



Designation: D1327/D1327M – 04 (Reapproved 2012)<sup>ε1</sup>

# Standard Specification for Bitumen-Saturated Woven Burlap Fabrics Used in Roofing and Waterproofing<sup>1</sup>

This standard is issued under the fixed designation D1327/D1327M; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

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

<sup>ε1</sup> NOTE—Units information was editorially corrected in June 2012.

## 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 either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

## 2. Referenced Documents

### 2.1 ASTM Standards:<sup>2</sup>

[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<sup>3</sup>](#)

## 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 [ $\frac{1}{4}$  in.] wide. The minimum fabric construction used shall be 180 g/m<sup>2</sup> [5.4 oz/yd<sup>2</sup>] 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.

<sup>1</sup> 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, Fabrics and Bituminous Sheet Materials.

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<sup>2</sup> For referenced ASTM standards, visit the ASTM website, [www.astm.org](http://www.astm.org), or contact ASTM Customer Service at [service@astm.org](mailto:service@astm.org). For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

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