



## 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. Masonry Veneer Manufacturers Association (MVMA): 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:
  - 1. 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.
  - 2. 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.
  - 3. 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 Masonry Veneer Manufacturers Association (MVMA) 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®** by **Boral®** which is located at: 200 Mansell Court E. Suite 305; Roswell, GA 30076; Toll Free Tel: 800-255-1727; Email to request info: [boralstoneanswers@boral.com](mailto:boralstoneanswers@boral.com); Web: [www.culturedstone.com](http://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/m<sup>2</sup>) saturated.
  - 7. 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. Color: Siena.
  - 7. Color: Solistice.
  - 8. Color: Umber Creek.
  - 9. Walls: Provide with Single Color and Texture throughout.
  - 10. 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: French Gray.
  - 3. 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.
  - 2. 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.
  - 4. 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.
  - 1. Heights: Variable from 1 1/2 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: Hudson Bay.
  - 13. Color: Mojave.
  - 14. Color: Red Rock.
  - 15. Color: Sevilla..
  - 16. Color: Skyline.
  - 17. Color: Umber Creek.
  - 18. Color: White Oak.
  - 19. Color: Wolf Creek.
  - 20. Walls: Provide with Single Color and Texture throughout.
  - 21. 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 2¾ inches (70 mm)
  2. Lengths: Variable from 8¾ inches (208 mm)
  3. Color: Moroccan Sand.
  4. Color: Rustic Manor.
  5. Walls: Provide with Single Color and Texture throughout.
  6. Walls: Provide with Blended Color/Texture:
    - a. Percent: \_\_\_\_\_ ,  
Color: \_\_\_\_\_ .
    - b. Percent: \_\_\_\_\_ ,  
Color: \_\_\_\_\_ .
- G. Cultured Brick Veneer Used Brick:  
Includes matching corner pieces.
1. Height: Variable from 2½ 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 9¼ inches (25 mm to 235 mm).
  2. Lengths: Variable from 4½ 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 2½ 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:  
Includes matching corner pieces.
1. Heights: Variable from 1 inch to 4 inches (25 mm to 100 mm).
  2. Lengths: Variable from 4 inches to 16 inches (100 mm to 400 mm).
  3. Color: Chardonnay.
  4. Color: Suede.
  5. Walls: Provide with Single Color and Texture throughout.
  6. 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).
  2. 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.
1. 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: 1½ inches (38 mm).
  4. Color: Foundation
  5. Color: Span
  6. Color: Talus
  7. Walls: Provide with Single Color and Texture throughout.
  8. Walls: Provide with Blended Color/Texture:
    - a. Percent: \_\_\_\_\_ ,  
Color: \_\_\_\_\_ .
    - b. Percent: \_\_\_\_\_ ,  
Color: \_\_\_\_\_ .
- M. Cultured Stone Limestone:  
Includes matching corner pieces.
1. Heights: Variable from 1¼ inches to 6 inches (30 mm to 150 mm).
  2. Lengths: Variable from 4 inches to 16¾ inches (100 mm to 420 mm).
  3. Color: Bucks County.
  4. Color: Chardonnay.
  5. Color: Golden Buckeye.
  6. Color: Suede.
  7. 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 1½ inches to 10 inches (38 mm to 250 mm).
  2. Lengths: Variable from 4 inches to 16 inches (100 mm to 400 mm).
  3. Color: Chardonnay.
  4. Color: Coastal Fog.
  5. Color: Echo Ridge.

6. Color: Summit Peak.
  7. Color: Tudor.
  8. Walls: Provide with Single Color and Texture throughout.
  9. 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)
  2. Lengths: Variable from 8 inches to 20 inches (200 mm to 500 mm).
  3. Color: Autumn.
  4. Color: Gray.
  5. Color: Mojave.
  6. Color: Platinum.
  7. Color: Shale.
  8. Color: Southwest.
  9. Walls: Provide with Single Color and Texture throughout.
  10. 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).
  2. 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.
  12. 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 ½ inch to 1¾ 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 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. Color: Whitewater.
  6. Walls: Provide with Single Color and Texture throughout.
  7. Walls: Provide with Blended Color/Texture:
    - a. Percent: \_\_\_\_\_ ,  
Color: \_\_\_\_\_ .
    - b. Percent: \_\_\_\_\_ ,  
Color: \_\_\_\_\_ .
- S. Cultured Stone Rockface:  
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: Bucks County.

