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Product Evaluation

RC319 | 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-319 **Effective Date:** April 1, 2022

Re-evaluation Date: December 2024

Product Name: 0.032" Tite-Loc Plus 16" Aluminum Standing Seam Roof 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 Tite-Loc Plus standing seam roof panels are 0.032" thick aluminum roofing panels that have a mechanically seamed double lock side joint. The roof panel has an effective width of 16". The alloy used is 3003-H14.

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 0.032" Aluminum Tite-Loc Plus Standing Seam Roofing Panels to a Minimum 19/32" plywood or Minimum 23/32" OSB Roof Deck

System	Design Pressure (psf)	Panel Seam	Panel Clip	Clip Spacing	Clip Fastener
1	-74.1	Tite-Loc Plus	18-gauge, 4.3" wide SFS Intec 2- piece Stainless Steel Clip	12"	Two No. 10-13 x 1" GP 302 stainless steel pancake head screws with No. 2 square/Philips drive slot
2	-63.7	Tite-Loc Plus	18-gauge, 4.3" wide SFS Intec 2- piece Stainless Steel Clip	24"	Two No. 10-13 x 1" GP 302 stainless steel pancake head screws with No. 2 square/Philips drive slot

Installation:

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

Panels: The aluminum 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 minimum 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, two-piece, hook style, stainless steel clip manufactured by SFS Intec, with dimensions of 4.3" wide x 2.155" high. The clips are located at panel ends and are spaced as specified in Table 1. The clips are secured with two (2) No. $10-13 \times 1$ " GP 302 stainless steel pancake head screws with a No. 2 square/Philips head drive slot. The screws must penetrate the sheathing a minimum of 3/16". The female rib of the panel is engaged over the male rib and field seamed.

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.