

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION RC-10

Effective August 1, 2012

*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 shall be subject to reevaluation **August 2016**.*

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.

Rustic Shingles, Aluminum Shingles as manufactured by

Classic Metal Roofing Systems
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will be accepted for use in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT 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-inch nominal thickness aluminum with each full shingle measuring $24\frac{15}{16}$ " in length and $12\frac{13}{16}$ " in width. The shingles have an exposure of 24" x 12".

LIMITATIONS

Design Pressure: -55 psf

Roof Deck: The roof deck shall be solidly sheathed with plywood panels. The minimum required thickness of the plywood panels shall be $\frac{15}{32}$ ".

Roof Deck Attachment: The roof deck shall 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 existing layer of composition shingles or wood shingles or shakes. The minimum thickness of the existing roof deck shall 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 shall not be installed on roofs with a roof slope less than 3:12.

INSTALLATION INSTRUCTIONS

General Installation Requirements:

The Rustic Shingles shall 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 08/05.

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

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

Gable Edge Strip: A gable edge strip (part No. SH-417) shall be installed as specified in the manufacturer's installation instructions. The gable edge strip shall be secured to the roof deck with aluminum clips and aluminum ring shank nails (0.145" diameter shank, $\frac{7}{16}$ " diameter head, minimum $1\frac{3}{4}$ " in length). The aluminum clips are secured to the return flange and spaced approximately 6 inches 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 $1\frac{1}{2}$ " wide x $1\frac{1}{2}$ " 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 $24\frac{15}{16}$ inch length, evenly spaced (approximately 6 inches 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, $\frac{7}{16}$ " diameter head, minimum $1\frac{3}{4}$ " in length). The fasteners shall be long enough to penetrate into and through the roof deck or a minimum of 1 inch into solid lumber. One aluminum nail per aluminum clip is required, placed through the center hole in the aluminum clip. One 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 08/05, shall be available on the job site during the roof covering installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.