

Product Evaluation

RC482 | 0322

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-482

Effective Date: March 1, 2022

Re-evaluation Date: March 2026

Product Name: Cee-Lock Snap-Lock Aluminum Roofing Panels Installed over a Plywood Deck or a Steel Deck

Manufacturer: Berridge Manufacturing Co.
6515 Fratt Rd.
San Antonio, TX 78218
(210) 650-3050

General Description:

Cee-Lock panels are 0.032" thick aluminum 3105-H14 roofing panels with 16-1/2" of coverage, 1-1/2" tall snap lock rib, factory applied vinyl weatherseal is located in the female rib.

Limitations:

Roof Framing: The aluminum roofing panels must be installed over a minimum 15/32" plywood roof deck or minimum 22-gauge steel deck

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

Design Wind Pressure: The design pressure uplift load resistance must be specified in Table 1 and 2.

Roof Slope: The aluminum roofing panels must be installed on roofs with a roof slope as low as 1:12.

Table 1. Attachment of Minimum 0.032" Aluminum Cee-Lock Aluminum Roofing Panels to Minimum 15/32" Plywood Roof Deck

Design Wind Pressure	Panel Clip	Attachment to Plywood Deck
-63.5 psf	Cee-Clip	Two No. 12 fasteners at 20" on center
-116.0 psf	Cee-Clip	Two No. 12 fasteners at 8" on center

Table 2. Attachment of Minimum 0.032" Aluminum Cee-Lock Aluminum Roofing Panels to Minimum 22-gauge Steel Deck

Design Wind Pressure	Panel Clip	Attachment to Plywood Deck
-71.0 psf	Cee-Clip	Two No. 14 fasteners at 20" on center
-116.0 psf	Cee-Clip	Two No. 14 fasteners at 12" on center

Installation over an Existing Roof Covering: Not permitted

Installation:

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

Panels: The aluminum roofing panels must be secured to the roof framing as specified in Table 1 and 2 in accordance with this section.

Attachment of Aluminum Roofing Panels to the Roof Deck: The aluminum roofing panels must be secured to the roof framing in the following manner:

Roofing Panels to Plywood Deck: The aluminum roofing panels are secured to the deck using 24-gauge stainless steel Cee-Lock fixed clips, 3-1/2" long, 1-15/16" tall. The Cee-Lock clips are secured to the roof deck with two No. 12-11 x 1" GP Concealor by TFC. The clip spacing is as shown in Table 1.

Roofing Panels to Steel Deck:

Deck: 22-gauge B-deck. Framing spaced maximum of 5' on center.

Insulation: Two layers of 3" thick rigid insulation with polyisocyanurate foam core with fiber reinforced facers laid on top of steel deck. Minimum 20 psi compressive strength. Attached to steel deck with five No. 14 x 13 x 9" DP1 Concealor and 3" steel disc per sheet.

Roofing Panels: The aluminum roofing panels are secured to the deck using 24-gauge stainless steel Cee-Lock fixed clips, 3-1/2" long, 1-15/16" tall. The Cee-Lock clips are secured to the roof deck with the two (2) No. 14-13 x 9" DP1 Concealor by TFC. The clip spacing is as shown in Table 2.

Trims, Closures, and Accessories: Components, such as 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.