



Product Evaluation

RC425 | 1214

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: December 1, 2014

Re-evaluation Date: December 2018

Product Name: Met-Tile, Minimum 26-gauge Steel Panel

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 metal roof 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 Decking:** Install the Met-Tile metal roof panels over a minimum of 15/32" thick plywood decking.
- **New Roof Deck Attachment:** The roof decking must meet or exceed the uplift requirements of the IRC and IBC. Install the decking in a manner to resist lateral loads.
- **Design Wind Pressures:** Table 1 specifies the design wind pressure limitations for installations to 15/32" thick plywood roof decks.
- **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 Instructions:

- **General Installation Requirements:** Satisfy all IRC and IBC requirements and follow all manufacturer's installation instructions, unless this product evaluation specifies otherwise.
- **Panel Installation Requirements:** Attach panels in accordance with Table 1.

Table 1: Attachment of 26-gauge, Met-Tile to 15/32" Plywood Structural Panel Roof Deck:

System	Roof Deck	Design Pressure (psf)	Panel Fasteners
1	15/32" thick plywood	-86	Fasten the metal roof panels in accordance with Tables 1. Secure the metal roofing panels to the roof deck with No. 9-15 x 1-1/2" long, Woodgrip with sealing washer at every low flute, 24" on center. A No. 9-15 x 2-1/2" long, Woodgrip with sealing washer is located in the side laps at 24" on center. A No. 12 x 3/4" long, HWH Sharp Point with sealing washer in the side laps at 24" on center (located in between the No. 9-15 x 2-1/2" screws).

- **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 manufacturer's installation instructions. Locate fasteners along the overlaps no further than 36" on center.
- **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 metal roof panels in accordance with Tables 1. Secure the metal roofing panels to the roof deck with No. 9-15 x 1-1/2" long, Woodgrip with sealing washer at every low flute, 24" on center. A No. 9-15 x 2-1/2" long, Woodgrip with sealing washer is located in the side laps at 24" on center. A No. 12 x 3/4" long, HWH Sharp Point with sealing washer in 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: The manufacturer's installation instructions must be available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.