

## SECTION 044300 – STONE MASONRY

### PART 1 - GENERAL

#### 1.1 SUMMARY

A. This section includes stone veneer laid in mortar for both exterior and interior applications.

#### 1.2 REFERENCES

A. ASTM C150 – Standard Specification for Portland Cement

B. ASTM C207 – Standard Specification for Hydrated Lime for Masonry Purposes

C. ASTM C270 – Standard Specification for Mortar for Unit Masonry

D. ASTM C568 – Standard Specification for Limestone Dimension Stone

E. ASTM C119 – Standard Terminology Relating to Dimension Stone

#### 1.3 SUBMITTALS

A. Product Data: Submit manufacturer's technical data for stone and mortar.

B. Samples: Provide samples of stone veneer indicating color, texture, and pattern.

C. Mock-Up: Construct mock-up of stone veneer section for approval by the Architect.

#### 1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications: Manufacturer of stone veneer shall have a minimum of 5 years' experience.

B. Installer Qualifications: Installer shall have a minimum of 5 years' experience with stone masonry.

C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.

#### 1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in manufacturer's original, unopened packaging.

B. Store materials in a dry, protected area.

#### 1.6 PROJECT CONDITIONS

A. Environmental Requirements: Maintain ambient temperatures and humidity levels in accordance with manufacturer's recommendations during installation.

### Part 2: Products

## 2.1 MATERIALS

- A. Stone Veneer: Natural stone conforming to ASTM C568 for limestone, or as specified for other types of stone. Color and texture as selected by the Architect.
- B. Mortar: Conforming to ASTM C270, Type N or S as specified.
- C. Portland Cement: Conforming to ASTM C150, Type I or II.
- D. Hydrated Lime: Conforming to ASTM C207, Type S.
- E. Aggregate: Natural sand conforming to ASTM C144.
- F. Water: Clean and potable.
- G. Admixtures: Non-toxic, non-staining, and approved by the manufacturer.

## 2.2 MORTAR MIX

- A. Mortar Mix Proportions: Mix mortar in accordance with ASTM C270.
- B. Pigmented Mortar: Integrate pigment as approved by Architect, ensuring uniform color.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Verify site conditions and substrate readiness for installation.
- B. Ensure all surfaces are clean, dry, and free of contaminants.

### 3.2 PREPARATION

- A. Protect adjacent surfaces from mortar splatter and stone dust.
- B. Dampen substrate to minimize absorption of water from mortar.

### 3.3 INSTALLATION

- A. General: Comply with TMS 402/602 (Building Code Requirements and Specification for Masonry Structures).
- B. Mortar Application: Apply mortar to the substrate and back of each stone to ensure full coverage.
- C. Stone Veneer Placement: Lay stones with uniform mortar joints, maintaining alignment and level. Press stones firmly into the mortar bed to ensure bond.
- D. Jointing: Tool joints to a consistent depth and finish, ensuring uniform appearance.

### 3.4 CLEANING

- A. Clean excess mortar from stone veneer faces immediately after installation.

B. After mortar has set, clean stone surfaces with a mild detergent solution and water, using non-metallic brushes.

3.5 PROTECTION

A. Protect finished stone veneer from damage during construction.

B. Cover work with plastic sheeting or other protective materials to prevent staining and damage from weather or other trades.

3.6 CURING

A. Cure mortar in accordance with manufacturer's recommendations, maintaining moisture levels as required for proper curing.

END OF SECTION 044300