



Standard Specification for ASPHALT-SATURATED AND COATED ORGANIC FELT USED IN ROOFING¹

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1. Scope

1.1 This specification covers asphalt-saturated and coated organic felt, with fine mineral surfacing on the top side, with or without perforations, for use in the construction of built-up roofs.

1.2 The values stated in SI units are to be regarded as the standard.

2. Applicable Documents

2.1 ASTM Standards:

D 95 Test for Water in Petroleum Products and Bituminous Materials by Distillation²

D 146 Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics Used in Roofing and Waterproofing²

D 228 Testing Asphalt Roll Roofing, Cap Sheets, and Shingles²

D 1079 Definitions of Terms Relating to Roofing, Waterproofing, and Bituminous Materials²

3. Definitions

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

4. Materials and Manufacture

4.1 In the process of manufacture, a single thickness of dry organic felt shall be saturated with hot asphalt, coated on both sides with a hot asphaltic material, and surfaced on the top side with fine mineral surfacing.

4.2 The felt shall be produced principally from organic fibers, or mixtures thereof. The surface of the felt shall be uniform and relatively smooth. Upon splitting or tearing on the bias, the felt shall appear reasonably free of lumps and particles of foreign substances.

4.3 The hot asphaltic coating material may be compounded with a mineral stabilizer substantially insoluble in water.

4.4 The reverse side of the sheet may be covered with a suitable material to prevent sticking in the roll.

5. Physical Requirements

5.1 The material shall conform to the physical requirements prescribed in Table 1 and the dimensions and masses prescribed in Table 2.

5.2 The finished product shall not crack nor be so sticky as to cause tearing or other damage upon being unrolled at temperatures between 10 and 60°C (50 and 140°F).

5.3 *Pliability at 25°C (77°F)*—At least eight strips out of ten shall not crack when tested in accordance with Section 16 of Method D 228.

5.4 *Loss and Behavior on Heating*—There shall be no more than 1.5 % volatile loss; and there shall be no flowing, sagging, blistering, or absorption of the asphalt coating when tested in accordance with Section 17 of Method D 228.

6. Workmanship, Finish, and Appearance

6.1 The felt shall be completely and uniformly saturated and shall show no unsaturated spots at any point upon cutting 50-mm (2-in.) wide strips at random across the entire sheet

¹ This specification is under the jurisdiction of ASTM Committee D-8 on Roofing, Waterproofing, and Bituminous Materials and is the direct responsibility of Subcommittee D08.04 on Fabrics for Bituminous Roofing and Waterproofing.

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² *Annual Book of ASTM Standards*, Part 15.