

Product Evaluation

RC10 | 0220

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-10

Effective Date: February 1, 2020

Re-evaluation Date: February 2024

Product Name: Rustic Shingles, Aluminum Shingles

Manufacturer: Classic Metal Roofing Systems
8510 Industry Park Drive
Piqua, OH 45356
(800) 543-8938

General description:

The Rustic Shingle (SH-401) is a formed aluminum shingle to simulate the look of wood shakes. The Rustic Shingles are constructed of 0.019" nominal thickness aluminum with each full shingle measuring 24-15/16" in length and 12-13/16" in width. The shingles have an exposure of 24" x 12".

Limitations:

Design Pressure: -55 psf

Roof Deck: The roof deck must be solidly sheathed with plywood wood structural panels. The minimum required thickness of the plywood panels must be 15/32".

Roof Deck Attachment: The roof deck must be secured to the roof framing to resist the required wind uplift design pressures.

Installation Over an Existing Roof Covering: Installation over an existing roof covering is limited to a maximum of one (1) existing layer of composition shingles or wood shingles or shakes. The minimum thickness of the existing roof deck must be as required for a new roof covering installation. Note: Inspection of the existing roof deck must be made before installing the roof shingles. The condition of the existing roof deck must be acceptable to receive the roof shingles before the roof panel installation can proceed. Note: A new underlayment installation is required when installing panels over an existing roof covering.

Roof Slope: The roof shingles must not be installed on roofs with a roof slope less than 3:12.

Installation:

General Installation Requirements:

The Rustic Shingles must be installed as specified in this evaluation report and as specified in the Rustic Shingle Installation Manual as published by Classic Metal Roofing Systems, Revision 03/12.

Underlayment: A minimum of one (1) layer of No. 30 (Type II) asphalt felt or equivalent must be used. The underlayment used must comply with one or more of the following: ASTM D 226, ASTM D 4869, or ASTM D 1970. The underlayment must be installed with minimum 18" side laps and minimum 6" end laps. The underlayment must be applied with corrosion-resistant fasteners and plastic caps. The fasteners must be spaced approximately 12" on center horizontally and vertically.

Starter Strip: A starter strip (part No. SH-402) must be installed as specified in the manufacturer's installation instructions. The starter strip must be secured to the roof deck with aluminum ring shank nails (0.145" diameter shank, 7/16" diameter head, minimum 1-3/4" in length) spaced approximately 12" on center.

Gable Edge Strip: A gable edge strip (part No. SH-417) must be installed as specified in the manufacturer's installation instructions. The gable edge strip must be secured to the roof deck with aluminum clips and aluminum ring shank nails (0.145" diameter shank, 7/16" diameter head, minimum 1-3/4" in length). The aluminum clips are secured to the return flange and spaced approximately 6" on center.

Shingle Anchorage to Roof Deck: The shingles are secured to the roof deck with aluminum clips (part No. C-209) and with the integrated nailing tab on the shingle.

The aluminum clips are a one-part assembly. The aluminum clips are 1-1/2" wide x 1-1/2" long x 24-gauge thickness.

A total of three (3) aluminum clips are required for each shingle. The three (3) aluminum clips are installed along the shingle's 24-15/16" length, evenly spaced (approximately 6" on center).

The aluminum clips and the integrated nailing tab on the shingle are secured to the roof deck with aluminum ring shank nails (0.145" diameter shank, 7/16" diameter head, minimum 1-3/4" in

length). The fasteners must be long enough to penetrate into and through the roof deck or a minimum of 1" into solid lumber. One (1) aluminum nail per aluminum clip is required, placed through the center hole in the aluminum clip. One (1) aluminum nail is required for the integrated nailing tab.

Note: The manufacturer's installation instructions as specified in the Rustic Shingle Installation Manual published by Classic Metal Roofing Systems, Revision 03/12, must be available on the job site during the roof covering installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.