



~~Designation: D6298-00~~ Designation: D 6298 – 05^{ε1}

Standard Specification for Fiberglass Reinforced Styrene-Butadiene-Styrene (SBS) Modified Bituminous Sheets with a Factory Applied Metal Surface¹

This standard is issued under the fixed designation D 6298; 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.

^{ε1} NOTE—Table 1 was editorially corrected in March 2008.

1. Scope

1.1 This specification covers fiberglass reinforced modified bituminous sheet materials ~~which~~that use styrene-butadiene-styrene (SBS) thermoplastic elastomer as the primary ~~modifier,~~modifier and are surfaced with a factory applied continuous metal foil. These materials are intended for use in the fabrication of multiple ply roofing and waterproofing membranes and flashings.

1.2 This specification is intended as a material specification only. Questions regarding the suitability of the specific roof constructions or application techniques are beyond the scope of this specification.

1.3 The specified tests and property limits are intended to establish minimum properties. In place roof system design criteria such as fire resistance, field strength, impact/puncture resistance, material compatibility, uplift resistance, and others, are factors beyond the scope of this specification.

1.4 The values stated in SI units are to be regarded as the standard. The inch-pound units given in parentheses are for information only.

1.5 The following precautionary statement pertains to the test method portion only, Section 8 of this Specification: *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

Document Preview

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

Current edition approved ~~July 10, 2000~~ Sept. 1, 2005. Published September ~~2000~~ 2005. Originally ~~published as D6298-98~~ approved in 1998. Last previous edition ~~D6298-98~~ approved in 2000 as D 6298 – 00.

2. Referenced Documents

2.1 ASTM Standards:²

~~D 1079 Terminology Relating to Roofing, Waterproofing, and Bituminous Materials~~ Terminology Relating to Roofing and Waterproofing

~~D 5147 Test Methods for Sampling and Testing Modified Bituminous Sheet Materials Used in Roofing and Waterproofing²~~

~~2.2 Canadian General Standards Board Document:~~

~~Canadian General Standards Board, CGSB 37-GP-56M Standard For: Membrane, Modified, Bituminous, Prefabricated, and Reinforced for Roofing~~ Test Methods for Sampling and Testing Modified Bituminous Sheet Material

~~D 7051 Test Method for Cyclic Thermal Shock of SBS-Modified Bituminous Roofing Sheets with Factory-Applied Metal Surface~~

3. Terminology

3.1 Definitions:

~~3.1.1 For~~ For definitions of terms used in this specification, refer to ~~Definitions~~ Terminology D 1079.

4. Materials and Manufacture

4.1 In the process of manufacture, the fiberglass reinforcement is impregnated and coated on both sides with a SBS modified bituminous coating. The sheet is surfaced with a continuous metal foil except for any selvage. The SBS modified bituminous coating shall be permitted to be compounded with a mineral stabilizer.

4.2 The metal surfacing shall be omitted on any selvage. To prevent sticking in the roll, the reverse side and any selvage shall be permitted to be covered with a fine mineral surfacing or any other surfacing that will not interfere with adhesion or bonding of the lap during application.

4.3 Foil-faced products intended for use where the application is to be by heat welding (torching) shall meet the minimum back surface coating requirement found in Table 1.

5. Physical Properties

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

5.2 The finished product shall not crack nor be so sticky as to cause other material damage upon being unrolled at product temperatures between 4 and 60°C (40 and 140°F).

6. Dimensions, Mass, and Permissible Variations

6.1 The width of the roll shall be as agreed between the purchaser and the seller and shall not vary more than $\pm 1\%$.

6.2 The area of the roll shall not be less than as agreed upon between the purchaser and seller.

6.3 The selvage width shall be within ± 6.4 mm ($\frac{1}{4}$ in.) of the nominal value and shall not be less than 57 mm (2.25 in.).

7. Workmanship, Finish and Appearance

7.1 The finished product shall be completely coated in a continuous, unbroken film and shall be free of such defects as holes, ragged or untrue edges, breaks, cracks, tears, protrusions, delaminations, and indentations.

7.2 The metal surface shall be uniform in surface and texture, that is, free from such defects as holes, breaks tears, protrusions, and indentations (except for intended factory embossing pattern).

7.3 The line of demarcation between the metal-surfaced portion of the weather side and any selvage shall be straight and parallel to the edge of the sheet.

7.4 When unrolled on a smooth plane, the sheet shall be flat, straight, and true so the lap will mate with the adjacent sheet within the tolerance of the lap without wrinkles, buckles, or fishmouths.

8. Sampling and Test Methods

8.1 Sample the material and determine the properties described in this specification in accordance with Test Method D 5147 unless otherwise indicated.

~~8.2 Ultimate Elongation~~—~~Sample the material and determine the ultimate elongation at $23 \pm 2^\circ\text{C}$ ($73.4 \pm 3.6^\circ\text{F}$) in accordance with Section 6 of Test Method 5147, and as described herein. Ultimate elongation is defined as the elongation measured on the load-elongation curve at which point the load has dropped to 5% of its maximum value.~~

~~8.3 Sample the material and determine the cyclic thermal shock stability according to CGSB (Canadian General Standards Board) 37-GP-56M with the following exceptions:~~

~~8.3.1 Sampling and Test Specimens:~~

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* Vol 04.04 volume information, refer to the standard's Document Summary page on the ASTM website.