

# SCULTURED STONE.

# submittal packet

COMPANY NAME:
CONTACT NAME:
PROJECT TITLE:
STREET ADDRESS:
CITY, STATE, ZIP:

We would like to congratulate you on your upcoming project which incorporates adhered concrete masonry veneer products. Enclosed in this packet are the required Cultured Stone submittal forms and technical documents. We have also enclosed additional support materials and installation details commonly requested by architects and contractors.

#### Visit culturedstone.com/resources to view all digital materials available for download.

SUBMITTAL FORM	BRICK INSTALLATION
TECHNICAL DATA SHEET	3-PART SPEC
50-YEAR WARRANTY	ICC-ES EVALUATION REPORT
CERTIFICATE OF QUALITY	SAFETY DATA SHEET
STONE INSTALLATION	

As part of our commitment to service, we would like to recommend that you take advantage of our consulting services.

We have trained Technical Field Service representatives that will walk through your project with you prior to installation. This can help prevent improper installations and in some cases identify where additional stone or accessories may be needed.

Thank you again for choosing Cultured Stone. Should you have any questions, please do not hesitate in contacting us. We are grateful for the opportunity to be a part of your project needs.

Sincereley,

Sales Representative Cultured Stone

# SUBMITTAL PACKET

#### Cultured Stone Representative:

PROJECT DETAILS	CULTURED STONE
PROJECT NAME:	PROFILE: COLOR:
PROJECT ADDRESS:	APPROX SQ FOOTAGE:
CITY, STATE, ZIP:	MANUFACTURING LOCATION:

#### Please fill in all known information:

OWNER	ARCHITECT	BUILDER	MASON
COMPANY NAME:	COMPANY NAME:	COMPANY NAME:	COMPANY NAME:
CITY, STATE:	CITY, STATE:	CITY, STATE:	CITY, STATE:
CONTACT NAME:	CONTACT NAME:	CONTACT NAME:	CONTACT NAME:
CONTACT PHONE:	CONTACT PHONE:	CONTACT PHONE:	CONTACT PHONE:

#### PROJECT NOTES:

Pre-Installation Project Team Meeting Scheduled?	Y	Ν	Date Scheduled:	
Your signature below acknowledges receipt of Cultuinformation is accurate to the best of your knowled		tone's "S	ubmittal Packet" and the above	
Received By:			Date:	
Company:			Phone:	
Cultured Stone Representative:			Date:	

Email completed form to: cs@westlake.net

# TECHNICAL DATA

The **Cultured Stone**<sup>®</sup> collection of manufactured stone veneers is engineered to meet or exceed specifications for all major code approvals. Manufacturers who offer "just like" or a so-called "equivalent" to Cultured Stone manufactured stone veneer products should be asked to document claims of test results and research reports.

Complete copies of these Cultured Stone manufactured stone veneer building code evaluation reports, research reports, approvals and listings are available upon request:

• ICC-ES ESR-1364

MATERIALS

- Tested and listed by Underwriters Laboratories, Inc.
- Texas Department of Insurance– Product Evaluation Report, EC-21

- Florida Product Approval FL15047
- HUD Materials Release No. 1316
- BMEC Authorization

Note: Local building codes may vary; always check with your local building code authority prior to installation.

Results of tests conducted by an independent testing agency confirm that the Cultured Stone collection of manufactured stone veneers conforms to or exceeds the following test requirements as specified in ICC Evaluation Service Acceptance Criteria 51 for Precast Stone Veneer:

CEMENT	ASTM C 150 or ACI 318 Section 3.2.1	
SAND	ASTM C 144 or C 33	
AGGREGATE	ASTM C 33 or C 330 (except gradation), C 331	
TESTING		
SHEAR BOND TEST (ADHESION)	Tested in accordance with ASTM C 482	> 50 psi
WATER ABSORPTION	Tested in accordance with UBC 15-5	9%-22% depending on texture
FREEZE/THAW CHARACTERISTICS	Testing procedures follow those outlined in ASTM C 67	< 3% mass loss
COMPRESSIVE STRENGTH	Tested in accordance with ASTM C 39	> 1800 psi @ 28 days
UNIT WEIGHT	Density is determined in accordance with ASTM C 567	< 15 lbs. per square foot
TENSILE STRENGTH	Tested in accordance with ASTM C 190	Reported
FLEXURAL STRENGTH	Tested in accordance with ASTM C 348	Reported
THERMAL PROPERTIES	Tested in accordance with ASTM C 177-71	R-value is .620 based on a 1.75" thick sample. Average thickness may vary on different Cultured Stone veneer products, and the R-value will vary accordingly.
NONCOMBUSTIBLE	Tested and listed by Underwriters Laboratories, Inc.	Cultured Stone brand products showed zero flame spread and zero smoke development.

#### SCULTURED STONE.

## 50-YEAR TRANSFERABLE LIMITED WARRANTY

LIMITATIONS ON THE TRANSFERABILITY OF THIS WARRANTY ARE SET FORTH HEREIN

#### INTRODUCTION

Thank you for your recent purchase of **Cultured Stone**<sup>®</sup> manufactured stone veneer products ("Product(s)"). This express limited warranty ("Warranty") only covers Cultured Stone manufactured stone veneer products manufactured by Westlake Royal Stone LLC ("WRS").

#### WHO IS COVERED & FOR HOW LONG

Subject to the following terms, WRS warrants its Products for fifty (50) years to the original purchaser (the "Purchaser") (based upon the date of retail purchase, date of substantial completion of the installation if professionally installed, or date of settlement of the purchase of a newly constructed building, whichever is applicable). This Warranty is personal to you; however, the Warranty may be transferred to any subsequent purchaser(s) of your home or building during the first fifteen (15) years after the original purchase date (as described above), but the warranty period as to such subsequent owners is limited to fifteen (15) years from the original purchase date (as described above).

#### WHAT WRS WARRANTS

WRS, subject to the conditions and limitations listed herein, warrants its Products to be manufactured in compliance with the International Code Council Acceptance Criteria 51 ("ICC AC 51) for Precast Stone Veneer; however, Products that are accessories and Products that are not wall veneer shall not meet the weight, density and dimension parameters of ICC AC 51.

#### WHAT IS NOT COVERED

We do not cover damage to the Product due to any cause not expressly covered herein. This Warranty does not cover any problems with non-defective material caused by conditions or handling beyond our control.

Some examples of conditions not covered by this Warranty include:

- 1. Improper application, use of accessories which do not properly receive and/or secure our Products, or installation not in strict adherence to the applicable installation instructions or installation not in accordance with local building code requirements.
- 2. Damage resulting from accident, misuse, neglect, casualty, fire, vandalism, plant growth, impact of foreign objects, salt or de-icing chemicals, excessive exposure to water due to things such as standing water, water backups, improper flashing, leaks, seepage or irrigation systems, failure of or damage to the wall substrate on which the Product was applied caused by movement, distortion, cracking, or settling of such wall or the foundation of the building, surface discoloration due to airborne stains, pollutants, algae, fungi, lichens or cyanobacteria, exposure to harmful chemicals, external heat sources (including, but not limited to, a barbecue grill, fire, or reflection from windows and doors), acts of God, or other such occurrences beyond the control of WRS;
- 3. Product or material that has been painted, varnished, sealed with non-breathable sealer, or similarly coated over the manufacturer's original finish; and
- 4. The use of sandblasting, power washing, silicone treatments, or any other form of chemical wash.

Products shall not be in breach of this Warranty if they contain or exhibit (i) minor chipping, as defined under ASTM C1364, Section 8.2; or (ii) minor cracks, as defined under ASTM C 90-05, Section 7.2.1, incidental to the usual methods or materials of manufacture or minor chipping resulting from customary methods of handling in shipment and delivery which do not affect the proper placement of the unit or significantly impair the strength or permanence of the construction.

Products are not warranted against discoloration caused by air pollution, exposure to harmful chemicals, or "normal weathering" resulting from exposure to the elements. "Normal weathering" is defined as the damaging effects of sunlight and extremes of weather and atmosphere that may cause any colored surface to oxidize, fade, or become soiled or stained over time.

WRS strives to accurately reproduce the colors of its masonry stone veneer Products in its marketing literature and sample boards. The Product colors that you see are as accurate as technology allows. WRS makes no warranty with respect to any real or perceived color differences between those depicted in its marketing literature and sample boards and those of the actual Products that will be installed on or within the home or building. WRS recommends that you look at actual Product samples before making a color selection for your home or building.



#### WHAT IS YOUR REMEDY

If the Products are not in conformance with our Warranty, WRS will, in its sole discretion, either (i) repair or replace the nonconforming Products at no charge to you, or (ii) refund the price paid for the Products. Labor costs for removal or installation are not covered. Any Products repaired or replaced hereunder will continue to be covered under the terms of this Warranty for the remainder of the original warranty period.

#### SUBMITTING A WARRANTY CLAIM

To obtain performance under this Warranty, the Purchaser(s) shall notify WRS of the claim promptly following its discovery, and shall submit with such notification proof of date of purchase and/or installation, and proof of property ownership, in order to provide WRS an opportunity to investigate the claim and examine the material claimed to be defective. All notifications shall be provided to WRS at **WRS Stone Products Warranty Department**, **2256 Centennial Road**, **Toledo**, **Ohio 43617** or call **1-800-255-1727**. Shortly after we receive your communication, we will contact you regarding your claim. To fully evaluate your claim, we may ask you to provide pictures of your Products or samples for us to test. If you have any questions, do not hesitate to write us at the address above or call **1-800-255-1727**.

#### **REPLACEMENT & PRODUCT VARIATIONS**

As a result of our ongoing efforts to improve and enhance our product line, we reserve the right to discontinue or modify our Products, including their colors, without notice to the Purchaser(s) and shall not be liable to the Purchaser(s) as a result of such discontinuance or modification. We are not liable to you if you make a warranty claim in the future and any replacement Products you receive vary in color or finish because of normal weathering or changes in our product line. You should understand that if we replace any Products under this Warranty, we reserve the right to provide you with substitute Products that are comparable only in quality and price to your original Products.

#### LIMITATIONS

EXCEPT AS SET FORTH ABOVE, WRS MAKES NO EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ANY PRODUCT SOLD. ORAL STATEMENTS CONCERNING THE PRODUCT(S) COVERED BY THIS WARRANTY, OR STATEMENTS CONTAINED IN WRS'S GENERAL ADVERTISING, PAMPHLETS OR OTHER PRINTED MATERIALS DO NOT CONSTITUTE WARRANTIES, AND PURCHASER ACKNOWLEDGES THAT IT HAS NO RIGHT TO RELY UPON SAME. WRS, WHETHER AS A MANUFACTURER OR CARRIER, SHALL NOT BE LIABLE FOR ANY COMMERCIAL LOSSES, SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES, OR FOR ANY LOSS, DAMAGE OR EXPENSE ARISING UNDER OR IN CONNECTION WITH ANY SALE OF PRODUCT. WRS'S LIABILITY FOR DAMAGES OF ANY KIND SHALL IN NO EVENT EXCEED THE ORIGINAL PURCHASE PRICE OF THE PARTICULAR ORDER, LOT OR SHIPMENT OR THE ORIGINAL PURCHASE PRICE OF THAT PORTION THEREOF WHICH IS NOT REPAIRED OR REPLACED WITH RESPECT TO WHICH A CLAIM IS ASSERTED. IN PARTICULAR, WRS SHALL NOT BE LIABLE FOR LOSS OF SALES, REVENUES OR PROFITS OR CLAIMS OF ANY THIRD PARTIES.

#### LEGAL RIGHTS

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. Some states do not allow the exclusion or limitation on incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state. If the laws of a particular state require terms other than or in addition to those contained in this Warranty, this Warranty shall be deemed modified so as to comply with the appropriate laws of such state, but only to the extent necessary to prevent the invalidity of this Warranty or any provision of this Warranty or to prevent the imposition of any fines, penalties or any liability.



# SCULTURED STONE. Certificate of Quality

DATE	
ATTN:	
PROJECT TITLE	
PROJECT CITY+STATE	
PRODUCT/STONE COLOR+PROFILE (1):	
PRODUCT/STONE COLOR+PROFILE (2);	
ARCHITECT:	
GENERAL CONTRACTOR:	
MASONRY CONTRACTOR:	

This document certifies that the product manufactured by Cultured Stone, for the project listed above, meets the Acceptance Criteria AC-51 for Precast Stone Veneer established by ICC Evaluation Service and as specified in the Evaluation Report No. ESR-1364.

