
Standard Specification for Aggregate for Masonry Mortar

AASHTO Designation: M 45-16 (2024)¹

Technically Revised: 2016

Reviewed but Not Updated: 2024

Technical Subcommittee: 1c, Aggregates

ASTM Designation: C144-18



American Association of State Highway and Transportation Officials
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AASHTO

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.

2.

REFERENCED DOCUMENTS

- 2.1. *AASHTO Standards:*
 - M 6, Fine Aggregate for Hydraulic Cement Concrete
 - R 90, Sampling Aggregate Products
 - T 11, Materials Finer Than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing
 - T 21M/T 21, Organic Impurities in Fine Aggregates for Concrete
 - T 27, Sieve Analysis of Fine and Coarse Aggregates
 - T 71, Effect of Organic Impurities in Fine Aggregate on Strength of Mortar
 - T 84, Specific Gravity and Absorption of Fine Aggregate
 - T 104, Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate
 - T 112, Clay Lumps and Friable Particles in Aggregate
 - T 113, Lightweight Particles in Aggregate
 - T 304, Uncompacted Void Content of Fine Aggregate
- 2.2. *ASTM Standard:*
 - C270, Standard Specification for Mortar for Unit Masonry

3.

MATERIAL

- 3.1. 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 particle shape as well as gradation.

4.

GRADING

- 4.1. Aggregate for use in masonry mortar shall be graded within the following limits, depending on whether natural sand or manufactured sand is to be used. (See Table 1.)