



CORONADO STONE PRODUCTS

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CORONADO STONE

CSI Sections:

Section: 04 71 00—Manufactured Brick Masonry

Section: 04 73 00—Manufactured Stone Masonry

1.0 RECOGNITION

Coronado Stone Products' Coronado Stone manufactured stone and brick veneer has been evaluated for use as an adhered, non-load-bearing exterior veneer or an interior wall covering in compliance with Section 1404.2 of the 2021 and 2018 IBC (Section 1405.2 of the 2015 and 2012 IBC) and 2021, 2018 and 2015 IRC Section R703.12 (Section R703.7 of the 2012 IRC) over exterior or interior walls of wood studs, cold-formed steel framing, or concrete masonry. The composition, strength, durability, surface burning characteristics and thermal resistance of Coronado Stone complies with the intent of the provisions of the following codes and regulations:

- 2021, 2018, 2015, and 2012 International Building Code® (IBC)
- 2021, 2018, 2015, and 2012 International Residential Code® (IRC)

2.0 LIMITATIONS

Use of the Coronado Stone Products' Coronado Stone manufactured stone and brick 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 (adhered manufactured stone masonry 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 (adhered manufactured stone masonry 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 (adhered manufactured stone masonry veneer), including the weight of the veneer system, must be determined. When this weight exceeds the applicable

limits of IRC Section R301.2.2.2, 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 framed walls, "the veneer must be installed with the clearances required by 2021 and 2018 IBC Section 1404.10.1.3 (2015 IBC Section 1405.10.1.3) or 2018 and 2015 IRC Section R703.12.1, as applicable." [AC51]

2.5 When applied to a concrete wall or concrete masonry unit wall, the allowable wind load for the adhered veneer is limited to the allowable wind load for which the wall is designed. Allowable wind load for the adhered veneer applied to wood stud or cold-formed steel framing walls is outside the scope of this report.

2.6 The Coronado Stone Products' manufactured stone and brick veneer shall be installed in accordance with the applicable code, the manufacturer's published installation instructions, and this report. Where there is a conflict, the most restrictive requirements shall govern.

2.7 Coronado Stone manufactured stone and brick veneer recognized in this report is produced by Coronado Stone Products in Fontana, CA; Perris, CA; and Carrollton, Texas.

3.0 PRODUCT INSTALLATION

3.1 The backing for Coronado Stone Products Coronado Stone shall be of concrete, masonry, steel framing, or wood framing [Section 1403.4 of the 2021 and 2018 IBC (Section 1404.4 of the 2015 and 2012 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.

3.2 The Coronado Stone and brick veneer shall be installed in accordance with Section 1404.10.1 of the 2021 and 2018 IBC and Section 1405.10.1 of the 2015 and 2012 IBC, or Section R703.12 of the IRC, as applicable, ASTM C1780, this Evaluation Report, and the report holder's published installation instructions. The installation instructions shall be available at the jobsite during veneer application.

3.3 The Coronado Stone and brick 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.

3.4 Coronado Stone manufactured stone and brick veneer is recognized for use as interior finish. The veneer units have a Class A rating in accordance with Section 803.1.2 of the 2018 IBC and Section 803.1.1 of the 2015 and 2012 IBC. The veneer 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.

The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with IBC Section 104.11. This document shall only be reproduced in its entirety.

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4.0 PRODUCT DESCRIPTION

4.1 Coronado Stone Products' Coronado Stone manufactured stone and brick veneer is a manufactured concrete product formed to resemble natural stone or brick in both texture and color.

4.2 The individual masonry veneer units are a minimum of $\frac{5}{8}$ inches (15.9 mm) thick and a maximum of $2\frac{5}{8}$ inches (66.7 mm) thick and have an average minimum compressive strength of 2,100 psi (15 MPa). The installed product's average saturated weight does not exceed 15 pounds per square foot (73 kg/m^2). The recognized veneer styles are shown in Table 2 of this report.

4.3 The veneer, at an average thickness of 1.16 inches (29.55 mm), has an average thermal resistance (R-value) of $0.419 \text{ hr}\cdot\text{ft}^2\cdot\text{F}/\text{Btu}$, which is equivalent to an R-value of $0.360 \text{ hr}\cdot\text{ft}^2\cdot\text{F}/\text{Btu}$ per inch, when tested in accordance with ASTM C518.

5.0 IDENTIFICATION

Boxes of Coronado Stone are identified by the Coronado Stone Products' name and trademark, address, product name, and evaluation report number (ER-799). The IAPMO Uniform Evaluation Service Mark of Conformity may also be used as shown below:



IAPMO UES ER-799

6.0 SUBSTANTIATING DATA

6.1 Data in accordance with ASTM C1670 and the Acceptance Criteria for Adhered Manufactured Stone Masonry Veneer (ICC-ES AC51), approved June 2018 (Editorially revised January 2021).

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.

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

7.0 REFERENCE CODE SECTIONS

The following code references apply to the 2021 IBC and 2021 IRC. References to other editions of the codes, where different, are included in parentheses. The code references apply to the recognition provided in this report but may not include every code section related to the use of the product.

