



Designation: D448 – 08

Standard Classification for Sizes of Aggregate for Road and Bridge Construction¹

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

1. Scope

1.1 This classification defines aggregate size number designations and standard size ranges for mechanical sieve analyses of coarse aggregate and screenings for use in the construction and maintenance of various types of highways and bridges.

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 text of this classification references notes and footnotes which provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of the classification.

2. Referenced Documents

2.1 *ASTM Standards*:²

[C136 Test Method for Sieve Analysis of Fine and Coarse Aggregates](#)

[D8 Terminology Relating to Materials for Roads and Pavements](#)

[D75 Practice for Sampling Aggregates](#)

¹ This classification is under the jurisdiction of ASTM Committee D04 on Road and Paving Materials and is the direct responsibility of Subcommittee D04.50 on Aggregate Specifications.

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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.

[E11 Specification for Woven Wire Test Sieve Cloth and Test Sieves](#)

3. Terminology

3.1 Definition of terms, see Terminology [D8](#).

4. Significance and Use

4.1 Some contract documents specify certain aggregate sizes for specific uses or may suggest one or more of these sizes as appropriate for the preparation of various end-product mixtures. In some cases, closer limits on variability of the aggregate grading are required.

5. Manufacture

5.1 The standard sizes of aggregate described in this classification are manufactured by means of any suitable process used to separate raw material into the desired size ranges. Production of standard sizes by blending two or more different components is permitted.

6. Standard Sizes

6.1 Standard aggregate sizes shall conform to the requirements prescribed in [Table 1](#) for the size number specified. Conformance shall be determined by means of laboratory sieves having square openings and conforming to Specification [E11](#).

7. Basis of Classification

7.1 Classification of an aggregate is based upon the size number designation and size ranges shown in [Table 1](#). Aggregate shall be sampled in accordance with Practice [D75](#) and tested for grading by Test Method [C136](#).