

Designation: C1619 - 11 (Reapproved 2017)

Standard Specification for Elastomeric Seals for Joining Concrete Structures¹

This standard is issued under the fixed designation C1619; 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 the physical property requirements of elastomeric seals (gaskets) used to seal the joints of precast concrete structures conforming to Specifications C14, C14M, C118, C118M, C361, C361M, C443, C443M, C505, or C505M used in gravity and low head pressure applications.
 - 1.2 Requirements are given for natural or synthetic rubber gaskets, or a combination of both.
- 1.3 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.
- 1.4 The following precautionary caveat pertains only to the test method portion, Section 8, of this specification. 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.
- 1.5 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

C14 Specification for Nonreinforced Concrete Sewer, Storm Drain, and Culvert Pipe

C14M Specification for Nonreinforced Concrete Sewer, Storm Drain, and Culvert Pipe (Metric)

C118 Specification for Concrete Pipe for Irrigation or Drainage

C118M Specification for Concrete Pipe for Irrigation or Drainage (Metric)

C361 Specification for Reinforced Concrete Low-Head Pressure Pipe

C361M Specification for Reinforced Concrete Low-Head Pressure Pipe (Metric)

C443 Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets

C443M Specification for Joints for Concrete Pipe and Manholes, Using Rubber Gaskets (Metric)

C497 Test Methods for Concrete Pipe, Manhole Sections, or Tile

C497M Test Methods for Concrete Pipe, Manhole Sections, or Tile (Metric)

C505 Specification for Nonreinforced Concrete Irrigation Pipe with Rubber Gasket Joints

C505M Specification for Nonreinforced Concrete Irrigation Pipe With Rubber Gasket Joints (Metric)

C822 Terminology Relating to Concrete Pipe and Related Products

D395 Test Methods for Rubber Property—Compression Set

D412 Test Methods for Vulcanized Rubber and Thermoplastic Elastomers—Tension

D471 Test Method for Rubber Property—Effect of Liquids

D573 Test Method for Rubber—Deterioration in an Air Oven

D1149 Test Methods for Rubber Deterioration—Cracking in an Ozone Controlled Environment

D1566 Terminology Relating to Rubber

D2240 Test Method for Rubber Property—Durometer Hardness

D2527 Specification for Rubber Seals—Splice Strength

¹ This specification is under the jurisdiction of ASTM Committee C13 on Concrete Pipe and is the direct responsibility of Subcommittee C13.08 on Joints for Precast Concrete Structures.

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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.