Eldorado Stone, LLC  
P. O. Box 489  
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Attn: Artie Sandoval  
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RESEARCH REPORT: RR 25589  
(CSI 04720)

BASED UPON ICC EVALUATION SERVICE  
LEGACY REPORT NO. NER-602

REEVALUATION DUE DATE:  
November 1, 2008

GENERAL APPROVAL - Revision- Eldorado Stone ® Precast Concrete Stone Veneer.

DETAILS

The above assemblies and/or products are approved when in compliance with the description, use, identification and findings of Legacy Report No. NER-602 dated March 1, 2003, of the ICC Evaluation Service, Incorporated. The report, in its entirety, is attached and made part of this general approval.

The parts of Legacy Report No. NER-602 which are excluded on the attached copy have been removed by the Los Angeles Building Department as not being included in this approval.

DISCUSSION

The revision is to correct name of contact person.

This general approval of an equivalent alternate to the Code is only valid where an engineer and/or inspector of this Department has determined that all conditions of this approval have been met in the project in which it is to be used.

Addressee to whom this Research Report is issued is responsible for providing copies of it, complete with any attachments indicated, to architects, engineers and builders using items approved herein in design or construction which must be approved by Department of Building and Safety Engineers and Inspectors.

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Eldorado Stone, LLC.
RE: Eldorado Stone® Precast Concrete Stone Veneer

This general approval will remain effective provided the Evaluation Report is maintained valid and unrevised with the issuing organization. Any revision to the report must be submitted to this Department, with appropriate fee, for review in order to continue the approval of the revised report.

The status of the referenced Legacy Report No. NER-602 dated March 1, 2003 which is currently beyond its reexamination date is still valid. The validity of the evaluation report was verified with ICC.

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Attachments: ICC Legacy Report No. NER-602 (3 pages)
DIVISION 04 – MASONRY

Section 04730 – Simulated Stone

REPORT HOLDER:

ELDORADO STONE OPERATIONS L.L.C.
POST OFFICE BOX 489
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EVALUATION SUBJECT:

ELDORADO STONE® MANUFACTURED BUILDING STONE

ICC-ES legacy reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, Inc., express or implied, as to any finding or other matter in this report, or as to any product covered by the report.
1.0 SUBJECT
Eldorado Stone® precast concrete stone veneer

2.0 PROPERTY FOR WHICH EVALUATION IS SOUGHT
2.1 Interior finish and trim classification
2.2 Adhered exterior veneer

3.0 DESCRIPTION
Eldorado Stone is a manufactured, precast, artificial stone product that is similar in color and texture to natural stone. The products are produced from a lightweight concrete mix consisting of Portland cement (ASTM C150, Type I or III), lightweight aggregates (ASTM C330 or ASTM C332), sand (ASTM C144), air entrainment and mineral oxide colors (ASTM C979). The stones are pre-cast in various sizes, shapes and surface textures. The stones vary in size from 8 to 396 in² (0.006 to 0.255 m²), with no side exceeding 36 in. (914 mm) in length. The stones have an average thickness of 1 3/4 in. (44 mm) and a nominal oven dry weight of 75 lb/ft³ (1203 kg/m³).

The stones are used as a non-loadbearing exterior veneer or interior finish and trim. The stones are installed on concrete or masonry walls, stud-framed walls, or metal buildings. The stone products have a Class I (Class A) interior finish rating when tested in accordance with ASTM E84.

4.0 INSTALLATION
4.1 General: The stone shall be installed in accordance with the manufacturer’s installation instructions, titled Eldorado Stone Installation Procedures, dated January 2002, subject to the limitations of this report.

