

## Product Evaluation

RC425 | 0422

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-425

**Effective Date:** April 1, 2022

**Re-evaluation Date:** April 2026

**Product Name:** Met-Tile, 26-gauge Steel Roofing Panels Installed over a Plywood Deck

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

**Sold by:** McElroy Metal, Inc.  
Metal Mart

### General Description:

Met-Tile steel roofing panels are manufactured from 26-gauge, coated steel, with a minimum yield strength of 40,000 psi. The steel roofing panels are 36" wide with a 1.5" rib height. The panel is available in Galvalume in accordance with ASTM A792.

### Limitations:

**Roof Deck:** Install the Met-Tile steel roofing panels over a solid minimum 15/32" thick plywood deck.

**New Roof Deck Attachment:** The roof deck must meet or exceed the uplift requirements of the IRC and IBC. Install the roof deck in a manner to resist lateral loads as required.

**Design Wind Pressure:** The design wind uplift pressure is -86.0 psf

**Installation Over an Existing Roof Covering:** Do not install over an existing roof covering.

**Roof Slope:** Do not install the panels on roofs with a roof slope less than 3:12.

**Installation:**

**General Installation Requirements:** Satisfy all IRC and IBC requirements and follow all manufacturer's installation instructions unless this product evaluation specifies otherwise.

**Roof Deck:** A solid, minimum 15/32" thick plywood deck.

**Underlayment:** Use a minimum of one layer of No. 30 (Type II) asphalt felt. Use underlayment that complies with one or more of the following: ASTM D 226, ASTM D 4869, or ASTM D 1970. Install the underlayment with 6" side laps and 3" end laps. Apply the underlayment with corrosion resistant fasteners in accordance with the IRC, the IBC, and the manufacturer's installation instructions.

**Alternative Underlayment:** Use a minimum of one layer of self-adhering underlayment that complies with ASTM D 1970. Install the underlayment per the manufacturer's installation instructions.

**Anchorage to Roof Decking:** Fasten the steel roofing panels to the roof deck with No. 9-15 x 1-1/2" long, Woodgrip screws with sealing washers at every low flute, 24" on center. A No. 9-15 x 2-1/2" long, Woodgrip screw with a sealing washer is located at the side laps at 24" on center. A No. 12 x 3/4" long, HWH Sharp Point screw with a sealing washer is located at the side laps at 24" on center (located in between the No. 9-15 x 2-1/2" screws).

**Trims, Closures, and Accessories:** Install components, such as the eave trim, rake trim, ridge trim, hip trim, and valley trim as required by McElroy Metals, Inc.

**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.