

Product Evaluation

RC392 | 0221

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-392

Effective Date: February 1, 2021

Re-evaluation Date: March 2024

Product Name: Minimum 24-Gauge Steel SuperLok Standing Seam Roof Panels Installed over Steel Purlins

Manufacturer: Metal Building Components, Inc. (MBCI), L.P., a division of NCI, L.P.
14031 West Hardy
Houston, TX 77060
(281) 445-8555

General Description:

The SuperLok roof panel is a mechanically seamed steel roof panel. The panels are minimum 24-gauge, 50 ksi, coated steel. The roof panels are 16" wide with a 2" rib height.

Limitations:

Roof Framing: The 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 the IBC and must be installed as required for resistance to wind loads.

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

Roof Slope: The panels must not be installed on roofs with a roof slope less than 1/2:12.

Limitations (continued):

Installation Over an Existing Roof Covering: Not permitted.

Table 1. Attachment of Minimum 24-Gauge Steel SuperLok Standing Seam Roof Panels to Steel Purlins

Design Wind Pressure	Purlins	Panel Clip	Clip Spacing	Clip Fastener
-45.6 psf	Minimum 16-gauge; 5'-0" on center	Low Floating Clip	5'-0" o.c.	SFS #12-14 x 1-1/4" HWH SD #2 screws; 2 per clip
-130.0 psf	Minimum 16-gauge; 1'-0" on center	Low Floating Clip	1'-0" o.c.	SFS #12-14 x 1-1/4" HWH SD #2 screws; 2 per clip

Installation:

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

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

Underlayment: NA.

Attachment of Roofing Panels to the Steel Purlins: The panels must be secured to the steel purlins using a MBCI 2-3/8" tall, galvanized steel, low floating clip with two (2) #12-14 x 1-1/4" HWH SD #2 by SFS. The clip spacing must be as specified in Table 1. The fasteners must be long enough to ensure a minimum penetration of 3 pitches below the steel purlin.

Panel Ends, End Laps and Edges: The panel ends, end laps and edges must be secured in accordance with the manufacturer's installation instructions.

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.