

Product Evaluation

RC24 | 0422

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-24

Effective Date: April 1, 2022

Re-evaluation Date: April 2026

Product Name: Battonlok HS Standing Seam Steel Roofing 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 Battenlok HS standing seam panels are minimum 24-gauge steel panels. The steel roofing panels have a maximum 16" of coverage. The steel roofing panels have a 2" high seam height. The steel roofing panels are Galvalume steel with a minimum yield strength of 50,000 psi.

Limitations:

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

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

Roof Slope: The minimum roof slope is 1/2:12.

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

Table 1

Attachment of steel Battenlok Standing Seam Roofing Panels to Steel Purlins

System	Design Wind Pressure	Purlins	Attachment of Panel to Steel Purlins
1	-43.75 psf	Minimum 16-gauge; 30" on center	Clips
2	-71.25 psf	Minimum 16-gauge; 30" on center	Clips

Installation:

General: The steel 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 on center spacing of the purlins must be as specified in Table 1.

Attachment of Steel Roofing Panels to the Steel Purlins: Secure the panels to the steel purlins with Battenlok UL90 Low Floating clips (HW-220). The floating clip is a two-piece assembly with a base fabricated from 16-gauge steel, 1-5/8" wide, and a top that is fabricated from 22-gauge steel, 4-1/4" wide. The clip is 2-3/8" high. The clip is secured to the steel purlins with two No. 12-14 x 1" HWH self-drilling screws manufactured by SFS. The fasteners must be long enough to ensure a minimum penetration of 3 pitches of thread below the purlins. The panels are mechanically seamed together.

Trims, Closures, and Accessories: Components, such as trims, closures, and accessories 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.