

Product Evaluation

EC145 | 0922

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: EC-145

Effective Date: September 1, 2022

Re-evaluation Date: September 2026

Product Name: High Density Closed-Cell Polyurethane Stone and Brick Veneer Panel Siding

Manufacturer: Genstone
10639 W. Bradford
Suite 103
Littleton, CO 80127
(800) 425-0788

General Description:

GenStone faux stone and brick veneer is an exterior panel siding. The faux stone and brick veneer is manufactured from a closed-cell high density polyurethane that is waterproof. Faux stone or brick veneer form the front of the panels. The panels are a maximum of 42" long by 12" tall. The panels are nominal 1-1/4" thick. The panels are installed as exterior cladding on structures.

Limitations:

Wall Construction: Exterior wall framing and exterior wall construction must be as specified in the assemblies listed in this evaluation report.

Design Wind Pressures: The design wind pressures must be as specified in the assemblies listed in this evaluation report.

Lateral Resistance: The GenStone brick and stone veneer must not be used as wall bracing or as shearwalls. Where required by code, wood structural panel sheathing used with the GenStone veneer must be installed to resist lateral resistance.

Installation:

General Installation Requirements: The GenStone must be installed in accordance with the IRC and IBC requirements, the manufacturer's installation instructions, and this product evaluation report. Where differences between the manufacturer's installation instructions and this evaluation report occur, this evaluation report must be followed.

Assembly No. 1

Metal Wall Framing

Design Pressure: -76.7 psf

Wall Studs: Minimum 25-gauge, 3-5/8" deep steel studs, spaced a maximum of 24" on center.

Sheathing: Minimum 7/16" OSB or minimum 15/32" plywood wood structural panels. Secured to the wall framing with No. 8 x 1-5/8" long self-drilling screws spaced 8" on center around the perimeter and a maximum of 8" on center along the interior studs.

Water-Resistive Barrier: Install a water-resistive barrier over the wall sheathing in accordance with the requirements specified in the IRC and the IBC and as required by GenStone.

GenStone Cladding Panels: The panels are 42" long by 12" tall. The panels are nominal 1-1/4" thick. Secured to the wall sheathing with No. 8 self-drilling screws. Minimum 2" long screws are required at the inner face of the panels and minimum 1-5/8" long screws are required along the cladding shiplap edges. Fasteners are spaced approximately 5-3/4" on center along the bottom edge and 2-3/4" on center along the vertical edge. Fasteners are located approximately 7" from each vertical edge within the inner face of the panel

Assembly No. 2

Wood Wall Framing

Design Pressure: -53.1 psf

Wall Studs: Minimum 2x4 Douglas Fir-Larch dimension lumber, spaced a maximum of 24" on center.

Sheathing: Minimum 7/16" OSB or minimum 15/32" plywood wood structural panels. Secured to the wall framing with No. 8 x 2" long wood screws spaced 8" on center around the perimeter and a maximum of 8" on center along the interior studs.

Water-Resistive Barrier: Install a water-resistive barrier over the wall sheathing in accordance with the requirements specified in the IRC and the IBC and as required by GenStone.

GenStone Cladding Panels: The panels are 42" long by 12" tall. The panels are nominal 1-1/4" thick. Secured to the wall sheathing with No. 8 x 2" long wood screws. Fasteners are spaced approximately 5-3/4" on center along the bottom edge and 2-3/4" on center along the vertical edge. Fasteners are located approximately 7" from each vertical edge within the inner face of the panel.

Assembly No. 3
Concrete or CMU**Design Pressure:** -60.6 psf**Wall Construction:** Cast in place or precast concrete or minimum 6" x 6" x 16" CMU complying with ASTM C90, minimum 2,500 psi.**GenStone Cladding Panels:** The panels are 40" long by 12" tall. The panels are nominal 1-1/4" thick. Secured to the concrete or CMU wall with minim 1/4" x 3-1/4" concrete screw anchors. Fasteners are spaced approximately 5-3/4" on center along the bottom edge and 2-3/4" on center along the vertical edge. Fasteners are located approximately 7" from each vertical edge within the inner face of the panel.**Note:** Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.