



Designation: **D1985 – 03 (Reapproved 2008) D1985 – 13**

Standard Practice for Preparing Concrete Blocks for Testing Sealants, for Joints and Cracks¹

This standard is issued under the fixed designation D1985; 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 practice covers the preparation of concrete blocks used for testing of joint and crack sealants for portland cement concrete and asphaltic concrete pavements. There are numerous standard material specifications that use concrete blocks prepared according to this practice. Refer to the specific standard material specification of interest to determine which tests apply and refer to the test methods for each specific test.

1.2 The values stated in SI units are to be regarded as the standard. The values given in parentheses are provided for information purposes only.

1.3 *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.*

2. Referenced Documents

2.1 *ASTM Standards:*²

[C33 Specification for Concrete Aggregates](#)

[C150 Specification for Portland Cement](#)

[C192/C192M Practice for Making and Curing Concrete Test Specimens in the Laboratory](#)

[E171 Practice for Conditioning and Testing Flexible Barrier Packaging](#)

3. Significance and Use

3.1 It is intended that this practice may be used by manufacturers, users, and testing agencies. The use of this practice establishes a uniform procedure for preparing concrete blocks for the testing of sealants. It is not intended to establish test procedures or conditions of test which are associated with each of the joint sealants.

4. Standard Conditions

4.1 The laboratory atmospheric conditions, hereinafter referred to as standard conditions, shall be in accordance with Specification [E171](#), ($23 \pm 2^\circ\text{C}$ ($73.4 \pm 3.6^\circ\text{F}$) and $50\% \pm 5\%$ relative humidity).

5. Concrete Block Preparation³

5.1 *Materials*—The aggregate shall conform to Specification [C33](#), except as specified herein. The aggregate grading shall be as shown in [Table 1](#). The coarse aggregate shall consist of crushed limestone (plus 95 % CaCO_3) having a water absorption of not more than 1.5 %. The fine aggregate shall consist of crushed limestone and shall be manufactured from the same parent rock as

¹ This practice is under the jurisdiction of ASTM Committee [D04](#) on Road and Paving Materials and is the direct responsibility of Subcommittee [D04.33](#) on Formed In-Place Sealants for Joints and Cracks in Pavements.

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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 The sole source of supply of blocks made to this specification are available from USAE Laboratory, Missouri River Division, 429 S18th Street, Omaha, NE 68101. If you are aware of alternative suppliers, please provide this information to ASTM International Headquarters. Your comments will receive careful consideration at a meeting of the responsible technical committee,¹ which you may attend.