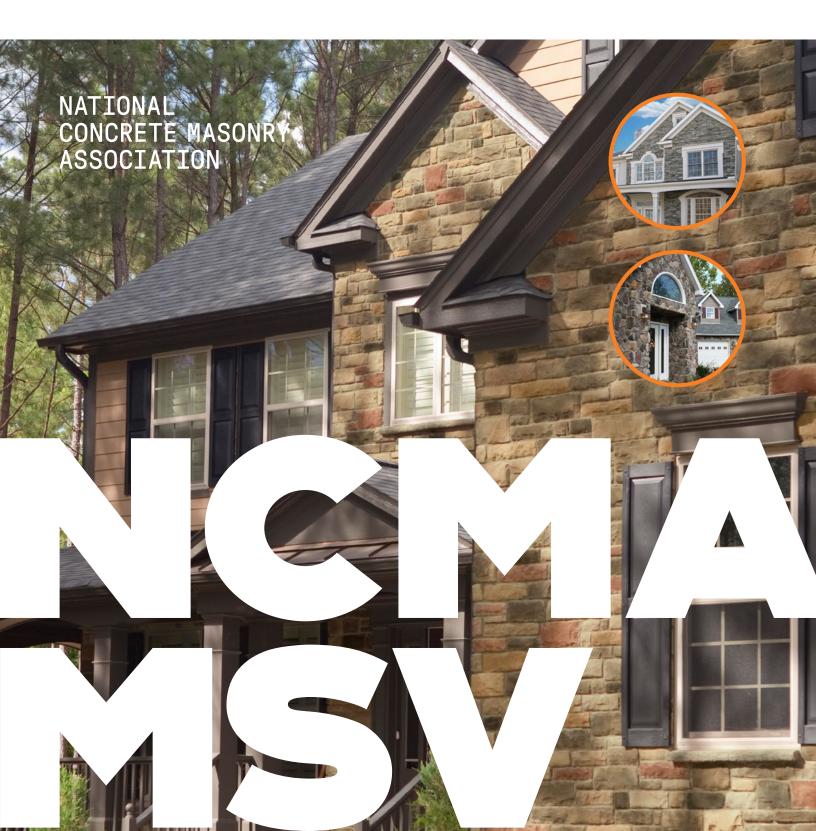
Sincerely,

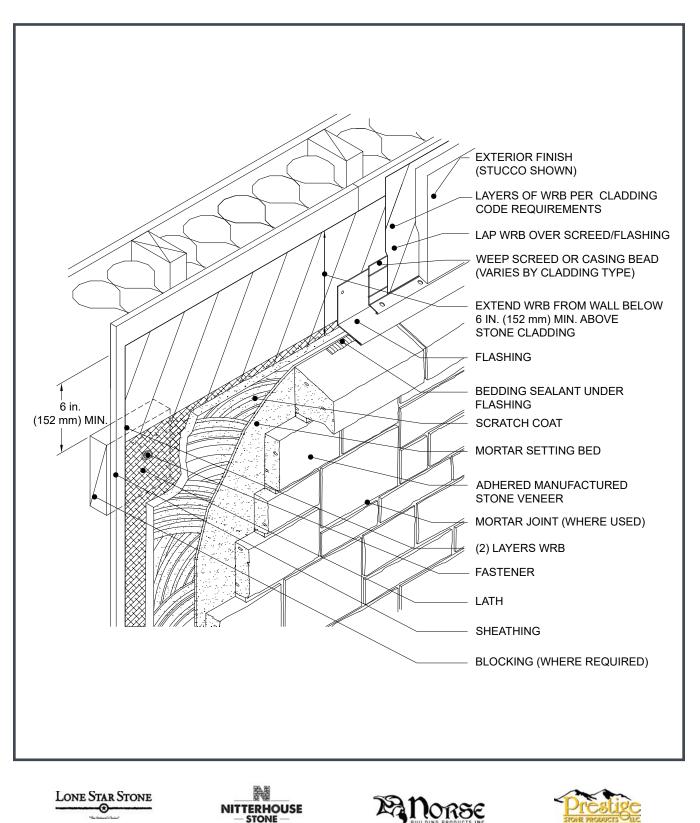
Rick Garagliano

Rick Garaglian• Director of Quality, Cultured Stone

# Installation Guide and Detailing Options for Compliance with ASTM C1780

For Adhered Manufactured Stone Veneer 5th Edition, 4th Printing

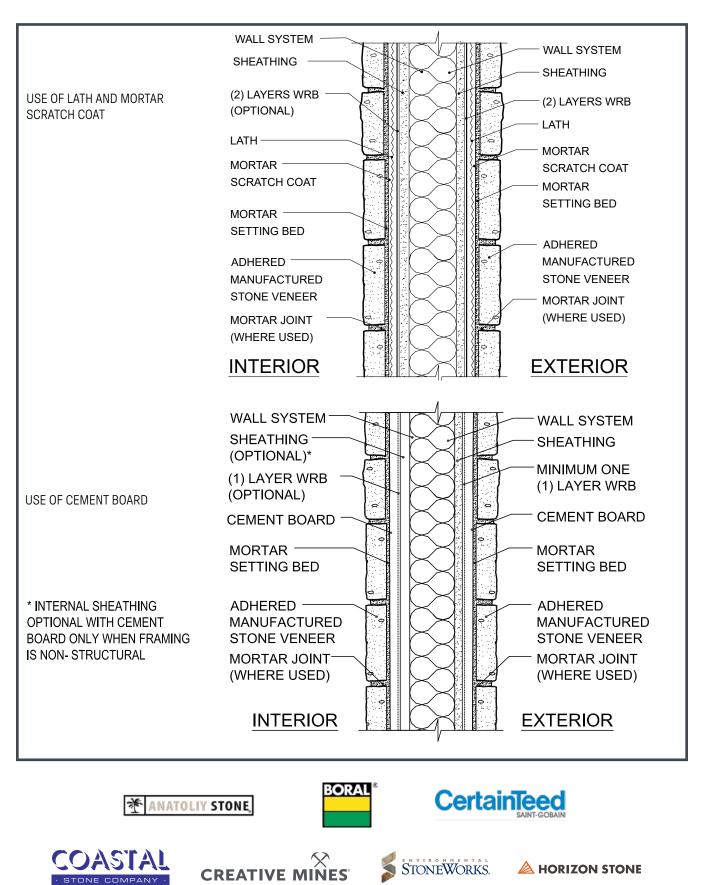




TEXAS STONE

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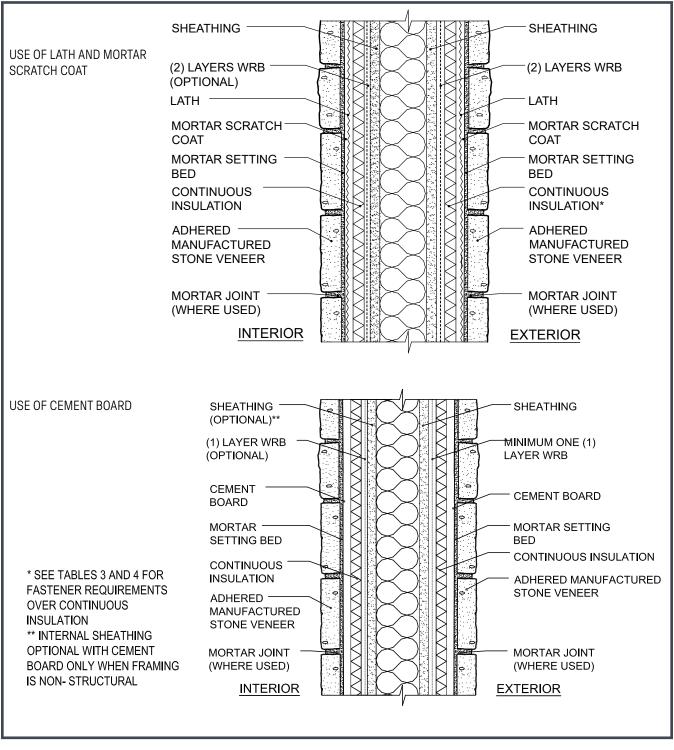


#### Figure 4a. Typical Frame Wall Section

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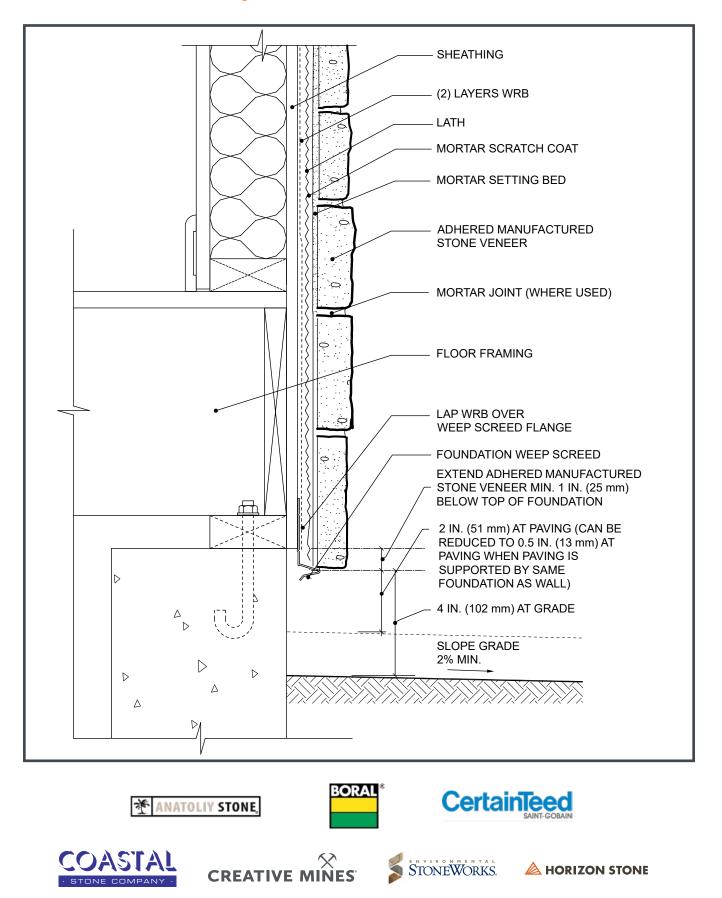
**A HORIZON STONE** 

#### Figure 4b. Typical Wall Frame Section with Continuous Rigid Insulation

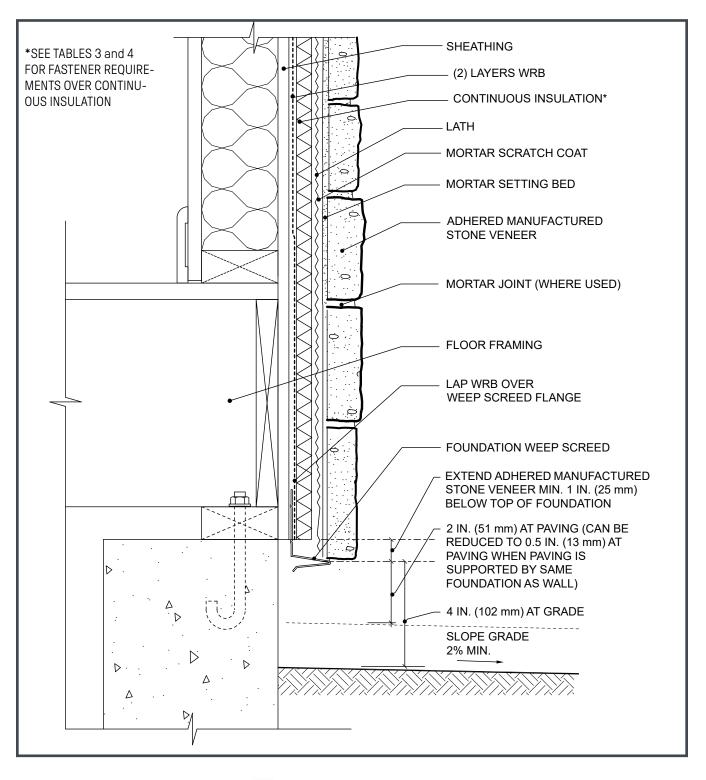




#### Figure 5a. Foundation Wall Base



#### Figure 5b. Foundation Wall Base Over Continuous Rigid Insulation









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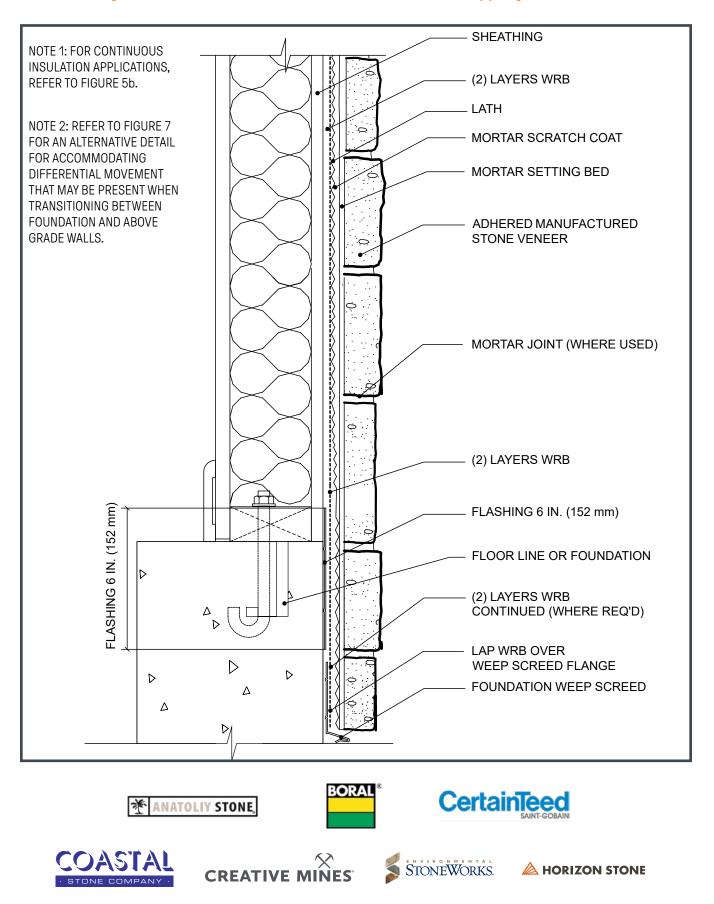


