

## 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