- T. Cultured Stone Southern Ledgestone:  
Includes matching corner pieces.
1. Heights: Variable from ½ 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: Hudson Bay.
  10. Color: Rustic.
  11. Color: Wolf Creek.
  12. Walls: Provide with Single Color and Texture throughout.
  13. Walls: Provide with Blended Color/Texture:
    - a. Percent: \_\_\_\_\_ ,  
Color: \_\_\_\_\_ .
    - b. Percent: \_\_\_\_\_ ,  
Color: \_\_\_\_\_ .
- U. Cultured Stone Stream Stone:  
Includes matching corner pieces.
1. Sizes: Variable from 2 inches to 12 inches (50 mm to 300 mm).
  2. Skimmer Stones: Smaller fill stones, average 2½ inches (63 mm) tall by 3½ 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: \_\_\_\_\_ .

2.4 ARCHITECTURAL TRIM STONES

- A. Pier Capstones:
1. Surface Texture: Flagstone.
  2. 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: Mocha.
  7. Color: Taupe.
- B. Flat Wall Capstones:
1. Nominal Size: 10 inches by 20 inches (254 mm by 508 mm).
  2. Nominal Size: 12 inches by 20 inches (305 mm by 508 mm).
  3. Color: Champagne.
  4. Color: Gray.
  5. Color: Mocha.
  6. Color: Taupe.
- C. Capstones/Peaked Flagstone Texture:
1. Nominal Size: 12 inches by 20 inches (305 mm by 508)
  2. Nominal Size: 16 inches by 20 inches (404 mm by 508)
  3. Color: Champagne.
  4. Color: Gray.
  5. Color: Mocha.
  6. Color: Taupe.
- D. Hearthstones:
1. 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.
- E. Trimstones:
1. Nominal Size: 6 inches by 8 inches by 1⅞ inches (152 mm by 203 mm by 48 mm).
  2. Color: Champagne.
  3. Color: Gray.
  4. Color: Mocha.
  5. Color: Taupe.

- F. Keystones:
1. Nominal Size: 8½ inches by 10 inches by 1⅞ inches (216 mm by 254 mm by 48 mm).
  2. Color: Champagne.
  3. Color: Gray.
  4. Color: Mocha.
  5. Color: Taupe.
- G. Tuscan Lintels:
1. Nominal Size: 22 inches by 6 inches by 2⅝ inches (559 mm by 152 mm by 67 mm).
  2. Color: Champagne.
  3. Color: Gray.
  4. Color: Mocha.
  5. Color: Taupe.
- H. Watertable/Sill Rock Face Texture:
1. Nominal Size: 2 inches front, 2½ 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: Mocha.
  5. Color: Nightfall.
  6. Color: Taupe.
  7. Provide sloped top surface & drip edge.
- I. Watertable/Sill Cast-Fit Texture:
1. Nominal Size: 2½ inches by 20 inches (63 mm by 500 mm).
  2. Color: French Gray
  3. Color: Parchment
- J. Watertable/Sill Cast-Fit Texture:
1. Nominal Size: 2½ inches by 20 inches (63 mm by 500 mm).
  2. Color: French Gray.
  3. Color: Parchment.



K. Light Fixture Stones:

1. Nominal Size: 8 inches by 10 inches by 1 7/8 inches (203 mm by 254 mm by 47 mm).
2. 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: Mocha.
6. Color: Taupe.
7. Provide 4 inch by 1 1/2 inch (102 mm by 38 mm) UL approved metal octagon extension box.

L. Receptacle Stones:

1. 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: Mocha.
4. Color: Taupe.
5. Electrical Box: 4 inch by 1 1/2 inch (102 mm by 38 mm) UL approved metal octagon extension box supplied by others.

M. Special Shapes:

**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 MVMA 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**