

## Product Evaluation

RC323 | 0422

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

**Evaluation ID:** RC-323

**Effective Date:** April 1, 2022

**Re-evaluation Date:** December 2024

**Product Name:** Snap-Clad 24-Gauge Steel Standing Seam Roofing Panels Installed Over a Plywood or OSB Roof Deck

**Manufacturer:** Petersen Aluminum Corporation  
1005 Tonne Road  
Elk Grove Village, IL 60007  
(800) 441-8661

**General Description:**

The Snap-Clad standing seam roof panels are 24-Gauge steel roofing panels that have a snap together seam. The roofing panel has an effective width of 16". The roofing panel has a yield strength of 50,000 psi.

**Limitations:**

**Roof Framing:** The aluminum roofing panels must be installed over either a minimum 19/32" plywood roof deck or a minimum 23/32" OSB roof deck.

**New Roof Framing Attachment:** The roof framing must meet or exceed the uplift requirements of the IRC or IBC and must be installed as required for resistance to wind loads.

**Installation Over an Existing Roof Covering:** Not permitted.

**Design Wind Pressures:** The design pressure uplift load resistance must be as specified in Table 1.

**Roof Slope:** The aluminum roofing panels must be installed on roofs with a minimum roof slope of 1/2:12.

**Table 1:**

Attachment of Minimum 24-Gauge Steel Snap-Clad Standing Seam Roofing Panels to a Minimum 19/32" Plywood or 23/32" OSB Roof Deck

System	Design Pressure (psf)	Panel Seam	Panel Clip	Clip Spacing	Clip Fastener
1	-73.3	Snap-Clad	18-gauge, 3-1/2" wide Snap-Clad Steel Clip	12"	Two No. 10-12 x 1" A-point screws
2	-45.0	Snap-Clad	18-gauge, 3-1/2" wide Snap-Clad Steel Clip	18"	Two No. 10-12 x 1" A-point screws

**Installation:**

**General:** The steel roofing panels must be installed in accordance with the manufacturer's recommended installation instructions and this evaluation report.

**Panels:** The steel roofing panels must be secured to the roof framing as specified in Table 1.

**Deck:** The roof deck must be solidly sheathed with minimum 19/32" plywood or 23/32" OSB.

**Underlayment:** A minimum of one layer of Carlisle WIP 300HT self-adhered underlayment complying with ASTM D1970 applied over the roof deck.

**Roofing Panels to Plywood or OSB Roof Deck:** The aluminum roofing panels are secured to the roof deck in accordance with Table 1. The roofing panels are secured to the roof deck with an 18-gauge, formed, stainless steel clip, with dimensions of 3-1/2" wide x 1-7/8" high. The clips are located at panel ends and are spaced as specified in Table 1. The clips are secured with two (2) No. 10-12 x 1" A-point stainless steel screws. The screws must penetrate the sheathing a minimum of 3/16". The female rib of the panel is snapped over the male rib.

**Trims, Closures, and Accessories:** Components, such as the eave trim, rake trim, ridge trim, hip trim, and valley trim must be installed as required by the manufacturer.

**Panel Ends, Panel Edges, and Panel End Laps:** As required by the manufacturer.

**Note:** Keep the manufacturer's installation instructions available on the job site during the installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.