DESIGNS INC

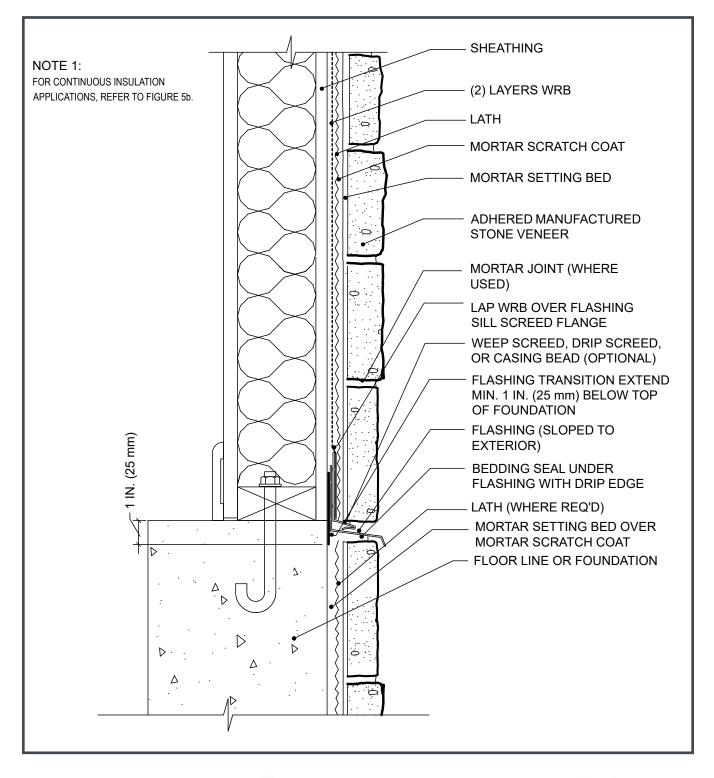


IATIONAL CONCRETE MASONRY ASSOCIATION

#### Figure 6. Foundation Wall Base - AMSV Overlapping Foundation



#### Figure 7. Foundation Wall - Transition to AMSV Continuing Down Foundation









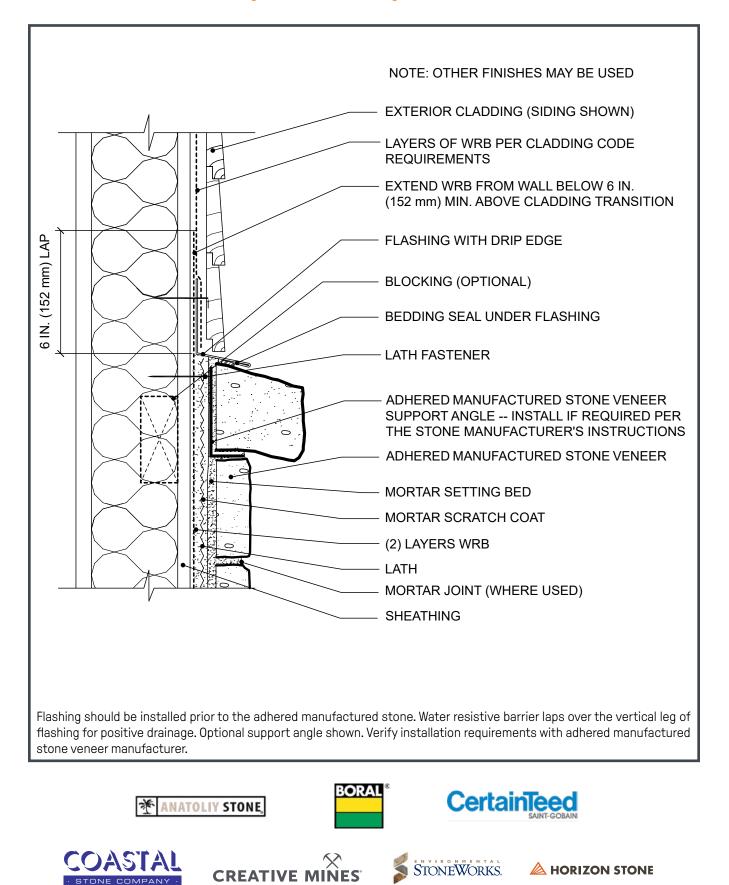
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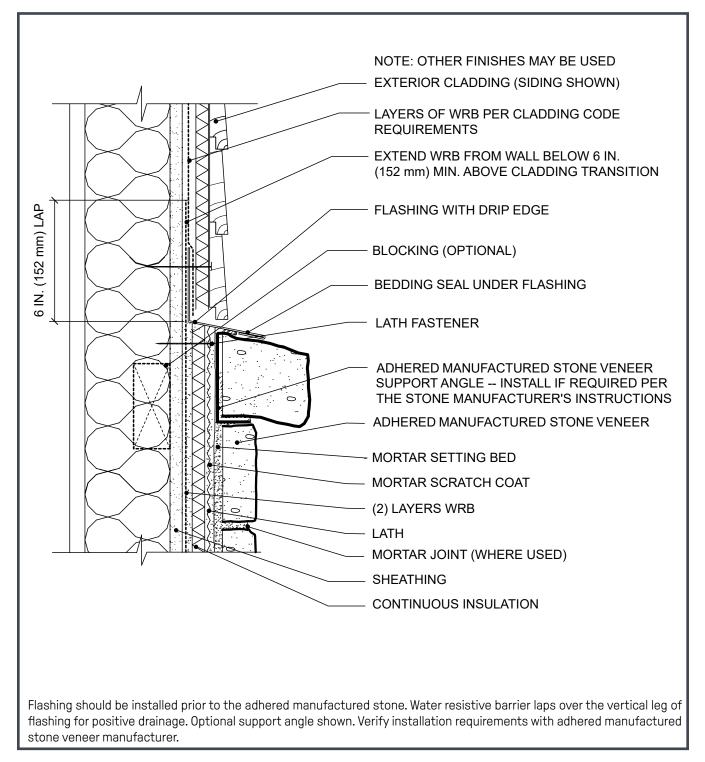
TEXAS STONE



Producers of Quality Manufactured Stone & Thin Brick

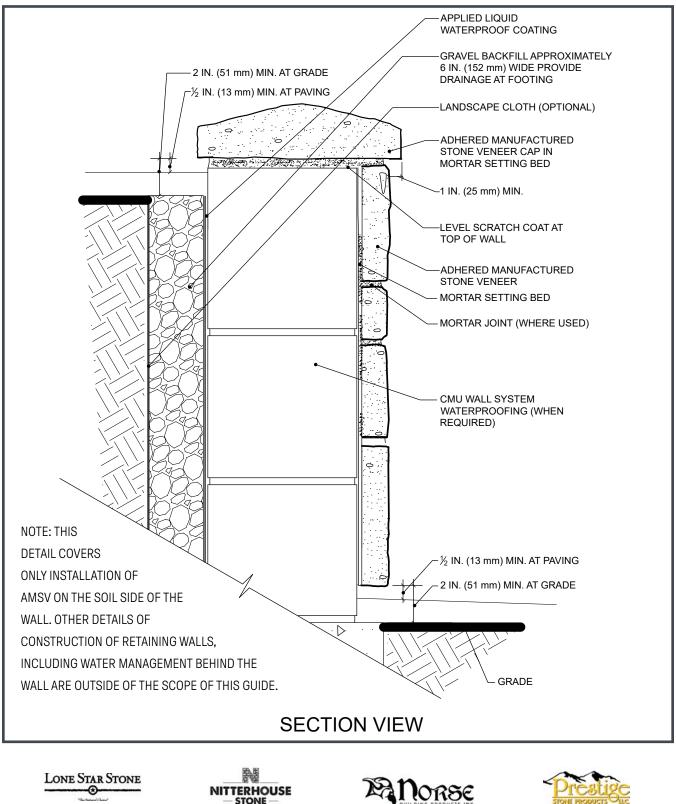








#### Figure 39. Retaining Wall (CMU)











troducers of Quality Manufactured Stone & Thin Brick



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#### SCULTURED STONE.

#### SECTION 04 73 00 MANUFACTURED STONE VENEER

#### PART 1 GENERAL

#### 1.1 SECTION INCLUDES

- A. Cultured Stone Veneer.
- B. Architectural Trim Stone.

#### 1.2 RELATED SECTIONS

- A. Section 04 20 00 Unit Masonry.
- B. Section 06 10 00 Rough Carpentry.
- C. Section 05 40 00 Cold-Formed Metal Framing.
- D. Section 07 27 00 Air Barriers.
- E. Section 07 28 00 Underlayments.\*
- F. Section 07 62 00 Sheet Metal Flashing & Trim.
- G. Section 07 90 00 Joint Protection.
- H. Section 09 24 13 Adobe Finish.
- I. Section 10 30 00 Fireplaces and Stoves.

#### 1.3 REFERENCES

- A. ASTM C 39 Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens.
- B. ASTM C 67 Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile.
- C. ASTM C 177 Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus.
- D. ASTM C 192 Standard Practice for Making and Curing Concrete Test Specimens in the Laboratory.
- E. ASTM C 482 Standard Test Method for Bond Strength of Ceramic Tile to Portland Cement.
- F. ASTM C 1670 Standard Specification for Adhered Manufactured Stone Masonry Veneer Units.
- G. ASTM C 1780 Standard Practice for Installation Methods for Adhered Manufactured Stone Masonry Veneer
- H. UL 723 Standard for Safety for Surface Burning Characteristics of Building Materials.
- I. ICC ES AC 51 Acceptance Criteria for Manufactured Stone Veneer
- J. National Concrete Masonry Association (NCMA): Installation Guide for Adhered Manufactured Stone Veneer
- K. US Department of Housing and Urban Development (HUD): Material Release Numbers 910Fs
- L. LEED: US Green Building Council's Leadership in Energy and Environmental Design Green Building Rating System.

#### 1.4 DESIGN / PERFORMANCE REQUIREMENTS

- A. Building Code Compliance:
  - 1. International Code Council (ICC):
    - a. ES Report: ICC ESR 1364
    - b. UBC Standard No. 14-1, Kraft Waterproof Building Paper.
  - 2. Florida Product Approval Number FL15047
  - 3. Texas Department of Insurance: Product Evaluation-EC 21
  - 4. US Department of Housing & Urban Development (HUD): MR 1316.
  - 5. Tested by Underwriters Laboratories, Inc.
- B. Average Recycled Content of 58 percent validated by 3rd party analysis.
- C. Backup Wall System and installation method for manufactured stone veneer shall meet the requirements of ASTM C 1780–Standard Practice for Installation Methods for Adhered Manufactured Stone Masonry Veneer.

#### 1.5 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation standards and methods.
- C. Shop Drawings: Submit drawings depicting proper installation and flashing techniques. Coordinate locations with those found on the Drawings.
- D. LEED Submittals: Provide documentation of how the requirements of Credit will be met:
  - LEED v 4, Product Data for Credit MR 4: For products having recycled content documentation; indicating percentages by weight of post-consumer and pre-consumer recycled content. Include statement indicating cost for each product having recycled content.
  - LEED v 4, Product Data for Credit MR 4: For products having recycled content documentation; indicating percentages by weight of post-consumer and pre-consumer recycled content. Include statement indicating cost for each product having recycled content.
  - LEED v 4, Product Data for Credit EQ 2: For products and materials to comply with low emittance standards, provide documentation substantiating that products comply with requisite low emittance standards.
  - 4. LEED v 4, Product Data for Credit for location and distance from Project of material manufacturer and point of extraction, harvest or recovery for main raw material.
- E. Selection Samples: For each finish product specified, two complete sets of color sample representing manufacturer's full range of available colors and textures.
- F. Verification Samples: For each finish product specified, two samples, minimum size 8 inches (203 mm) square, representing actual product, color, and texture.
- G. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
- H. Closeout Submittals: Provide manufacturer's maintenance instructions that include recommendations for cleaning and repair of components.

#### 1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer who is a current member of National Concrete Masonry Association (NCMA) with a minimum of 5 years documented experience manufacturing and marketing all Manufactured Stone products of the type specified in this section.
- B. Installer Qualifications: Company with documented experience in installation of manufactured masonry of the type specified including at least five projects within a 400 mile (650km) radius of the Project.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
  - 1. Finish panel of size and location designated by Architect.
  - 2. Minimum size 3 foot by 3 foot and showing transition to adjacent materials anticipated.
  - 3. Do not proceed with remaining work until workmanship, color, texture and pattern are approved by Architect.
  - 4. Refinish mock-up area as required to produce acceptable work.
- D. Pre-Installation Conference:
  - 1. Contractor shall arrange a meeting not less than thirty days prior to starting stone veneer work.
  - 2. Attendance: Contractor, Architect/Owner Representative, veneer stone installer and manufacturer's representative.

#### 1.7 DELIVERY, STORAGE & HANDLING

- A. Store and handle products in conformance with the manufacturer's requirements and recommendations.
- B. Store products off the ground on pallets in manufacturer's unopened packaging until ready for installation.
- C. Protect materials from precipitation and freezing temperatures. Product with visible frozen moisture should not be installed.

#### 1.8 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.
- B. Cold weather installations: Maintain materials and ambient temperature at minimum 40 degrees F (4 degrees C) prior to, during, and 48 hours after installation.
- C. Hot weather installations: Mist water on the scratch coated surface and the backs of the masonry veneer for installations that exceed 90 degrees (32 degrees C).

#### 1.9 WARRANTY

A. Provide manufacturers 50-year limited warranty.

#### **PART 2 PRODUCTS**

- 2.1 MANUFACTURERS
  - A. Acceptable Manufacturer: Cultured Stone<sup>®</sup> which is located at: 200 Mansell Court E. Suite 305; Roswell, GA 30076; Toll Free Tel: 800-255-1727; Email to request info:CS@Westlake.net Web: www.culturedstone.com
  - B. Substitutions: Not permitted.
  - **C.** Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 Product Requirements.

#### 2.2 MANUFACTURED STONE VENEER-GENERAL

- A. Manufactured Stone Veneer Performance Requirements: Conforming to ASTM C 1670 and as follows:
  - 1. Compressive Strength: Not less than 1800 psi (12.4 MPa) average for 5 specimens and not less than 2100 psi (14.4 MPa) for individual specimen when tested in accordance with ASTM C 39 & ASTM C 192.
  - 2. Bond Between Manufactured Masonry Unit, Mortar and Backing: Not less than 50 psi (345 kPa) when tested in accordance with ASTM C 482 using Type S mortar.
  - 3. Thermal Resistance: R-value of not less than 0.355 per inch (25.4 mm) of thickness when tested in accordance with ASTM C 177.
  - 4. Freeze/Thaw: No disintegration and less than 3 percent weight loss when tested in accordance with ASTM C 67.
  - 5. Water Absorption: Tested in accordance with UBC 15-5 9-22% depending on density value.
  - 6. Unit Weight: Not more than 15 psf (73 kg/m2) saturated.
  - Surface Burning Characteristics: Not more than the following when tested in accordance with UL 723:
    - a. Flamespread: 25.
    - b. Smoke Development: 450.
  - 8. UV Stable Mineral oxide pigments.
- B. Certifications:
  - 1. ICC ES AC 51 Acceptance Criteria for Manufactured Stone Veneer
  - 2. ICC Evaluation Service Evaluation Report ESR 1364 & ASTM C 1670.
  - 3. HUD Material Release Number 1316c
  - 4. UL Tested for Surface Burning Characteristics
  - 5. Texas Department of Insurance Product Evaluation EC-21
  - 6. Florida Product Approval Number FL15047

#### 2.3 CULTURED STONE VENEER

- A. Cultured Stone Ancient Villa Ledgestone: Includes matching corner pieces.
  - 1. Height: Variable from 2 inches to 12 inches (50 mm to 304 mm).
  - 2. Lengths: Variable from 5 inches to 16 inches (127 mm to 406 mm).
  - 3. Color: Chianti.
  - 4. Color: Palisades.
  - 5. Color: Sevilla.
  - 6. Walls: Provide with Single Color and Texture throughout.
  - 7. Walls: Provide with Blended Color/Texture:
    - a. Percent:\_\_\_\_\_,
      - Color:\_\_\_\_\_
    - b. Percent:\_\_\_\_\_, Color: .
- B. Cultured Stone Cast-Fit: Includes matching corner pieces.
  - 1. Dimensions: 8 inches by 16 inches or 12 inches by 24 inches (200 mm by 400 mm or 305 mm by 610 mm).
  - 2. Color: Carbon.
  - 3. Color: French Gray.
  - 4. Color: Parchment.
- C. Cultured Stone Cobblefield: Includes matching corner pieces.
  - 1. Heights: Variable from 2 inches to 8 inches (50 mm to 200 mm).
  - 2. Lengths: Variable from 4 inches to 20 inches (100 mm to 500 mm).
  - 3. Color: Chardonnay.
  - 4. Color: Desert Blend.
  - 5. Color: Echo Ridge.
  - 6. Color: Gray.
  - 7. Color: San Francisco.
  - 8. Color: Texas Cream.
  - 9. Walls: Provide with Single Color and Texture throughout.
  - 10. Walls: Provide with Blended Color / Texture:
    - a. Percent:\_\_\_\_\_, Color:\_\_\_\_\_
    - b. Percent:\_\_\_\_\_, Color:\_\_\_\_\_\_,

