x 3/16" Pop Rivet

SECTION PROPERTIES

VERTICAL SEAM

UL90 CLIP
2 Fasteners

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