



Designation: D6451/D6451M – 99 (Reapproved 2021)

Standard Guide for Application of Asphalt-Based Protection Board¹

This standard is issued under the fixed designation D6451/D6451M; 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 minimum application and installation requirements for semi-rigid protection board when used as protection for below-grade or below wearing surface (like plaza decks) waterproofing.

1.2 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.

1.3 *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.* For specific precautionary statements, see Section 8.

1.4 *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

D1079 Terminology Relating to Roofing and Waterproofing
D5957 Guide for Flood Testing Horizontal Waterproofing Installations

3. Terminology

3.1 *Definitions*—For definitions of terms relating to waterproofing, see Terminology D1079.

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.

4. Significance and Use

4.1 This guide outlines general procedures for the storage and application of semi-rigid protection board to below-grade and below wearing surface waterproofing. The proper application is necessary to prevent damage to the waterproofing membrane during backfilling, paving, or other construction operations, as well as to minimize the effects of soil stresses.

4.2 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 and mastic in tightly closed original containers under conditions as recommended by the manufacturer.

6.2 Store the protection board in supplier's original packaging in a horizontal position to prevent deformation. Protect against exposure to direct sunlight, precipitation, dust, and other such contaminants.

7. Materials

7.1 Adhesive, when used, must be acceptable to or have been recommended by the waterproofing membrane manufacturer or supplier and further must be fully compatible with the membrane and the asphalt protection board.

7.2 Mastic or tape, or both (if used on the joints), must be acceptable to or have been recommended by the waterproofing membrane manufacturer or supplier and further be fully compatible with the membrane and the asphalt protection board.

8. Safety Precautions

8.1 Store flammable materials in a manner that will not pose a fire hazard. Solvent bearing adhesives may be flammable. Do not use flammable materials near an open flame or equipment that may produce sparks.

9. Environmental Conditions at Time of Application

9.1 Environmental conditions under which installation may proceed shall be as recommended by the suppliers of the adhesive and the protection board.