

Product Evaluation

RC463 | 0724

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-463

Effective Date: July 1, 2024

Re-evaluation Date: July 2028

Product name: Milan Steel Roofing Shingles Installed Over a Plywood Deck

Manufacturer: McElroy Metal, Inc.
P.O. Box 1148
Shreveport, LA 71163
(318) 747-8000

General Description:

The Milan steel roofing shingles are 14-1/4" wide by 39-1/2" long. The Milan steel roofing shingles are formed from 0.0142" thick steel complying with ASTM A 653 CS Type B. The Milan steel roofing shingle has a Galvanized G90 metallic coating and is finished with a Fluoropolymer paint.

Limitations:

Roof Slope: Do not install the product on roof slopes less than 3:12.

Installation Over an Existing Roof Covering: If installing over an existing roof covering, limit to a maximum of one existing layer of composition shingles applied over an existing, solid roof deck of minimum 15/32" plywood. Note: Inspect the existing roof deck prior to the installation of the roof panels. The existing roof deck's condition must be acceptable to receive the metal roofing panels before installing the metal roofing panel. Installation over an existing roof covering requires underlayment to be installed.

Installation:**Design Pressure Rating:** -46.9 psf**Roof Deck:** Minimum of nominal 15/32" thick plywood or nominal 1" thick SYP board decking.**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 felt must be installed with minimum 2" side laps and 3" end laps. The felt must be fastened to the roof deck with galvanized roofing nails along the overlap at a maximum of 36" on center.**Alternative Underlayment:** A synthetic underlayment may be used. The synthetic underlayment must comply with one or more of the following: ASTM D 226, ASTM D 4869, or ASTM D 1970. Install the synthetic underlayment as required by the underlayment manufacturer.**Anchorage:** The steel roof shingles are fastened to the roof deck with galvanized ring shank nails that have a minimum shank diameter of 0.125" and are minimum 1-3/4" in length with a head diameter of 3/8". Six nails are required to secure each shingle to the roof deck. The fasteners must be long enough to penetrate a minimum of 3/4" into the roof deck or completely through the roof deck if the roof deck is less than 3/4" thick.**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.