

Designation: D3617/D3617M – 17 (Reapproved 2022)

Standard Practice for Sampling and Analysis of Built-Up Roof Systems During Application¹

This standard is issued under the fixed designation D3617/D3617M; 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 U.S. Department of Defense.

1. Scope

1.1 This practice is a guide for removing specimens for built-up bituminous roof systems during application, but before the application of flood coating and top surfacing, for determining the *approximate* quantities of the components and the possible presence of moisture, or dry spots between plies, in the field. Components may consist of:

1.1.1 Insulation, when part of the roof membrane system,

1.1.2 Plies of roofing felt,

1.1.3 Interply layers of bituminous material, and

1.1.4 Top coating, if present, before any surfacing aggregate has been applied.

1.2 This practice is applicable to both 914 mm [36 in.] and 1000 mm [39³/₈ in.] wide felt rolls.

1.3 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 nonconformance with the standard.

1.4 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.

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

2. Referenced Documents

- 2.1 ASTM Standards:²
- D226/D226M Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing
- D227/D227M Specification for Coal-Tar-Saturated Organic Felt Used in Roofing and Waterproofing
- D250 Standard Specification for Asphalt-Saturated Asbestos Felt Used in Roofing and Waterproofing (Withdrawn 1991)³
- D2178/D2178M Specification for Asphalt Glass Felt Used in Roofing and Waterproofing
- D2626/D2626M Specification for Asphalt-Saturated and Coated Organic Felt Base Sheet Used in Roofing
- D3158 Specification for Asphalt Saturated and Coated Organic Felt Used in Roofing (Withdrawn 1983)³
- D3378 Specification for Asphalt-Saturated and Coated Asbestos Felt Base Sheet Used in Roofing (Withdrawn 1985)³

3. Sampling

3.1 Unless otherwise specified, take at least one specimen for each separate roof, plus one for each 929 m^2 [10 000 ft²]; take specimens at random.

3.2 If deficiencies are indicated in the membrane, additional Practice D3617/D3617M test cuts shall be taken at four locations diagonally—3 m [10 ft] in each direction—from the original test cut and examined in the same manner as the original test cut was examined.

4. Test Specimen

4.1 Sweep the surface of the membrane clean where each test specimen will be taken.

4.2 For determining approximate quantities of components, cut a 300 by 300 mm [12 by 12 in.] specimen from the membrane using a template (Fig. 1).

¹ This practice is under the jurisdiction of ASTM Committee D08 on Roofing and Waterproofing and is the direct responsibility of Subcommittee D08.20 on Roofing Membrane Systems.

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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.

 $^{^{3}\,\}text{The}$ last approved version of this historical standard is referenced on www.astm.org.