

Product Evaluation

RC53 | 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-53

Effective Date: February 1, 2020

Re-evaluation Date: February 2024

Product name: Country Manor Shakes, Aluminum Roofing Panels

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

General 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 14-9/16" in width. The shingles have an exposure of 48" x 12".

Limitations:

Design Pressure: -62.5 psf

Roof Deck: The roof deck must be solidly sheathed with plywood panels. The minimum nominal 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 existing layer of composition shingles or wood shingles or shakes. The type and 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 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 must not be installed on roofs with a roof slope less than 3:12.

Installation Instructions:

General: The Country Manor Shakes must 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 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-inch side laps and minimum 6-inch end laps. The underlayment must overhang at roof edges. The underlayment must be applied with corrosion-resistant fasteners. One row of fasteners is required along the overlap spaced a maximum of 36" on center.

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

Drip Edge: The standard drip edge (part No. CM-105) must 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, 7/16" diameter head, minimum 1-3/4" in length) spaced approximately 24" on center.

Shake Installation and Anchorage to Roof Deck: The shakes must be installed from left to right beginning at the lowest left-hand corner of each area to be covered. The far-left shake must be cut as required to stagger the vertical joints between successive courses. The panels must 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 must be locked into the starter strip. The bottom of each succeeding row must 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, 7/16" diameter head, minimum 1-3/4" in length). The fasteners must be long enough to penetrate through the roof deck. The fasteners are placed through the nailing flange of the shake panel,

spaced approximately 1-1/2" from each corner and approximately 6" on center for a total of nine (9) fasteners per panel.

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.