



# Product Evaluation

RC456 | 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-456

**Effective Date:** August 1, 2015

**Re-evaluation Date:** July 2019

**Product Name:** CM175S 16" Wide 24-gauge Standing Seam Metal Roofing Panels over a 19/32" Plywood Deck

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

## General Description:

- 24-gauge CM 175S pre-formed standing seam metal roof panels, F = min. 50 ksi; 16" installed coverage; 1-3/4 snap lock seam.

## Limitations:

- **Roof Slope:** Below 2:12 is to be subject to Manufacturer's Engineering Review.
- **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 175S standing seam metal roofing panels to minimum 19/32" plywood roof deck**

System	Design Wind Pressure	Fastener Clip	Fastener Clip Spacing	Deck
1	-97.5 psf	18-gauge UL 90	25" o.c.	19/32" Plywood
2	-135 psf	18gauge UL 90	8" o.c.	19/32" Plywood

**Installation:**

- **General:** Install the metal roofing panels in accordance with the manufacturer's recommended installation instructions and this evaluation report.
- **Fastener Clips:**
  - **System No. 1:** 18-gauge UL 90 clip installed with two, # 10-13 x 1 in. pan head screws at 25" on center along the panel seam.
  - **System No. 2:** 18-gauge UL 90 clip installed with two, # 10-13 x 1" pan head screws at 8" on center along the panel seam.
- **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 at each support.
- **Underlayment:** Polyglass Polystick MTS High Temperature Underlayment or Manufacturer approved alternate.
- **Panel Ends and End Laps:** As required by the manufacturer
- **Panel Edges:** 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 at the job site during the installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.