

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
Phone No. (512) 322-2212 Fax No. (512) 463-6693

PRODUCT EVALUATION
RC-363

Effective February 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 **February 2017**.*

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.

Verti-Lok Standing Seam Metal Roof Panels over Steel Deck manufactured by

Southeastern Metals Manufacturing Company (SEMCO)
11801 Industry Drive
Jacksonville, Florida 32218
(904) 757-4200

and

Dot Metals
18757 Bracken Drive
San Antonio, TX 78266
(800) 331-9966

is acceptable in designated catastrophe zones along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

The Verti-Lok panel is a concealed fastened metal roof panel. The metal roof panels are manufactured from minimum 24 gauge, Fy = 50 ksi, steel, and has 16" wide coverage with 1 $\frac{3}{4}$ " tall ribs.

LIMITATIONS

Roof Framing: The metal roofing panels shall be installed over a 22 gauge steel deck. The steel deck is secured to 16 gauge steel purlins spaced a maximum of 5'-0".

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: For installations to 22 gauge steel decks, design wind pressure limitations are specified in Table 1.

Installation Over an Existing Roof Covering: Installation over an existing roof covering is not covered in this product evaluation report.

Roof Slope: The Verti-Lok aluminum panels shall not be installed on roofs with a roof slope less than 3:12.

INSTALLATION INSTRUCTIONS

General Installation Requirements: All International Residential Code (IRC) and the International Building Code (IBC) requirements must be satisfied and manufacturer's installation instructions followed, unless otherwise specified by this product evaluation.

Table 1
Attachment of Verti-Lok to steel roof decks

System	Design Wind Pressure (psf)	UL 90 Clip Spacing
1	-71.25	Clips spaced 24" o.c.
2	-90	Clips spaced 12" o.c.

Deck: 22 gauge steel B-deck attached to 16 gauge steel purlins spaced a maximum of 5'-0" o.c.

Insulation: 1" polyiso insulation board attached to steel deck with No. 14 x 3" long self-drilling pancake head screws and 3" diameter steel stress plates at a rate of six (6) fasteners per 4' x 4' board.

Underlayment: GAF StormGuard or equivalent that complies with the requirements for underlayment as specified in the IRC and the IBC. The underlayment shall be installed per the manufacturer's installation instructions. The underlayment shall be applied with a minimum 3" sidelap.

Attachment of Panels to Steel Deck: The metal panels are secured to the roof deck with 3" x 1" x 2", 18 gauge UL 90 clips with 6" x 6", 22 gauge bearing plates. The plates are fastened to the deck with two (2) No. 14-13 x 3" long self-drilling pancake head screws per clip. Refer to Figures 1 and 2 for panel profile and clip detail. In addition to the clips, Liquid Nails Interior and Exterior Marble and Granite Adhesive are applied in a $\frac{1}{4}$ " bead along the backside of the male lap. Refer to Figure 3 for lap detail with adhesive.

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.

Panel Ends and End Laps: As required by the manufacturer.

Panel Edges: As required by the manufacturer.

Note: The manufacturer's installation instructions shall be 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.

