

**SECTION 32 14 16  
BRICK UNIT PAVING**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

The requirements for brick pavers, set in mortar on a rigid base, are specified in this section.

**1.2 RELATED WORK**

- A. Concrete Substrate: Section 32 05 23, CEMENT AND CONCRETE FOR EXTERIOR IMPROVEMENTS.
- B. See drawings for the paving pattern.

**1.3 SUBMITTALS**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Samples:
  - 1. Five individual samples of brick showing extreme variations in color and texture.
  - 2. Two bar samples of colored mortar.
- C. Test Samples: Five random bricks taken from the work site by the Resident Engineer for testing, to verify brick meets ASTM C67 freeze thaw tests specified.

**1.4 PRODUCT DELIVERY, STORAGE AND HANDLING**

- A. Deliver masonry materials in original sealed containers marked with name of manufacturer and identification of contents.
- B. Store masonry materials under waterproof covers on planking clear of ground, and protect from handling damage, dirt, stain, water and wind.

**1.5 APPLICABLE PUBLICATIONS**

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by the basic designation only.
- B. American Society for Testing and Materials (ASTM):
  - C144-04.....Aggregate for Masonry Mortar
  - C150-07.....Portland Cement
  - C270-08.....Mortar for Unit Masonry
  - C902-09.....Pedestrian and Light Traffic Paving Brick

**PART 2 - PRODUCTS**

**2.1 MATERIALS**

- A. Paving Brick: ASTM C902; Class SX, Type I.
- B. Sand: ASTM C144.
- C. Portland Cement: ASTM C150.

- D. Coloring Pigments: Pure mineral pigments, lime proof and non-fading; added to mortar by the manufacturer. Job colored mortar is not acceptable.
- E. Color to match existing. Present options to Architect for approval.

## **2.2 MORTAR**

ASTM C270, Type S. No admixtures permitted. Type N lime is not permitted.

## **PART 3 - EXECUTION**

### **3.1 INSPECTION**

Ensure that substrate is without voids or projections that would interfere with installation of brick paving.

### **3.2 ALLOWABLE TOLERANCES**

- A. Paved surface true to plane within 3 mm (1/8 inch) in 3 m (10 feet) not cumulative.
- B. Joint width deviation not greater than 10 percent of dimension shown.

### **3.3 APPLICATION**

- A. General: Do not use bricks with chips, cracks, discoloration, or other visible defects.
- B. Installation with Portland Cement Mortar:
  1. Install brick in full bed joint. Remove excess mortar. Strike joints flush with top surface of brick and tool slightly concave.
  2. Cure mortar by maintaining in a damp condition for seven days.

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