



Designation: D7832/D7832M – 14 (Reapproved 2021)

Standard Guide for Performance Attributes of Waterproofing Membranes Applied to Below-Grade Walls / Vertical Surfaces (Enclosing Interior Spaces)¹

This standard is issued under the fixed designation D7832/D7832M; 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 guide lists test methods intended to establish a minimum level of acceptable performance attributes for reinforced or laminated waterproofing membranes applied to below-grade walls.

1.2 This guide does not include cementitious, integral, or bentonite waterproofing systems.

1.3 This guide does not include membranes applied under slabs on grade or on suspended slabs below grade or applied to soil retaining systems, water containment structures, or tunnels.

1.4 It is not possible to establish a precise correlation between laboratory tests on waterproofing membranes and performance attributes after installation due to variations in chemicals in the soil, design, material, and installation.

1.5 The values stated in either inch-pound or SI 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 nonconformance with the standard.

1.6 *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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.7 *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.*

¹ This guide is under the jurisdiction of ASTM Committee D08 on Roofing and Waterproofing and is the direct responsibility of Subcommittee D08.22 on Waterproofing and Dampproofing Systems.

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2. Referenced Documents

2.1 ASTM Standards:²

- C1305/C1305M** Test Method for Crack Bridging Ability of Liquid-Applied Waterproofing Membrane
- C1522** Test Method for Extensibility After Heat Aging of Cold Liquid-Applied Elastomeric Waterproofing Membranes
- D95** Test Method for Water in Petroleum Products and Bituminous Materials by Distillation
- D471** Test Method for Rubber Property—Effect of Liquids
- D543** Practices for Evaluating the Resistance of Plastics to Chemical Reagents
- D570** Test Method for Water Absorption of Plastics
- D896** Practice for Resistance of Adhesive Bonds to Chemical Reagents
- D903** Test Method for Peel or Stripping Strength of Adhesive Bonds
- D1079** Terminology Relating to Roofing and Waterproofing
- D1204** Test Method for Linear Dimensional Changes of Nonrigid Thermoplastic Sheet or Film at Elevated Temperature
- D1790** Test Method for Brittleness Temperature of Plastic Sheet by Impact
- D4551** Specification for Poly(Vinyl Chloride) (PVC) Plastic Flexible Concealed Water-Containment Membrane
- D5147/D5147M** Test Methods for Sampling and Testing Modified Bituminous Sheet Material
- D5385/D5385M** Test Method for Hydrostatic Pressure Resistance of Waterproofing Membranes
- D5636/D5636M** Test Method for Low Temperature Unrolling of Felt or Sheet Roofing and Waterproofing Materials
- D5683/D5683M** Test Method for Flexibility of Roofing and Waterproofing Materials and Membranes
- D5849/D5849M** Test Method for Evaluating Resistance of Modified Bituminous Roofing Membrane to Cyclic Fatigue (Joint Displacement)

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.