



Designation: D1752 – 18 (Reapproved 2023)

Standard Specification for Preformed Sponge Rubber, Cork, and Recycled PVC Expansion Joint Fillers for Concrete Paving and Structural Construction¹

This standard is issued under the fixed designation D1752; 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 specification covers preformed expansion joint fillers of the following four types for use in concrete, brick, or stone construction.

- 1.1.1 *Type I*—Sponge rubber.
- 1.1.2 *Type II*—Cork.
- 1.1.3 *Type III*—Self-expanding cork.
- 1.1.4 *Type IV*—Recycled PVC.

1.2 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

NOTE 1—Attention is called to Specifications **D994/D994M** and **D1751**.

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.

1.4 *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

D545 Test Methods for Preformed Expansion Joint Fillers for Concrete Construction (Nonextruding and Resilient Types)

¹ This specification is under the jurisdiction of ASTM Committee **D04** on Road and Paving Materials and is the direct responsibility of Subcommittee **D04.34** on Preformed Joint Fillers, Sealers and Sealing 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.

D994/D994M Specification for Preformed Expansion Joint Filler for Concrete (Bituminous Type)

D1751 Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types)

3. Ordering Information

3.1 Products conforming to this specification are manufactured in sheet form to a range of thicknesses: ¼ in., ⅜ in., ½ in., ¾ in., and 1 in. Sheet sizes may be 3 or 4 ft in width and lengths of 3, 5, 6, 10, or 12 ft. Purchaser must specify sheet sizes or strip sizes when ordering.

3.2 Joint filler in strip form is cut from the sheets as manufactured. When ordering joint filler strips, the purchaser must specify thickness, width, and length; strip widths are available from 2 in. (50 mm) in increments of ½ in. (13 mm).

4. Materials

4.1 *Sponge Rubber*—The joint filler shall consist of preformed strips of a durable, elastic sponge rubber compound, using synthetic rubber or natural rubber as a base and containing no reclaimed rubber or factice. Unless otherwise specified, the sponge rubber shall have a cement gray color to blend with concrete in appearance.

4.2 *Cork and Self-Expanding Cork*—The joint filler shall consist of preformed strips that have been formed from clean granulated cork particles securely bound together by a synthetic resin of an insoluble nature.

4.3 *Recycled PVC*—The joint filler shall consist of preformed strips that have been extruded using scrap PVC material and using either no binder or a synthetic resin of an insoluble nature to securely bind it together. Unless otherwise specified, the recycled PVC should have a cement gray color to blend with concrete in appearance.

4.4 Preformed strips of expansion joint fillers shall be of such character as not to be deformed or broken by ordinary handling when exposed to atmospheric conditions. Pieces of the joint filler which have been damaged shall be rejected.