- D. Cultured Stone Coral Stone: Includes matching corner pieces.
  - 1. Pattern: Random Ashlar or Repeating.
  - Stone sizes: Variable sizes in increments of 4 inches from 4 inches by 4 inches to 12 inches by 16 inches (100 mm from 100 mm by 100 mm to 204 mm to 304 mm).
  - 3. Corner sizes: 4 inch, 8 inch and 12 inch heights with 4 inch and 8 inch lengths.
  - Average thickness: 1 1/8 inches and sized for a 1/2 inches (12.5 mm) mortar joint.
  - 5. Color: Fossil Reef.
  - 6. Walls: Provide with Single Color and Texture throughout.
  - 7. Walls: Provide with Blended Color/Texture:
    - a. Percent:\_\_\_\_\_, Color:
    - b. Percent:\_\_\_\_\_, Color:\_\_\_\_\_.
- E. Cultured Stone Country Ledgestone: Includes matching corner pieces.
  - Heights: Variable from 11/2 inches to 6 1/2 inches (38 mm to 162 mm).
  - 2. Lengths: Variable from 4 3/4 inches to 22 inches (120 mm to 560 mm).
  - 3. Color: Ashfall.
  - 4. Color: Aspen.
  - 5. Color: Black Rundle.
  - 6. Color: Bucks County.
  - 7. Color: Caramel.
  - 8. Color: Chardonnay.
  - 9. Color: Echo Ridge.
  - 10. Color: Eucalyptus.
  - 11. Color: Grand Mesa.
  - 12. Color: Gunnison
  - 13. Color: Hudson Bay.
  - 14. Color: Mojave.
  - 15. Color: Red Rock.
  - 16. Color: Sevilla.
  - 17. Color: Skyline.
  - 18. Color: Umber Creek.
  - 19. Color: Wheaton.
  - 20. Color: White Oak.
  - 21. Color: Wolf Creek.
  - 22. Walls: Provide with Single Color and Texture throughout.
  - 23. Walls: Provide with Blended Color/Texture:
    - a. Percent:\_\_\_\_\_

Color:

b. Percent:\_\_\_\_\_, Color:

- F. Cultured Brick Veneer Handmade Brick: Includes matching corner pieces.
  - 1. Height: Variable from 2 3/4 inches (70 mm)
  - 2. Lengths: Variable from 8 3/16 inches (208 mm)
  - 3. Color: Carbon.
  - 4. Color: Canvas.
  - 5. Color: Moroccan Sand.
  - 6. Color: Titanium.
  - 7. Walls: Provide with Single Color and Texture throughout.
  - 8. Walls: Provide with Blended Color/Texture:
    - a Percent:\_\_\_\_\_, Color:\_\_\_\_\_\_
    - b. Percent:\_\_\_\_\_, Color:
- G. Cultured Brick Veneer Used Brick: Includes matching corner pieces.
  - Height: Variable from 2 1/2 inches (63 mm).
  - 2. Lengths: Variable from 8 inches (200 mm).
  - 3. Color: Antique Red.
  - 4. Color: High Desert.
  - 5. Walls: Provide with Single Color and Texture throughout.
  - 6. Walls: Provide with Blended Color/Texture:
    - a. Percent:\_\_\_\_\_ Color:

b. Percent:\_\_\_\_\_,

Color:

- H. Cultured Stone Del Mare Ledgestone: Includes matching corner pieces.
  - 1. Height: Variable from 1 inch to 9 1/4 inches (25 mm to 235 mm).
  - Lengths: Variable from 4 1/2 inches to 16 inches (114 mm to 406 mm).
  - 3. Color: Black Isle.
  - 4. Color: Burnt Ochre.
  - 5. Color: Palermo.
  - 6. Walls: Provide with Single Color and Texture throughout.
  - 7. Walls: Provide with Blended Color/Texture:
    - a. Percent:\_\_\_\_\_, Color:\_\_\_\_\_\_.
    - b. Percent:\_\_\_\_\_, Color:\_\_\_\_\_.

- I. Cultured Stone Dressed Fieldstone: Includes matching corner pieces.
  - 1. Sizes: Variable from 2 1/2 inches to 22 inches (63 mm to 560 mm).
  - 2. Color: Aspen.
  - 3. Color: Bucks County.
  - 4. Color: Chardonnay.
  - 5. Color: Echo Ridge.
  - 6. Color: Sevilla.
  - 7. Color: Wolf Creek.
  - 8. Walls: Provide with Single Color and Texture throughout.
  - 9. Walls: Provide with Blended Color/Texture:
    - a. Percent:\_\_\_\_\_, Color:
    - b. Percent:\_\_\_\_\_, Color:\_\_\_\_\_\_
- J. Cultured Stone Drystack Ledgestone Panel: Includes matching corner pieces.
  - 1. Heights: 6 inches (152 mm).
  - 2. Lengths: Variable from 20 inches to 24 inches (508 mm to 610 mm).
  - 3. Color: Melrose
  - 4. Color: High Plains
  - 5. Color: Rubicon
  - 6. Walls: Provide with Single Color and Texture throughout.
  - 7. Walls: Provide with Blended Color/Texture:

a.	Percent:	,
	Color:	
b.	Percent:	,

- Color:\_\_\_\_\_. K. Cultured Stone European Castle Stone: Includes matching corner pieces.
  - 1. Heights: Variable from 2 inches to 12 inches (50 mm to 300 mm).
  - Lengths: Variable from 2 inches to 16 inches (50 mm to 400 mm).
  - 3. Color: Bucks County.
  - 4. Color: Chardonnay.
  - 5. Walls: Provide with Single Color and Texture throughout.
  - 6. Walls: Provide with Blended Color/Texture:

a. Percent:\_\_\_\_\_

	Color:
b.	Percent:,
	Color:

- L. Cultured Stone Hewn Stone: Includes matching corner pieces.
  - Size: Provide sizes required to match customized pattern selected by the Architect from the following.
    - a. 3 inch by 8 inch
    - b. 3 inch by 14 inch
    - c. 5 inch by 14 inch
    - d. 5 inch by 22 inch
    - e. 8 inch by 22 inch
  - 2. Corner sizes: 3 inch and 7 inch heights with 3 inch and 8 inch lengths.
  - 3. Average thickness: 1 1/2 inches (38 mm).
  - 4. Color: Arctic.
  - 5. Color: Foundation.
  - 6. Color: Span.
  - 7. Color: Talus.
  - 8. Walls: Provide with Single Color and Texture throughout.
  - 9. Walls: Provide with Blended Color/Texture:
    - a. Percent:\_\_\_\_\_, Color:\_\_\_\_\_\_. b. Percent:\_\_\_\_\_,
    - Color:
- M. Cultured Stone Limestone:

Includes matching corner pieces.

- Heights: Variable from 1 1/4 inches to 6 inches (30 mm to 150 mm).
- Lengths: Variable from 4 inches to 16 3/4 inches (100 mm to 420 mm).
- 3. Color: Bucks County.
- 4. Color: Chardonnay.
- 5. Color: Golden Buckeye,
- 6. Color: Suede.
- Walls: Provide with Single Color and Texture throughout.
- 8. Walls: Provide with Blended Color/Texture:
  - a. Percent:\_\_\_\_\_, Color:\_\_\_\_\_\_.
  - b. Percent:\_\_\_\_\_,
    - Color:\_\_\_\_\_.
- N. Cultured Stone Old Country Fieldstone: Includes matching corner pieces.
  - 1. Heights: Variable from 1 1/2 inches to 10 inches (38 mm to 250 mm).
  - Lengths: Variable from 4 inches to 16 inches (100 mm to 400 mm).
  - 3. Color: Chardonnay.
  - 4. Color: Echo Ridge.

- 6. Color: Tudor.
- Walls: Provide with Single Color and Texture throughout.
- 8. Walls: Provide with Blended Color/Texture:
  - a. Percent:\_\_\_\_\_, Color:\_\_\_\_\_, b. Percent:\_\_\_\_\_,
  - Color:
- O. Cultured Stone Pro-Fit Ledgestone: Includes matching corner pieces.
  - 1. Heights: 4 inches (102 mm)
  - Lengths: Variable from 8 inches to 20 inches (200 mm to 500 mm).
  - 3. Color: Gray.
  - 4. Color: Mojave.
  - 5. Color: Platinum.
  - 6. Color: Shale.
  - 7. Color: Southwest.
  - 8. Walls: Provide with Single Color and Texture throughout.
  - 9. Walls: Provide with Blended Color/Texture:
    - a. Percent: \_\_\_\_\_\_\_,
      Color: \_\_\_\_\_\_\_,
      b. Percent: \_\_\_\_\_\_\_,
      Color: \_\_\_\_\_\_\_,
- P. Cultured Stone Pro-Fit Alpine Ledgestone: Includes matching corner pieces.
  - 1. Height: 4 inches (102 mm).
  - Lengths: Variable from 8 inches to 20 inches (200 mm to 500 mm).
  - 3. Color: Black Mountain.
  - 4. Color: Black Rundle.
  - 5. Color: Chardonnay.
  - 6. Color: Dark Ridge.
  - 7. Color: Echo Ridge.
  - 8. Color: Pheasant.
  - 9. Color: Summit Peak.
  - 10. Color: Umber Creek.
  - 11. Color: Winterhaven.
  - Walls: Provide with Single Color and Texture throughout.
  - 13. Walls: Provide with Blended Color/Texture:
    - a. Percent:\_\_\_\_\_
      - Color:

b. Percent:\_\_\_\_\_, Color:\_\_\_\_\_

- Q. Cultured Stone Pro-Fit Modera Ledgestone: Includes matching corner pieces.
  - 1. Heights: 4 inches (101.6 mm)
  - 2. Lengths: Variable from 8 inches to 20 inches (203 mm to 500 mm).
  - 3. Corner Returns: 4 inches, or 8 inches, or 12 inches
  - 4. Thickness: Variable from 1/2 inch to 1 3/4 inches
  - 5. Color: Carbon.
  - 6. Color: Intaglio.
  - 7. Color: Vellum.
  - 8. Walls: Provide with Single Color and Texture throughout.
  - 9. Walls: Provide with Blended Color/Texture:
    - a. Percent:\_\_\_\_\_, Color:
    - b. Percent:\_\_\_\_\_, Color:

R. Cultured Stone Pro-Fit Terrain Ledgestone: Includes matching corner pieces.

- 1. Heights: 4 inches (101.6 mm)
- 2. Lengths: Variable from 8 inches to 20 inches (203 mm to 500 mm).
- 3. Corner Returns: 4 inches, or 8 inches, or 12 inches
- 4. Thickness: Variable from 1/2 inch to 1 3/4 inches
- 5. Color: Arcadia.
- 6. Color: Arctic.
- 7. Color: Ethos.
- 8. Color: Trek.
- 9. Walls: Provide with Single Color and Texture throughout.
- 10. Walls: Provide with Blended Color/Texture:

.

- a. Percent: Color: .
- b. Percent:\_\_\_\_\_,

Color:\_\_\_\_\_.

S. Cultured Stone River Rock: Includes matching corner pieces.

- 1. Sizes: Variable from 2 inches to 14 inches (50 mm to 350 mm).
- 2. Color: Earth Blend.
- 3. Color: Lake Tahoe.
- 4. Color: Lakeshore.
- 5. Walls: Provide with Single Color and Texture throughout.
- 6. Walls: Provide with Blended Color/ Texture:



b. Percent: . Color:

.

T. Cultured Stone Sculpted Ashlar: Includes matching corner pieces.

- 1. Heights: 2 1/4 inches to 7.3/4 inches (57.15 mm to 192.28 mm)
- 2. Lengths: Variable from 5 1/2 inches to 20 1/2 inches (140 mm to 521 mm).
- 3. Corner Returns: 4 inches, or 7 inches, or 10 inches
- 4. Thickness: Variable from 1 inch to 2 inches
- 5. Color: Echo Ridge.
- 6. Color: Ferrous.
- 7. Color: Grouse.
- 8. Color: Silver Shore.
- 9. Walls: Provide with Single Color and Texture throughout.
- 10. Walls: Provide with Blended Color/Texture:

a.	Percent:	
	Color:	

\_\_\_\_\_, b. Percent: Color:

U. Cultured Stone Southern Ledgestone: Includes matching corner pieces.

- 1. Heights: Variable from 1/2 inch to 6 inches (13 mm to 150 mm).
- 2. Lengths: Variable from 4 inches to 20 inches (100 mm to 500 mm).
- 3. Color: Aspen.
- 4. Color: Bucks County.
- 5. Color: Chardonnay.
- 6. Color: Echo Ridge.
- 7. Color: Fog.
- 8. Color: Gray.
- 9. Color: Rustic.
- 10. Color: Wolf Creek.
- 11. Walls: Provide with Single Color and Texture throughout.
- 12. Walls: Provide with Blended Color/Texture:

a.	Percent:	,
	Color:	

b.	Percent:	.,
	Color:	

V. Cultured Stone Stream Stone: Includes matching corner pieces.

- 1. Sizes: Variable from 2 inches to 12 inches (50 mm to 300 mm).
- Skimmer Stones: Smaller fill stones, average 2 1/2 inches (63 mm) tall by 3 1/2 inches to 8 inches (89 mm to 200 mm).
- 3. Color: Spring.
- 4. Color: Summer.
- 5. Walls: Provide with Single Color and Texture throughout.
- 6. Walls: Provide with Blended Color/Texture:
  - a. Percent:\_\_\_\_\_, Color:
  - b. Percent:\_\_\_\_\_,
  - Color:\_\_\_\_\_

W. Cultured Stone Southern Ledgestone: Includes matching corner pieces.

- Heights: Variable from 1/2 inch to 6 inches (13 mm to 150 mm).
- 2. Lengths: Variable from 4 inches to 20 inches (100 mm to 500 mm).
- 3. Color: Aspen.
- 4. Color: Bucks County.
- 5. Color: Chardonnay.
- 6. Color: Echo Ridge.
- 7. Color: Fog.
- 8. Color: Gray.
- 9. Color: Rustic.
- 10. Color: Wolf Creek.
- 11. Walls: Provide with Single Color and Texture throughout.
- 12. Walls: Provide with Blended Color/Texture:
  - a. Percent:\_\_\_\_\_, Color:\_\_\_\_\_\_.
  - b. Percent:\_\_\_\_\_, Color: .

