

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION
RC-336

Effective Date: July 1, 2012
Revised May 1, 2013

*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 shall be subject to reevaluation in **November 2015**.*

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.

26 gauge PBR Metal Roofing Panels Over Wood Deck, manufactured by

Schulte Building Systems, Inc.
17600 Badtke Road
Hockley, TX 77447
Telephone: (281) 304-6111

will be accepted for use in areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

This evaluation report is for PBR metal roofing panels installed over steel purlins. The PBR panel is minimum 26 gauge galvalume steel with an optional paint finish. The 26 gauge metal roof panels have an actual coverage of 36". Each metal roof panel has ribs that are 1 1/4" deep. The metal roofing panels conform to ASTM A792, with a minimum 80,000 psi yield point.

LIMITATIONS

Roof Framing: The metal roofing panels shall be installed over minimum 1 5/32" thick plywood deck.

New Roof Framing Attachment: The roof framing 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 shall be as specified in Table 1.

Roof Slope: The metal roofing panels may be installed on roofs with a roof slope as low as 1/2:12 if sealant is used on the panel side laps. If sealant is not used on the panel side laps, then the minimum roof slope is 3:12.

Installation Over an Existing Roof Covering: Installation over an existing roof covering is limited to a maximum of one existing layer of composition shingles, wood shingles or shakes, built-up roofing, or roll roofing applied over an existing, solid roof deck of minimum 15/32" plywood. Note: Inspection of the existing roof deck must be made prior to the installation of the roof panels. The condition of the existing roof deck must be acceptable to receive the metal roofing panels before the metal roofing panel installation proceeds. NOTE: Underlayment is not required to be installed.

Table 1

Attachment of minimum 26 gauge PBR metal roofing panels to minimum $1\frac{5}{32}$ " thick wood deck

Design Wind Pressure	Panel Fastener Pattern	Panel Fastener Pattern Spacing
-56.0 psf	12"-12"-12"	2'-0" on center
-176.0 psf	7"-5"-7"-5"-7"	1'-0" on center

INSTALLATION INSTRUCTIONS

Panels: The metal roofing panels shall be secured to the roof covering as specified in Table 1 and in accordance with this section.

Underlayment: For installations over a solid deck, a minimum of one layer of No. 30 (Type II) asphalt felt shall be used. The underlayment used shall comply with one or more of the following: ASTM D 226, ASTM D 4869, or ASTM D 1970. The underlayment shall be installed per manufacturer's installation instructions.

Attachment of Metal Roof Panels to the Roof Deck: The metal roofing panels shall be secured to the roof substrate in the following way:

Roofing Panels to Plywood Deck: Minimum No. 10-14 x $1\frac{1}{2}$ " WoodTite with sealing washer. The fasteners shall be long enough to ensure a minimum penetration of $\frac{1}{4}$ " below the roof deck. (Note: If the metal roofing panels are installed over an existing roof covering, then the fastener length shall be increased so that the fasteners are long enough to ensure a minimum penetration of $\frac{1}{4}$ " below the existing plywood roof decking.) The required quantity of fasteners as well as the maximum allowable spacing of the fasteners is specified in Table 1.

Panel Side Laps: The panels are stitched together with minimum $\frac{1}{4}$ -14 x $\frac{7}{8}$ " Lap Tek screws with a sealing washer. The fasteners shall be spaced 20 inches on center along the length of the side lap.

Panel Ends: Minimum No. 10-14 x $1\frac{1}{2}$ " WoodTite with sealing washer at 7"-5"-7"-5"-7" fastener pattern. The fasteners shall be long enough to ensure a minimum penetration of $\frac{1}{4}$ " below the roof deck. Refer to Figure 1 for an illustration of the fastener pattern.

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

Alternative Fasteners: An alternative panel fastener may be used only if the pullout values into $1\frac{5}{32}$ " plywood are equivalent or better.

Note: The manufacturer's installation instructions shall be available on the job site during the installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.