

Product Evaluation

RC415 | 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-415

Effective Date: March 1, 2020

Re-evaluation Date: March 2024

Product Name: SS200 2" Standing Seam Steel Roofing Panels Installed over a Steel Deck

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

General description:

The SS200 2" metal roof panel 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. The panel has a 2" rib with a maximum width of 18". The panel is mechanically seam 180 degrees.

Limitations:

Roof Framing: Install metal roofing panels over a 22-gauge, 33 ksi steel F-deck. The steel deck is secured to 12-gauge, A36 structural steel frame members spaced a maximum of 5'0".

New Roof Deck Attachment: The roof decking shall meet or exceed IRC and IBC uplift requirements, and the decking shall be installed in a manner to resist lateral loads.

Installation Over an Existing Roof Covering: Installation over an existing roof covering is not permitted.

Roof Slope: The minimum roof slope is 1/4:12.

Design Wind Pressures: For installations to 22-gauge steel decks, design wind pressure limitations are specified below.

Table 1. SS200 2" Standing Seam Steel Roofing Panels Installed over a Steel Deck

System	Design Wind Pressure	Clip Spacing
1	-71 psf	36"
2	-93.5 psf	12"

Installation:

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

Deck: 22-gauge steel F-deck attached to 12-gauge steel purlins spaced a maximum of 5'-0" on center.

Insulation: One layer of 2" thick Atlas ACFoam® -II rigid insulation with polyiso foam core with fiber reinforced felt facers, minimum 20 psi compressive strength. Attach insulation board to the steel deck with No. 14-13 x 5" DPI Concealor screws and 2-7/8" diameter steel insulation plates, five per sheet.

Anchorage to Roof Decking: Fasten metal roof panels in accordance with table above. Secure panels to roof deck with NC-33010 galvanized low-float clips (22-gauge for the top and 16-gauge for the bottom); 4-1/4" long by 1-3/4" high; and 4" x 5" 16-gauge bearing plates. Space clips and bearing plates as specified in the table above. Secure clips with two, No. No. 14-13 x 5" Truss head Sentry Plus Five roofing screws. Use fasteners long enough to ensure a minimum penetration of three threads below the steel deck.

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.