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Product Evaluation

RC313 | 0820

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-313 **Effective Date:** August 1, 2020

Re-evaluation Date: August 2024

Product Name: 24-gauge TS 324 TripleLok Standing Seam Steel Roof Panels Installed Over Steel

Purlins

Manufacturer: Schulte Building Systems, Inc.

17600 Badtke Road Hockley, TX 77447 (281) 304-6111

General Description:

This evaluation report is for TS 324 Triplelok standing seam metal roof 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 roof panels conform to ASTM A792, with a minimum 50,000 psi yield point.

Limitations:

Roof Framing: The metal roof panels must be installed over open steel purlins.

New Roof Framing Attachment: The roof framing must meet or exceed the uplift requirements of the IRC or IBC and must be installed in a manner to resist wind loads as required.

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

Roof Slope: The standing seam metal roof panels may be installed on roofs with a roof slope as low as 1/4:12.

Installation Over an Existing Roof Covering: Not permitted.

Table 1 Attachment of Minimum 24-gauge TS 324 Triplelok Steel Roof Panels to Steel Purlins

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

Installation:

General: The metal roof panels must 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 must be as specified in Table 1.

Underlayment: N/A.

Attachment of Metal Roof Panels to the Steel Purlins: The metal roof panels must be secured to the steel purlins with and MPS602S slider clips (the clip tab is 0.031" G90 galvanized steel and the clip base is 0.060" G90 galvanized steel) with two (2) No. 1/4-14 x 1-1/4" long HWH self-driller screws per clip. The spacing of the clips must be as specified in Table 1. The fasteners must 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 must be installed as required by the manufacturer.

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