EVALUATION REPORT Number: 353

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Manufactured Stone and Stone Panels | Native Custom Stone

MANUFACTURED STONE VENEER

CSI Section:
04 73 00 Manufactured Stone Masonry

1.0 RECOGNITION

Native Custom Stone Manufactured Stone Veneer described in this report was evaluated for use as an exterior wall covering. The strength and durability properties of the manufactured stone veneer were evaluated for compliance with the following codes:

- 2012, 2009, and 2006 International Building Code® (IBC)
- 2012, 2009, and 2006 International Residential Code® (IRC)

2.0 LIMITATIONS

Use of Native Custom 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 $^{1}/_{600}$ 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 ½ 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 Native Custom Stone Manufactured Stone Veneer recognized in this report is manufactured in Dawsonville, Georgia.

3.0 PRODUCT USE

3.1 The backing for Native Custom Stone'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 Installations with Native Custom Stone's Manufactured Stone Veneer shall be in compliance with Section 1405 of the IBC or Section R703 of the IRC over exterior walls of wood studs, cold-formed steel framing, concrete, or concrete masonry.

3.3 Native Custom Stone's Manufactured Stone Veneer shall be installed in accordance with Section 1405.10 of the IBC or Section R703.12 of the IRC, as applicable, ASTM C1780, and the report holder's published installation instructions.

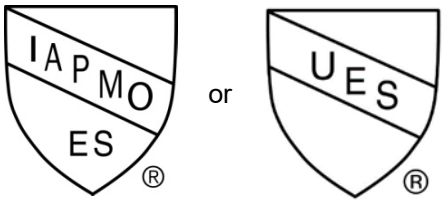
3.4 Native Custom Stone Manufactured Stone Veneer units may be applied over the assemblies described in Table 1 of this report when installed in accordance with the referenced code sections and this report.

4.0 PRODUCT DESCRIPTION

4.1 Native Custom Stone's Manufactured Stone Veneer is a manufactured concrete product formed to resemble natural stone in both texture and color. The veneer has been evaluated for composition, strength, durability, and installation properties. The individual masonry veneer units are 0.75 inches (19.1 mm) to 1.85 inches (46.9 mm) thick and have an average minimum compressive strength of 1,800 psi (12.4 MPa). The installed product's average saturated weight does not exceed 15 pounds per square foot (73 kg/m^2) when used in accordance with Section 3.0 of this report. The recognized veneer styles are shown in Table 2 of this report.

5.0 IDENTIFICATION

Boxes of Native Custom Stone Manufactured Stone Veneer are identified with the manufacturer's name (Native Custom Stone LLC), the pattern/style name, manufacturing date, manufacturing location, and evaluation report number (ER-353). Either IAPMO UES Mark of Conformity may also be used as shown below:



IAPMO UES ER-353

6.0 SUBSTANTIATING DATA

6.1 Data in accordance with the ICC-ES Acceptance Criteria for Precast Stone Veneer (AC51), dated February 2008 (editorially revised April 2012).

6.2 Manufacturer's descriptive literature and installation instructions.

6.3 Test reports are from laboratories in compliance with ISO/IEC 17025.

7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research completed by IAPMO Uniform Evaluation Service on Native Custom Stone, LLC Manufactured Stone Veneer to assess its conformance to the codes shown in Section 1.0 of this report and documents the product's certification. The Manufactured Stone Veneer is manufactured at the location noted in Section 2.5 of this report under a quality assurance program with periodic inspection under the supervision of IAPMO UES.

For additional information about this evaluation report please visit www.uniform-es.org or email us 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 scratch coat of Type S mortar complying with ASTM C270, scored horizontally in accordance with IBC Section 2512.6.
2. Water Resistive Barrier	IBC Section 1405.10.1.1; IRC Section R703.2	–
3. Flashing	IBC Section 1405.4 (2006 IBC Section 1405.3) and Section 1405.10.1.2; IRC Sections R703.8 and R703.12.2 (2006 IRC Section R703.8)	–
4. Weep Screed	IBC Section 1405.10.1.2; IRC Section R703.12.1 (2009 IRC Section R703.6.2.1); and TMS 402-11 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 R703.6.1	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 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. Open Studs	See **Items 1, 2, 3, 4, 5,** and **6** and **Notes**	**Items 1, 2, 3, 4, 5,** and **6** except with 3.4 lb/yd^2, 3/8-inch rib lath complying with ASTM C847.
8. 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 with ASTM C847; or 2.5 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 ASTM C926.
9. Application of Veneer Units	IBC Section 2103.9 (2006 IBC Section 2103.8)	Nominal ½-inch-thick setting bed of Type S mortar applied to the back of the veneer units in accordance with Native Custom Stone's installation instructions.

SI Conversions: 1 inch = 25.4 mm, 1 lb/yd^2 = 0.54 kg/m^2

TABLE 2 – Recognized Veneer Style Names

Castle Rock	Field Stone	River Rock	Stack Stone
Country Villa	Ledge Stone	Rubble Stone	