



Designation: D6298/D6298M – 16 (Reapproved 2023)

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 D6298/D6298M; 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.

1. Scope

1.1 This specification covers fiberglass reinforced modified bituminous sheet materials that use styrene-butadiene-styrene (SBS) thermoplastic elastomer as the primary 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 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.

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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.6 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recom-*

mendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

2. Referenced Documents

2.1 *ASTM Standards:*²

D1079 Terminology Relating to Roofing and Waterproofing
D5147/D5147M Test Methods for Sampling and Testing
Modified Bituminous Sheet Material

D7051 Test Method for Cyclic Thermal Shock of SBS-
Modified Bituminous Roofing Sheets with Factory-
Applied Metal Surface

3. Terminology

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

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**.

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, Fabrics and Bituminous Sheet Materials.

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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.