

**GLEN-GERY LANDMARK STONE****1186 SPRING STREET****PO BOX 7001****WYOMISSING, PA 19610****(859) 235-9636**www.glengerybrick.com**MANUFACTURED STONE VENEER****CSI Sections:****04 73 00 Manufactured Stone Masonry****1.0 RECOGNITION**

Glen-Gery Landmark Stone Manufactured Stone Veneer has been evaluated for use as a wall covering in compliance with Section 1405.2 of the IBC and Section R703.12 of the 2015 IRC and R703.7 of the 2012 and 2009 IRC over exterior or interior walls of wood studs, cold-formed steel framing, concrete or concrete masonry. The veneer has been evaluated for composition, strength, durability, surface burning characteristics, thermal resistance and installation. The Glen-Gery Landmark Stone Manufactured Stone Veneer evaluated in this report complies with or is a satisfactory alternative to the following codes and regulations:

- 2015, 2012 and 2009 International Building Code® (IBC)
- 2015, 2012 and 2009 International Residential Code® (IRC)
- 2017 Florida Building Code, Building (FBC, Building) – attached Supplement
- 2017 Florida Building Code, Residential (FBC, Residential) – attached Supplement

2.0 LIMITATIONS

Use of Glen-Gery Landmark Stone Manufactured Stone Veneer recognized in this report is subject to the following limitations:

2.1 “Expansion or control joints used to limit the effect of differential movement of precast stone veneer supports must be specified by the architect, designer or veneer manufacturer, in that order. Consideration must be given to movement caused by temperature changes, shrinkage, creep and deflection.” [AC51]

2.2 “For installation in accordance with the IBC, supporting wall construction must be designed to support the weight of the veneer system. Horizontal framing members, such as lintels and headers, which support precast stone veneer, must be designed to limit deflection to $\frac{1}{600}$ of the span.” [AC51]

2.3 “In jurisdictions adopting the IRC, where the seismic provisions of Section R301.2.2 apply, the average weight of the wall supporting the precast stone veneer, including the weight of the veneer system, must be determined. When this weight exceeds the applicable limits of IRC Section 301.2.2.2.1, an engineered design of the wall construction must be performed in accordance with IRC Section R301.1.3.” [AC51]

2.4 “When installed on exterior stud walls, the veneer units shall be installed a minimum of 4 inches (102 mm) above the earth, or a minimum of 2 inches (51 mm) above paved areas, or a minimum of $\frac{1}{2}$ inch (12 mm) above exterior walking surfaces that are supported by the same foundation that supports the exterior wall” in accordance with 2012 IBC Section 1405.10.1.3 or 2012 IRC Section R703.12.1.

2.5 Glen-Gery’s Landmark Stone recognized in this report are produced in Cynthiana, Kentucky with a quality control program with periodic inspections under the supervision of IAPMO UES.

3.0 PRODUCT USE

3.1 The backing for Glen-Gery’s “adhered veneer shall be of concrete, masonry, steel framing or wood framing.” [Section 1404.4 of the IBC]. The veneer units shall be adhered to cement plaster, concrete or concrete masonry backings when installed in accordance with the manufacturer’s installation instructions, this report and the applicable code. Lath, lath accessories and fasteners shall be corrosion-resistant, as applicable. The manufacturer’s installation instructions shall be strictly adhered to and be available at the jobsite during application.

3.2 Glen-Gery’s Landmark Stone Manufactured Stone Veneer shall be installed in accordance with Section 1405.10.1 of the IBC, Section R703.12 of the IRC, as applicable, ASTM C1780 and the report holder’s published installation instructions, whichever is more restrictive.

3.3 Glen-Gery’s Landmark Stone Manufactured Stone Veneer units may be applied over the assemblies described in Table 1 of this report when installed in accordance with the referenced code sections and this report.

4.0 PRODUCT DESCRIPTION

4.1 Glen-Gery’s Landmark Stone Manufactured Stone Veneer are manufactured concrete products formed to resemble natural stone in both texture and color. The individual masonry veneer units shall be a minimum of 1 inch (25.4 mm) thick and a maximum of $2\frac{5}{8}$ inches (67 mm) thick with an average minimum compressive strength of 1,800 psi (12.4 MPa).



The installed products “average saturated weight must not exceed 15 pounds per square foot (73 kg/m²)” [AC51]. The recognized veneer styles are shown in Table 2 of this report.

Table 2 – Recognized Veneer Style Names

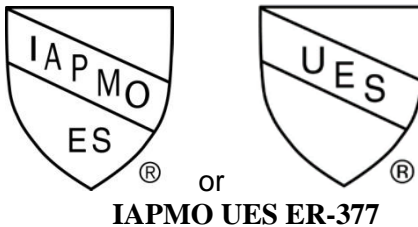
Ashler, Cut Cobble, Field Ledge, Fieldstone, Glen Ridge, Ledge stone, Limestone, River Rock, Stackstone

4.2 The veneer has a Class A finish rating in accordance with Section 803.1.1 of the IBC and has a flame spread index and smoke-developed index that conforms to Section R302.9 of the IRC when tested in accordance with ASTM E84.

4.3 The veneer, at an average thickness of 1.07 inches (27.2 mm), has an average thermal resistance (R-value) of 0.92 hr.ft²°F/Btu (0.162 K·m²/W) when tested in accordance with ASTM C518.

