

## Product Evaluation

RC524 | 0522

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-524

**Effective Date:** May 1, 2022

**Re-evaluation Date:** May 2026

**Product Name:** Infiniti Shingle Shake Steel Roofing Installed over a Plywood Roof Deck

**Manufacturer:** Edco Products, Inc.  
8700 Excelsior Rd.  
Hopkins, MN 55343  
(800) 333-2580

### General Description:

The Infiniti shingle shakes are minimum 28-gauge G90 galvanized steel coated with PVDF fluoropolymer paint with a textured finish on the exterior. The steel conforms to ASTM A653 with a minimum yield strength of 50 ksi. The shingle shakes are 50.69" long x 12.79" wide and have a 50" x 12" exposure. The shingle shakes have a 4-way interlocking system. The panels are secured to the plywood deck with clips and fasteners. The shingle shakes are available in a variety of colors.

### Limitations:

**Roof Framing:** Install the shingle shakes over a solidly sheathed minimum 19/32" thick plywood roof deck.

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

**Roof Slope:** The shingle shakes may be installed on roofs with a roof slope as low as 4:12.

**Design Wind Pressure:** Table 1 specifies the design pressure uplift load resistance.

**Table 1**

Attachment of Infiniti Shingle Shakes to Minimum 19/32" Plywood Decks

Design Wind Pressure	Number of Clips per Panel	Shingle Clip Spacing
-104.8 psf	5	5"-10"-10"-10"-10"
-116.0 psf	6	4"-8.5"-8.5"-8.5"-8.5"-8.5"

**Installation Over an Existing Roof Covering:** Installation over an existing roof covering is limited to a maximum of one 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 covering. The condition of the existing roof deck must be acceptable to receive the roof covering before installation can begin.

**Installation:**

**General:** Install the shingle shakes in accordance with the manufacturer's recommended installation instructions and this evaluation report.

**Deck:** The roof deck must be solidly sheathed with a minimum 19/32" plywood.

**Underlayment:** Minimum of one layer of No. 30 (Type II) asphalt felt must be used. Use underlayment that complies with one or more of the following: ASTM D 226, ASTM D 4869, or ASTM D 1970. Install the underlayment with minimum 6" side laps and 3" end laps. Apply the underlayment with corrosion resistant fasteners. The fasteners are applied as required for high wind requirements in the IRC and the IBC.

**Attachment of Shingle Shakes to the Roof Deck:** Secure the shingle shakes to the roof deck along the male rib of the panel with minimum 1-1/2" long x 15/16" wide x 31/32" tall, 24-gauge G90 galvanized steel clips with one return flap that is 1/2" wide x 1-1/2" long. Each clip is secured to the roof deck with one minimum No. 10 x 1" long Type A screw. The spacing of the clips is specified in Table 1. Use fasteners long enough to ensure a minimum penetration of 1/4" below the roof deck.

**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. Use corrosion resistant fasteners as specified in the IRC and the IBC.