X. Cultured Stone Textured Cast-Fit Includes matching corner pieces.

- 1. Heights: 11 5/8 inches (304 mm).
- 2. Lengths: 23 5/8 inches (609 mm)
- 3. Color: Stanhope.
- 4. Walls: Provide with Single Color and Texture throughout.
- 5. Walls: Provide with Blended Color/Texture:

a.	Percent:	,
	Color:	

b.	Percent:	,	
	Color:		

#### 2.4 ARCHITECTURAL TRIM STONES

A. Pier Capstones:

- 1. Surface Texture: Flagstone.
- Nominal Size: 24 inches by 24 inches (610 mm by 610 mm).
- 3. Nominal Size: 32 inches by 32 inches (813 mm by 813 mm).
- 4. Color: Champagne.
- 5. Color: Gray.
- 6. Color: Nightfall.
- 7. Color: Sable.
- 8. Color: Taupe.
- B. Flat Wall Capstones:
  - 1. Nominal Size: 10 inches by 20 inches (254 mm by 508 mm).
  - Nominal Size: 12 inches by 20 inches (305 mm by 508 mm).
  - 3. Color: Champagne.
  - 4. Color: Gray.
  - 5. Color: Nightfall.
  - 6. Color: Sable.
  - 7. Color: Taupe.
- C. Capstones/Peaked Flagstone Texture:
  - Nominal Size: 12 inches by 20 inches (305 mm by 508)
  - Nominal Size: 16 inches by 20 inches (404 mm by 508)
  - 3. Color: Champagne.
  - 4. Color: Gray.
  - 5. Color: Nightfall.
  - 6. Color: Sable.
  - 7. Color: Taupe.
- D. Hearthstones:
  - Nominal Size: 19 inches by 20 inches (483 mm by 508 mm).
  - 2. Color: Blond.
  - 3. Color: Chardonnay.
  - 4. Color: Cream.
  - 5. Color: Marsh.
  - 6. Color: Gray.
  - 7. Color: Nightfall.
  - 8. Color: Sable.
- E. Trimstones:
  - Nominal Size: 6 inches by 8 inches by 1 7/8 inches (152 mm by 203 mm by 48 mm).

- 2. Color: Champagne.
- 3. Color: Gray.
- 4. Color: Nightfall.
- 5. Color: Sable.
- 6. Color: Taupe.
- F. Keystones:
  - Nominal Size: 8 1/2 inches by 10 inches by 1 7/8 inches (216 mm by 254 mm by 48 mm).
  - 2. Color: Champagne.
  - 3. Color: Gray.
  - 4. Color: Nightfall.
  - 5. Color: Sable.
  - 6. Color: Taupe.
- G. Tuscan Lintels:
  - Nominal Size: 22 inches by 6 inches by 2 5/8 inches (559 mm by 152 mm by 67 mm).
  - 2. Color: Champagne.
  - 3. Color: Gray.
  - 4. Color: Nightfall.
  - 5. Color: Sable.
  - 6. Color: Taupe.
- H. Watertable/Sill Rock Face Texture:
  - Nominal Size: 2 inches front, 2 1/2 inches back, by 3 inches by 18 inches (51 mm front, 64 mm back by 76 mm by 455 mm).
  - 2. Color: Champagne.
  - 3. Color: Gray.
  - 4. Color: Nightfall.
  - 5. Color: Sable.
  - 6. Color: Taupe.
  - 7. Provide sloped top surface & drip edge.
- I. Watertable/Sill Cast-Fit Texture:
  - 1. Nominal Size: 2 1/2 inches by 20 inches (63 mm by 500 mm).
  - 2. Color: Carbon
  - 3. Color: French Gray
  - 4. Color: Intaglio
  - 5. Color: Vellum
  - 6. Color: Parchment

- J. Light Fixture Stones:
  - Nominal Size: 8 inches by 10 inches by 1 7/8 inches (203 mm by 254 mm by 47 mm).
  - Nominal Size: 9 1/2 inches by 15 inches by 1 7/8 inches (242 mm by 381 mm by 47 mm).
  - 3. Nominal Size: As shown on Contract Drawings.
  - 4. Color: Gray.
  - 5. Color: Nightfall.
  - 6. Color: Sable.
  - 7. Color: Taupe.
  - Provide 4 inch by 1 1/2 inch (102 mm by 38 mm) UL approved metal octagon extension box.

- K. Receptacle Stones:
  - Single Receptacle Nominal Size: 6 inches by 8 inches by 1 7/8 inches (152 mm by 203 mm by 48mm)
  - 2. Color: Gray.
  - 3. Color: Nightfall.
  - 4. Color: Sable.
  - 5. Color: Taupe.
  - Electrical Box: 4 inch by 1 1/2 inch (102 mm by 38 mm) UL approved metal octagon extension box supplied by others.

## COORDINATING COLOR GUIDE

	ACCESSORIES	HEARTHSTONES
ANCIENT VILLA LEDGESTONE™		
PALISADES	CARBON, FRENCH GRAY™, GRAY, SABLE, TAUPE	GRAY, MARSH, SABLE
SEVILLA™	FRENCH GRAY™, SABLE, TAUPE	CHARDONNAY, MARSH, SABLE
CAST-FIT®		
CARBON	CARBON, GRAY, INTAGLIO	GRAY
FRENCH GRAY™	FRENCH GRAY™, TAUPE	MARSH
PARCHMENT™	CHAMPAGNE, PARCHMENT™	CREAM
CULTURED <sup>®</sup> BRICK <sup>®</sup>		
ANTIQUE RED USED BRICK	FRENCH GRAY™, TAUPE	CHARDONNAY, MARSH
HIGH DESERT USED BRICK	FRENCH GRAY™, TAUPE	CHARDONNAY, MARSH
CANVAS™ HANDMADE BRICK	FRENCH GRAY™, TAUPE	CHARDONNAY, MARSH
CARBON HANDMADE BRICK	CARBON, GRAY, INTAGLIO	GRAY
MOROCCAN SAND HANDMADE BRICK	FRENCH GRAY™, TAUPE	CHARDONNAY, MARSH
TITANIUM™ HANDMADE BRICK	FRENCH GRAY™, TAUPE	CHARDONNAY, MARSH
COBBLEFIELD®		
CHARDONNAY	FRENCH GRAY™, TAUPE	CHARDONNAY, MARSH
ECHO RIDGE®	CARBON, GRAY, INTAGLIO, NIGHTFALL™	GRAY, NIGHTFALL™
GRAY	GRAY, INTAGLIO	GRAY
SAN FRANCISCO	FRENCH GRAY™, GRAY, NIGHTFALL™, TAUPE	GRAY, NIGHTFALL™
TEXAS CREAM	CHAMPAGNE, PARCHMENT™	CREAM
TEXAS CREAM CORAL STONE	CHAMPAGNE, PARCHMENT™	CREAM
	CHAMPAGNE, PARCHMENT™ CHAMPAGNE, PARCHMENT™	CREAM
CORAL STONE		
CORAL STONE FOSSIL REEF		
CORAL STONE FOSSIL REEF COUNTRY LEDGESTONE	CHAMPAGNE, PARCHMENT*	CREAM
CORAL STONE FOSSIL REEF COUNTRY LEDGESTONE ASHFALL ASPEN BLACK RUNDLE	CHAMPAGNE, PARCHMENT™ FRENCH GRAY™, GRAY, INTAGLIO, TAUPE FRENCH GRAY™, TAUPE GRAY, NIGHTFALL™	GRAY, MARSH GRAY, MARSH GRAY, NIGHTFALL <sup>®</sup>
CORAL STONE FOSSIL REEF COUNTRY LEDGESTONE ASHFALL ASPEN	CHAMPAGNE, PARCHMENT™ FRENCH GRAY™, GRAY, INTAGLIO, TAUPE FRENCH GRAY™, TAUPE	GRAY, MARSH
CORAL STONE FOSSIL REEF COUNTRY LEDGESTONE ASHFALL ASPEN BLACK RUNDLE BUCKS COUNTY CARAMEL	CHAMPAGNE, PARCHMENT" FRENCH GRAY", GRAY, INTAGLIO, TAUPE FRENCH GRAY", TAUPE GRAY, NIGHTFALL" FRENCH GRAY", GRAY, TAUPE FRENCH GRAY", TAUPE	GRAY, MARSH GRAY, MARSH GRAY, NIGHTFALL <sup>™</sup> GRAY, MARSH BLOND, MARSH
CORAL STONE FOSSIL REEF COUNTRY LEDGESTONE ASHFALL ASPEN BLACK RUNDLE BUCKS COUNTY CARAMEL CHARDONNAY	CHAMPAGNE, PARCHMENT" FRENCH GRAY", GRAY, INTAGLIO, TAUPE FRENCH GRAY", TAUPE GRAY, NIGHTFALL" FRENCH GRAY", TAUPE FRENCH GRAY", TAUPE FRENCH GRAY", TAUPE	GRAY, MARSH GRAY, MARSH GRAY, NIGHTFALL <sup>®</sup> GRAY, MARSH BLOND, MARSH CHARDONNAY, MARSH
CORAL STONE FOSSIL REEF COUNTRY LEDGESTONE ASHFALL ASPEN BLACK RUNDLE BUCKS COUNTY CARAMEL	CHAMPAGNE, PARCHMENT" FRENCH GRAY", GRAY, INTAGLIO, TAUPE FRENCH GRAY", TAUPE GRAY, NIGHTFALL" FRENCH GRAY", GRAY, TAUPE FRENCH GRAY", TAUPE	GRAY, MARSH GRAY, MARSH GRAY, NIGHTFALL <sup>™</sup> GRAY, MARSH BLOND, MARSH
CORAL STONE FOSSIL REEF COUNTRY LEDGESTONE ASHFALL ASPEN BLACK RUNDLE BUCKS COUNTY CARAMEL CHARDONNAY	CHAMPAGNE, PARCHMENT* FRENCH GRAY*, GRAY, INTAGLIO, TAUPE FRENCH GRAY*, TAUPE GRAY, NIGHTFALL* FRENCH GRAY*, GRAY, TAUPE FRENCH GRAY*, TAUPE FRENCH GRAY*, TAUPE CARBON, GRAY, INTAGLIO,	GRAY, MARSH GRAY, MARSH GRAY, NIGHTFALL* GRAY, MARSH BLOND, MARSH CHARDONNAY, MARSH
CORAL STONE FOSSIL REEF COUNTRY LEDGESTONE ASHFALL ASPEN BLACK RUNDLE BUCKS COUNTY CARAMEL CHARDONNAY ECHO RIDGE®	CHAMPAGNE, PARCHMENT* FRENCH GRAY*, GRAY, INTAGLIO, TAUPE FRENCH GRAY*, TAUPE GRAY, NIGHTFALL* FRENCH GRAY*, GRAY, TAUPE FRENCH GRAY*, TAUPE FRENCH GRAY*, TAUPE CARBON, GRAY, INTAGLIO, NIGHTFALL*	CREAM GRAY, MARSH GRAY, MARSH GRAY, NIGHTFALL <sup>®</sup> GRAY, MARSH BLOND, MARSH CHARDONNAY, MARSH GRAY, NIGHTFALL <sup>®</sup>
CORAL STONE FOSSIL REEF COUNTRY LEDGESTONE ASHFALL ASPEN BLACK RUNDLE BUCKS COUNTY CARAMEL CHARDONNAY ECHO RIDGE® GRAND MESA	CHAMPAGNE, PARCHMENT* FRENCH GRAY*, GRAY, INTAGLIO, TAUPE FRENCH GRAY*, TAUPE GRAY, NIGHTFALL* FRENCH GRAY*, GRAY, TAUPE FRENCH GRAY*, TAUPE FRENCH GRAY*, TAUPE CARBON, GRAY, INTAGLIO, NIGHTFALL* TAUPE	CREAM GRAY, MARSH GRAY, MARSH GRAY, NIGHTFALL <sup>™</sup> GRAY, MARSH BLOND, MARSH CHARDONNAY, MARSH GRAY, NIGHTFALL <sup>™</sup> MARSH
CORAL STONE FOSSIL REEF COUNTRY LEDGESTONE ASHFALL ASPEN BLACK RUNDLE BUCKS COUNTY CARAMEL CHARDONNAY ECHO RIDGE® GRAND MESA GUNNISON"	CHAMPAGNE, PARCHMENT* FRENCH GRAY*, GRAY, INTAGLIO, TAUPE FRENCH GRAY*, TAUPE GRAY, NIGHTFALL* FRENCH GRAY*, TAUPE FRENCH GRAY*, TAUPE CARBON, GRAY, INTAGLIO, NIGHTFALL* TAUPE GRAY, NIGHTFALL* FRENCH GRAY*, SABLE, TAUPE FRENCH GRAY*, TAUPE	CREAM GRAY, MARSH GRAY, MARSH GRAY, MIGHTFALL <sup>®</sup> GRAY, MARSH BLOND, MARSH CHARDONNAY, MARSH GRAY, NIGHTFALL <sup>®</sup> MARSH GRAY, NIGHTFALL <sup>®</sup>
CORAL STONE FOSSIL REEF COUNTRY LEDGESTONE ASHFALL ASPEN BLACK RUNDLE BUCKS COUNTY CARAMEL CHARDONNAY ECHO RIDGE® GRAND MESA GUNNISON™ HUDSON BAY® MOJAVE SEVILLA*	CHAMPAGNE, PARCHMENT* FRENCH GRAY*, GRAY, INTAGLIO, TAUPE FRENCH GRAY*, TAUPE GRAY, NIGHTFALL* FRENCH GRAY*, TAUPE FRENCH GRAY*, TAUPE CARBON, GRAY, INTAGLIO, NIGHTFALL* TAUPE GRAY, NIGHTFALL* FRENCH GRAY*, SABLE, TAUPE FRENCH GRAY*, SABLE, TAUPE FRENCH GRAY*, SABLE, TAUPE	CREAM GRAY, MARSH GRAY, MARSH GRAY, MARSH GRAY, NIGHTFALL <sup>®</sup> GRAY, MARSH CHARDONNAY, MARSH GRAY, NIGHTFALL <sup>®</sup> CHARDONNAY, MARSH, SABLE BLOND, MARSH CHARDONNAY, MARSH, SABLE
CORAL STONE FOSSIL REEF COUNTRY LEDGESTONE ASHFALL ASPEN BLACK RUNDLE BUCKS COUNTY CARAMEL CHARDONNAY ECHO RIDGE® GRAND MESA GUNNISON" HUDSON BAY® MOJAVE	CHAMPAGNE, PARCHMENT* FRENCH GRAY*, GRAY, INTAGLIO, TAUPE FRENCH GRAY*, TAUPE GRAY, NIGHTFALL* FRENCH GRAY*, TAUPE FRENCH GRAY*, TAUPE CARBON, GRAY, INTAGLIO, NIGHTFALL* TAUPE GRAY, NIGHTFALL* FRENCH GRAY*, SABLE, TAUPE FRENCH GRAY*, TAUPE	CREAM GRAY, MARSH GRAY, MARSH GRAY, MIGHTFALL <sup>®</sup> GRAY, MIGHTFALL <sup>®</sup> CHARDONNAY, MARSH GRAY, NIGHTFALL <sup>®</sup> GRAY, NIGHTFALL <sup>®</sup> CHARDONNAY, MARSH, SABLE BLOND, MARSH
CORAL STONE FOSSIL REEF COUNTRY LEDGESTONE ASHFALL ASPEN BLACK RUNDLE BUCKS COUNTY CARAMEL CHARDONNAY ECHO RIDGE® GRAND MESA GUNNISON™ HUDSON BAY® MOJAVE SEVILLA"	CHAMPAGNE, PARCHMENT"  FRENCH GRAY", GRAY, INTAGLIO, TAUPE  FRENCH GRAY", GRAY, INTAGLIO, GRAY, NIGHTFALL"  FRENCH GRAY", GRAY, TAUPE  FRENCH GRAY", TAUPE  FRENCH GRAY", TAUPE  CARBON, GRAY, INTAGLIO, NIGHTFALL"  TAUPE  GRAY, NIGHTFALL"  FRENCH GRAY", SABLE, TAUPE  FRENCH GRAY", SABLE, TAUPE	CREAM GRAY, MARSH GRAY, MARSH GRAY, MARSH GRAY, NIGHTFALL <sup>®</sup> GRAY, MARSH CHARDONNAY, MARSH GRAY, NIGHTFALL <sup>®</sup> CHARDONNAY, MARSH, SABLE BLOND, MARSH CHARDONNAY, MARSH, SABLE
CORAL STONE FOSSIL REEF COUNTRY LEDGESTONE ASHFALL ASPEN BLACK RUNDLE BUCKS COUNTY CARAMEL CHARDONNAY ECHO RIDGE® GRAND MESA GUNNISON <sup>™</sup> HUDSON BAY® MOJAVE SEVILLA <sup>™</sup>	CHAMPAGNE, PARCHMENT" FRENCH GRAY", GRAY, INTAGLIO, TAUPE FRENCH GRAY", TAUPE GRAY, NIGHTFALL" FRENCH GRAY", TAUPE FRENCH GRAY", TAUPE CARBON, GRAY, INTAGLIO, NIGHTFALL" TAUPE GRAY, NIGHTFALL" FRENCH GRAY", SABLE, TAUPE FRENCH GRAY", NIGHTFALL",	CREAM GRAY, MARSH GRAY, MARSH GRAY, NIGHTFALL" GRAY, MARSH BLOND, MARSH CHARDONNAY, MARSH GRAY, NIGHTFALL" MARSH GRAY, NIGHTFALL" CHARDONNAY, MARSH, SABLE BLOND, MARSH CHARDONNAY, MARSH, SABLE GRAY, MARSH
CORAL STONE FOSSIL REEF COUNTRY LEDGESTONE ASHFALL ASPEN BLACK RUNDLE BUCKS COUNTY CARAMEL CHARDONNAY ECHO RIDGE® GRAND MESA GUNNISON <sup>™</sup> HUDSON BAY® MOJAVE SEVILLA <sup>™</sup> SKYLINE UMBER CREEK	CHAMPAGNE, PARCHMENT" FRENCH GRAY", GRAY, INTAGLIO, TAUPE FRENCH GRAY", TAUPE GRAY, NIGHTFALL" FRENCH GRAY", TAUPE FRENCH GRAY", TAUPE CARBON, GRAY, INTAGLIO, NIGHTFALL" TAUPE GRAY, NIGHTFALL" FRENCH GRAY", SABLE, TAUPE FRENCH GRAY", SABLE, TAUPE FRENCH GRAY", SABLE, TAUPE FRENCH GRAY", GRAY, INTAGLIO, TAUPE FRENCH GRAY", NIGHTFALL", SABLE, TAUPE	CREAM GRAY, MARSH GRAY, MARSH GRAY, MARSH GRAY, NIGHTFALL <sup>®</sup> GRAY, MARSH CHARDONNAY, MARSH GRAY, NIGHTFALL <sup>®</sup> CHARDONNAY, MARSH, SABLE BLOND, MARSH CHARDONNAY, MARSH, SABLE GRAY, MIGHTFALL <sup>®</sup> , SABLE

