



Designation: D7693/D7693M – 15 (Reapproved 2024)^{ε1}

Standard Guide for Application of Heat Weldable Modified Bituminous Waterproofing Membranes Systems for New Concrete Decks¹

This standard is issued under the fixed designation D7693/D7693M; 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.

^{ε1} NOTE—Parts of speech were editorially added to terms in 3.2 in January 2024.

1. Scope

1.1 This guide presents application recommendations for the heat welding installation of multi-ply Styrene Butadiene Styrene (SBS) and Atactic Polypropylene (APP) modified bituminous systems to new, reinforced, cast-in-place structural concrete used as part of a horizontal waterproofing system over occupied spaces of buildings where covered by a separate wearing course.

1.2 For the purpose of this guide, the substrate shall be structurally sound, sloped to drain, able to accept the weight of the membrane and other system materials, and meet the local building code requirements. Similarly, all components of the waterproofing system are assumed to comply with any federal, state, and local environmental regulations that may be in effect at the time of installation. Expansion joints, insulation, drainage layers, filter sheets, overburden, and the wearing surfaces are beyond the scope of this guide.

1.3 The values stated in either SI units or inch-pound 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.

1.4 *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.*

1.5 *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 Recom-*

mendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

2. Referenced Documents

2.1 ASTM Standards:²

- D41/D41M Specification for Asphalt Primer Used in Roofing, Dampproofing, and Waterproofing
- D1079 Terminology Relating to Roofing and Waterproofing
- D3019/D3019M Specification for Lap Cement Used with Asphalt Roll Roofing, Non-Fibred, and Fibred
- D4586/D4586M Specification for Asphalt Roof Cement, Asbestos-Free
- D5295/D5295M Guide for Preparation of Concrete Surfaces for Adhered (Bonded) Membrane Waterproofing Systems
- D5898/D5898M Guide for Standard Details for Adhered Sheet Waterproofing
- D5957 Guide for Flood Testing Horizontal Waterproofing Installations
- D6162/D6162M Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements
- D6163/D6163M Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Glass Fiber Reinforcements
- D6164/D6164M Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Polyester Reinforcements
- D6222/D6222M Specification for Atactic Polypropylene (APP) Modified Bituminous Sheet Materials Using Polyester Reinforcements
- D6223/D6223M Specification for Atactic Polypropylene (APP) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements
- D6451/D6451M Guide for Application of Asphalt-Based Protection Board

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 service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.