



# Product Evaluation

RC468 | 1115

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-468

**Effective Date:** November 1, 2015

**Re-evaluation Date:** October 2019

**Product Name:** Great American Steel Shake Roof Panels Installed over a Plywood Deck

**Manufacturer:** Green American Home  
8510 Industry Park Drive  
Piqua, OH 45356  
(937) 778-5119

## General Description:

Great American steel shakes are steel roof panels designed to simulate the look of wood shakes. Great American steel shakes are constructed of 0.0142" nominal thickness G90 galvanized steel with each full panel measuring 12" wide by 24" long. This evaluation report is for installation over a plywood deck.

## Limitations:

**Roof Framing:** Install the metal roofing panels over a solidly sheathed minimum 15/32" 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:** Do not install roof panels on roofs with a roof slope less than 3:12.

**Design Pressure:** -59.9 psf

**Installation:**

**General:** Install the metal roofing panels in accordance with the manufacturer's recommended installation instructions and this evaluation report.

**Deck:** The roof deck must be solidly sheathed with minimum 15/32" 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 6" end laps. Apply the underlayment with corrosion resistant fasteners. Space the fasteners a maximum of 12" on center as required by the metal roof panel manufacturer.

**Alternative Underlayment:** Use a minimum of one layer of synthetic underlayment. The synthetic underlayment must comply with one or more of the following: ASTM D 226, ASTM D 4869, or ASTM D 1970. Install the synthetic underlayment as required by the underlayment manufacturer.

**Attachment of Metal Roof Panels to the Roof Deck:** Secure each metal panel to the roof deck with two 7-1/4" long, 2.80" wide, 0.0165" thick, galvanized steel nail clips (part 5028). The clips are evenly spaced across the top of each metal panel. Each steel clip is attached with three galvanized steel ring shank nails (0.125" shank diameter x 1-3/4" long x 3/8" diameter head). Use fasteners that are 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 on the job site during the installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.