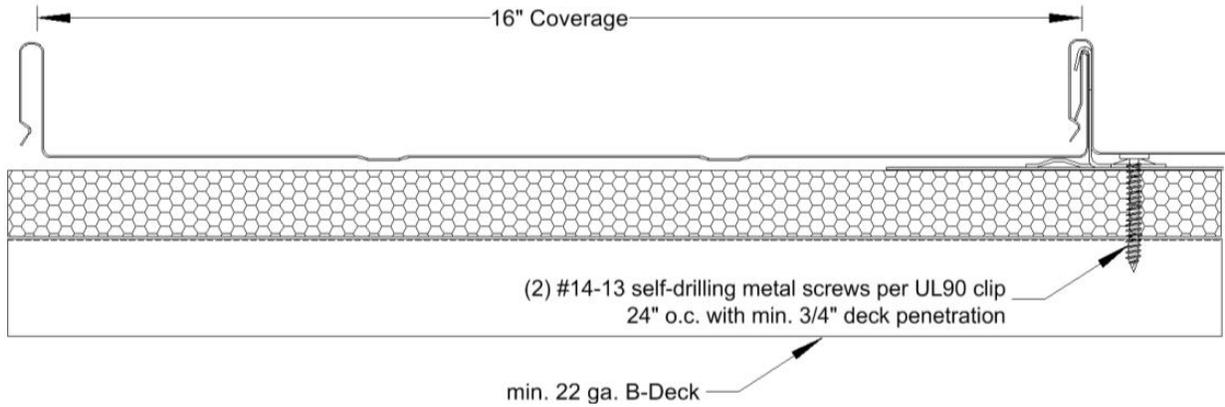


Figure 1: Verti-Lok panel detail for System 1

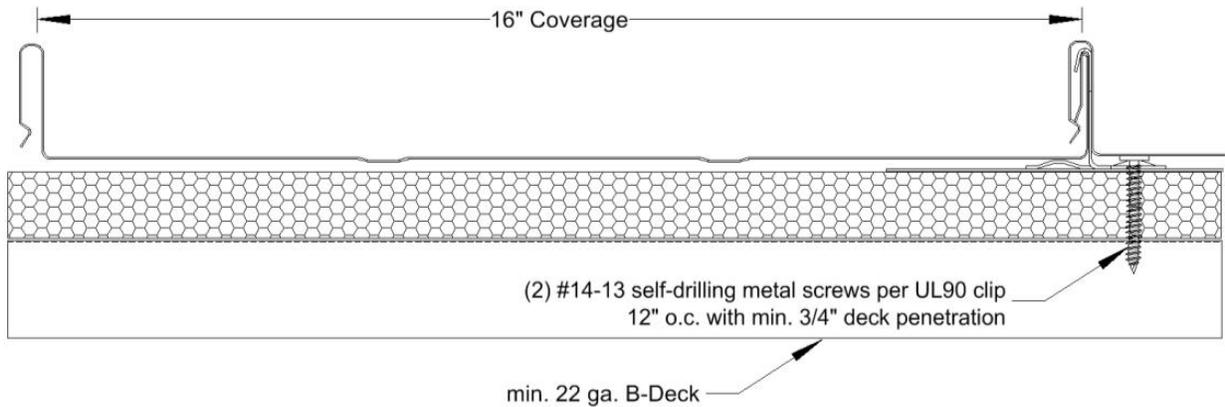


Figure 2: Verti-Lok panel detail for System 2

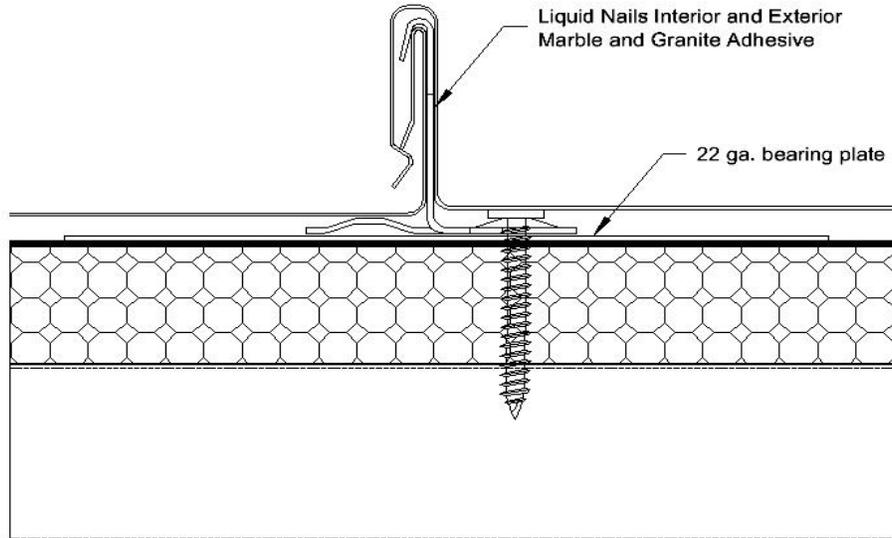


Figure 3: Verti-Lok panel lap detail