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Standard Specification for Asphalt Roll Roofing (Organic Felt) Surfaced with Mineral Granules; Wide Selvage¹

This standard is issued under the fixed designation D 371; 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.

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

1. Scope

1.1 This specification covers asphalt roofing in sheet form, 36 in. (914 mm) in width, or other widths agreed upon between the purchaser and the supplier, composed of asphalt-saturated organic felt with approximately half the width of the weather side coated with asphalt and surfaced with mineral granules, for use as a cap sheet in the construction of built-up roofs.

1.2 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 228 Test Methods for Asphalt Roll Roofing, Cap Sheets, and Shingles²
- D 1079 Terminology Relating to Roofing, Waterproofing, and Bituminous Materials²
- 3. Terminology

3.1 For definitions of terms used in this specification, refer to Terminology D 1079.

4. Classification

4.1 Material covered by this specification is of two types: 4.1.1 *Type I*, having a minimum mass per unit area of 37.0 $lb/100 ft^2(1806 g/m^2)$.

4.1.2 *Type II*, having a minimum mass per unit area of 46.3 $lb/100 ft^2(2260 g/m^2)$.

4.1.3 *Type III*, having a minimum mass per unit area of 35.5 $lb/100 ft^2(1733 g/m^2)$.

4.1.4 *Type IV*, having a minimum mass per unit area of 42.8 $lb/100 ft^2(2090 g/m^2)$.

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² Annual Book of ASTM Standards, Vol 04.04.

5. Materials and Manufacture

5.1 In the process of manufacture, a single thickness of dry felt shall first be saturated with asphalt; then approximately half the width of the weather side shall be coated with asphaltic material and surfaced with mineral granules. The reverse side of the sheet may or may not be coated; if coated, it shall be covered with a suitable material to prevent sticking in the roll.

5.2 The felt shall be produced from vegetable or animal fibers, or mixtures thereof. The surface of the felt shall be uniform and relatively smooth. Upon splitting or tearing on the bias, the felt shall appear reasonably free of lumps or particles of foreign substances.

5.3 The asphaltic material used to coat the sheet may be compounded with a fine mineral stabilizer substantially insoluble in water.

6. Physical Requirements

6.1 The finished product shall neither crack nor be so sticky as to cause tearing or material damage upon being unrolled at ambient temperatures above 50° F (10° C).

6.2 *Pliability at* $77^{\circ}F(25^{\circ}C)$ —At least eight strips out of ten from the granule-surfaced portion of the sheet shall not crack when tested in accordance with Test Methods D 228, Section 17.

6.3 Behavior on Heating to 176°F (80°C) for 2 h—There shall be no more than 1.5 % volatile loss, and the granular surfacing shall not slide more than $\frac{1}{16}$ in. (2 mm) when tested in accordance with Test Methods D 228, Section 18.

7. Dimensions, Mass, and Permissible Variations

7.1 *Width*—The material shall be put up in rolls and shall be 36 in. (914 mm) \pm 0.7 % wide, unless another width is agreed upon between the purchaser and the supplier.

7.1.1 The coated and granule-surfaced portion of the weather side shall have a uniform, minimum width of 17 in. (432 mm) for the standard 36-in. (914-mm) wide sheet, or as agreed upon between the purchaser and the supplier. For other sheet widths, the coated and granule-surfaced portion shall have a minimum width of one half the sheet width minus 1 in. (25 mm).

7.1.2 When the surfaced portion of the weather side exceeds the minimum width, the sheet shall be marked with a conspicuous mopping line located from the exposed weather edge a

¹ This specification is under the jurisdiction of ASTM Committee D-8 on Roofing, Waterproofing and Bituminous Materials, and is the direct responsibility of Subcommittee D08.02 on Prepared Roofing, Shingles, and Siding Materials.