

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION RC-53

Effective September 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.

Country Manor Shakes, Aluminum Roofing Panels as manufactured by

Classic Metal Roofing Systems
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Piqua, Ohio 45356
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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 Country Manor Shake is a formed aluminum roofing panel. The Country Manor Shakes are constructed of 0.019-inch nominal thickness aluminum with each full roofing panel measuring 48" in length and 14 $\frac{1}{16}$ " in width. The shingles have an exposure of 48" x 12".

LIMITATIONS

Design Pressure: -62.5 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 type and 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 shakes. The condition of the existing roof deck must be acceptable to receive the roof shakes before the roofing panel installation can proceed. Note: A new underlayment installation is required when installing the roofing shakes over an existing roof covering.

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

INSTALLATION INSTRUCTIONS

General Installation Requirements:

The Country Manor Shakes shall be installed as specified in this evaluation report and as specified in the Installation Methods for Perfection Country Manor Shakes Aluminum Roofing manual as published by Classic Metal Roofing Systems, 4th Edition, October 2006.

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 overhang at roof edges. The underlayment shall be applied with corrosion-resistant fasteners. One row of fasteners is required along the overlap spaced a maximum of 36 inches on center.

Starter Strip: A starter strip (part No. CM-102) 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 6 inches on center.

Drip Edge: The standard drip edge (part No. CM-105) shall be installed as specified in the manufacturer's installation instructions. The drip edge is 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 24 inches on center.

Shake Installation and Anchorage to Roof Deck: The shakes shall be installed from left to right beginning at the lowest left hand corner of each area to be covered. The far left shake shall be cut as required to stagger the vertical joints between successive courses. The panels shall be locked together by engaging a formed lip on the left hand side of panels with a modified U-shaped water stop on the right side of the preceding panel. The bottom of the first row shall be locked into the starter strip. The bottom of each succeeding row shall be locked into the top lock of the previous course. Follow the installation instructions for proper installation.

The shakes 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. The fasteners are placed through the nailing flange of the shake panel, spaced approximately $1\frac{1}{2}$ inches from each corner and approximately 6 inches on center for a total of nine (9) fasteners per panel.

Note: The manufacturer's installation instructions as specified in the Installation Methods for Perfection Country Manor Shakes Aluminum Roofing manual as published by Classic Metal Roofing Systems, 4th Edition, October 2006, 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.