



# Product Evaluation

RC593 | 1018

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-593

**Effective Date:** October 1, 2018

**Re-evaluation Date:** October 2022

**Product Name:** ANOMALY Metal Shake, HURRICANE Metal Shake Stone Coated Steel Roofing Panels Installed over a Plywood Deck

**Manufacturer:** TEK Industries, LLC  
11801 Pierce Street, Suite 200  
Riverside, CA 92505  
(877) 729-5229

**General Description:**

**ANOMALY Metal Shake, HURRICANE Metal Shake:** Preformed, textured, stone coated steel. The panels have dimensions of 52-1/2" by 16-1/2" with an installed exposure of 50-3/4" x 14-1/2". The panels are 0.05" thick.

**Limitations:**

**Roof Deck:** The roof deck must be solidly sheathed with minimum 15/32" plywood.

**Roof Framing:** The roof framing members (rafters or trusses) must be spaced a maximum of 24" on center.

**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.

**Roof Slope:** The minimum roof slope is 3:12

**Design Wind Pressure:** -55.0 psf

**Installation over an Existing Roof Covering:** Installation over an existing roof covering is limited to a maximum of one existing layer of composition shingle, wood shingles, or shakes built up roofing or roll roofing applied over an existing solid roof deck of 15/32" 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.

**Installation:**

**General Installation Requirements:** Manufacturer's installation instructions must be followed, unless otherwise specified by this product evaluation. All edge, corner, and penetration flashing must be installed according to the manufacturer's installation instructions. All fasteners must be corrosion resistance as specified in the IRC, the IBC, and the Texas Revisions.

**Underlayment:** Use a minimum of one layer of No. 30 (Type II) asphalt felt. The underlayment used must comply with one or more of the following: ASTM D 226, ASTM D 4869, or ASTM D 1970. Install the underlayment with 6" side laps and 3" end laps. Apply the underlayment with corrosion-resistant fasteners in accordance with the manufacturer's installation instructions. Apply fasteners along the overlaps not farther apart than 36" on center.

**Panel Attachment to Roof Deck:** The panels are secured to the roof deck with minimum No. 10-12 x 2-1/2" HWH wood screws. Along the back flange, locate the fasteners approximately 2-1/4" from each corner and 16" on center (4 fasteners per panel). Along the front flange, locate the fasteners approximately 2-1/4" from each corner and 16" on center (4 fasteners per panel). Fasteners must be long enough to penetrate complete through the roof deck. Foam insulation should be inserted into the cavity of the panel.

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