PANEL OVERVIEW

- Finishes: Standard: PVDF and Acrylic-Coated Galvalume®
  - Optional: MS Colorfast45®
- 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, 22 ga, 20 ga and 18 ga optional
- 36" panel coverage, 1 1/2" rib height
- Panel Length: Minimum: 5'; Maximum: 45' recommended
- Applies over open framing or solid substrate
- Exposed fastened panel
- Minimum roof slope: 1:12
- Trapezoidal ribs on 7.2" centers
- Optional material: Aluminum

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 - 0.0148 cfm/ft² at 12 psf *
- ASTM E 331 Water Penetration - none at 6.24 psf*
- ASTM E 1680 Air Leakage - 0.0002 cfm/ft² at 12 psf*
- ASTM E 1646 Water Penetration - none at 12 psf*
- ASTM E 1592 Structural Performance
- UL 580 Uplift Resistance - Class 90 Constructions: #137, 244
- ASTM E 455 Diaphragm Testing
- ICC Evaluation Report - ESR-2385

* uses Tape Sealant and Stitch Screws 1' oc in Side Lap
**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: 
  - #10-14 XL Wood Screw
- Attaching to Steel: 
  - ≤12 ga: #12-14 XL Driller
- Side Lap Fastener: 
  - 1/4"-14x7/8" XL Stitch Screw, 1' on center
- Trim Fasteners: 
  - 1/4"-14 x 7/8" XL Stitch Screw

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**SECTION PROPERTIES**

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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 and shear and deflection. Allowable load considers the 3 or more equal spans condition. Allowable load does not address web crippling, fasteners, support material or load testing. 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.