Designation: C1306/C1306M – 08 (Reapproved 2016)ε1

Standard Test Method for Hydrostatic Pressure Resistance of a Liquid-Applied Waterproofing Membrane[1]

This standard is issued under the fixed designation C1306/C1306M; 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.

ε1 NOTE—Units information was editorially corrected in November 2016.

1. Scope

1.1 This test method describes a laboratory procedure for determining the resistance of a waterproofing membrane to hydrostatic pressure.

1.2 The committee with jurisdiction over this standard is not aware of any comparable standards published by other organizations.

1.3 There are no ISO standards similar or equivalent to this ASTM standard.

1.4 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.

1.5 *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]

C717 Terminology of Building Seals and Sealants

C1375 Guide for Substrates Used in Testing Building Seals and Sealants

3. Terminology

3.1 *Definitions*—Refer to Terminology C717 for definitions of technical terms used in this test method.

4. Summary of Test Method

4.1 This test method is conducted in two stages. In the first stage, the test membrane is subjected to hydrostatic pressure that is increased steadily over an 8 h period until the specimen fails or the maximum pressure is achieved. In the second part of the test, three more specimens are subjected to hydrostatic pressure that is increased slowly from 50 % of the failure value to failure in 2.5 psi increments every two to three days.

5. Significance and Use

5.1 This test method is used as a screening tool to determine the hydrostatic pressure to which a liquid-applied waterproofing membrane may be subjected without failing when stretched over a crack in the substrate. This test method discriminates between a membrane that is very resistant to hydrostatic pressure and one that is not. Because of the variability inherent in this test method, it is not recommended that this test method be used to set a numerical standard for hydrostatic pressure resistance. No prediction of durability at lower hydrostatic pressures can be made when using the results of this test method.

6. Comparison to Other Standards

6.1 The committee with jurisdiction over this standard is not aware of any comparable standards published by other organizations.

7. Apparatus and Materials

7.1 *Test Apparatus,* made of Schedule 80 PVC pipe pieces and constructed as shown in Fig. 1.

7.2 *Masking Tape.*

7.3 *TFE-Fluorocarbon or Polyethylene Spacers,* three, 51 by 19 by 3 mm [2 by 0.75 by 0.125 in.].

7.4 *Circulating Hot-Air Oven.*

7.5 *Source of Regulated Compressed Air,* capable of at least 45 psig.

7.6 *Epoxy Cement,* with gap filling capability, or non-sag construction mastic.

[1] This test method is under the jurisdiction of ASTM Committee D08 on Roofing and Waterproofing and is the direct responsibility of Subcommittee D08.22 on Waterproofing and Dampproofing 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.