	ACCESSORIES	HEARTHSTONES
DEL MARE LEDGESTONE®		
BLACK ISLE™	NIGHTFALL™	GRAY, NIGHTFALL™
BURNT OCHRE	FRENCH GRAY™, SABLE, TAUPE	BLOND, MARSH, SABLE
PALERMO	FRENCH GRAY™, SABLE, TAUPE	BLOND, MARSH, SABLE
DRESSED FIELDSTONE		
ASPEN	FRENCH GRAY™, TAUPE	GRAY, MARSH
BUCKS COUNTY	FRENCH GRAY™, GRAY, TAUPE	GRAY, MARSH
CHARDONNAY	FRENCH GRAY™, TAUPE	CHARDONNAY, MARSH
ECHO RIDGE®	CARBON, GRAY, INTAGLIO, NIGHTFALL™	GRAY, NIGHTFALL™
SEVILLA™	FRENCH GRAY™, SABLE, TAUPE	CHARDONNAY, MARSH, SABLE
DRYSTACK LEDGESTONE PANE	L	
HIGH PLAINS™	CHAMPAGNE, PARCHMENT™	CREAM
MELROSE™	CHAMPAGNE, PARCHMENT™ TAUPE	CREAM
RUBICON™	GRAY, NIGHTFALL™	GRAY, NIGHTFALL™
EUROPEAN CASTLE STONE		
BUCKS COUNTY	FRENCH GRAY™, GRAY, TAUPE	GRAY, MARSH
CHARDONNAY	FRENCH GRAY™, TAUPE	CHARDONNAY, MARSH
HEWN STONE		
ARCTIC	CHAMPAGNE	CREAM
FOUNDATION	VELLUM	CREAM
SPAN	CARBON, FRENCH GRAY™	GRAY
TALUS	CARBON, INTAGLIO, VELLUM	CREAM, MARSH
LIMESTONE		
BUCKS COUNTY	FRENCH GRAY™, GRAY, TAUPE	GRAY, MARSH
CHARDONNAY	FRENCH GRAY™, TAUPE	CHARDONNAY, MARSH
GOLDEN BUCKEYE	TAUPE	MARSH
OLD COUNTRY FIELDSTONE		
CHARDONNAY	FRENCH GRAY™, TAUPE	CHARDONNAY, MARSH
ECHO RIDGE®	CARBON, GRAY, INTAGLIO, NIGHTFALL™	GRAY, NIGHTFALL™
PRO-FIT® ALPINE LEDGESTONE		
BLACK MOUNTAIN®	GRAY, INTAGLIO, NIGHTFALL™	GRAY, NIGHTFALL™
BLACK RUNDLE	GRAY, NIGHTFALL™	GRAY, NIGHTFALL™
CHARDONNAY	FRENCH GRAY™, TAUPE	CHARDONNAY, MARSH
DARK RIDGE™	GRAY, NIGHTFALL™	GRAY, NIGHTFALL™
ECHO RIDGE®	CARBON, GRAY, INTAGLIO, NIGHTFALL™	GRAY, NIGHTFALL™
SUMMIT PEAK	FRENCH GRAY™, TAUPE, VELLUM	GRAY, MARSH
PHEASANT	CARBON, GRAY	GRAY
UMBER CREEK	FRENCH GRAY™, NIGHTFALL™, SABLE, TAUPE	MARSH, NIGHTFALL™, SABLE
WINTERHAVEN™	CHAMPAGNE, PARCHMENT™, VELLUM	CREAM

	ACCESSORIES	HEARTHSTONES		ACCESSORIES	HEARTHSTONES	
PRO-FIT® LEDGESTONE			SOUTHERN LEDGESTONE			
GRAY	GRAY, INTAGLIO	GRAY	ASPEN	FRENCH GRAY™, TAUPE	GRAY, MARSH	
MOJAVE	FRENCH GRAY™, TAUPE	BLOND, MARSH	BUCKS COUNTY	FRENCH GRAY™, GRAY, TAUPE	GRAY, MARSH	
PLATINUM	CHAMPAGNE, GRAY, PARCHMENT™	CREAM, GRAY	CHARDONNAY	FRENCH GRAY™, TAUPE	CHARDONNAY, MARSH	
SHALE	FRENCH GRAY <sup>™</sup> , GRAY, INTAGLIO,	GRAY, MARSH	ECHO RIDGE®	CARBON, GRAY, INTAGLIO, NIGHTFALL™	GRAY, NIGHTFALL™	
	TAUPE		GRAY	GRAY, INTAGLIO	GRAY	
SOUTHWEST BLEND	CHAMPAGNE, PARCHMENT™	CREAM, BLOND	WOLF CREEK®	FRENCH GRAY™, NIGHTFALL™, SABLE, TAUPE	MARSH, NIGHTFALL <sup>™</sup> , SABLE	
PRO-FIT <sup>®</sup> MODERA LEDGES	STONE		SCULPTED ASHLAR			
CARBON	CARBON	GRAY, NIGHTFALL™	ECHO RIDGE®	CARBON, GRAY, INTAGLIO,	GRAY. NIGHTFALL™	
INTAGLIO	INTAGLIO	GRAY, MARSH		NIGHTFALL <sup>™</sup>		
VELLUM	VELLUM	CREAM	SILVER SHORE	CHAMPAGNE, VELLUM	CREAM	
PRO-FIT <sup>®</sup> TERRAIN <sup>™</sup> LEDGE	STONE		GROUSE	CHAMPAGNE, VELLUM, TAUPE, FRENCH GRAY™	CREAM, MARSH	
ARCADIA	CARBON, GRAY	GRAY	FERROUS	CARBON, NIGHTFALL™, SABLE	NIGHTFALL. SABLE	
ARCTIC	CHAMPAGNE	CREAM		CARBON, MIGHTIALE, SABLE	NIGHTIAEL, SABEL	
ETHOS	INTAGLIO	CREAM, MARSH	STREAM STONE			
TREK	NIGHTFALL™	NIGHTFALL™	SPRING	GRAY, TAUPE	GRAY, MARSH	
RIVER ROCK			SUMMER	CHAMPAGNE, TAUPE	BLOND, MARSH	
EARTH BLEND	TAUPE	BLOND, MARSH	TEXTURED CAST-FIT®			
LAKE TAHOE	GRAY, TAUPE	GRAY	STANHOPE™	GRAY, FRENCH GRAY™, SABLE	GRAY, SABLE	
LAKESHORE	TAUPE	BLOND, CREAM, MARSH				

	HEIGHT	LENGTH	THICKNESS	CORNER RETURNS		HEIGHT	LENGTH	THICKNESS	CORNER RETURN
ASHLAR					RANDOM ASHLAR				
CAST-FIT® 8" x 16"	7 5/8"	15 5/8"	1 <sup>1</sup> / <sub>2</sub> "	3 5/8", 9 1/8"	COBBLEFIELD®	2" - 8"	4" - 20"	1" - 2 <sup>5</sup> /8"	3" - 12"
CAST-FIT® 12" x 24"	11 5/8"	23 5/8"	1 1/2"	3 5/8", 11 5/8"	CORAL STONE	4" - 12"	4" - 16"	1" - 1 1/4"	2 1/2" - 8 1/2"
TEXTURED CAST-FIT® 12" x 24"	11 <sup>5</sup> /8"	23 5/8"	1 1/2"	3 5/8", 11 5/8"	EUROPEAN CASTLE STONE	2" - 12"	4" - 16"	1 <sup>3</sup> /s" - 1 <sup>5</sup> /s"	4" - 12"
BRICK					HEWN STONE™ 308	3"	8"	1 1/2"	3*, 7*
HANDMADE CULTURED BRICK®	2 3/4"	8 3/16"	3/4"	3 5/8", 8 1/4"	HEWN STONE™ 314	3"	14"	1 1/2"	3*, 7*
JSED BRICK	2 3/8" - 2 5/8"	7 7/8" - 8 1/8"	3/4"	4", 8"	HEWN STONE™ 514	5*	14"	1 1/2"	3", 10"
FIELD					HEWN STONE <sup>™</sup> 522	5*	22"	1 1/2"	3", 10"
DRESSED FIELDSTONE	2 <sup>1</sup> / <sub>2</sub> " - 14"	4" - 22"	1 1/4" - 2 5/8"	4" - 12"	HEWN STONE <sup>™</sup> 822	8*	22"	1 1/2"	3", 10"
OLD COUNTRY FIELDSTONE	1 1/2" - 10"	4" - 16 1/2"	1" - 2 5/8"	4" - 12"	LIMESTONE	1 1/4" - 6"	$4^{*} - 16^{-3}/_{4}^{*}$	$1 \frac{1}{2} - 2 \frac{5}{8}$	4" - 11"
LEDGE					SCULPTED ASHLAR	2 1/4" - 7 3/4"	5 <sup>1</sup> / <sub>2</sub> " - 20 <sup>1</sup> / <sub>2</sub> "	1" - 2"	4", 7", 10"
ANCIENT VILLA LEDGESTONE™	2" - 12"	5" - 16"	$1^{1/4} - 1^{3/4}$	4" - 12"	ROUNDED				
COUNTRY LEDGESTONE	1 1/2" - 6 1/2"	4 1/4" - 22"	$1^{1}/s$ " - $2^{3}/s$ "	4" - 12"	RIVER ROCK	2" - 14"	2" - 14"	1" - 2 5/8"	3" - 12"
DEL MARE LEDGESTONE®	1" - 9 1/4"	4 1/2" - 16"	3/4" - 1 3/4"	4" - 12"	STREAM STONE	2" - 12"	2" - 12"	1 1/2" - 3 1/2"	4" - 9 1/4"
DRYSTACK LEDGESTONE PANEL	6"	20", 24"	1" - 2 1/2"	4 1/4", 8 1/4", 12 1/4"					
PRO-FIT® ALPINE LEDGESTONE	4"	8", 12", 20"	3/4" - 2 $1/4$ "	4", 8", 12"					
PRO-FIT® LEDGESTONE	4"	8", 12", 20"	1/2" - 1 1/2"	4", 8", 12"					
PRO-FIT® MODERA™ LEDGESTONE	4"	8", 12", 20"	<sup>3</sup> /4", 1 <sup>1</sup> /4", 1 <sup>3</sup> /4"	4", 8", 12"					
PRO-FIT® TERRAIN™ LEDGESTONE	4"	8", 12", 20"	<sup>3</sup> /4", 1 <sup>1</sup> /4", 1 <sup>3</sup> /4"	4", 8", 12"					
SOUTHERN LEDGESTONE	1/2" - 6"	4" - 20"	1" - 2 5/8"	4" - 12"					

## We've designed our Cultured Transitions™ architectural accents to complement our textures and colors beautifully. Use the chart below as a

STONE VENEER DIMENSIONS\*

#### **PART 3 EXECUTION**

#### 3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared in conformance with ASTM C 1780 for the backup wall system indicated on the Drawings.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

#### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

#### 3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Install manufactured stone masonry veneer in accordance with NCMA Installation Guide for Adhered Manufactured Stone Veneer, ASTM C 1780 and applicable Codes.
- C. Install/Apply Related Materials in accordance with type of substrate and manufactured stone veneer manufacture's installation instructions.
- D. General:
  - 1. Walls: Provide with Single Color and Texture throughout.
  - 2. Walls: Provide with Blended Color / Texture specified.
  - 3. Special Shapes: Color to match stones specified.
    - a. Provide Stones manufactured specifically for installation at corners where located on the Drawings.
    - b. Install Quoins on corners as indicated on the Drawings.
  - 4. Mortar Joints
    - a. Style:
      - 1) Tight Fit joints.
      - 2) Standard 1/2 inch tooled
      - 3) Wide joint
      - 4) Wide Overgrout
    - b. Strike all grout joints flush.
    - c. Tool all grout joints.
    - d. Overgrout all grout joints.
  - 5. Stone Direction:
    - a. Random placement
    - b. Horizontal placement
    - c. Vertical placement
  - 6. Windows, Doors & Wall Openings:
    - a. Butt field stones to wall opening.
    - b. Install specified trim stones where located on the Contract Drawings.
  - 7. Sills: Install Sills where located on the Drawings.
  - 8. Caps: Install Capstones where located on the Drawings.
- E. Seal all joints at wall openings and penetrations with a sealant approved for use with masonry products.
- F. Flashing: Coordinate with Flashings specified in Section 07 62 00 Sheet Metal Flashing and Trim.
- G. Rainscreen: Coordinate with Rainscreens specified in Section 07 27 00 Air Barriers.

