



Standard Guide for Design of Built-Up Bituminous Membrane Waterproofing Systems for Building Decks¹

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1. Scope

1.1 This guide describes the design of fully adhered built-up bituminous membrane waterproofing systems for plaza deck and promenade construction over occupied spaces of buildings where covered by a separate wearing course.

1.2 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

1.3 The committee with jurisdiction over this standard is not aware of any comparable standards published by other organizations.

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

2. Referenced Documents

2.1 *ASTM Standards:*²

C33 Specification for Concrete Aggregates

C578 Specification for Rigid, Cellular Polystyrene Thermal Insulation

C717 Terminology of Building Seals and Sealants

C755 Practice for Selection of Water Vapor Retarders for Thermal Insulation

C1193 Guide for Use of Joint Sealants

C1299 Guide for Use in Selection of Liquid-Applied Sealants (Withdrawn 2012)³

C1472 Guide for Calculating Movement and Other Effects When Establishing Sealant Joint Width

D41 Specification for Asphalt Primer Used in Roofing, Dampproofing, and Waterproofing

D43 Specification for Coal Tar Primer Used in Roofing, Dampproofing, and Waterproofing

D173 Specification for Bitumen-Saturated Cotton Fabrics Used in Roofing and Waterproofing

D226 Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing

D227 Specification for Coal-Tar-Saturated Organic Felt Used in Roofing and Waterproofing

D312 Specification for Asphalt Used in Roofing

D449 Specification for Asphalt Used in Dampproofing and Waterproofing

D450 Specification for Coal-Tar Pitch Used in Roofing, Dampproofing, and Waterproofing

D1079 Terminology Relating to Roofing and Waterproofing

D1327 Specification for Bitumen-Saturated Woven Burlap Fabrics Used in Roofing and Waterproofing

D1668 Specification for Glass Fabrics (Woven and Treated) for Roofing and Waterproofing

D2178 Specification for Asphalt Glass Felt Used in Roofing and Waterproofing

D2822 Specification for Asphalt Roof Cement, Asbestos-Containing

D4022 Specification for Coal Tar Roof Cement, Asbestos-Containing

D4586 Specification for Asphalt Roof Cement, Asbestos-Free

D4601 Specification for Asphalt-Coated Glass Fiber Base Sheet Used in Roofing

D4990 Specification for Coal Tar Glass Felt Used in Roofing and Waterproofing

D5295 Guide for Preparation of Concrete Surfaces for Adhered (Bonded) Membrane Waterproofing Systems

D5898 Guide for Details for Adhered Sheet Waterproofing

D5957 Guide for Flood Testing Horizontal Waterproofing Installations

D6152 Specification for SEBS-Modified Mopping Asphalt Used in Roofing

D6162 Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using a Combination of Polyester and Glass Fiber Reinforcements

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.

³ The last approved version of this historical standard is referenced on www.astm.org.