



Designation: D 6757 – 02

## Standard Specification for Inorganic Underlayment for Use with Steep Slope Roofing Products<sup>1</sup>

This standard is issued under the fixed designation D 6757; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

### 1. Scope

1.1 This specification covers (1) inorganic fiber reinforced organic felt underlayment and (2) inorganic fiber based felt for use as underlayment with steep slope roofing products. The intent of this standard is to provide criteria for producing and evaluating underlayments with a significantly reduced tendency to wrinkle before or after the installation of steep roofing products.

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

1.3 The following safety hazards caveat pertains only to the test method portion, Section 8, of this specification: *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:

- D 146 Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing<sup>2</sup>
- D 228 Test Methods for Sampling, Testing, and Analysis of Asphalt Roll Roofing, Cap Sheets, and Shingles Used in Roofing and Waterproofing<sup>2</sup>
- D 1079 Terminology Relating to Roofing, Waterproofing, and Bituminous Materials<sup>2</sup>
- D 3462 Specification for Asphalt Shingles Made from Glass Felt and Surfaced with Mineral Granules<sup>2</sup>
- D 4869 Specification for Asphalt-Saturated Organic Felt Underlayment Used in Steep Slope Roofing<sup>2</sup>
- F 1087 Test Method for Linear Dimensional Stability of a Gasket Material to Moisture<sup>3</sup>

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee D08 on Roofing, Waterproofing, and Bituminous Materials and is the direct responsibility of Subcommittee D08.02 on Prepared Roofing.

Current edition approved Jan. 10, 2002. Published March 2002.

<sup>2</sup> Annual Book of ASTM Standards, Vol 04.04.

<sup>3</sup> Annual Book of ASTM Standards, Vol 09.02.

### 3. Terminology

3.1 *Definitions*—For definitions of terms used in this specification, refer to Terminology D 1079.

### 4. Classification

4.1 Organic felts that are reinforced with inorganic fibers are covered by this specification.

4.2 Inorganic fiber based asphaltic and nonasphaltic felts are covered by this specification.

### 5. Materials and Manufacture

5.1 In the process of manufacture, a single thickness of inorganic mat or organic felt that is reinforced with inorganic fibers shall be uniformly saturated or coated. This coating may or may not be mineral filled.

### 6. Performance Requirements

6.1 The material shall conform to the physical requirements prescribed in Table 1.

6.2 The finished product shall not crack nor be so sticky as to cause tearing or other damage upon being unrolled at temperatures between  $-1$  and  $60^{\circ}\text{C}$  ( $30$  and  $140^{\circ}\text{F}$ ). The finished product shall pass the water shower exposure test described in 8.1.4, indicating resistance to liquid water transmission.

### 7. Dimensions, Masses, Workmanship, Finish, and Appearance

7.1 Dimensions and masses to be agreed upon between buyer and seller.

7.2 The finished material shall be free of visible external defects, such as holes, ragged or untrue edges, breaks, cracks, tears, bulges, and indentations.

### 8. Sampling and Test Methods

8.1 Sample the material and determine the properties enumerated in this specification in accordance with Test Methods D 146.

8.1.1 *Tear Strength*—Use test method as described in Specification D 3462.