



Designation: D 6135 – 97

Standard Practice for Application of Self-Adhering Modified Bituminous Waterproofing¹

This standard is issued under the fixed designation D 6135; 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 practice covers the minimum installation recommendations for self-adhering modified bitumen sheets used in waterproofing.

1.2 *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.*

1.3 For the purpose of this application practice, the substrate is assumed to be structurally sound, sloped to drain, able to accept the weight of the membrane and other system materials, and meets the local building code requirements. Similarly, all components of the waterproofing system are assumed to comply with any federal, state, and local environmental regulations, which may be in affect at the time of installation. Additional plies of membrane, expansion joints, insulation and drainage layers are beyond the scope of this practice.

2. Referenced Documents

2.1 ASTM Standards:

B 29 Specifications for Pig Lead²

D 1079 Terminology Relating to Roofing, Waterproofing, and Bituminous Materials³

D 5295 Guide for the Preparation of Concrete Surfaces for Adhered (Bonded) Membrane Waterproofing Systems³

D 5957 Guide for Flood Testing Horizontal Waterproofing Installations³

2.2 Other Standard:

FMRC Approval Standard 4470⁴

3. Terminology

3.1 *Definitions:* The terms used in this practice are defined in accordance with Terminology D 1079.

3.2 *Definitions of Terms Specific to This Standard:*

¹ This practice is under the jurisdiction of ASTM Committee D-08 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 *Annual Book of ASTM Standards*, Vol 02.04.

³ *Annual Book of ASTM Standards*, Vol 04.04.

⁴ Available from Factory Mutual Research Corporation (FMRC), 1151 Boston Providence Turnpike, Norwood, MA 02062.

3.2.1 *joint, n*—the overlap of three intersecting sheets in the membrane.

4. Significance and Use

4.1 This practice outlines general procedures and precautions for the application of self-adhering modified bitumen waterproofing systems used in new installations.

4.2 This practice is not all-inclusive and is intended only to supplement detailed instructions from designers.

5. Delivery of Materials

5.1 Deliver materials in system supplier's unopened containers and packages.

5.2 All materials or material packaging must be marked clearly in a weather-resistant manner with type, stock, lot number, and other pertinent information as required by purchaser.

6. Storage and Handling

6.1 Store sheet materials in a horizontal position, elevated off the ground and under protective waterproof coverings to prevent contamination of the sheet surfaces.

6.2 Store primer, surface conditioner, and mastic in tightly closed original containers at temperatures within the range recommended by the system supplier. Protect primer, surface conditioner, and mastic from moisture and potential sources of ignition.

6.3 Bring the sheets to the job site in good condition, and handle materials so as not to damage them.

7. Environmental Conditions

7.1 Consult system supplier for any special application procedures when ambient temperatures are expected to be below 40°F (4.4°C).

8. Materials

8.1 *Modified Bitumen Prefabricated Sheet*—Self-adhering modified bitumen sheet used in waterproofing.

8.2 *Primer and Surface Conditioner*—Material, to prepare the substrate to accept the membrane.

8.3 *Liquid Membrane*—Material for inside corner fillets, reinforcements, and terminations.