



Designation: E 1105 – 9600

An American National Standard

Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls, and Doors by Uniform or Cyclic Static Air Pressure Difference¹

This standard is issued under the fixed designation E 1105; 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.

1. Scope

1.1 This test method ~~describes~~ covers the determination of the resistance of installed exterior windows, curtain walls, skylights, and doors to water penetration when water is applied to the outdoor face and exposed edges simultaneously with a static air pressure at the ~~indoor~~ outdoor face ~~lower~~ higher than the static air pressure at the ~~outdoor~~ indoor face.

1.2 This test method is applicable to ~~window assemblies, sections of curtain wall assemblies, and door assemblies. any curtain-wall area or to windows, skylights, or doors alone.~~ It is intended primarily for determining the resistance to water penetration through such assemblies for compliance with specified performance criteria, but it may also be used to determine the resistance to penetration through the joints between the assemblies and the adjacent construction. Other procedures may be appropriate to identify sources of leakage.

1.3 This test method addresses water penetration through a manufactured assembly. Water that penetrates the assembly, but does not result in a failure as defined herein, may have adverse effects on the performance of contained materials such as sealants and insulating or laminated glass. This test method does not address these issues.

1.4 The proper use of this test method requires a knowledge of the principles of ~~air pressure management.~~ measurement.

1.5 The values stated in SI units are to be regarded as the standard. The inch-pound equivalents of SI units in parentheses are provided for information only. ~~may be approximate.~~

1.6 *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.* For specific hazard statements, see ~~Section 7.~~ 7.1.

2. Referenced Documents

2.1 *ASTM Standards:*

¹ This test method is under the jurisdiction of ASTM Committee ~~E-6~~ E06 on Performance of Buildings and is the direct responsibility of Subcommittee E06.51 on Component Performance of Windows, Curtain Walls, and Doors.

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