Designation: D1327 – 04

Standard Specification for Bitumen-Saturated Woven Burlap Fabrics Used in Roofing and Waterproofing[1]

This standard is issued under the fixed designation D1327; 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 woven burlap fabrics, saturated with either asphalt or refined coal-tar, as specified by the purchaser, for use in the membrane system of roofing or waterproofing or as specified by the manufacturer.

1.1.1 *Asphalt-saturated burlap fabric* shall be used with asphalt base plying cement; typical ones are mopping asphalts conforming to Specifications D312, D449, or appropriate solvent-bearing bituminous materials.

1.1.2 *Coal-tar-saturated burlap fabric* shall be used with coal-tar base plying cements; typical ones are coal-tar pitches conforming to Specification D450, or appropriate solvent-bearing bituminous materials.

1.2 The values stated in SI 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]

D146 Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing

D312 Specification for Asphalt Used in Roofing

D449 Specification for Asphalt Used in Dampproofing and Waterproofing

D450 Specification for Coal-Tar Pitch Used in Roofing, Dampproofing, and Waterproofing

D1079 Terminology Relating to Roofing and Waterproofing

2.2 *AATCC Standard:*

Method 30-1974 Test for Resistance of Textiles to Mildew and Rot[3]

3. Terminology

3.1 *Definitions*—For definitions of terms used in this specification, refer to Terminology D1079.

4. Materials and Manufacture

4.1 The fabric to be saturated shall be composed of 100 % jute fiber except for two cotton threads in each selvage. If the selvage is used, it shall be no more than 6 mm (¼ in.) wide. The minimum fabric construction used shall be 180 g/m^2 (5.4 oz/yd^2) minimum burlap.

4.2 In the process of manufacture, the dry burlap fabric shall be saturated with bitumen.

5. Physical Properties

5.1 The material shall conform to the physical properties prescribed in Table 1.

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

5.3 *Resistance to Rotting*—The average percentage of the original strength retained by the saturated product shall be at least 1.75 times that retained by the control sample after one week.

6. Workmanship, Finish, and Appearance

6.1 The burlap fabric shall be thoroughly and uniformly saturated in such a manner that every fiber shall be visibly stained through by the saturant.

6.2 The meshes of the fabric shall not be completely closed or sealed by the process of saturation. There shall be sufficient porosity maintained to allow successive moppings of the plying cement to seep through.

[1] This specification is under the jurisdiction of ASTM Committee D08 on Roofing and Waterproofing and is the direct responsibility of Subcommittee D08.04 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.

[3] Available from American Association of Textile Chemists and Colorists (AATCC), One Davis Dr., P.O. Box 12215, Research Triangle Park, NC 27709-2215.