

Product Evaluation

RC231 | 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-231

Effective Date: March 1, 2022

Re-evaluation Date: March 2026

Product Name: Victorian or Classic Shingle Steel Roofing Panels installed over a Plywood Deck

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

General Description:

The Victorian and Classic shingles are a pre-finished steel panel roofing system that provides a simulated shingle appearance to the roof. Both the Victorian and the Classic shingle steel roofing system are comprised of minimum 24-gauge prepainted G-90 galvanized, prepainted 24-gauge galvalume complying with ASTM A792, AZ55, or 24-gauge satin finish galvalume complying with ASTM A792, AZ55. The shingles are 11" wide by 13-7/8" long with an effective coverage of 9" x 12". The shingles are flat with a textured surface. The shingles are available with either a Kynar 500/Hylar 500 paint finish, or galvalume (satin finish galvalume).

Limitations:

Roof Framing: The Victorian or Classic shingle steel roofing panels must be installed over a minimum 15/32" plywood roof 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 is -123.5 psf.

Roof Slope: The steel roofing panels must be installed on roofs with a roof slope as low as 3:12.

Installation over an Existing Roof Covering: Not permitted.

Installation:

General: The Victorian or Classic shingle steel roofing panels must be installed in accordance with the manufacturer's recommended installation instructions and this evaluation report.

Underlayment: Minimum 30-pound resin-bound chopped-glass-fiber substrate (Elk Versashield™) by Elk Corporation, with 2" side laps and 4" end laps, fastened to the roof deck with galvanized roofing nails and tin caps. The Elk Versashield™ underlayment must be fastened to the roof deck with fasteners spaced 12" on center in the field (one row) and 6" on center at the side laps.

Alternative Underlayment: A minimum of one layer of No. 30 (Type II) asphalt felt must be used. The underlayment used must comply with one or more of the following: ASTM D 226, ASTM D 4869, or ASTM D 1970. The felt must be installed with 2" side laps and 4" end laps. The felt must be in accordance with the manufacturer's installation instructions, the IRC, and the IBC.

Attachment of Steel Roofing Panels to the Plywood Roof Deck: The steel roofing panels must be secured to the roof framing with minimum No. 12-11 x 1" long, self-tapping screws. Two (2) fasteners are required. The fasteners are located in the lock seam of each shingle. The male end of the next shingle is then tucked in the female end of the previous shingle to form a lock. The shingles are installed in a staggered pattern.

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.