

**SECTION 32 14 13**  
**PRECAST CONCRETE UNIT PAVING ON RIGID BASE**

**PART 1 GENERAL**

**1.01 REFERENCE STANDARDS**

- A. ASTM C33/C33M - Standard Specification for Concrete Aggregates; 2023.
- B. ASTM D5268 - Standard Specification for Topsoil Used for Landscaping and Construction Purposes; 2023.

**1.02 SECTION INCLUDES**

- A. Interlocking concrete paver units
- B. Neoprene modified asphalt adhesive
- C. Rolled bituminous setting bed
- D. Concrete sub-base
- E. Sand joint filler.

**1.03 REFERENCE STANDARDS**

- A. ASTM C33/C33M - Standard Specification for Concrete Aggregates; most current version.
- B. ASTM D5268 - Standard Specification for Topsoil Used for Landscaping Purposes; most current version.

**1.04 SUBMITTALS**

- A. See Section 01 33 00 – Submittal Procedures, for submittal procedures.
- B. Product Data: Provide manufacturer's specifications and descriptive literature, installation instructions, and maintenance information.
- C. Shop Drawings: Indicate plans for each unit or groups of units, elevations with model number, overall dimensions; construction, and anchorage details.

**PART 2 PRODUCTS**

**2.01 MANUFACTURERS**

- A. Interlocking Concrete Pavers: Also acceptable, subject to compliance with specified requirements:
  - 1. Anchor Concrete Products, Inc., [www.anchorcp.com](http://www.anchorcp.com)
  - 2. Unilock, Inc: [www.unilock.com](http://www.unilock.com).
  - 3. or an equal product

**2.02 MATERIALS**

- A. Interlocking Pavers: Precast concrete.
  - 1. Compressive Strength: Minimum of 8,000 psi
  - 2. Water Absorption: maximum of 5 percent.
  - 3. Air Entrainment: 5 to 7 percent.
  - 4. Thickness: 2 3/8"
  - 5. Color: To Be Determined
  - 6. Pattern to be determined.
- B. Sand for Setting Bed: Clean washed natural sand or crushed stone complying with gradation requirements of ASTM C33 for fine aggregates. Do not use limestone screening, stone dust or sand in the bedding material that does not conform to the grading requirements. Graded according to ASTM C 136.
- C. Sand for Joints: Fine washed sand with 100 percent passing No. 16 0.05 inch sieve and not more than 10 percent passing No. 200 (0 inch) sieve or polymeric jointing sand as indicated on the drawings.

- D. Permanent steel curbing/edging if called for on the Drawings shall be as manufactured by Border Concepts, Charlotte, NC, Telephone 1.800.845.3343, local Rep is Avanti Industries, Inc., phone 718.406.4116, attn: Anglea or approved equal. It shall be 1/4 inch thick by five (5) inches wide and furnished in 16-foot long sections with slots pressed out along the length and at the ends. The ends shall be shaped to allow interlocking of adjoining sections. The curbing/edging shall be installed flush with the finished surface of the asphalt paving and staked securely in place with tapered steel stakes 12 inches long. Stakes shall be set through the slots in the curbing/edging and driven in place flush with top of curbing/edging.
- E. Asphalt cement: meet ASTM D3381, viscosity grade AC-20; heated to 300 degrees, 7% asphalt mixed with 93% sand in batches. Exact proportions to be determined by the Contractor.
- F. Neoprene modified asphalt adhesive: Karnak 237 2% AF Neo-asphalt or an equal product.

### **PART 3 EXECUTION**

#### **3.01 INSTALLATION OF SOLID PAVER UNITS**

- A. Stone screenings shall be spread to a minimum depth of 4 inches and be compacted to 95% minimum density. Concrete sub-base, 4" thick with welded wire fabric, shall then be installed, true to grade and pitched for positive drainage.
- B. The bituminous setting bed shall then be placed, using screed rails to achieve a level setting bed sloped as indicated on the drawings. Compact the setting bed with a powered roller compactor to an even, nominal thickness of 3/4" after compaction.
- C. Apply the neoprene modified asphalt adhesive to the cold asphalt setting bed with a squeegee in a thickness not exceeding 1/16". Do not apply pavers to adhesive until dry skin forms on the surface of the adhesive.
  - 1. The Contractor shall then lay the pavers on the setting bed by hand. The Contractor shall place the pavers in the pattern indicated on the Drawings; units must be laid with butted joints not to exceed 1/8". Alignment must be consistent so that the pattern will remain constant. p.s.i., guided over the entire area several times, until they are uniformly level, true to grade and free from any movement.
- D. Cut paver units at edges with masonry saw.
- E. Place half units at edge and interruptions. Maintain tight joints.
- F. Sprinkle sand over surface and sweep into joints. Moisten joints and recover with additional sand until firm joints are achieved. Polymeric sand shall be used as indicated on the drawings. Remove excess sand.
- G. Tamp and level paver units with mechanical vibrator until units are firmly bedded, level, and to correct elevation and gradients. Do not tamp unrestrained edges. Before vibrating the pavers, the Contractor shall saturate the newly laid pavers with water. The pavers shall then be compacted with a plate vibrator having a compaction force of 3,000 to 5,000.
- H. The Contractor shall notify the NYCHA Inspector responsible for this contact, 24 hours in advance of commencing the installation of the concrete pavers, so that a representative may be present.

**END OF SECTION 32 14 13**