5.0 IDENTIFICATION

Boxes of Glen-Gery Landmark Stone Manufactured Stone Veneer are identified with the manufacturer’s name, the pattern/style name, manufacturing date, manufacturing location, and evaluation report number (ER-377). Either Mark of Conformity may be used as shown below:



6.0 SUBSTANTIATING DATA

6.1 Data in accordance with the ICC-ES Acceptance Criteria for Precast Stone Veneer (AC51), dated January 2016. Test results are from laboratories in compliance with ISO/IEC 17025.

6.2 Manufacturer’s descriptive literature and installation instructions.

6.3 Reports of Thermal Transmission Properties testing in accordance with ASTM C518.

6.4 Reports of Surface Burning Characteristics testing in accordance with ASTM E84.

7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research carried out by IAPMO Uniform Evaluation Service on Glen-Gery Landmark Stone Manufactured Stone Veneer to assess its conformance to the codes and standards shown in Section 1.0 of this report and documents the product’s certification. The manufacture stone veneer is produced at the location noted in Section 2.5 of this report under a quality control program with periodic inspection under the supervision of IAPMO UES.

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For additional information about this evaluation report please visit www.uniform-es.org or email at info@uniform-es.org



Table 1 – Application of Masonry Veneer Units

Item	Code Section	Notes
1. Cement Plaster	IBC Sections 1404.2 and 2510.6; IRC Sections R703.2 and 703.6.3	½-inch to ¾-inch scratch coat of Type S or N mortar complying with ASTM C270, scored horizontally in accordance with IBC Section 2512.6.
2. Water Resistant Barrier	IBC Section 1405.10.1.1; IRC Section R703.2 and R703.12.3	
3. Flashing	IBC Section 1405.4 and Section 1405.10.1.2; IRC Section 703.4 (2012 and 2009 IRC Sections R703.8) and R703.12.2	
4. Weep Screed	IBC Section 1405.10.1.2; IRC Section R703.12.1 (2009 IRC Section R703.6.2.1); and TMS 402-13 (TMS 402-11 for 2012 IBC) Section 6.1.6.2 (ACI 530 Section 6.1.5.2)	
5. Lath and Fasteners	IBC Section 2510.3 (ASTM C926 and ASTM C1063); IRC Section R703.7.1 (2012 and 2009 IRC Section R703.6.1)	Fasteners in wood studs shall be galvanized nails with minimum shank and head diameters of 0.120 inch and 0.4375 inch, respectively. Fasteners in steel studs shall be No. 12 or larger, corrosion-resistant, pancake head or pan-head. For proprietary fasteners shear and pull out capacities shall be justified to the satisfaction of the authority having jurisdiction (AHJ).
6. Over Wood Based or Gypsum Sheathing Supported by Steel or Wood Framing	See Items 1, 2, 3, 4 and 5 and Notes	Items 1, 2, 3, 4 and 5 with framing spaced at 16 inches on-center maximum, lath shall be 2.5 lb/yd ² self-furring diamond metal lath; or 18 gauge galvanized woven wire mesh complying with ASTM C847; fastened in accordance with the requirements of ASTM C1063, Section 7.10.2, and Section R703.6.1 of the IRC with fasteners spaced a maximum of 6 inches on-center.
7. Over concrete or concrete masonry	Prepare surfaces in accordance with IBC Section 2510.7 and Section 5.2 of ASTM C926.	Items 1, 3, 4, 5 and 6 except with metal lath complying ASTM C847; or 1.4 lb/yd ² woven wire plaster base complying with ASTM C1032. The veneer may also be adhered to backings of clean concrete masonry without lath, in accordance with Section 2510.7 of the IBC and Section 5.2 of the ASTM C926.
8. Application of Veneer Units	IBC Section 2103.2.1 (2012 IBC Section 2103.9 and 2009 IBC Section 2103.8)	Nominal ½-inch thick setting bed of Type S or N mortar applied to the back of the veneer units in accordance with Glen-Gery's installation instructions.

SI

conversions: 1 inch = 25.4 mm, 1 lb/yd² = 0.54 kg/m²



FLORIDA SUPPLEMENT

GLEN-GERY LANDMARK STONE

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MANUFACTURED STONE VENEER

CSI Sections:

04 73 00 Manufactured Stone Masonry

1.0 RECOGNITION

Glen-Gery Landmark Stone Manufactured Stone Veneer evaluated in IAPMO UES ER-377 is a satisfactory alternative to the following codes and regulations:

- 2017 Florida Building Code, Building (FBC, Building)
- 2017 Florida Building Code, Residential (FBC, Residential)

2.0 LIMITATIONS

2.1 Flashing shall be installed “in such a manner as to prevent the accumulation of water within the wall assembly” in accordance with Section 1403.2 of the FBC, Building.

2.2 “In order to provide for inspection for termite infestation, clearance between exterior wall coverings and final earth grade on the exterior of a building shall not be less than 6 inches (152 mm)”, in accordance with Section 1403.7 of the FBC, Building or Section R318.7 of the FBC, Residential, as applicable.

2.3 Evaluation to the high-velocity hurricane zone provisions in Section 2101 of the FBC, Building and Chapter 44 of the FBC, Residential is outside the scope of this report.

2.4 Verification shall be provided that a quality assurance agency audits the manufacturers quality assurance program and audits the production quality of products, in accordance with Section (5)(d) of Florida Rule 61G20-3.008. The quality assurance agency shall be approved by the Commission (or the building official when the report holder does not possess an approval by the Commission).

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