



Designation: C 1364 – 02

Standard Specification for Architectural Cast Stone¹

This standard is issued under the fixed designation C 1364; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This specification covers the physical requirements, sampling, testing, and visual inspection of architectural cast stone.

1.2 Units covered by this specification may be made from facing and backup mixtures or from a homogeneous mixture. Either wet cast or dry cast production methods may be used.

1.3 Surface textures, finish, color, or other special features should be specified separately by the purchaser.

1.4 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

1.5 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

- A 615/A615M Specification for Deformed and Plain Billet Steel Bars for Concrete Reinforcement²
- C 33 Specification for Concrete Aggregates³
- C 150 Specification for Portland Cement⁴
- C 260 Specification for Air-Entraining Admixtures for Concrete³
- C 494 Specification for Chemical Admixtures for Concrete³
- C 618 Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use as a Mineral Admixture in Concrete³
- C 666 Test Method for Resistance of Concrete to Rapid Freezing and Thawing³
- C 979 Specification for Pigments for Integrally Colored Concrete³
- C 989 Specification for Ground Granulated Blast-Furnace Slag for Use in Concrete and Mortars³

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

Current edition approved Sept. 10, 2002. Published November 2002. Originally published as C 1364 – 97. Last previous edition C – 97.

² Annual Book of ASTM Standards, Vol 01.04.

³ Annual Book of ASTM Standards, Vol 04.02.

⁴ Annual Book of ASTM Standards, Vol 04.01.

C 1194 Test Method for Compressive Strength of Architectural Cast Stone⁵

C 1195 Test Method for Absorption of Architectural Cast Stone⁵

D 1729 Practice for Visual Appraisal of Colors and Color Differences of Diffusely Illuminated Opaque Materials⁶

D 2244 Test Method for Calculation of Color Differences from Instrumentally Measured Color Coordinates⁶

3. Terminology

3.1 Definitions:

3.1.1 *cast stone, n*—an architectural precast concrete building unit intended to simulate natural cut stone.

3.1.2 *dry cast concrete products, n*—manufactured from zero slump concrete.

3.1.3 *wet cast concrete products, n*—manufactured from measurable slump concrete.

4. Materials and Design

4.1 *Raw Materials*—Materials shall conform to the following specifications:

4.1.1 *Portland Cement*—Specification C 150.

4.1.2 *Aggregates*—Specification C 33, except for grading requirements.

4.1.3 *Coloring Pigment*—Specification C 979, except that carbon black pigment shall not be used.

4.1.4 *Reinforcement*—Specification A 615/A 615M.

4.1.5 *Chemical Admixtures*—Chemical admixtures shall conform to the following applicable specifications:

4.1.5.1 *Air Entraining Admixtures*—Specification C 260.

4.1.5.2 *Water Reducing and Accelerating Admixtures*—Specification C 494.

4.1.5.3 *Other Constituents*—Integral water repellents and other chemicals for which no ASTM standard exists shall be previously established as suitable for use in concrete by proven field performance or through laboratory testing.

4.1.6 *Ground Slag*—Specification C 989.

4.1.7 *Fly Ash*—Specification C 618, except for use in surfaces intended to be exposed to view.

4.2 *Design*—Samples shall be submitted for approval of color and texture. The manufacturer shall prepare drawings for approval showing shapes, sizes, reinforcement, exposed faces,

⁵ Annual Book of ASTM Standards, Vol 04.05.

⁶ Annual Book of ASTM Standards, Vol 06.01.