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Standard Specification for Asphalt Roll Roofing (Organic Felt)¹

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1. Scope

1.1 This specification covers asphalt roofing in sheet form, in widths agreed upon between the purchaser and the producer/supplier, composed of asphalt-saturated organic felt coated on both sides with asphalt. Class M and WS rolls are surfaced on the (exposed) weather side with mineral granules, except for any selvage. Class S rolls are surfaced with powdered talc, mica, or other fine mineral matter to prevent sticking.

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

1.3 *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.*

2. Referenced Documents

2.1 ASTM Standards:

- D 146 Test Methods for Sampling and Testing Bitumen-Saturated Felts and Woven Fabrics for Roofing and Waterproofing²
- D 224 Specification for Smooth-Surfaced Asphalt Roll Roofing (Organic Felt)²
- D 228 Test Methods for Sampling, Testing, and Analysis of Asphalt Roll Roofing, Cap Sheets, and Shingles Used in Roofing and Waterproofing²
- D 249 Specification for Asphalt Roll Roofing (Organic Felt) Surfaced with Mineral Granules²
- D 371 Specification for Asphalt Roll Roofing (Organic Felt) Surfaced with Mineral Granules; Wide Selvage
- D 1079 Terminology Relating to Roofing, Waterproofing, and Bituminous Materials²
- D 3019 Specification for Lap Cement Used with Asphalt

Roll Roofing, Non Fibered, Asbestos Fibered, and Non Abestos Fibered²

D 4977 Test Method for Granule Adhesion to Mineral Surfaced Roofing by Abrasion²

E 96 Test Methods for Water Vapor Transmission of Materials³

3. Terminology

3.1 *Definitions*—Refer to Terminology D 1079 for definitions of terms used in this specification.

4. Classification

4.1 Class S (smooth) rolls shall be surfaced with fine mineral matter to prevent sticking.

4.1.1 *Type III*—Minimum net mass per unit area of roofing, 2495 g/m² (51.1 lb/100 ft²).

4.1.2 *Type IV*—Minimum net mass per unit area of roofing, 1943 g/m² (39.8 lb/100 ft²).

4.2 Class M (mineral) rolls shall be surfaced on the weather side with mineral granules, except for any selvage.

4.2.1 *Type II*—Minimum net mass of granule-surface portion, 3490 g/m² (71.5 lb/100 ft²).

4.3 Class WS (wide selvage) rolls shall be surfaced on the weather side with mineral granules for approximately half the width.

4.3.1 *Type III*—Minimum net mass per unit area, 1733 g/m² (35.5 lb/100 ft²).

4.3.2 *Type IV*—Minimum net mass per unit area, 2090 g/m² (42.8 lb/100 ft²).

5. Materials and Manufacture

5.1 In the process of manufacture, a single thickness of dry organic felt shall first be saturated with asphalt. A coating asphalt, compounded with or without a fine mineral stabilizer insoluble in water, shall be applied to one or both sides of the sheet. Class S rolls shall be surfaced on one side with a suitable material to prevent sticking in the roll. Class M and WS rolls shall be covered on the weather side with mineral granules, except for any selvage; the reverse side shall be covered with a suitable material to prevent sticking in the roll.

¹ This specification is under the jurisdiction of ASTM Committee D08 on Roofing and Waterproofing and is the direct responsibility of Subcommittee D08.02 on Prepared Roofings, Shingles and Siding Materials.

The materials covered in this standard were previously covered by three separate roll roofing material standards: Specifications D 224, D 249, and D 371.

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² *Annual Book of ASTM Standards*, Vol 04.04.

³ *Annual Book of ASTM Standards*, Vol 04.06.