



Standard Practice for Application of Hose Stream¹

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INTRODUCTION

Several fire-test-response standards (such as ASTM E119, E814, E2074, and E1966) in order to assess the integrity of building elements after exposure to a specified test fire, require test specimens to be evaluated by exposure to a hose stream. It is important to standardize certain elements of the hose stream to promote uniformity in requirements. To attain this goal, this practice describes a standard apparatus for delivering a solid stream of water and prescribes a standard method of subjecting building elements to a hose stream after fire exposure.

1. Scope

1.1 This practice is applicable to building elements required to be subjected to the impact, erosion, and cooling effects of a hose stream as part of a fire-test-response standard. Building elements include, but are not limited to, wall and partition assemblies, fire-resistive joint systems, and doors.

1.2 This practice shall register performance of the building element under specific hose stream conditions. It shall not imply that, either after exposure or under other conditions, the structural capability of the building element is intact or that the building element is suitable for use.

1.3 The result derived from this practice is one factor in assessing the integrity of building elements after fire exposure. The practice prescribes a standard hose stream exposure for comparing performance of building elements after fire exposure and evaluates various materials and construction techniques under common conditions.

1.4 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.5 The text of this standard references notes which provide explanatory material. These notes shall not be considered as requirements of the standard.

1.6 This fire standard cannot be used to provide quantitative measures.

1.7 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

E119 Test Methods for Fire Tests of Building Construction and Materials

E176 Terminology of Fire Standards

E631 Terminology of Building Constructions

E814 Test Method for Fire Tests of Penetration Firestop Systems

E1966 Test Method for Fire-Resistive Joint Systems

E2074 Test Method for Fire Tests of Door Assemblies, Including Positive Pressure Testing of Side-Hinged and Pivoted Swinging Door Assemblies (Withdrawn 2007)³

2.2 *UL Standard:*

UL 385 Standard for Safety Play Pipes for Water Supply Testing in Fire-Protection Service⁴

3. Terminology

3.1 *Definitions*—For definitions of terms used in this practice, refer to Terminologies E176 and E631.

3.2 *Definitions of Terms Specific to This Standard:*

¹ This practice is under the jurisdiction of ASTM Committee E05 on Fire Standards and is the direct responsibility of Subcommittee E05.11 on Fire Resistance.

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

⁴ Available from Underwriters Laboratories (UL), Corporate Progress, 333 Pfingsten Rd., Northbrook, IL 60062.