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American Association State Highway and Transportation Officials Standard
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Standard Specification for Aggregate for Masonry Mortar¹

This standard is issued under the fixed designation C144; 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.

This standard has been approved for use by agencies of the U.S. Department of Defense.

1. Scope*

- 1.1 This specification covers aggregate for use in masonry mortar.
- 1.2 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.
- 1.3 The following precautionary caveat pertains only to the test methods portion, Section 78, of this standard. 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

iTeh Standards

2.1 ASTM Standards:²

C40C40/C40M Test Method for Organic Impurities in Fine Aggregates for Concrete

C87C87/C87M Test Method for Effect of Organic Impurities in Fine Aggregate on Strength of Mortar

C88C88/C88M Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate

C117 Test Method for Materials Finer than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing

C123C123/C123M Test Method for Lightweight Particles in Aggregate

C128 Test Method for Relative Density (Specific Gravity) and Absorption of Fine Aggregate

C136C136/C136M Test Method for Sieve Analysis of Fine and Coarse Aggregates

C142C142/C142M Test Method for Clay Lumps and Friable Particles in Aggregates

C270 Specification for Mortar for Unit Masonry

C404 Specification for Aggregates for Masonry Grout

C1180 Terminology of Mortar and Grout for Unit Masonry

C1713 Specification for Mortars for the Repair of Historic Masonry

D75D75/D75M Practice for Sampling Aggregates

3. Terminology

3.1 For definitions of terms used in this specification, refer to Terminology C1180.

4. Materials and Manufacture

4.1 Aggregate for use in masonry mortar shall consist of natural sand or manufactured sand. Manufactured sand is the product obtained by crushing stone, gravel, or air-cooled iron blast-furnace slag specially processed to ensure suitable gradation.

Note 1—Care should be taken to ensure a suitable particle shape, since excessive quantities of flat and elongated particles have historically caused problems with workability.

¹ This specification is under the jurisdiction of ASTM Committee C12 on Mortars and Grouts for Unit Masonry and is the direct responsibility of Subcommittee C12.04 on Specifications for Aggregates for Mortars.

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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.