7.1 International Building Code®:

- Section 104.11 - Alternative materials, design and methods of construction and equipment.
- Section 202 – DEFINITIONS. (Adhered Masonry Veneer.)
- Section 803.1.2 – Interior wall and ceiling finish materials tested in accordance with ASTM E84 or UL 723.
(2015 and 2012 IBC Section 803.1.1 – Interior wall and ceiling finish materials.)
- Section 1403.4 – Masonry.
(2015 and 2012 IBC Section 1404.4 – Masonry.)
- Section 1404.10 – Adhered masonry veneer.
(2015 and 2012 IBC Section 1405.10.)

7.2 International Residential Code®:

- Section R104.11-Alternative materials, design and methods of construction and equipment.
- Section R202 – DEFINITIONS. (Adhered Stone or Masonry Veneer.)
- Section R302.9 – Flame spread index and smoke-developed index for wall and ceiling finishes.
- Section R703.3 – Wall covering nominal thickness and attachments
(2012 IRC Section R703.4 – Attachments.)
- Section R703.12 – Adhered masonry veneer installation.
- Section N1101.6 – Defined terms. (R-Value)
(2012 IRC Section N1101.9 – Defined terms. (R-Value))
- Section N1101.10.4 – Insulation product rating.
(2012 IRC Section N1101.12.4 – Insulation product rating.)

8.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research completed by IAPMO Uniform Evaluation Service on Coronado Stone Products' Coronado Stone to assess conformance to the codes shown in Section 1.0 of this report and serves as documentation of the product certification. Products are manufactured at locations noted in Section 2.7 of this report under a quality control 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	2021 and 2018 IBC Section 1404.10 (2015 and 2012 IBC Section 1405.10.1); 2021, 2018, and 2015 IRC Section R703.7.2 (2012 IRC Section 703.6.2)	½-inch (12.7 mm) thick scratch coat of Type S mortar complying with ASTM C270, scored horizontally in accordance with IBC Section 2512.6.
2. Water Resistive Barrier	2021 and 2018 IBC Section 1404.10.1.1 (2015 and 2012 IBC Section 1405.10.1.1); 2021, 2018, and 2015 IRC Section R703.7.3 (2012 IRC Section R703.6.3)	–
3. Flashing	2018 IBC Section 1404.4 (2015 and 2012 IBC Section 1405.4) and Section 1405.10.1.2; 2021, 2018, and 2015 IRC Section R703.4 (2012 IRC Sections R703.8) and R703.12.2	–
4. Weep Screed	2021 and 2018 IBC Section 1404.10.1.2 (2015 and 2012 IBC Section 1405.10.1.2); 2021 IRC Section R703.12.2 (2018, 2015, and 2012 IRC Section R703.12.1); and TMS 402-16 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); 2021, 2018, and 2015 IRC Section R703.7.1 (2012 IRC Section R703.6.1)	For proprietary fasteners, shear and pull-out, capacities shall be justified to the satisfaction of the building official.
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 R703.7.1 of the 2018 and 2015 IRC (Section R703.6.1 of the 2012 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 , ⅜” rib lath complying with ASTM C847.
8. Over Concrete or Concrete Masonry	Surfaces shall be prepared in accordance with IBC Section 2510.7 and Section 5.2 of ASTM C926. See Items 1, 3, 4, 5, and 6 and Notes	Items 1, 3, 4, 5, and 6 except with metal lath complying with 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.
9. Application of Veneer Units	2021, 2018, and 2015 IBC Section 2103.2 (2012 IBC Section 2103.9)	Nominal ½-inch thick setting bed of Type S or poly- modified mortar applied to the back of the veneer units in accordance with Coronado Stone’s installation instructions.

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

TABLE 2 - Recognized Veneer Style Names

<p>3” Split Limestone, 8” Classic Jerusalem, Adobe Brick, Aegean Coral, Appalachian Fieldstone, Belgian Brick, Belgian Castle, Canyon Cobble, Canyon Ledge, Caribbean Coral, Carolina Rubble, Chiseled Limestone, Clinker Brick, Colosseum Travertine, Coronado Honey Ledge, Coronado Strip Stone, Country Castle, Country Rubble, Creek Rock, Desert Ridge, Eastern Mountain Ledge, English Rubble, Euro Villa, Feathered Stone, French Country Villa, French Limestone, The Getty Stone, Idaho Drystack, Italian Villa, Lennox Stone, Minnesota Fieldstone, Montana Ledge, Mountain Strip Stone, Mountain Villa, Old Country Ledge, Old World Ledge, Osage, Pavilion Stone, Playa Vista Limestone, Princeton Granite, Pro-Ledge, Quick Stack, River Rock, Rocky Mountain Ledge, Sand Canyon Flagstone, Santa Barbara, Sculptured Brick, Sierra Ledge, Smooth Limestone, Split Fieldstone, Tumbled Ledge, Tuscan Villa, Valley Cobble, Venetian Villa, Virginia Ledge, Weathered Edge, Woodstone, Yukon Rubble</p>
