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Standard Specification for Coal-Tar-Saturated Organic Felt Used in Roofing and Waterproofing¹

This standard is issued under the fixed designation D 227; 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. This specification replaces Federal specification HH-R-595, Type 15C.

1. Scope

- 1.1 This specification covers coal-tar-saturated organic felt intended to be used with coal-tar pitches conforming to the appropriate requirements of Specification D 450 in the construction of built-up roofs and in the construction of waterproofing systems.
- 1.2 The values stated in $\frac{\text{inch-pound}SI}{\text{information only}}$ units are to be regarded as the standard. The values given in parentheses are for information only.

2. Referenced Documents

- 2.1 ASTM Standards:²
- D 146 Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing
- D 450 Specification for Coal-Tar Pitch Used in Roofing, Dampproofing, and Waterproofing
- D 1079 Terminology Relating to Roofing, Waterproofing, and Bituminous Materials

3. Terminology

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

4. Materials and Manufacture

- 4.1 In the process of manufacture, a single thickness of dry felt shall be saturated with refined coal-tar from which some of the more volatile constituents have been removed.
- 4.2 The felt shall be produced principally from organic fibers, 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.

5. Physical Requirements Physical Requirements

- 5.1 The material shall conform to the physical requirements prescribed in Table 1.
- 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 $50\underline{10}$ and $140^{\circ}F$ ($10\underline{60^{\circ}C}$ (50 and $60^{\circ}C$). $140^{\circ}F$).

6. Workmanship, Finish, and Appearance

- 6.1 The felt shall be saturated and shall show no unsaturated spots at any point upon cutting 2-in. (50-mm)50-mm (2-in.) wide strips at random across the entire sheet and splitting them open to their full length.
- 6.2 The surface of the felt shall not be coated or covered with talc or other substances that would tend to interfere with adhesion between the felt and the plying cement.
- 6.3 The finished material shall be free of visible external defects such as holes, ragged or untrue edges, breaks, cracks, tears, protuberances, and indentations.

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 on Roofing and Waterproofing and is the direct responsibility of Subcommittee D08.04 on Felts and Fabrics for Bituminous Roofing and Waterproofing. Current edition approved July 10, 1997. Published January 1998. Originally published as D227–25T. Last previous editionD227–97.on Felts and Fabrics.

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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.