

## SECTION 04 22 23 - DECORATIVE CONCRETE BLOCK UNIT MASONRY

### PART 1 - GENERAL

#### 1.1 SUMMARY

A. Section includes:

1. Decorative block concrete masonry units

#### 1.2 SUBMITTALS

A. Samples for each type and color of exposed masonry units.

1. Submit sample within 30 days of contract award.

B. Material Certificates: For each type of product indicated. Include statements of material properties indicating compliance with requirements including compliance with standards and type designations within standards.

1. Provide statement from masonry unit manufacturer that proposed masonry cleaner will not discolor or cause fading of masonry color.

C. Material Test Reports: For masonry units, substantiating compliance with requirements.

#### 1.3 QUALITY ASSURANCE

A. Fire-Resistance Ratings: Where indicated, provide materials and construction identical to those of assemblies with fire-resistance ratings determined per ASTM E 119 by a testing and inspecting agency, by equivalent concrete masonry thickness, or by other means, as acceptable to authorities having jurisdiction.

B. Single Source Responsibility for Masonry Units: Obtain exposed masonry units of uniform texture and color, or a uniform blend within the ranges accepted for these characteristics, from one manufacturer for each different product required for each continuous surface or visually related surfaces.

C. Field Constructed Mock-Ups: Build mock-up to verify selections made under sample submittals and to demonstrate aesthetic effects.

1. Build mock-up as part of unit masonry mock-up as specified in Division 04 Section "Common Work Results for Masonry" to represent completed masonry work for qualities of appearance, materials and construction to be approved by the Owner's Representative.

## 1.4 PROJECT CONDITIONS

- A. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen substrates. Remove and replace unit masonry damaged by frost or by freezing conditions. Comply with cold-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.
  - 1. Remove any ice or snow formed on masonry bed by carefully applying heat until top surface is dry to the touch.
- B. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in ACI 530.1/ASCE 6/TMS 602.
- C. Do not place masonry units directly on the ground while being stored.

## PART 2 - PRODUCTS

### 2.1 DECORATIVE BLOCK CONCRETE MASONRY UNITS

- A. Decorative Block Concrete Masonry Units: ASTM C 90
  - 1. Product: Provide product matching one of the manufacturer's colors specified in Division 01 Section "Exterior Finishes and Colors" or a substitution approved by Architect and Owner.
  - 2. Construction: Modular size, straight, uniform, sound, clean and free from cracks and chips. Texture shall be fine, based on a block mix approximately 3.00 fineness modulus.
  - 3. Unit Compressive Strength: Provide units with minimum average net-area compressive strength of 1900 psi (13.1 MPa).
  - 4. Weight Classification: Normal weight.
  - 5. Size: 8-inches (190-mm) by 16-inches (390-mm) by depth as indicated on Drawings.
  - 6. Provide special shapes for lintels, corners, jambs, sashes, movement joints, headers, bonding, and other special conditions. Provide decorative texture on exposed faces unless otherwise indicated.
  - 7. Integral Water Repellent: Provide units made with integral water-repellent admixture that does not reduce flexural bond strength.

### 2.2 MASONRY ACCESSORIES

- A. Refer to Division 04 Section "Common Work Results for Masonry" for ties and anchors, embedded flashing materials, miscellaneous masonry accessories, and insulation.

### 2.3 MASONRY CLEANERS

- A. Proprietary Cleaner: Concentrated, general-purpose acidic cleaner
  - 1. Products: As specified in Division 04 Section "Common Work Results for Masonry."

2.4 MORTAR AND GROUT MIXES

- A. Refer to Division 04 Section “Common Work Results for Masonry” for mortar and grout mixes.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: Install units in the bond pattern indicated in strict accordance with manufacturer’s instructions and as specified in Division 04 Section “Common Work Results for Masonry.”

3.2 FIELD QUALITY CONTROL

- A. Refer to Division 04 Section “Common Work Results for Masonry.”
- B. Concrete Masonry Unit Test: For each type of unit provided, per ASTM C 140.

3.3 CLEANING

- A. Refer to Division 04 Section “Common Work Results for Masonry” for decorative concrete block unit masonry cleaning procedures.

END OF SECTION 04 22 23

**BLANK SHEET**