



Designation: D7832/D7832M – 24

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.*

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

D471 Test Method for Rubber Property—Effect of Liquids

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

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)

D7234 Test Method for Pull-Off Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers

D7281 Test Method for Determining Water Migration Resistance Through Roof Membranes

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 For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at www.astm.org/contact. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.