SECTION 04 73 00

MANUFACTURED STONE MASONRY

PART 1 - GENERAL

1.1 SECTION INCLUDES
- A. Evolve Stone
- B. Accessories

1.2 RELATED SECTIONS
- A. Section 05 40 00 - Cold-Formed Metal Framing
- B. Section 06 10 00 - Rough Carpentry
- C. Section 06 16 36 - Wood Panel Product Sheathing
- D. Section 07 05 10 - Rainscreen Drainage Mat
- E. Section 07 10 00 - Damproofing and Waterproofing
- F. Section 07 25 00 - Weather Barriers
- G. Section 07 46 43 - Composition Siding
- H. Section 09 91 23 - Interior Painting

1.3 REFERENCES
- A. ASTM G155 - Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials Test Results
- B. D1037 - Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials Test Results
- C. ASTM E330 - Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference Test Results
- D. ASTM B117 - Standard Practice for Operating Salt Spray
- E. ASTM D2247-15 - Water Resistance Test
- F. AC92 SECTION 4.2 - Freeze-Thaw test
- G. ASTM E84 - Fire Test

1.4 SUBMITTALS
- A. Submit under provisions of Section 01 30 00 - Administrative Requirements
- B. Product Data
  1. Installation Guides
  2. Evolve Stone Product Catalog

PART 2 - PRODUCTS

2.1 EVOLVE STONE
- A. Acceptable Manufacturer: Evolve Stone Inc., which is located at: 200 Lenoir Drive Unit B; Winchester, VA 22603; Tel: +1 (800) 614-0373; Tel: +1 (703) 646-8090; Email: info@evolvestone.com; Web: https://www.evolvestone.com

- B. Substitutions: Not permitted.

C. Veneer Stones
   1. Description: Evolve Stone siding can be used as an interior wall covering or exterior veneer siding. Each box of veneer stones comes pre-blended with a variety of stone shapes in accordance with the selected style in one color option and in the specified rating. Thicknesses vary from 0.125" to 1.25" with an average thickness of 0.625".

D. Corner Veneer Stones
   1. Description: Evolve Stone Corner Stones can be used as an interior wall covering or exterior veneer siding to wrap around the outside of a 90 degree corner. Each box of corner stones comes pre-blended with a variety of stone shapes in accordance with the selected style in one color option and in the specified rating. Thicknesses vary from 0.25" to 1.5" with an average thickness of 0.875".

E. Sill Stones
   1. Description: Evolve Stone Sill Stones can be used as an interior wall covering or exterior veneer siding as a linear break under window sills, or as a top border for a watertable. Sill stones are roughly 20" long and are roughly 2.25" tall.

F. Style Offerings
   1. Style: National True
   2. Style: District View
   3. Style: Capital Sky
   4. Style: Georgetown Run
   5. Style: Monument Gate
   6. Style(s) are to be selected and installed per areas defined by Architect from Manufacturer's selection.

G. Color Offerings
   1. Color: Phantom Shadow
   2. Color: Morning Aspen
   3. Color: Dune Point
   4. Color: Kodiak Mine
   5. Color: Winter Valley
   6. Color: River Clay
   7. Color: Afternoon Vale
   8. Color: Project Specific Blend
   9. Color option(s) are to be selected for each style and install location defined by Architect from Manufacturer's selection. Architects may select multiple color options at each install location to achieve a color blend.

H. Fire Resistance Ratings
   1. Rating: Non-Rated
   2. Rating: Class B Fire-Rated in accordance with ASTM E84
   3. The required fire resistance rating shall be defined at all install locations by Architect in accordance with jurisdictional requirements.

2.2 MECHANICAL FASTENERS

A. Stainless Steel Finish Nails
   1. 16-gauge stainless steel Finish Nails with a fastener length long enough to penetrate through the backside of the sheathing substrate by 1/4 inch, a minimum shank diameter of 0.069 inch, and a minimum head diameter of 0.117 inch.

B. Screws
   1. Self tapping stainless steel or corrosion resistant trim head screw long enough to firmly grip into blocking where applicable.

C. Rainscreen Fasteners
   1. Cap nails, cap staples or cap screws with a length deep enough to penetrate through the rainscreen and into the wooden substrate.

D. WRB Fasteners
   1. Use fasteners suggested by the WRB Manufacturer.

2.3 BONDING MATERIALS

A. STPE Adhesive
   1. Description: One component, non-sag, silyl terminated polyether-based sealante.

2.4 EXTERIOR SUBSTRATE MATERIALS

A. Wooden Substrate
   1. Minimum 7/16" thick sheathing of OSB or plywood to allow for mechanical fasteners.

B. WRB
   1. Water-resistive barrier with ASTM E2556 Type I or Type II.

C. Rainscreen
   1. Evolve Rainscreen 1/8" or Keene DRIWALL™ RAINSCREEN 013-1 for US Installations. Use Evolve Rainscreen 3/8" or Keene DRIWALL™ RAINSCREEN 10mm for installations in Canada.

D. Cementitious Substrate
   1. A porous surface that is prepped, clean, dry and free of cracks and contaminates to allow for application of bonding materials.

2.5 INTERIOR SUBSTRATE MATERIALS

A. Wooden Substrate
   1. Interior applications should include a minimum of 1/4" wood sheathing as part of the wall assembly as specified by Architect to allow for mechanical fasteners.

B. Cementitious Substrate
   1. A porous surface that is prepped, clean, dry and free of cracks and contaminates to allow for application of bonding materials.

C. Paint
   1. A dark grey or black paint should be applied to wooden substrates where Evolve Stone will be applied.

PART 3 - EXECUTION

3.1 EXAMINATION
   A. Do not begin installation until substrates have been properly constructed and prepared.
   B. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.

3.2 INSTALLATION
   A. Install in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.

3.3 FIELD QUALITY CONTROL
   A. Field Inspection:
      1. Coordinate field inspections upon completion of each wall with Architect.

   B. Tolerances
      1. Occasional gaps between stones are allowable up to 0.125"
      2. Occurances of gaps of 3/16" between stones are allowable at one instance per 5 square feet.

      3. Gaps over 3/16" identified with descretion by Architect are to be corrected by Installer.

      4. Gaps that expose unpainted surfaces are to be corrected by Installer.

3.4 CLEANING AND PROTECTION
   A. Clean products in accordance with the manufacturer's recommendations.
   B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION