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# Standard Specification for Reinforced Bituminous Flashing Sheets for Roofing and Waterproofing[1]

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## 1. Scope

1.1 This specification covers factory prepared reinforced bituminous sheet used in flashing. The bitumen used may be asphalt, coal-tar pitch, or polymer modified bitumen. The reinforcement may include any one or a combination of organic (wood fiber), polyester, or glass fiber felts, woven fabrics, or thermoplastic films. Fine mineral powders, granules, or metal foils may be used as surfacing.

1.2 The values stated in SI units are to be regarded as standard. The inch-pound units shown in parentheses are for information only.

1.3 The following precautionary statement pertains only to the test method portion, Section 7, 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 limitations prior to use.*

## 2. Referenced Documents

2.1 *ASTM Standards:*

D 228 Test Methods for Asphalt Roll Roofing, Cap Sheets, and Shingles[2]

D 751 Test Methods for Coated Fabrics[3]

D 1079 Terminology Relating to Roofing, Waterproofing, and Bituminous Materials[2]

D 2523 Practice for Testing Load-Strain Properties of Roofing Membranes[2]

D 3746 Test Method for Impact Resistance of Bituminous Roofing Systems[2]

D 5601 Test Method for Tearing Resistance of Roofing and Waterproofing Materials and Membranes[2]

D 5683 Test Method for Flexibility of Roofing and Waterproofing Materials and Membranes[2]

D 5869 Practice for Dark Oven Heat Exposure of Bituminous Materials[2]

## 3. Terminology

3.1 *Definitions*:

3.1.1 See Terminology D 1079 for terms relating to roofing or waterproofing.

## 4. Classification

4.1 *Type 1*—Heavy, thick flashing sheets.

4.2 *Type 2*—Light weight, thin flashing sheets

## 5. Significance and Use

5.1 The criteria listed in this specification are based on round robin testing of materials that, if correctly installed, can be used as the primary material for flashing membranes. The manufacturer's installation recommendations must be followed in every case.

5.2 Compliance with the criteria in this specification is believed to be necessary for satisfactory performance, but the linkage has not been established between performance and these criteria.

## 6. Physical Properties

6.1 Conform to criteria in Table 1.

6.2 The mean mass, thickness, load at break, and elongation at break shall not change more than 10 % from the expected variance after heat conditioning.

## 7. Sampling and Test Methods

7.1 Comply with Test Methods D 228 for sampling.

7.2 Use the following test methods to test the samples:

7.2.1 *Mass*—See Test Methods D 228.

7.2.2 *Thickness*—See Test Methods D 751.

7.2.3 *Load-Strain Properties*—See Practice D 2523 except as noted herein: test five 25 × 150 mm (1 × 6 in.) strips in both the length and width of the roll, using a 100 mm (4 in.) jaw gap, and separate the jaws at 0.85 mm/s (2 in./min.). Record maximum load and elongation at maximum load.

7.2.4 *Impact Resistance*—See Test Method 3746, test with each sample loose laid on a nominal 25 mm (1 in.) thick fiberboard insulation.

7.2.5 *Tear Strength*— See Test Method D 5601.

7.2.6 *Flexibility*— See Test Method D 5683.

7.2.7 *Heat Conditioning*—Mass, thickness, load, and elongation after 35 ± 0.25 consecutive days of heat conditioning in

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[2] *Annual Book of ASTM Standards*, Vol 04.04.

[3] *Annual Book of ASTM Standards*, Vol 09.02.

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