PART I – GENERAL

SUMMARY
Section Includes: Portland cement based manufactured light weight stone masonry veneer.

QUALITY ASSURANCE
All concrete masonry veneer units shall be Hillcrest, Kensley & Westpeak profiles manufactured by an Oldcastle Company. All units shall conform to ASTM 1634 with the following exceptions:

1. Unit Sizes: Adhered veneer units shall not exceed 2 5/8 in. (66.7 mm) in specified thickness, 36 in. (914 mm) in any face dimension, nor more than 5 ft2 (0.46 m2) in total area, and shall not weigh more than 15 psf (73 kg/m2).

2. Adhesion developed between adhered veneer units and backing shall have a shear strength of at least 50 psi (345 kPa) based on gross unit surface area when tested in accordance with ASTM 482, or shall be adhered in compliance with Article 3.3 C of TMS 602/ACI 530.1/ASCE 6.

3. The average compressive strength of five specimens shall be a minimum of 2100 psi (15 MPa) with no individual specimen having a measured compressive strength less than 1800 psi (12 MPa).

4. Freeze-thaw durability: Test specimens in accordance with ASTM 1262, except that no single specimen or group of specimens shall exhibit a mass loss greater than 1.5%, or show any fracture completely through the cross section when subjected to 50 consecutive cycles of freezing and thawing when tested in accordance with this testing method.

Related Sections:
1. Section 06 16 00 - Sheathing.
2. Section 07 60 00 - Flashing and Sheet Metal.
3. Section 07 90 00 - Joint Protection.
4. Section 09 24 00 - Cement Plastering.
5. Section 10 30 00 - Fireplaces and Stoves.

REFERENCES
B. American Society for Testing and Materials (ASTM):
1. ASTM C33 Standard Specification for Concrete Aggregates.
2. ASTM C140 Test Methods for Sampling and Testing Concrete Masonry Units and Related Units.
7. ASTM C331 Standard Specification for Lightweight Aggregates for Concrete Masonry Units.
8. ASTM C426 Standard Test Method for Linear Drying Shrinkage of Concrete Masonry Units.
11. ASTM C618 Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete.
18. ASTM C1059 Standard Specification for Latex Agents for Bonding Fresh To Hardened Concrete.
22. ASTM 1262 Standard Test Method for Evaluating the Freeze Thaw Durability of Dry-Cast Segmental Retaining Walls and Related Units.

2012 International Building Code
1. Water-resistant barrier. A minimum of one layer of No. 15 asphalt felt, complying with ASTM D226 for Type 1 felt or other approved materials, shall be attached to the studs or sheathing, with flashing as described in Section 1405.4 in such a manner as to provide a continuous water-resistant barrier behind the exterior wall veneer.

SUBMITTALS
General: Prepare, review, approve, and submit specified submittals in accordance with Section 01 30 00 Administration Requirements Sections. Submit the following:
Product Data: Submit product data for each type of product specified, including certification that each type complies with specified requirements. Submit samples for textures and colors of the stone veneer units. Standard sample display consisting of a small representation of veneer units showing the full range of colors and textures. After the sample units have been selected, a job site mock-up will be constructed using the selected stone and mortar materials and showing the full range of colors expected in the finished work. The minimum sample size: will be 3’ x 3’ (1m x 1m). Construct the job mockup using the selected products and install according to the manufacturer’s approved installation methods. The installed color blend, texture, joint size, and installation workmanship will be the standard for the project. Insure the Owner, Agent and Architect have accepted the mockup before any further work commences.

Maintenance: Maintain mockup during construction for workmanship comparison; remove and legally dispose of mockup when no longer required. Reference Section 01 78 00 for Closeout Submittals:
   a. Cleaning and Maintenance
   b. Warranty

DELIVERY, STORAGE AND HANDLING
Ordering: Follow the manufacturer’s ordering instructions and lead time requirements to avoid construction delays.

Storage and Protection: Store materials in a manner that protects from exposure to harmful weather conditions, damage or staining.

PART II– PRODUCTS

MANUFACTURER
An Oldcastle Company, contact National Accounts at (877) 506-2745

Ordering: Comply with manufacturer’s ordering instructions and lead time requirements to avoid construction delays.

Proprietary Product(s)/System(s): Artisan Masonry Stone Veneer® Units, which are manufactured with RainBloc® integral water repellent agent. RainBloc® producers comply with production qualification and are annually certified by ACM Chemistries.

STONE VENEER
Veneer Unit Properties: Precast lightweight stone veneer units consisting of Portland cement, lightweight aggregates, standard aggregates, integral admixtures and inorganic oxide pigments that are integrally dispersed through the entire veneer stone (full depth color pigmentation). Per production mold design drawings, the peripheral stone veneer dimensional tolerances are +/- 2mm (.079”) with no rear lipage.

Freeze-Thaw Test: ASTM 1262 except shall less than 1 ½% weight loss and no disintegration.

PART III – EXECUTION

EXAMINATION
Confirm substrates have been properly constructed and prepared. If any deficiencies in construction are discovered, notify Owner, Agent or Architect. Confirm remediation of any deficiencies before proceeding. Commencement of work is deemed acceptance of substrate construction and preparation.

INSTALLATION
Install the units according to the manufacturer’s guidelines. Insure the substrate surface is clean and acceptable to commence work. Insure veneer units are kept clean of mortar during the installation.

PROTECTION
Cover and protect adjacent work and project areas. Protect installed units from mortar staining or damage during the completion of the installation. Touch-up, repair or replace damaged products before substantial completion.

CLEANING
Materials: Sure Klean Light Duty Concrete Cleaner by Prosoco, Kansas City MO (800) 255-4255. Diluted 3 parts water, with cleaning procedure per manufacturer’s recommended method.

SEALING
Materials: Sure Klean Weather Seal Blok-Guard & Graffiti Control by Prosoco, Kansas City MO (800) 255-4255. Sealing procedure per manufacturer’s recommended method.