



## Standard Specification for Asphalt Roll Roofing (Organic Felt)<sup>1</sup>

This standard is issued under the fixed designation D 6380; 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.

### 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 Waterproofing<sup>2</sup>
- D 224 Specification for Smooth-Surfaced Asphalt Roll Roofing (Organic Felt)<sup>2</sup>
- D 228 Test Methods for Asphalt Roll Roofing, Cap Sheets, and Shingles<sup>2</sup>
- D 249 Specification for Asphalt Roll Roofing (Organic Felt) Surfaced with Mineral Granules<sup>2</sup>
- D 371 Specification for Asphalt Roll Roofing (Organic Felt) Surfaced with Mineral Granules; Wide Selvage
- D 1079 Terminology Relating to Roofing, Waterproofing, and Bituminous Materials<sup>2</sup>
- D 3019 Specification for Lap Cement Used with Asphalt Roll Roofing, Non Fibered, Asbestos Fibered, and Non Abestos Fibered<sup>2</sup>
- D 4977 Test Method for Granule Adhesion to Mineral Surfaced Roofing by Abrasion<sup>2</sup>

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee D08 on Roofing, Waterproofing, and Bituminous Materials 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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<sup>2</sup> *Annual Book of ASTM Standards*, Vol 04.04.

E 96 Test Methods for Water Vapor Transmission of Materials<sup>3</sup>

### 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/m<sup>2</sup> (51.1 lb/100 ft<sup>2</sup>).

4.1.2 *Type IV*—Minimum net mass per unit area of roofing, 1943 g/m<sup>2</sup> (39.8 lb/100 ft<sup>2</sup>).

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/m<sup>2</sup> (71.5 lb/100 ft<sup>2</sup>).

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/m<sup>2</sup> (35.5 lb/100 ft<sup>2</sup>).

4.3.2 *Type IV*—Minimum net mass per unit area, 2090 g/m<sup>2</sup> (42.8 lb/100 ft<sup>2</sup>).

### 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 which may be compounded with a fine mineral stabilizer insoluble in water may 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.

5.2 The felt shall be roofing felt primarily composed of organic fibers. The surface of the felt shall be uniformly and relatively smooth. Upon splitting or tearing on the bias, the felt shall appear reasonably free of lumps or particles of foreign substances.

### 6. Physical Properties

6.1 Class S rolls shall conform to the breaking strength and

<sup>3</sup> *Annual Book of ASTM Standards*, Vol 04.06.