#### 3.4 FIELD QUALITY CONTROL

A. Manufacturer's Field Services: Provide periodic site visits as requested by Architect. Report any discrepancies to the Contractor with copies to the Architect within 24 hours of each visit.

#### 3.5 CLEANING

A. Clean manufactured masonry in accordance with manufacturer's installation instructions

#### 3.6 PROTECTION

- A. Protect finished work from rain and work on either side of the wall during and for 48 hours following installation.
- B. Protect installed products until completion of project.
- C. Clean prior to project closeout.
- D. Touch-up, repair or replace damaged products before Substantial Completion.

#### **END OF SECTION**

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Compliance with International Codes
 Compliance with State Codes

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#### ICC-ES Evaluation Report ESR-1364

DIVISION: 04 00 00—MASONRY Section: 04 71 00—Manufactured Brick Masonry Section: 04 73 00—Manufactured Stone Masonry

#### **REPORT HOLDER:**

#### BORAL STONE PRODUCTS, LLC

#### **EVALUATION SUBJECT:**

CULTURED STONE<sup>®</sup>, CULTURED BRICK<sup>®</sup> AND PROSTONE<sup>®</sup>

#### 1.0 EVALUATION SCOPE

- 1.1 Compliance with the following codes:
- 2015 International Building Code<sup>®</sup> (IBC)
- 2015 International Residential Code<sup>®</sup> (IRC)
- Other Codes (see Section 8.0)

#### **Properties evaluated:**

- Interior finish and trim classification
- Thermal resistance
- Veneer strength and durability

### 1.2 Evaluation to the following green code(s) and/or standards:

- 2019 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2020, 2015, 2012 and 2008 ICC 700 *National Green Building Standard*<sup>™</sup> (ICC 700-2020, ICC 700-2015, ICC 700-2012 and ICC 700-2008)

#### Attributes verified:

See Section 3.0

#### 2.0 USES

Cultured Stone<sup>®</sup>, Cultured Brick<sup>®</sup> and ProStone<sup>®</sup> are used as adhered, non-load-bearing exterior veneer or as an interior finish and trim on wood or light gage steel stud framing, concrete or masonry walls.

#### 3.0 DESCRIPTION

Cultured Stone<sup>®</sup>, Cultured Brick<sup>®</sup> and ProStone<sup>®</sup> are precast concrete products made to resemble natural stone or brick. The stone veneer is made from cement, aggregate, water, admixtures and mineral oxide colors.

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Reissued October 2021

This report is subject to renewal October 2022.

The average saturated veneer weight does not exceed 15 pounds per square foot (73.2 kg/m<sup>2</sup>). See Table 1 for recognized styles.

The stone veneer has a Class A (Class I) finish rating in accordance with IBC Section 803.1.1, and complies with the flame-spread and smoke-development requirements of IRC Section R302.9. Additionally, the stone veneer has an R-value of 0.355 when tested at a thickness of 1.0 inch (25.4 mm) in accordance with ASTM C177.

The attributes of the stone veneer have been verified as conforming to the requirements of (i) CALGreen Section A4.405.1.3 for prefinished building materials and Section A5.406.1.2 for reduced maintenance; (ii) ICC 700-2015 and ICC 700-2012 Section 602.1.6 for termite-resistant materials; (iii) ICC 700-2020 Sections 601.7 and 11.601.7 and ICC 700-2015 and ICC 700-2012 Sections 601.7, 11.601.7, and 12.1(A).601.7 for site-applied finishing materials; and (iv) ICC 700-2008 Section 602.8 for termiteresistant materials and Section 601.7 for site-applied finishing materials. Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

#### 4.0 INSTALLATION

#### 4.1 General:

Installation of the stone veneer must comply with this report, the manufacturer's published installation instructions, and the applicable code. The manufacturer's published installation instructions must be available at the jobsite at all times during installation. The stone veneer is installed over a lath and mortar scratch coat, or applied directly to concrete or masonry, as described in Sections 4.2 and 4.3 of this report, respectively.

### 4.2 Installation over a Lath and Mortar Scratch Coat Over Framed Walls:

The scratch coat must be installed over a water-resistive barrier complying with IBC Section 1405.10.1.1 or IRC Section R703.12.3, as applicable. Also, flashing must be installed as required by IBC Section 1405.10.1.2 or IRC Sections R703.4 and R703.12.2, as applicable, including a foundation weep screed installed at the bottom of the stone veneer. The foundation weep screed must comply with, and be installed in accordance with, the requirements for

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flashing at foundation shown in IBC Section 1405.10.1.2.1 or IRC Section R703.12.2, as applicable. The veneer must be installed with the clearances required by IBC Section 1405.10.1.3 or IRC Section R703.12.1, as applicable.

Lathing must comply with IBC Section 2510 (referenced from IBC Section 1405.10.1.4.1) or IRC Section R703.7.1 (referenced from IRC Section R703.12). The scratch coat must be applied in accordance with IBC Section 1405.10.1.4.2, and the veneer units must be adhered to the scratch coat in accordance with IBC Section 1405.10.1.4.3. The mortar used to adhere the veneer units to the scratch coat must comply with IBC Section 2103.2.4.

#### 4.3 Installation over Concrete and Masonry:

Installation over concrete and masonry must comply with IBC Section 1405.10.1.5. When adhering the veneer units directly to the concrete or masonry, the supporting surfaces must be prepared in accordance with IBC Section 2510.7, and the veneer units must be adhered to the supporting surface as described in Section 4.2. When adhering the veneer units to a lath and mortar scratch coat, the lathing and scratch coat preparation must comply with Section 4.2.

#### 5.0 CONDITIONS OF USE

The Cultured Stone<sup>®</sup>, Cultured Brick<sup>®</sup> and ProStone<sup>®</sup> veneers described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- **5.1** Installation must comply with this report, the manufacturer's published installation instructions and the applicable code. In the event of a conflict between the manufacturer's published installation instructions and this report, the most severe requirements govern.
- **5.2** Expansion or control joints used to limit the effect of differential movement of supports must be specified by the architect, designer or stone veneer manufacturer, in that order. Consideration must also be given to movement caused by temperature change, shrinkage, creep and deflection.
- **5.3** In jurisdictions adopting the IBC, the supporting wall framing must be designed to support the installed weight of the veneer system, including veneer, setting bed and scratch coat, as applicable. At wall openings, the supporting members must be designed to limit deflection to  $1/_{600}$  of the span of the supporting members.
- **5.4** 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 veneer system, must be determined. When this weight exceeds the applicable limits of IRC Section R301.2.2.2.1, an engineered design of the wall construction must be performed in accordance with IRC Section R301.1.3.
- 5.5 Cultured Stone<sup>®</sup>, Cultured Brick<sup>®</sup> and ProStone<sup>®</sup> are manufactured under a quality control program with inspections by ICC-ES.

#### 6.0 EVIDENCE SUBMITTED

- **6.1** Data in accordance with the ICC-ES Acceptance Criteria for Precast Stone Veneer (AC51), dated January 2016.
- 6.2 Reports of testing in accordance with ASTM C177.
- 6.3 Reports of testing in accordance with ASTM E84.

#### 7.0 IDENTIFICATION

**7.1** The Cultured Stone<sup>®</sup> described in this report is identified by the initials "C.S.V." cast into the side of each piece of stone.

The packaging of the Cultured Stone<sup>®</sup>, Cultured Brick<sup>®</sup> and ProStone<sup>®</sup> products includes a stamp bearing the manufacturer's name, the product name, the manufacturing plant location, the product code and the evaluation report number (ESR-1364).

**7.2** The report holder's contact information is the following:

BORAL STONE PRODUCTS, LLC 200 MANSELL COURT EAST, SUITE 3 ROSWELL, GEORGIA 30076 (770) 645-4500 www.culturedstone.com

#### 8.0 OTHER CODES

#### 8.1 Evaluation Scope:

In addition to the codes referenced in Section 1.0, the products described in this report were evaluated for compliance with the following codes:

- 2012, 2009 and 2006 International Building Code<sup>®</sup> (IBC)
- 2012, 2009 and 2006 International Residential Code<sup>®</sup> (IRC)

The Cultured Stone<sup>®</sup>, Cultured Brick<sup>®</sup> and ProStone<sup>®</sup> products described in this report comply with, or are suitable alternatives to what is specified in, the codes listed above, subject to the provisions of Sections 8.2 through 8.7.

#### 8.2 Uses:

See Section 2.0.

#### 8.3 Description:

See the first paragraph of Section 3.0 and the following: The precast veneer has a Class A finish rating in accordance with 2012 and 2009 IBC Section 8.3.1.1 (2006 IBC Section 803.1) and complies with the flame-spread and smoke-development requirements of 2012 and 2009 IRC Section R302.9 (2006 IRC Section R315). The stone veneer has an *R*-value of 0.355 when tested in accordance with ASTM C177 at an average thickness of 1.0 inches (25.4 mm).

#### 8.4 Installation:

Cultured Stone<sup>®</sup>, Cultured Brick<sup>®</sup> and ProStone<sup>®</sup> must be installed in accordance with the 2015 IBC and IRC, as described in Section 4.0.

#### 8.5 Conditions of Use:

See Section 5.0.

- 8.6 Evidence Submitted:
- See Section 6.0.
- 8.7 Identification:

See Section 7.0.

PRODUCT NAME	PATTERNS
Ancient Villa Ledgestone, Cast-Fit 12x24, Cast-Fit 8 x16, Cobblefield, Coral Stone, Country Ledge Mare Ledgestone, Dressed Fieldstone, Drystack Ledgestone, European Castle Stone, Hewn Stor Hewn Stone 314, Hewn Stone 514, Hewn Stone 522, Hewn Stone 822, Limestone, Old Country F Pro-Fit Alpine Ledgestone, Pro-Fit Ledgestone, Pro-Fit Modera Ledgestone, Pro-Fit Terrain Ledg Rock, Rockface, Southern Ledgestone, Split Face, Stream Stone	
Cultured Brick®	Handmade Brick, Used Brick
ProStone®	Aged Ledgestone, Carolina Collection Ledgestone, Easy Fit Savannah Ledgestone, Field Rubble, Fieldstone, Ledgestone, River Rock, Rough Ledge, Tuscan Cobble

#### TABLE 1—RECOGNIZED STYLES



#### **ICC-ES Evaluation Report**

#### ESR-1364 CBC and CRC Supplement

Reissued October 2021 This report is subject to renewal October 2022.

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DIVISION: 04 00 00—MASONRY Section: 04 71 00—Manufactured Brick Masonry Section: 04 73 00—Manufactured Stone Masonry

**REPORT HOLDER:** 

**BORAL STONE PRODUCTS, LLC** 

#### **EVALUATION SUBJECT:**

#### CULTURED STONE®, CULTURED BRICK® AND PROSTONE®

#### 1.0 REPORT PURPOSE AND SCOPE

#### **Purpose:**

The purpose of this evaluation report supplement is to indicate that the Cultured Stone<sup>®</sup>, Cultured Brick<sup>®</sup> and ProStone<sup>®</sup> products, described in ICC-ES evaluation report ESR-1364, have also been evaluated for compliance with the codes noted below.

#### Applicable code editions:

- 2016 California Building Code<sup>®</sup> (CBC)
- 2016 California Residential Code<sup>®</sup> (CRC)

#### 2.0 CONCLUSIONS

#### 2.1 CBC:

The Cultured Stone<sup>®</sup>, Cultured Brick<sup>®</sup> and ProStone<sup>®</sup> products described in Sections 2.0 through 7.0 of the evaluation report ESR-1364, comply with CBC Sections 803.1.1, 1404.4, and 2101.2.1, provided the design and installation are in accordance with the 2015 *International Building Code*<sup>®</sup> (IBC) provisions noted in the evaluation report and the additional requirements of CBC Sections 1405.1.1, 1405.3 and 1411, as applicable.

#### 2.2 CRC:

The Cultured Stone<sup>®</sup>, Cultured Brick<sup>®</sup> and ProStone<sup>®</sup> products described in Sections 2.0 through 7.0 of the evaluation report ESR-1364, comply with the flame spread and smoke developed requirements of CRC Section R302.9 and with CRC Section R703, provided the design and installation are in accordance with the 2015 *International Residential Code*<sup>®</sup> (IRC) provisions noted in the evaluation report and the additional requirements of CRC Sections R301.1.3 and R702.7.

This supplement expires concurrently with the evaluation report, reissued October 2021.