4.2 Application to Sheathed Wood Frame Construction: Exterior wall surfaces shall be covered with a minimum of one layer of a water-resistive barrier complying with the requirements of the applicable code. Galvanized expanded diamond mesh metal lath complying with ASTM C847, with a minimum weight of 2.5 lb/yd² (1.4 kg/m²), shall be attached to studs spaced 16 in. (406 mm) on center with galvanized roofing nails. The nails shall be spaced 6 in. (152 mm) on center vertically and shall have sufficient length to penetrate into the studs a minimum of 1 in. (25 mm). A minimum 1/2 in. (12.7 mm) thick scratch coat of Type S or Type N Portland cement mortar complying with ASTM C270 shall be applied to the metal lath and shall cure for a minimum of 48 hours. The stones shall be adhered to the cured scratch coat with a nominal 1/2 in. (12.7 mm) thick bed of Type S or Type N mortar. Joints between the stones shall be grouted.

4.3 Application to Open Wood Frame Construction: Open stud framing shall be spaced a maximum of 16 in. (406 mm) on center. The studs shall be covered with a minimum of one layer of a water-resistive barrier complying with the requirements of the applicable code. Galvanized expanded 3/8 in. (9.5 mm) rib metal lath complying with ASTM C847, with a minimum weight of 3.4 lb/yd² (1.8 kg/m²), shall be attached to studs spaced 16 in. (406 mm) on center with galvanized roofing nails. The nails shall be spaced 6 in. (152 mm) on center vertically and shall have sufficient length to penetrate into the studs a minimum of 1 in. (25 mm). A nominal 1/2 in. (12.7 mm) thick scratch coat of Type S or Type N Portland cement mortar complying with ASTM C270 shall be applied to the metal lath and shall cure for a minimum of 48 hours. The stones shall be adhered to the cured scratch coat with a nominal 1/2 in. (12.7 mm) thick bed of Type S or Type N mortar. Joints between the stones shall be grouted.

4.4 Application to Concrete and Masonry Construction: The stones are permitted to be adhered directly to the clean, unpainted concrete or masonry substrates with a nominal 1/2 to 3/4 in. (12.7 to 19.1 mm) thick bed of Type S or Type N mortar. Joints between the stones shall be grouted.

4.5 Application to Metal Building Panels: Installation shall be as described in Section 4.2 of this report, with the exception that the lath shall be attached with corrosion-resistant self-drilling, self-tapping screws having a minimum 1/2 in. (12.7 mm) length with a 3/8 in. (9.5 mm) diameter head. The scratch coat thickness shall be a minimum of 1/2 in. (12.7 mm). The metal panels shall be a minimum of No. 18 gauge galvanized steel with a minimum base metal thickness of 0.0478 in. (1.21 mm).
5.0 IDENTIFICATION

Each carton of Eldorado Stone pieces shall bear a label identifying the product name, manufacturer's name and identifying logo, and the evaluation report number (NER-602).

6.0 EVIDENCE SUBMITTED

6.1 Manufacturer's descriptive literature and published installation instructions.


6.4 Report on freeze-thaw testing in accordance with ASTM C67, prepared by AGRA Earth & Environmental, Inc., Project No. 119344.

6.5 Report on compressive strength testing, prepared by AGRA Earth & Environmental, Inc., Project No. 9-91M-12782-0, dated April 16, 1999.


7.0 CONDITIONS OF USE


7.1 The precast stone veneer shall be installed in accordance with the manufacturer's installation instructions, subject to the conditions of this report.

7.2 The precast stone veneer shall be limited to 30 ft (9144 mm) in height above the noncombustible foundation when used as an exterior veneer attached to wood-framed construction.

7.3 Each precast stone unit shall not exceed 36 in. (914 mm) in the largest dimension, shall not exceed 720 in² (0.46 m²) in area, and shall not weigh more than 15 lb/ft² (73.2 kg/m²).

7.4 All exterior wall substrates shall be covered with a minimum of one layer of a water-resistive barrier complying with the requirements of the applicable code, except where the substrate is of concrete or masonry construction.

7.5 To maintain the weather-resistance of the exterior wall on which the stone products are installed, rigid, corrosion-resistant flashing and a means of drainage shall be installed at all penetrations and terminations of the stone cladding. Flashing type and locations shall be in accordance with the requirements of the applicable code.

7.6 The use of the stone veneer as a component of a fire resistance rated assembly is outside the scope of this report.

7.7 This report is subject to periodic re-examination. For information on the current status of this report, contact the ICC-ES.