



Designation: **D7655/D7655M – 12** **D7655/D7655M – 12 (Reapproved 2017)**

Standard Classification for Size of Aggregate Used as Ballast for Membrane Roof Systems¹

This standard is issued under the fixed designation D7655/D7655M; 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 classification defines the aggregate size designations and ranges in mechanical analyses for standard sizes of aggregate used as ballast for membrane roof systems.

1.2 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 standard.

1.3 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 designations shown in parentheses is the standard value as stated in Specification **E11**.

1.4 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

~~1.5 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 and health practices and determine the applicability of regulatory limitations prior to use.~~

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~~1.6 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

~~C136~~**C136/C136M** Test Method for Sieve Analysis of Fine and Coarse Aggregates

~~D75~~**D75/D75M** Practice for Sampling Aggregates

D1079 Terminology Relating to Roofing and Waterproofing

E11 Specification for Woven Wire Test Sieve Cloth and Test Sieves

2.2 *ANSI/SPRI Standard:*³

RP-4 Wind Design Standard for Ballasted Single-ply Roofing Systems

3. Terminology

3.1 *Definitions*—For definitions of terms used in this specification, refer to Terminology **D1079**.

4. Significance and Use

4.1 The wind resistance of ballasted membrane roof systems is determined largely by the size and weight of the ballasted used. ANSI/SPRI RP-4 provides a method for the wind design of ballasted single-ply membrane roof systems and includes specific

¹ This classification is under the jurisdiction of ASTM Committee **D08** on Roofing and Waterproofing and is the direct responsibility of Subcommittee **D08.20** on Roofing Membrane Systems.

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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.

³ Available from SPRI, 411 Waverley Oaks Road, Suite 331B, Waltham, MA 02452.