

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION EC-45

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.

SH-401 Rustic Shake Aluminum Shingles, as manufactured by

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

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 $12\frac{3}{16}$ " in width. The shingles have an exposure of 24" x 12". The shingle is limited to exterior wall coverings only. The Rustic Shake Shingle does not provide lateral load resistance.

LIMITATIONS

Design Pressure: -55 psf

Wall Framing: The wall studs shall be spaced a maximum of 24 inches on center. Wall sheathing shall be minimum SPF dimension lumber.

Wall Sheathing: The exterior walls shall be solidly sheathed with plywood panels. The minimum required thickness of the plywood panels shall be $\frac{15}{32}$ ".

Wall Sheathing Attachment: The wall sheathing shall be secured to the wall framing to resist the required wind design pressures.

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.

Vapor Barrier: A vapor barrier shall be provided.

Starter Strip: A 2 inch wide aluminum starter strip (part No. SH-412) shall be installed at the base of the wall. The starter strip shall be secured to the wall sheathing with aluminum ring shank nails (0.145" diameter shank, $\frac{7}{16}$ " diameter head, minimum 2" in length) spaced approximately 12 inches on center.

J-Channel: Aluminum J-Channel (part No. SH-404) that is 0.75 inch deep by 1.75 inch wide by 1.25 inch high, with an integral water dam and return flange, shall be installed around windows, doors, and along the tops of walls. The J-Channel shall be secured to the wall sheathing with aluminum ring shank nails (0.145" diameter shank, $\frac{7}{16}$ " diameter head, minimum 2" in length). The ends of the panels are inserted into J-Channel.

Inside Corners: Install a 1.25 inch by 1.25 inch wood block strip in the inside corner. Butt the J-Channel (SH-404) against the wood blocking strip and fasten to the wall sheathing with aluminum ring shank nails (0.145" diameter shank, $\frac{7}{16}$ " diameter head, minimum 2" in length) spaced 12 inches on center. The J-Channel may be installed on both sides of the wood blocking strip if needed. The base of the J-Channels should rest against the sidewall. Install the ends of the panels inside the J-Channel.

Shingle Anchorage to Wall Framing: The shingles are secured to the wall framing 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 wall framing 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 wall framing. 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.