

Section 04810
EXTERIOR STONE VENEER
Full Mortar

PART 1 – GENERAL

1.1 SUMMARY

- A. Section includes:
 - 1. Portland cement mortar bed
 - 2. Stone Veneer
 - 3. Expansion and control joints.
 - 4. Portland cement and hydraulic mortar and grout.
 - 5. Sealer and concentrated cleaner.
- B. Related work:
 - 1. Section 05410 Load-Bearing Metal Studs.
 - a. 16 gauge or heavier for Stone application.
 - b. Maximum spacing 16" o.c.
 - 2. Section 07900 Joint Sealants
- C. Related Documents: General and Supplementary Conditions of the Contract, Division 1 General Requirements, and Drawings are applicable to this Section.

1.2 QUALITY ASSURANCE

- A. Reference specifications and standards: Comply with manufacturer's recommendations and the following unless otherwise specified in this Section. In case of conflict, comply with the most stringent.
 - 1. ANSI A108.1B – Tile installed on a cured Portland cement mortar bed.
 - 2. ANSI A108.5 – Tile Installed with Dry-Set Portland Cement Mortar or Latex-Portland Cement Mortar
 - 3. ANSI A108.10 – Installation of grout in Tile work
 - 4. ANSI A118.4 – Latex-Portland Cement Mortar
 - 5. ANSI A118.6 – Tile Grout
- B. Quality Assurance:
 - 1. The work hereunder shall be performed by a single entity with unit responsibility for field measurements, submittals, field installation and warranty.
 - 2. Installer's Qualifications: A firm with not less than five- (5) years experience in the specified unit responsibility and proving a background of not less than three- (3) installations of comparable size and scope to that herein specified.
 - 3. Provide grout and setting materials from one source. Additives, dry-set and latex mortars, installation materials and grouts shall be from the same manufacturer.
 - 4. Furnish a Fifteen-15 year system warranty from a single installation material manufacturer.
- C. Allowable Tolerances: Polished or Smooth Finishes
 - 1. Except for allowable tolerances in Stone Veneer as specified, make corners of all Stone Veneer flush and level with corners of adjacent Stone Veneer.
 - 2. For flat surfaces, the maximum deviation from true plan, 1/8" in 8' as measured under straight edge placed at any location on surface.

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1.3 SUBMITTALS

- A. Samples:
 - 1. Submit samples of grout and expansion joint material for color approval.
 - 2. Submit samples of each size and type of Stone Veneer showing range of color, shading, and texture.
- B. Product Data: Submit manufacturer's technical data and MSDS sheets for:
 - 1. Latex Portland cement mortar
 - 2. Polymer-modified cementitious grout
 - 3. Penetrating sealer / Cleaners
- C. Mock-up:
 - 1. Install a full size mock-up at the job site and secure Architect's review prior to proceeding with installation.
 - 2. Mock-up shall indicate proposed quality of workmanship and include all associated material applications, waterproof membrane, latex Portland cement mortar, grout, sealant, penetrating sealer, etc.
 - 3. Mock-up shall display the full range of color, markings, texture and thickness in materials and shall consist of not less than 4' x 4' of wall Stone Veneer, installed as a single unit representative of the proposed finish condition.
 - 4. Maintain mock-up for reference.
- D. Substitutions
 - 1. For alternate materials, submit independent laboratory test results confirming compliance with specifications listed in Part 2 - Products at least thirty; (30) days before bid date.

1.4 DELIVERIES, STORAGE AND HANDLING:

- A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Prevent damage or contamination to materials by water, freezing, foreign matter or other causes.
- B. If frozen, do not stir until material has completely thawed.
- C. Deliver and store materials on site at least 24 hours before work begins.
- D. Provide heated and dry storage facilities on site. Maintain temperatures at not less than 50 degrees in Stone Veneer d areas during installation, and for seven- (7) days after completion unless higher temperatures are required by manufacturer's instructions.
- E. Store Stone Veneer cleaning and sealing products tightly capped, upright in the original container.

