



Designation: ~~D448-03a~~ Designation: D 448 – 08

## Standard Classification for Sizes of Aggregate for Road and Bridge Construction<sup>1</sup>

This standard is issued under the fixed designation D 448; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

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

### 1. Scope

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

~~1.2 With regard to sieve sizes and the size of aggregate as determined by the use of testing sieves, the values in inch-pound units are shown for the convenience of the user; however, the standard sieve designation shown in parentheses is the standard value as stated in Specification E11.~~

~~1.3 The text of this standard 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 standard.~~

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:*<sup>2</sup>

C 136 Test Method for Sieve Analysis of Fine and Coarse Aggregates

D 8 Terminology Relating to Materials for Roads and Pavements

D 75 Practice for Sampling Aggregates

E 11 Specification for Wire Cloth and Sieves for Testing Purposes

### 3. Significance and Use

~~3.1 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. Terminology~~

3.1 Definition of terms, see Terminology D 8.

### 4. Manufacture

~~4.1 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. 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. Standard Sizes

~~5.1 Standard sizes of coarse aggregate shall comply with the sizes given in Manufacture~~

5.1 The standard sizes of aggregate described in this classification are manufactured by means of any suitable process used to

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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

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 ~~All sizes for the size number specified.~~ Conformance shall be determined by means of laboratory sieves having square openings and conforming to Specification E 11.

#### **6.7. Basis of Classification**

6.7.1 Classification of an aggregate is based upon the size number designation and size ranges shown in Table 1 ~~with the aggregate sampled in accordance with Practice D 75.~~ Aggregate shall be sampled in accordance with Practice D 75 and tested for grading by Test Method C 136.

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