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Standard Guide for Application of Fully Adhered, Cold-Applied, Prefabricated Reinforced Modified Bituminous Membrane Waterproofing Systems¹

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1. Scope

1.1 This guide lists application and installation requirements for fully adhered, cold-applied, prefabricated modified bituminous membrane waterproofing systems for below-grade or below-wearing-surface (such as plaza decks) vertical or horizontal applications.

1.2 For the purposes of this application guide, the substrate is assumed to be structurally sound, sloped to drain (if new construction), and meeting the local building code requirements. Similarly, the system components are assumed to comply with all federal, state, and local requirements in effect at the time of installation.

1.3 The values in SI units are to be regarded as standard. The values in parentheses are for information only.

1.4 *This guide may involve hazardous materials, operations, and equipment. 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 requirements prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*²

D1079 Terminology Relating to 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

3. Terminology

3.1 *Definitions:*

¹ This guide is under the jurisdiction of ASTM Committee D08 on Roofing, Waterproofing, and Bituminous Materials and is the direct responsibility of Subcommittee D08.22 on Waterproofing and Damproofing 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.

3.1.1 *lift, n*—the height or length of sheet that may be comfortably handled by the person applying the sheet to a vertical surface. This is normally the height of this person, or 1.5 to 2.1 m (5 to 7 ft).

3.1.2 *skin over, n*—a condition in which the surface of the material is no longer tacky, but will move under slight finger pressure.

3.1.3 *tack, n*—a condition in which if the surface is touched, there will be a string of material attached to the finger.

3.2 For definitions of other terms relating to waterproofing, see Terminology **D1079**.

4. Significance and Use

4.1 This guide outlines general procedures for the storage and application of various prefabricated sheets made using modified bituminous materials and intended for use as below-grade and below-wearing-surface waterproofing.

4.2 The substrate used for applications described in this guide shall be concrete or masonry.

4.3 This application consists of a prefabricated reinforced modified bituminous sheet applied to a suitable substrate using a bituminous-based, cold-applied adhesive or mastic. Application rates given are typical for such installations.

4.4 This guide is intended to supplement instructions from designers and manufacturers.

5. Delivery of Materials

5.1 Deliver materials in supplier's original containers and packaging.

6. Storage and Handling

6.1 Store adhesive or mastic in tightly closed original containers under the conditions recommended by the manufacturer.

6.2 Store the modified bituminous sheet in the manufacturer's original packaging in the manner specified by the manufacturer. Storage on wood pallets and stacking usually no more than five rolls high is recommended. Protect against exposure to direct sunlight, precipitation, dust, and other such contaminants. If inside storage is not available, tarp only with canvas