1.5 PROJECT CONDITIONS:

- A. Maintain environmental conditions and protect work during and after installation to comply with referenced standards and manufacturer's printed recommendations.
- B. Provide heated and dry storage facilities on site. Comply with minimum temperature and ventilation recommendations of manufacturer for setting and grouting materials used. See 1.04, D above.
- C. Protection: Protect adjoining work surfaces during Stone Veneer work.

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PART 2- PRODUCTS

2.1 GENERAL

- A. Comply with the requirements of applicable referenced standards and manufacturer's printed instructions.

2.2 STONE VENEER

- A. Size
- B. Texture
- C. Supplied by: NaturalStoneVeneer.Com

2.3 MORTAR ADDITIVE

- A. Acrylic latex admixture for render and plaster mortar.
- B. MAPEI Planicrete AC.
- C. Supplied By: Daltile

2.4 SETTING MATERIALS

- A. General Requirements: Comply with the requirements of the specifications, applicable reference standards and manufacturer's printed instructions. Substitutions are not recommended, as they will void applicable system warranty.
- B. Manufacturer: MAPEI Corporation, Supplied by Daltile
- C. Mortar Bond Coat, meeting ANSI A118.4:
 - 1. MAPEI Keralastic/Kerabond System consisting of highly flexible liquid latex mixed with a premium white thin set mortar.

2.4 GROUTING MATERIALS

- A. Polymer-modified Cementitious Grout meeting ANSI A118.7.
 - 1. MAPEI Ultra/Color Fast Setting, Efflorescence Free, High Compressive Strength Polymer-Modified Sanded Grout and containing a factory blended antimicrobial. Color to be selected by architect.

2.5 ACCESSORIES

- A. Penetrating Sealers & Cleaners as per the recommendations of the Stone Veneer supplier.
- B. Water: Clean, potable and fresh.

2.6 MIXES

- A. Mix waterproof membrane according to manufacturer's printed instructions.
- B. Proportion and mix factory-prepared mortar and grout in accordance with manufacturer's printed instructions.

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PART 3-EXECUTION

3.1 GENERAL

- A. Comply with the requirements of the referenced standards. Comply with applicable parts of ANSI A108 for Stone Veneer installation.

3.2 EXAMINATION

- A. Examine surfaces to receive Stone Veneer work and conditions under which Stone Veneer will be installed. Do not proceed with Stone Veneer work until surfaces and conditions comply with requirements indicated in referenced Stone Veneer installation standard and manufacturer's printed instructions.

3.3 SURFACE PREPARATION

- A. Stud spacing is a maximum of 16" O.C.
- B. Maximum variation is ¼" in 10' from the required plane.

3.4 INSTALLATION

- A. Install galvanized metal lath over roofing felt membrane.
- B. Apply scratch coat consisting of 1 part Portland cement to 4 parts damp sand.
- C. Apply mortar bed of 1 part Portland cement to ½ part lime to 5 parts damp sand by volume.
- D. Install mortar bed in accordance to ANSI A108.1B
- E. Install Stone Veneer in accordance with manufacturer's printed instructions and ANSI A108.5.
 - 1. Apply thin set mortar to backer board combing in one direction.
 - 2. Apply thin set mortar to the back of the Stone Veneer.
 - 3. Place Stone Veneer into the freshly spread thin set, tapping into place insuring 100% coverage.
- F. Grout Stone Veneer in accordance with manufacturer's printed instructions and ANSI A108.10.
- G. Install veneer Stone Veneer as per MAPEI detail CA2E87
- H. Where Stone Veneer abuts columns, window and doorframes or any dissimilar surface leave a 3/8" gap to be filled with compressible caulking.
- I. Install expansion and control joints lengthwise and crosswise at regular intervals according to specifications and in accordance with TCA method EJ171.

3.5 CLEANING and SEALING

- A. Remove all surface residues of thin set and grout from surface of Stone Veneer while it is still fresh.
- B. Do not clean with harsh chemicals or acids.
- C. Seal Stone Veneer as per manufacturer's recommendations.

3.6 PROTECTION

- A. Protect walls from impact, vibration and heavy hammering on adjacent and opposite walls for at least 14 days after installation.

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END OF SECTION