

Product Evaluation

RC414 | 0320

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-414

Effective Date: March 1, 2020

Re-evaluation Date: March 2024

Product Name: SS150 1-1/2" Standing Seam Steel Roof Panels Installed Over Plywood Deck

Manufacturer: Jones Aluminum, Inc.
9805 Mallot Road
Beaumont, TX 77713
(409) 866-5585

General Description:

The SS150 1-1/2" standing seam is a standing seam metal roof system. The panels are roll formed with a New Tech Machinery SSQ roll former. The panel is comprised of 24-gauge steel. Each panel has a 1-1/2" rib and has a maximum panel width of 16". The panel is mechanically seam 180 degrees.

Limitations:

Roof Decking: Install metal roof panels over a minimum of 15/32" thick plywood decking.

New Roof Deck Attachment: Roof decking must meet or exceed the uplift requirements of the IRC and the IBC and install the decking in a manner to resist lateral loads.

Installation Over an Existing Roof Covering: Not permitted.

Roof Slope: Do not install panels on roofs with a roof slope less than 2:12.

Design Wind Pressures: For installations to minimum 15/32" thick plywood roof decks, Table 1 specifies the design wind pressure limitations.

Table 1. SS150 1-1/2" Standing Seam Steel Roof Panels Installed Over Plywood Deck

System	Design Wind Pressure	Clip Spacing
1	-71 psf	24"
2	-101 psf	6"

Installation:

General: Install metal roofing panels in accordance with the manufacturer's recommended installation instructions and this evaluation report.

Deck: Solidly sheath roof deck with minimum 15/32" plywood.

Underlayment: Use a minimum of one layer of No. 30 (Type II) asphalt felt. The underlayment must comply with one or more of the following: ASTM D 226, ASTM D 4869, or ASTM D 1970. Install the felt with 4" laps. Fasten the felt to the roof deck with corrosion resistant fasteners in accordance with the manufacturer's installation instructions. Apply fasteners along the overlaps no farther apart than 36" on center.

Anchorage to Roof Decking: Fasten the metal roof panels in accordance with Table 1. Secure the metal roofing panels to the roof deck with 22-gauge steel clips as specified in Table 1. The clips are NC-33010, 22-gauge galvanized low float clips with a 16-gauge base; 4-1/4" long by 1-3/4" high; and 4" x 5" 16-gauge bearing plates. The clips are located at panel ends and are spaced in accordance with Table 1. Secure clips with two (2), AMSI #10-12 x 1" Pancake Type A screws. The screws must penetrate the sheathing a minimum of 3/16". Engage the female rib of the panel over the male rib and field-seamed.

Trims, Closures, and Accessories: Install components, such as the eave trim, rake trim, ridge trim, hip trim, and valley trim as required by the manufacturer.

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

Panel Edges: 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.