

Product Evaluation

RC381 | 0825

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-381

Effective Date: August 1, 2025

Re-evaluation Date: August 2029

Product Name: PowerSeam Metal Roofing Panels over Wood Deck

Manufacturer: Fabral Inc.
3449 Hempland Rd.
Lancaster, PA 17601
(717) 397-2471

General Description:

The PowerSeam metal roofing panel is a 24 gauge metal roof panel. The metal roofing panels have an actual coverage of 18". The 24 gauge metal roofing panels have a 50,000 psi yield point.

Limitations:

Roof Deck: The PowerSeam metal roofing panels shall be installed over minimum 15/32" thick plywood deck.

New Roof Deck Attachment: The wood deck shall meet or exceed the uplift requirements of the International Residential Code or International Building Code and shall be installed as required for resistance to wind loads.

Design Wind Pressures: The design pressure uplift load resistance must be as specified in Table 1.

Table 1

Attachment of 24-gauge PowerSeam metal roof Panels to minimum 1/2" Plywood Deck

Design Wind Pressure	Panel Clip	Clip Spacing Along Panel	Fasteners
-52.5 psf	Fixed one-piece, 22 gauge steel, 3" wide or Floating clip, two-piece assembly, 16 gauge steel, 1-5/8" wide and top piece, 22 gauge steel, 4-1/4" wide	4'-0" oc	Two (2) No. 12-14 x 1" long pancake head wood screws per clip

Roof Slope: The metal roofing panels may be installed on roofs with a roof slope as low as 1:12.

Installation Over an Existing Roof Covering: Not Permitted

Installation:

General: The PowerSeam metal roofing panels must be installed in accordance with the manufacturer's recommended installation instructions and this evaluation report.

Underlayment (optional): A minimum of one layer of No. 30 (Type II) asphalt must be used. The underlayment must comply with one of the following: ASTM D 226, ASTM D 4869, or ASTM D 1970. The underlayment must be installed with minimum 4" side laps and minimum 6" end laps. The underlayment must be fastened to the roof deck with corrosion resistant fasteners in accordance with the manufacturer's installation instructions. Fasteners to be applied as required by the IRC and the IBC.

Anchorage: The panels shall be fastened in accordance with Table 1. The fasteners shall be long enough to penetrate completely through the wood structural panels with a minimum exposure of 1/4" below the underside of the wood structural panels.

Trims, Closures, and Accessories: Components, such as the eave trim, rake trim, ridge trim, hip trim, and valley trim must be installed as required by the manufacturer.

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