

## Product Evaluation

RC162 | 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-162

**Effective Date:** February 1, 2020

**Re-evaluation Date:** February 2024

**Product Name:** Image II Steel Roofing Panels Installed Over a Plywood Deck

**Manufacturer:** Metal Sales Manufacturing Corporation  
3838 North General Bruce Dr.  
Temple, TX 76501  
(254) 791-6650

### General Description:

Image II Roof Panels are minimum 26-gauge (0.019" thick) aluminum-zinc alloy-coated steel with a Galvalume or painted finish. The panels are available in 12" and 16" widths and coverages. The panels are available with striations or minor rib profiles. Major ribs are 1" high.

### Limitations:

**Design Wind Pressures:** For installation to nominal 5/8" plywood roof decks. Design wind pressure limitations are specified in Table 1.

**Roof Slope:** Image II Roof Panel must not be installed on roofs with a roof slope less than 3:12, unless sealant is applied at the panel side laps in accordance with the Image II Metal Roof Panel Details.

**Table 1.** Image II Steel Roofing Panels Installed Over a Plywood Deck

Design Wind Pressure	Fasteners	Fastener Spacing
-41 psf	No. 8-18 x 3/4" truss head wood screws	2'-0" o.c.
-56 psf	No. 8-18 x 3/4" truss head wood screws	1'-6" o.c.
-70 psf	No. 8-18 x 3/4" truss head wood screws	1'-0" o.c.
-85 psf	No. 8-18 x 3/4" truss head wood screws	0'-6" o.c.

**Installation:**

**General:** The panel must be installed square (flush) with the eave and rake. The panels must not extend beyond the plane of the fascia board.

All IRC and IBC requirements must be satisfied, and the manufacturer's Image II Metal Roof Panel Details followed, unless otherwise specified by this product evaluation.

**Roof Deck:** Minimum nominal 5/8" plywood

**Panels:** Panels must be secured to the roof deck in accordance with Table 1. Refer to the Image II Metal Roof Panel Details for illustrations of the screw locations.

**Underlayment:** A minimum of one layer of No. 30 (Type II) asphalt felt underlayment must be used. The underlayment must comply with one or more of the following: ASTM D 226 or ASTM D 4869 if used over the field or perimeter of the roof, or ASTM D 1970 if used as a self-adhered ice and water shield. The felt must be installed with minimum 2" side laps and minimum 4" end laps. The nailable felt must be fastened to the roof deck with corrosion resistant fasteners in accordance with the manufacturer's installation instructions. Fasteners must be applied along the overlaps not farther apart than 36" on center.

**Anchorage: (Exposed Fastened End)** The panels must be fastened in the center of the fastening groove located along the male leg of the panel in accordance with Table 1 with No. 8-18 x 3/4" truss head type A sharp point wood screws to nominal (minimum) 5/8" plywood roof decking. The panel must be fastened along the rake at 0'-6" on center with No. 8-18 x 3/4" truss head wood screws. The panels must be fastened along the high end of the panels at 4" on center with No. 9-15 x 1-1/2" wood grip screws. Panel truss head wood screws and wood grip screws must be corrosion resistant, with a painted or plated finish, and must be properly driven, with truss head screws driven flush with the panel surface and wood grip screws driven so that the sealing material is slightly visible at the edge of the washer.

**Ridge Cap and Rake Trim:** The ridge cap and the rake trim must be attached to the panels with 1/8" x 3/16" Weather Gard pop rivets as indicated in the Image II Metal Roof Panel Details. Double bead tape sealant and urethane tube sealant are required at the trim.

**Note:** Keep the manufacturer's installation instructions available on the job site during the installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.