TDI | Texas Department of Insurance

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Product Evaluation

RC239 | 0919

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-239

Effective Date: September 1, 2019
Re-evaluation Date: September 2023

Product Name: SLR Steel Standing Seam Steel Roofing Panels Installed Over Steel Purlins

Manufacturer: Morin-A Kingspan Group Company
685 Middle Street
Bristol, CT 06010
(860) 584-0900

General Description:
This evaluation report is for the SLR steel standing seam metal roofing panels installed over steel purlins. The steel standing seam roofing panels have 16" of coverage. The standing seam metal roof panels have a 2" rib height and a mechanically seamed side lap. The metal roofing panels are manufactured from 24-gauge galvalume steel with a minimum yield strength of 40 ksi.

Limitations:
Roof Framing: Install the metal roofing panels over minimum 16-gauge steel purlins.

New Roof Framing Attachment: The roof framing must meet or exceed the uplift requirements of the IRC or IBC and be install as required for resistance to wind loads.

Design Wind Pressures: -52.5 psf

Roof Slope: Install the metal roofing panels on roofs with a roof slope as low as 1/2:12.

Installation Over an Existing Roof Covering: Not permitted.

Installation:
General: Install the metal roofing panels in accordance with the manufacturer's recommended installation instructions and this evaluation report.

Steel Purlins: The steel purlins must be minimum 16-gauge steel. Purlin spacing not to exceed 5' on center.

Structural Steel Deck: N/A

Underlayment: N/A

Attachment of Metal Roof Panels to the Steel Purlins: Secure the panels to the steel purlins with SLR 2-piece panel clips. The base of the clip is 1-7/8" long and 1-5/8" wide formed to fold over the lower segment of the tabs. The base is fabricated from minimum 16-gauge coated steel. There are two types of upper tabs: Type 330, 4-3/8" wide and 2-5/8" high formed to engage the lower tab. Type 330B, 4-1/4" wide and 2-3/8" high formed to engage the lower tab. Use the SLR-330 clip for 45-degree seams and use the SLR-330B clip for 90-degree and 180-degree seams. Space the clips a maximum of 60-1/4" on center. Secure the clips to the steel purlins with No. 12-14 x 1-1/4" long, self-drilling, self-tapping, hex head, stainless steel screws. Use fasteners long enough to ensure a minimum penetration of three pitches of thread below the steel. Seam the panels with the clips together with an electric seaming tool.

Panel Ends and End Laps: Secure the panel ends and endlaps to the steel purlins as the manufacturer requires.

Panel Edges: Secure the panel edges to the steel purlins as the manufacturer requires.

Trims, Closures, and Accessories: Install components, such as the eave trim, rake trim, ridge trim, hip trim, and valley trim as the manufacturer requires.

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