



Designation: D 2626 – 97b

Standard Specification for Asphalt-Saturated and Coated Organic Felt Base Sheet Used in Roofing¹

This standard is issued under the fixed designation D 2626; 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.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This specification covers asphalt-saturated and coated organic felt base sheet with mineral surfacing on the top side, with or without perforations, for use as the first ply of a built-up roof. When not perforated this sheet is suitable for use as a vapor retarder, with a solid mopping of asphaltic material, under roof insulation or between multiple layers of roof insulation.

1.2 The values stated in inch-pound units are to be regarded as the standard.

2. Referenced Documents

2.1 ASTM Standards:

D 146 Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing²

D 226 Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing²

D 228 Test Methods for Asphalt Roll Roofing, Cap Sheets, and Shingles²

D 1079 Terminology Relating to Roofing, Waterproofing, and Bituminous Materials²

E 96 Test Methods for Water Vapor Transmission of Materials³

3. Terminology

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

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *lot*—for the purpose of sampling, a lot shall consist of all material of the same type and size offered for delivery at one time.

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

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² Annual Book of ASTM Standards, Vol 04.04.

³ Annual Book of ASTM Standards, Vol 04.06.

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 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 coating shall be a hot-applied asphalt material permitted to be compounded with a mineral stabilizer.

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

5. Physical Properties

5.1 The material shall conform to the physical requirements prescribed in Table 1 and the dimensions and masses prescribed in Table 2 and Table 3. Perforated base sheets shall conform to the same requirements as the plain type but shall also have uniformly spaced perforations.

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 50 and 140°F (10 and 60°C).

6. Dimensions, Mass, and Permissible Variations

6.1 The material shall conform to the dimensions and masses prescribed in Table 2.

6.2 Perforated material shall also conform to the dimensions and other requirements prescribed in Table 3.

7. Workmanship, Finish, and Appearance

7.1 The felt shall be thoroughly and uniformly saturated, and shall show no unsaturated spots at any point upon cutting 2-in. (50-mm) wide strips at random across the entire width of the sheet and splitting them open for their full length.

7.2 The coating shall be applied uniformly on both sides of the sheet in a continuous, unbroken film that extends to the edges of the sheet. The coating may be smooth or finely veined, but not coarsely veined.