



Designation: **C1194 – 03 (Reapproved 2011) C1194 – 18**

Standard Test Method for Compressive Strength of Architectural Cast Stone¹

This standard is issued under the fixed designation C1194; 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 test method covers the sampling, preparation of specimens, and determination of the compressive strength of architectural cast stone.

1.2 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.3 *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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.4 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*²

[C42/C42M](#) Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete

[C109/C109M](#) Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)

[C617/C617M](#) Practice for Capping Cylindrical Concrete Specimens

3. Terminology

3.1 *Definitions:*

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

4. Significance and Use

4.1 This test method is to be used in determining the compressive strength of cast stone. Compressive strength is one measure of resistance of cast stone to weathering and structural stress.

5. Apparatus

5.1 *Testing Machine*—The testing machine shall conform to the requirements prescribed in Test Method [C109/C109M](#) unless otherwise indicated therein.

6. Sampling

6.1 Select the sample to represent the cast stone under consideration. The sample may be selected by the purchaser or his authorized representative from each 500 ft³ (14 m³) of cast stone. Select a sample of adequate size to permit the preparation of three compression test specimens.

7. Test Specimens

7.1 For compression tests, take three specimens from each sample. Cut specimens from the finished surface of the sample to consist of one surface intended to be exposed to view and five saw-cut surfaces, except for faced cast stone, cut specimens through the faced surface to consist of approximately equal parts of the facing material and the backup material.

¹ This test method 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.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.