	Date of Issue: 6/1/2015	Supersedes Date: 12/08/2014	Version 1.0
evision Date: 6/1/2015 ECTION 1: IDENTIFICATIO			
.1 Product Identifier			
Product Name: Adhere	d Manufactured Stone Maso	nry Veneer Units	
.2 Intended Use of the Pr	oduct		
Building Material (include			
	elephone Number of the R	esponsible Party	
Company			
BORAL STONE PRODUCTS			
200 Mansell Court East, S Roswell, GA 30076	builte 305		
United States			
(770) 645-4500			
www.boralna.com/stone			
.4 Emergency Telephone			
(770) 645-4529			
ECTION 2: HAZARD(S) IDE	NTIFICATION		
.1 Classification of the Su	bstance or Mixture		
This product is an article a	as defined in the OSHA Hazar	d Communication Standard [29 CFF	R 1910.1200(c)] and is
	-	as a manufactured item. This SDS c	ontains additional health
	ed to dust generation during o	construction.	
Classification (GHS-US)			
Eye Irritation 2B Respiratory Irritation STO	T Single Expective 2		
Respiratory Illness STOT F			
Carcinogen 1A			
.2 Label Elements			
GHS-US Labeling Hazard			
Pictograms (GHS-US)			
Signal Word (GHS-US):	<ul> <li>Warning</li> </ul>		
Hazard Statements	May cause eye irritation		
(GHS-US):	May cause respiratory i	. ,	
	May cause cancer (H35	-	
	(H372)	espiratory system through prolong	ed of repeated exposure
Precautionary		afety precautions have been read a	and understood (P202)
Statements (GHS-US):		a case of inadequate ventilation, we	
	(P264) (P284)		
		in a well-ventilated area or use a w	vet saw (P271)
		, protective clothing, and eye prote	
		erson to fresh air and keep at rest i	
	breathing (P304) (P340	•	
	01 /1		
	<ul> <li>IF IN EYES: Rinse caution</li> </ul>	Nusly with water for at least 15 min	utes. Remove contact
	<ul> <li>IF IN EYES: Rinse caution</li> <li>lenses if present and each</li> </ul>	asy to do. Continue rinsing until pai	
		-	

#### Adhered Manufactured Stone Masonry Veneer Units Safety Data Sheet Revision Date: 6/1/2015 Date of Issue: 6/1/2015 Supersedes Date: 12/08/2014 Version 1.0 2.4 Unknown Acute Toxicity (GHS-US) No data available SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS 3.1 Description of Product Concrete matrix article. 3.2 Mixture Substances and hazard classification based on dust composition. Product **Identifier (CAS** Ingredient % (w/w) Classification (GHS-US) No.) 40 - 70 Pumice 1332-09-8 Respiratory Irritation, STOT 3, H335 Eye Irritation 2B, H320 Expanded clay 68334-37-2 40 - 70 Portland cement (cured) 65997-15-1 14 - 30 • Respiratory Irritation, STOT 3, H335 • Eye Irritation 2B, H320 14808-60-7 10 - 25 Quartz Carc. 1A, H350 STOT Respiratory 2, H372 2 - 7 Slag (ferrous metal blast 65996-69-2 Respiratory Irritation, furnace) STOT 3, H335 Eye Irritation 2B, H320

<u>Note</u>: This product contains additional not classified substances at low concentrations that do not contribute to the hazards of this product.

1.5

Not classified

#### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. Any person who is experiencing symptoms of injury or illness should be moved to a comfortable area with fresh air, and the label or SDS of this product reviewed. **Inhalation:** If symptoms of dust exposure (respiratory irritation) occur, move the person to fresh air. Provide drinking water, if conscious, to flush mouth and irrigate upper respiratory tract. Seek medical attention for discomfort or if coughing or other symptoms do not subside.

1309-37-1

**Eye Contact:** If injury is due to a projectile, seek immediate medical attention. If the person's symptom is eye irritation due to dust exposure, careful flushing with clean water should continue for at least 15 minutes. If contact lenses are present, they should be removed after flushing. Flushing should continue until irritation subsides. Medical attention should be obtained if irritation persists.

**Skin:** Injuries to skin due to abrasion, laceration, or crushing should be treated by flushing with clean water, followed by first aid (application of disinfectant and bandage). If the injury is more extensive or irritation and pain persists, medical attention should be sought.

#### 4.2 Most Important Symptoms and Effects—Both Acute and Delayed

Iron oxide

**General:** The most important symptoms and effects from exposure to this product's dust is respiratory irritation and respiratory system chronic illness if significant exposures occur repeatedly.

**Inhalation:** The immediate acute response to dust inhalation is respiratory system irritation. Upon repeated high levels of dust exposure, crystalline silica content of the dust may cause delayed or chronic respiratory illnesses, including silicosis and cancer.

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	<b>Eve Contact:</b> Exposures of the eyes to particles and dust may result in irritation, pain, redness, and blurred vision,
	which is usually temporary.
	Skin Contact: Other than abrasion and irritation, skin contact does not cause delayed or chronic symptoms.
.3	Indication of Immediate Medical Attention and Special Treatment
	Any time symptoms of eye irritation or respiratory irritation persist, medical attention should be obtained.
EC	TION 5: FIRE-FIGHTING MEASURES
.1	Extinguishing Media
	Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire. Finished product is not
	combustible.
.2	Special Hazards Arising from the Substance or Mixture
	Fire Hazard: Not combustible.
	Explosion Hazard: Product is not explosive.
_	<b>Reactivity:</b> Hazardous reactions are not expected to occur under normal conditions.
.3	Advice for Firefighters
= 0	Not applicable.
	TION 6: ACCIDENTAL RELEASE MEASURES
.1	Personal Precautions, Protective Equipment, and Emergency Procedures
	General Measures: Do not breathe dust. Do not get in eyes, on skin, or on clothing.
	6.1.1. For Non-Emergency Personnel
	Protective Equipment: Use appropriate personal protective equipment (PPE).
	Emergency Procedures: Evacuate unnecessary personnel. 6.1.2. For Emergency Personnel
	Protective Equipment: Equip clean-up crew with proper protection.
	<b>Emergency Procedures:</b> Ventilate area if dust is generated.
.2	Environmental Precautions
	Reuse product as appropriate to avoid disposal.
.3	Methods and Material for Containment and Clean-Up
	Containment: Contain and collect as any solid. Avoid actions that cause dust to become airborne. Do not breath
	dust, and do not allow large quantities of dust to contact skin.
.4	Reference to Other Sections
	See Section 8. Exposure Controls and Personal Protection. For further information, refer to Section 13.
EC	TION 7: HANDLING AND STORAGE
.1	Precautions for Safe Handling
	Additional Hazards when Processed: Cutting, crushing, or grinding crystalline silica-bearing materials will release
	respirable crystalline silica. Use all appropriate measures of dust control or suppression and Personal Protective
	Equipment (PPE) described in Section 8.
	Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and
_	other exposed areas with mild soap and water before eating, drinking or smoking, and again when leaving work.
.2	Conditions for Safe Storage, Including any Incompatibilities
_	Not applicable.
.3	Specific End-Use(s)
	Not applicable.

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CTION 8: EXPOSURE CO	ONTROLS/PERSONAL PROTE	CTION		
1 Exposure Limits				
The following exposure	limits are based on a time-wei	ghted full-shift expos	ure, unless oth	erwise noted.
	Ingredient	OSHA PEL <sup>(1)</sup>	ACGIH-TLV <sup>(2)</sup>	Other <sup>(3)(4)</sup>
	Pumice	15 mg/m <sup>3</sup> (total dust); 5 mg/m <sup>3</sup> (respirable fraction)	10 mg/m <sup>3</sup> (total dust); 3 mg/m <sup>3</sup> (respirable fraction)	
	Expanded clay	15 mg/m <sup>3</sup> (total dust); 5 mg/m <sup>3</sup> (respirable fraction)	10 mg/m <sup>3</sup> (total dust); 3 mg/m <sup>3</sup> (respirable fraction)	
	Portland cement	15 mg/m <sup>3</sup> (total dust); 5 mg/m <sup>3</sup> (respirable fraction)	1 mg/m <sup>3</sup> (respirable fraction containing no asbestos and < 1% crystalline silica)	NIOSH REL – 10 mg/m (total dust); 5 mg/m <sup>3</sup> (respirable fraction)
	Quartz	30 mg/m <sup>3</sup> ÷ % SiO <sub>2</sub> +2 (total dust); 10 mg/m <sup>3</sup> ÷ % SiO <sub>2</sub> +2 (respirable fraction)	0.025 mg/m <sup>3</sup> (respirable fraction)	NIOSH REL – 0.05 mg/m <sup>3</sup> (respirable fraction)
	Slag	Not established	Not	
	Iron oxide	Fume: 10 mg/m <sup>3</sup> (total dust); Particulate: 15 mg/m <sup>3</sup> (total dust); 5 mg/m <sup>3</sup> (respirable fraction)	established 5 mg/m <sup>3</sup> (respirable dust)	NIOSH REL – 5 mg/m <sup>3</sup> (total dust)
	(2) ACGIH-TLV (America Values 2015)	le Exposure Level at 29 n Conference of Goverr Institute for Occupatio	nmental Industria	l Hygienists-Threshold Limi th Recommended Exposure

**Appropriate Engineering Controls:** Power equipment should be equipped with wet dust suppression or dust collection devices if cutting/grinding/chipping product. Emergency eyewash equipment should be available in the immediate vicinity of any potential exposure. Use local exhaust or general dilution ventilation, or other suppression methods to maintain dust levels below exposure limits.

#### Adhered Manufactured Stone Masonry Veneer Units Safety Data Sheet Revision Date: 6/1/2015 Date of Issue: 6/1/2015 Supersedes Date: 12/08/2014 Version 1.0 Personal Protective Equipment: Protective goggles or safety glasses, and gloves. Wear respiratory protection if dust is present when cutting/grinding/chipping product. Hand Protection: Protective gloves as appropriate to prevent abrasion and hand injuries. Eye and/or Face Protection: Approved safety glasses, goggles, and/or face-shield. Skin and Body Protection: Appropriate work clothing and footwear should be worn. Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES 9.1 Information on Basic Physical and Chemical Properties Physical State: Solid. Appearance: Solid. Stones come in a wide range of colors. Odor: Essentially odorless. Odor Threshold: Not available. pH: Not available. Evaporation Rate: Not available. Melting Point: Not available. Freezing Point: Not available. Boiling Point: Not available. Flashpoint: Not available. Auto-Ignition Temperature: Not available. Decomposition Temperature: Not available. Flammability (solid, gas): Not available. Lower Flammable Limit: Not available. Upper Flammable Limit: Not available. Vapor Pressure: Not available. Relative Vapor Density at 20° C: Not available. Relative Density: Not available. Specific Gravity: 2.6 Solubility: Negligible in water. Partition Coefficient—N-Octanol/Water: Not available. Viscosity: Not available. Explosion Data—Sensitivity to Mechanical Impact: Not expected to present an explosion hazard due to mechanical impact. Explosion Data—Sensitivity to Static Discharge: Not expected to present an explosion hazard due to static discharge. SECTION 10: STABILITY AND REACTIVITY 10.1 Reactivity Hazardous reactions are not expected to occur under normal conditions. 10.2 **Chemical Stability** Stable. 10.3 **Possibility of Hazardous Reactions** Not applicable. **Conditions to Avoid** 10.4 Not applicable. **Incompatible Materials** 10.5 Not applicable.

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10.6 Hazardous Decomposition Products
Not applicable.
SECTION 11: TOXCOLOGICAL INFORMATION
11.1 Likely Routes of Exposure
Skin Contact: Product is abrasive and may irritate unprotected skin.
Eye Contact: When product is shaped or cut, chips or dust may enter unprotected eyes and cause injury or
irritation.
Inhalation: When product is shaped or cut, respirable dust may be generated that, when inhaled, can cause
respiratory system irritation. Prolonged or repeated inhalation exposure may cause chronic illness.
Ingestion: Not expected to be an exposure route of concern.
11.2 Symptoms Related to Physical, Chemical, and Toxicological Characteristics
Immediate Effects: Irritation of skin, eyes, and respiratory tract due to abrasion or dust inhalation will produce
immediate discomfort, and first aid provided.
Delayed and Chronic Effects: Inhalation of dust on a prolonged or repeated basis may result in chronic lung disease
or silicosis, and may also result in lung cancer, in particular among tobacco smokers. <b>11.3</b> Numerical Measures of Toxicity
The acute and chronic effects of exposure to this product's dust have not been quantified.
11.4 Carcinogenicity
The ingredient quartz, also known as crystalline silica, has been determined to be carcinogenic by the International
Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP).
SECTION 12: ECOLOGICAL INFORMATION
12.1 Toxicity
No additional information available.
12.2 Persistence and Degradability
Not available.
12.3 Bioaccumulative Potential
Not available.
12.4 Mobility in Soil
Not available.
12.5 Other Adverse Effects
Not available.
SECTION 13: DISPOSAL CONSIDERATIONS
13.1 Waste Treatment Methods
Waste Disposal Recommendations: Scrap material should be re-used or recycled. Waste is not a hazardous waste
as defined by the Resource Conservation and Recovery Act (RCRA) (40 CFR 261). Dispose of waste material in
accordance with all local, regional, national, provincial, territorial, and international regulations.
SECTION 14: TRANSPORT INFORMATION
14.1 In Accordance with DOT
Not regulated for transport
14.2 In Accordance with IMDG
Not regulated for transport
14.3 In Accordance with IATA
Not regulated for transport
14.4 In Accordance with TDG
Not regulated for transport
SECTION 15: REGULATORY INFORMATION
15.1 U.S. Federal Regulations
Stone
Exempt article [40 CFR 370.13(b)]

#### Adhered Manufactured Stone Masonry Veneer Units Safety Data Sheet Revision Date: 6/1/2015 Date of Issue: 6/1/2015 Supersedes Date: 12/08/2014 Version 1.0 SARA Section 313 Emission Reporting This product may contain constituents listed under SARA (Title III) Section 313, but not in amounts requiring supplier notification under 40 CFR Part 372, Subpart C. **TSCA Inventory** All constituents are included in the Toxic Substances Control Act Chemical Inventory [40 CFR 720]. 15.2 **U.S. State Regulations** State Right-to-Know Laws This product, as an article, is exempt from hazardous substance inventory reporting under the Massachusetts, New Jersey, and Pennsylvania right-to-know laws. California Proposition 65—Warning Required WARNING: This product contains crystalline silica and other chemicals known to the State of California to cause cancer, birth defects, and other reproductive harm. 15.3 **Canadian Regulations** DSL All ingredients are listed or exempt from inclusion on the Canadian Domestic Substances List (DSL). WHMIS Class D, Division 2, Subdivision A – Material causing other toxic effects. Very Toxic—Chronic. This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all of the information required by the CPR. 15.4 **Other: HMIS and NFPA** HMIS: CULTURED STONE®, PROSTONE®, and VERSETTA STONE\* \* 2 0 0 RSONAL PROTECTION NFPA: Cultured Stone, ProStone, Versetta SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION Party Responsible for Preparation of this Document BORAL STONE PRODUCTS LLC (707) 256-4249 Limitations The information and recommendations set forth herein are based on data we have in our possession, and we have reason to believe is accurate. It is, however, the user's responsibility to determine the safety, toxicity, or suitability for his/her own use of the herein described product. Because the actions by others is beyond our control, Boral

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