

Product Evaluation

RC323 | 1220

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 **Draft Revision**

Effective Date:

Re-evaluation Date: December 2024

Product Name: Snap-Clad 24-Gauge Steel Standing Seam Roof Panels Installed Over a Plywood 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 roof panel has an effective width of 16". The roof panel has a yield strength of 50,000 psi.

Limitations:

Roof Framing: The aluminum roofing panels must be installed over a minimum 19/32" plywood 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 roof slope not less than 2:12 and not greater than 8:12.

Table 1:

Attachment of Minimum 24-Gauge Steel Snap-Clad Standing Seam Roofing Panels to a Minimum 19/32" Plywood 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.

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 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.