

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION RC-313

Effective January 1, 2012

*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.

24 gauge TS 324 TripleLok Metal Roofing Panels Over Steel Purlins, 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 TS 324 Triplelok metal roofing panels installed over steel purlins. The TS 324 Triplelok panel is minimum 24 gauge galvalume steel with an optional paint finish. The 24 gauge metal roof panels have an actual coverage of 24" and a standing seam rib height of 3". The ribs are seamed to a triplelok seam. The metal roofing panels conform to ASTM A792, with a minimum 50,000 psi yield point.

LIMITATIONS

Roof Framing: The metal roofing panels shall be installed over open steel purlins.

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 $\frac{1}{4}$: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: Not permitted.

Table 1

Attachment of minimum 24 gauge TS 324 Triplelok metal roofing panels to steel purlins

Design Wind Pressure (psf)	Purlins	Attachment of Panel to Steel Purlins
-54.6	Minimum 16 gauge; 2'-6" on center	MPS602S clip @ 2'-6" on center
-51.0	Minimum 16 gauge; 3'-0" on center	MPS602S clip @ 3'-0" on center
-47.3	Minimum 16 gauge; 3'-6" on center	MPS602S clip @ 3'-6" on center
-43.7	Minimum 16 gauge; 4'-0" on center	MPS602S clip @ 4'-0" on center
-40.0	Minimum 16 gauge; 4'-6" on center	MPS602S clip @ 4'-6" on center
-36.4	Minimum 16 gauge; 5'-0" on center	MPS602S clip @ 5'-0" on center

INSTALLATION INSTRUCTIONS

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

Steel Purlins: The minimum thickness of steel and the maximum spacing of the purlins shall be as specified in Table 1.

Underlayment: N/A.

Attachment of Metal Roof Panels to the Steel Purlins: The metal roofing panels shall be secured to the steel purlins with two (2) No. $\frac{1}{4}$ -14 x $1\frac{1}{4}$ " long HWH self-driller screws and MPS602S slider clips. The spacing of the clips shall be as specified in Table 1. The fasteners shall be long enough to ensure a minimum penetration of 3 pitches of thread below the steel purlin.

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.

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.