



Designation: D3617/D3617M – 07(Reapproved 2015)^{ε1}

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.

^{ε1} NOTE—Units information was editorially corrected in June 2015.

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 [39 3/8-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 non-conformance 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 and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

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.

D226 Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing

D227 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 Specification for Asphalt Glass Felt Used in Roofing and Waterproofing

D2626 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 m² [10 000 ft²]; take specimens at random.

3.2 Take additional specimens in which deficiencies are indicated in the membrane to determine the extent of the deficient area.

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).

4.2.1 If the membrane is adhered to the insulation, remove the membrane with the adhering insulation.

4.2.2 If the membrane is adhered directly to the roof deck, estimate the quantity of bitumen remaining on the deck after the specimen is removed.

³ The last approved version of this historical standard is referenced on www.astm.org.