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.

Designation: D7505/D7505M – 17

Standard Specification for Self-Adhesive Polyester Fabric Reinforced Polymer Modified Asphalt Steep Slope Roll Roofing Surfaced with Mineral Granules[1]

This standard is issued under the fixed designation D7505/D7505M; 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 specification covers prefabricated, self-adhesive, polyester fabric reinforced, polymer-modified asphalt surfaced roll roofing products, with granule surfacing, designed for steep slope applications. These products use polymer modifiers in their top and bottom coatings. These products have an adhesive bottom layer which is exposed by removal of a peel-away protective release paper or film sheet.

1.2 The specified tests and property limits used to characterize the sheet materials are intended to establish minimum properties. In-place roof system design criteria, such as fire resistance, field strength, impact/puncture resistance, material compatibility, uplift resistance, and others, are factors beyond the scope of this material specification. Factors regarding the suitability of specific roof constructions or application techniques are beyond this scope.

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 non-conformance 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 and health 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 Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ASTM Standards:*[2]

D903 Test Method for Peel or Stripping Strength of Adhesive Bonds

D1079 Terminology Relating to Roofing and Waterproofing

D4977/D4977M Test Method for Granule Adhesion to Mineral Surfaced Roofing by Abrasion

D5147/D5147M Test Methods for Sampling and Testing Modified Bituminous Sheet Material

3. Terminology

3.1 *Definitions:*

3.1.1 For definitions of terms used in this specification, refer to Terminology D1079.

3.1.2 *ultimate elongation, n*—the elongation measured on the load-elongation curve at which point the load has dropped to 5 % of its maximum value, after the peak load has been reached.

4. Materials and Manufacture

4.1 In the process of manufacture, the reinforcing mat is permitted to be impregnated with asphalt or modified asphalt and is coated on its top and bottom sides with polymer modified asphalt coatings. The polymer modified asphalt coatings are permitted to be compounded with a mineral stabilizer. The coating on the bottom side shall feature self-adhesive properties.

4.2 The sheet is surfaced on the weather side with mineral granules, except for any selvage.

5. Physical Properties

5.1 The sheet shall conform to the minimum physical properties prescribed in Table 1.

5.2 The finished product shall not crack nor be so sticky as to cause tearing or other material damage upon being unrolled

[1] This specification is under the jurisdiction of ASTM Committee D08 on Roofing and Waterproofing and is the direct responsibility of Subcommittee D08.02 on Steep Roofing Products and Assemblies.

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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.

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