

Product Evaluation

RC380 | 0320

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-380

Effective Date: March 1, 2020

Re-evaluation date: March 2024

Product Name: Oxford Shingle, Aluminum Shingle

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

General Description:

Oxford Shingles are constructed of 0.024" thick 3105-H27 aluminum with each panel measuring 60-3/4" x 12-3/4". Oxford Shingles have a four-way interlock that locks each panel to the surrounding panels. The panels are secured to the roof deck using aluminum fastening clips and fasteners.

Limitations:

Design Pressure: -65 psf

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

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

Limitations (continued):

Installation Over an Existing Roof Covering: Installation over an existing roof covering is limited to a maximum of one existing layer of composition shingles. Oxford Shingles may not be installed over wood shakes or shingles, tile, cement shakes or other metal roofing. The minimum thickness of the existing roof deck shall be as required for a new roof panel installation. Note: Inspection of the existing roof deck must be made before installing the roof panels. The condition of the existing roof deck must be acceptable to receive the roof panels 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 panels shall not be installed on roofs with a roof slope less than 3:12.

Installation:

General Installation Requirements: Oxford Shingles must be installed as specified in this evaluation report and as specified in the Oxford Shingle Installation Instructions as published by Classic Metal Roofing Systems.

Underlayment: A minimum of one layer of No. 30 (Type II) asphalt felt 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 18-inch end laps. The underlayment must be applied with corrosion-resistant fasteners and plastic caps. One row of fasteners is required in the center and one row along the edges. The fasteners must be spaced not farther apart than 12 inches on center.

Drip Edge/Starter Strip: A drip edge/starter strip must be constructed and installed as specified in the manufacturer's installation instructions.

Shingle Panel Anchorage: The shingles are secured to the deck with aluminum clips. The clips are a one-part assembly. The clips are 2.8" wide x 7-1/4" long x 0.032" in thickness. Along one end of the 7-1/4" wide side, the clip has a 1/2" long return leg. The clip has three pre-drilled holes located at 1", 3.625", and 6.25". A total of five (5) clips are required for each panel, one (1) at each end of the panel and the other three (3) located at 13" o.c. The clips are secured to the roof deck with three (3) aluminum ring shank nails (0.14" diameter shank, 0.43" diameter head, minimum 1-3/4" in length).

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.