



Product Evaluation

RC458 | 0815

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-458

Effective Date: August 1, 2015

Re-evaluation Date: August 2017

Product Name: CM 200S 16" Wide 0.040" Aluminum Standing Seam Metal Roofing Panels over 19/32" Plywood Deck

Manufacturer: Carlisle Metal Products
P.O. Box 7000
Carlisle, PA 17013
(800) 479-6832

General Description:

- 0.040" Aluminum CM200S preformed standing seam metal roof panels F = minimum 20 ksi. 16" installed coverage, 180 degree lock.

Limitations:

- **Roof Slope:** The metal roofing panels may be installed on roofs with a roof slope as low as 1/4:12.
- **Installation over an Existing Roof Covering:** Installation over an existing roof covering is limited to a maximum of one existing layer of composition shingles, wood shingles or shakes, built-up roofing, or roll roofing applied over an existing, solid roof deck of minimum 19/32" plywood. Note: Inspection of the existing roof deck must be made prior to the installation of the roof panels. The condition of the existing roof deck must be acceptable to receive the metal roofing panels before the metal roofing panel installation proceeds. NOTE: Underlayment is required to be installed
- **Design Pressure:** Refer to Table 1.

Table 1**Attachment of CM 200S standing seam metal roofing panels to minimum 19/32" plywood roof deck**

Design Wind Pressure	Fastener Clips	Fastener Clip Spacing	Deck
-90 Field psf	CM 22 ga. 3" x 2-1/8" S.S.	16" o.c.	19/32" Plywood
-180 perimeter/corner psf	CM 22 ga. 3" x 2-1/8" S.S.	8" o.c.	19/32" Plywood

Installation:

- **General:** The metal roofing panels shall be installed in accordance with the manufacturer's recommended installation instructions and this evaluation report.
- **Fastener Clips:**
 - Field Installation: Install 22-gauge 3 x 2-1/8" stainless steel CM 200S fixed clip with two, # 10-13 x 1" PHW screws at 16" on center along the panel seam. The panels are mechanically locked with a 180 degree hem.
 - Perimeter/corner Installation: 22-gauge 3" x 2-1/8" stainless steel CM 200S fixed clip installed with two #10-13 x 1 in. PHW screws at 8" on center along the panel seam. A 1/4" bead of Bostik 70-50A adhesive was placed at the horizontal leg of seam prior to engaging the panels.
- **Underlayment:** ASTM D 226 Type II Underlayment installed with minimum 4" side laps and 6" end laps and fastened using 12-gauge 1-1/4" ring shank nails and 32-gauge 1-5/8" tin caps spaced 6" on center in the laps and two staggered rows 12" on center in the field.
- **Plywood Deck:** 19/32" thick APA span rated plywood installed at 24" over No. 2 lumber supports. Decking attached with 0.113" x 2-3/8" ring shank nails spaced 6" on center along the perimeter and intermediate supports.
- **Panel Edges:** As required by the manufacturer.
- **Panel Ends and End Laps:** As required by the manufacturer.
- **Trims, Closures, and Accessories:** Install components, such as the eave trim, rake trim, ridge trim, hip trim, and valley trim as required by the manufacturer.

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

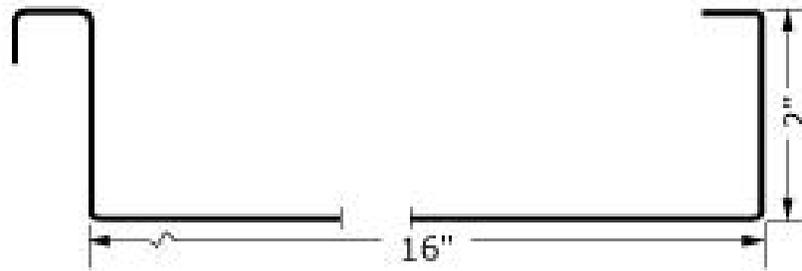


Figure 1. CM 200S Standing Seam Panel Profile

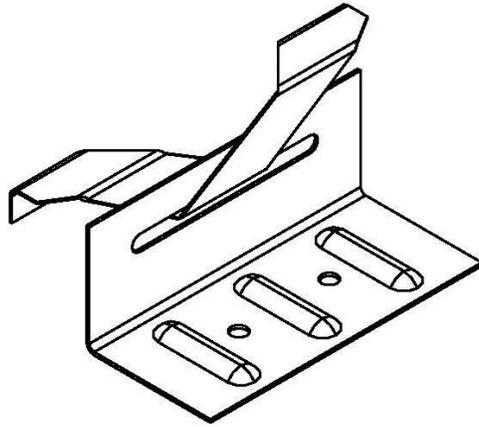


Figure 2. CM 200S Butterfly Clip