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AMERICAN SOCIETY FOR TESTING AND MATERIALS
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Standard Specification for Solid Concrete Interlocking Paving Units[1]

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1. Scope

1.1 This specification covers the requirements for interlocking concrete pavers manufactured for the construction of paved surfaces.

1.2 When particular features are desired, such as weight classification, higher compressive strength, surface textures, finish, color, or other special features, such properties should be specified by the purchaser. Local sellers, however, should be consulted as to availability of units having the desired features.

1.3 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

2. Referenced Documents

2.1 *ASTM Standards:*

C 33 Specification for Concrete Aggregates[2]
C 67 Test Methods for Sampling and Testing Brick and Structural Clay Tile[3]
C 140 Test Methods for Sampling and Testing Concrete Masonry Units[3]
C 150 Specification for Portland Cement[4]
C 207 Specification for Hydrated Lime for Masonry Purposes[4]
C 260 Specification for Air-Entraining Admixtures for Concrete[2]
C 331 Specification for Lightweight Aggregates for Concrete Masonry Units[2]
C 418 Test Method for Abrasion Resistance of Concrete by Sandblasting[2]
C 494 Specification for Chemical Admixtures for Concrete[2]
C 595/C 595M Specification for Blended Hydraulic Cements[4]
C 618 Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Concrete[2]
C 979 Specification for Pigments of Integrally Colored Concrete[2]
C 989 Specification for Ground Granulated Blast-Furnace Slag for Use in Concrete and Mortars[2]
C 1240 Specification for Silica Fume for Use in Hydraulic-Cement Concrete and Mortar[2]

3. Materials

3.1 *Cementitious Materials* shall conform to the following applicable ASTM specifications:

3.1.1 *Portland Cements*—Specification C 150.

3.1.2 *Blended Cements*—Specification C 595/C 595M, Types IS or IP.

3.1.3 *Hydrated Lime, Type S*—Specification C 207.

3.1.4 *Fly Ash*—Specification C 618.

3.1.5 *Ground Slag*—Specification C 989.

3.1.6 *Silica Fume*—Specification C 1240.

3.2 *Aggregates* shall conform to the following ASTM specifications, except that grading requirements shall not necessarily apply:

3.2.1 *Normal Weight*—Specification C 33.

3.2.2 *Lightweight*—Specification C 331.

3.3 *Chemical Admixtures* shall conform to the following applicable ASTM specifications:

3.3.1 *Air-entraining Admixtures*—Specification C 260.

3.3.2 *Water-reducing, Retarding, and Accelerating Admixtures*—Specification C 494.

3.3.3 *Pigments for Integrally Colored Concrete*—Specification C 979.

3.4 *Other Constituents*—Integral water repellents, and other materials for which no ASTM standards exist, shall be previously established as suitable for use in concrete or shall be shown by test or experience not to be detrimental to the concrete.

4. Physical Requirements

4.1 Units shall be capable of being lifted and placed with one hand, and shall have an exposed face area less than or equal to 0.065 m^2(100.75 $in.^2$), and their aspect ratio (that is, overall length divided by thickness) shall be ≤4. The minimum thickness shall be 60 mm (2.375 in.). See Fig. 1.

4.2 Concrete units covered by this specification may be made from lightweight or normal weight aggregates or mixed lightweight and normal weight aggregates.

4.3 *Compressive Strength*—At the time of delivery to the work site, the average compressive strength of the test samples shall be not less than 55 MPa (8000 psi) with no individual unit less than 50 MPa (7200 psi) as required in 5.2.

[1] This specification is under the jurisdiction of ASTM Committee C-27 on Precast Concrete Products and is the direct responsibility of Subcommittee C27.20 on Architectural and Structural Products.

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[2] *Annual Book of ASTM Standards*, Vol 04.02.

[3] *Annual Book of ASTM Standards*, Vol 04.05.

[4] *Annual Book of ASTM Standards*, Vol 04.01.