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CASA DI SASSI PRECAST STONE VENEER

CSI Section:

04 73 00 Manufactured Stone Masonry

1.0 RECOGNITION

Casa Di Sassi Precast Stone Veneer has been evaluated for use as a wall covering in compliance with Section 1405.2 of the IBC and Section R703.7 of the IRC over exterior or interior walls of wood studs, cold-formed steel framing, or concrete masonry. The stone veneer has been evaluated for composition, strength, durability, and installation. The Casa Di Sassi Precast Stone Veneer evaluated in this report complies with or is a satisfactory alternative veneer for use with the following codes and regulations:

- 2015, 2012, 2009, and 2006 International Building Code® (IBC)
- 2015, 2012, 2009, and 2006 International Residential Code® (IRC)

2.0 LIMITATIONS

Use of Casa Di Sassi Precast 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 which are supported by the same foundation that supports the exterior wall” in accordance with 2015 and 2012 IBC Section 1405.10.1.3 or 2015 and 2012 IRC Section R703.12.1, as applicable.

3.0 PRODUCT USE

3.1 The backing for Casa Di Sassi’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. 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 Casa Di Sassi Precast Stone Veneer shall be installed in accordance with Section 1405.10.1 of the IBC or Section R703.12 of the IRC, as applicable, ASTM C1780, and the report holder’s published installation instructions. Where there is a conflict, the more restrictive shall govern.

3.3 Casa Di Sassi Precast 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 Casa Di Sassi Precast Stone Veneer units are manufactured concrete products formed to resemble natural stone or brick in both texture and color. The individual masonry veneer units shall be a minimum of 0.75 inch (19.1 mm) thick and a maximum of 1.85 inch (47 mm) thick. Individual veneer units shall not be greater than 36 inches (914 mm) in length or height with a maximum surface area of 720 square inches (0.46 m²). The average minimum compressive strength shall be 1,800 psi (12.4 MPa). The installed products’ average saturated weight do not exceed 15 pounds per square foot (73 kg/m²). The recognized veneer styles are listed in Table 2 of this report.

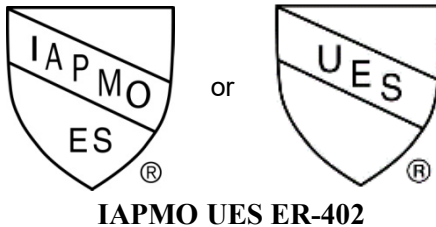
TABLE 2 – Recognized Veneer Style Names

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|---|
| Ledgestone, Old World, Fieldstone, Blend, Limestone, Barnstone, Granite, Brick, EZ Ledge, Tuscanny Veneer, Country Rubble, Kwik Stack and Volterra. |
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5.0 IDENTIFICATION

Boxes of Casa Di Sassi Precast Stone Veneer are identified with the manufacturer's name, the pattern/style name, manufacturing date, manufacturing location, and evaluation report number (ER-402). Either IAPMO UES Mark of Conformity may also be used as shown below:



7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research completed by IAPMO Uniform Evaluation Service on Casa Di Sassi Precast 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.

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

6.0 SUBSTANTIATING DATA

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

6.2 Manufacturer's descriptive literature and installation instructions.

6.3 Reports of testing include: ASTM C567, ASTM C39, ASTM C190, ASTM C348, ASTM C67, ASTM C109, ASTM C482, and moisture absorption, density, and weight tests.



TABLE 1 – Application of Masonry Veneer Units

| Item | Code Section | Notes |
|---|---|---|
| 1. Cement Plaster | IBC Section 1405.10.1 or 2015 IRC Section R703.7.2 (2012, 2009, and 2006 IRC Section R703.6.2) | Nominally $\frac{3}{8}$ -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 or 2015 IRC Section R703.7.3 (2012, 2009, and 2006 IRC Section R703.6.3) | |
| 3. Flashing | IBC Section 1405.4 (2006 IBC Section 1405.3) and Section 1405.10.1.2 or 2015 IRC Section R703.4 (2012, 2009, and 2006 IRC Section R703.8) and IRC Section R703.12.2 | |
| 4. Weep Screed | IBC Section 1405.10.1.2 or IRC Section R703.12.1 (2009 IRC Section R703.6.2.1); and TMS 402-13 Section 12.1.6.2 (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) or 2015 IRC Section R703.7.1 (2012, 2009, and 2006 IRC Section R703.6.1) | For proprietary fasteners, shear and pull-out capacities shall be justified to the satisfaction of the building official or authority having jurisdiction (AHJ). |
| 6. Over Wood Based or Gypsum Sheathing Supported by Steel or Wood Framing | Same as 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 metal lath complying with ASTM C847 and fastened in accordance with the requirements of Section 7.10.2 of ASTM C1063, and Section R703.6.1 of the IRC with fasteners spaced a maximum of 6 inches on-center. |
| 7. Over Concrete or Concrete Masonry | Surfaces shall be prepared 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. 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. |
| 8. Mortar Application of Veneer Units | 2015 IBC Section 2103.2.4 (2012 and 2009 IBC Section 2103.9 (2006 IBC Section 2103.8)) | Nominally $\frac{3}{8}$ -inch-thick brown (second) coat of Type S mortar complying with ASTM C270 applied over the scratch coat, and a thin layer of the mortar applied to the back of the veneer units in accordance with Casa Di Sassi's installation instructions. |

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