

Standard Test Methods for Measuring the Forced Entry Resistance of Sliding Door Assemblies, Excluding Glazing Impact¹

This standard is issued under the fixed designation F 842; 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 These test methods determine the ability of sliding door assemblies to restrain, delay, or frustrate forced entry.

1.2 For purposes of these test methods, sliding door assemblies are defined as described in 1.2.1-1.2.4 and as shown in Fig. 1. Sliding door assemblies with a combination of operable panels and fixed panels (lites) shall be classified and tested separately for each type.

1.2.1 *Type A*—A sliding door assembly which incorporates one or more sliding panels that *lock to the jamb*.

1.2.2 *Type B*—A sliding door assembly which incorporates one or more sliding panels that *lock to an intermediate jamb*.

1.2.3 *Type C*—A sliding door assembly which incorporates one or more sliding panels that abut and *lock to other panels*.

1.2.4 *Type D*—A sliding door assembly which incorporates one or more fixed or stationary panels that are *designed not to open*.

NOTE 1—See Fig. 1 for graphic depiction of sliding door assembly types.

1.3 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

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

E 631 Terminology of Building Constructions

2.2 *AAMA Standard:*³

AAMA 1303.5 Voluntary Specifications for Forced Entry Resistant Aluminum Sliding Glass Doors

2.3 *CAWM Standards:*

CAWM 300-96 Forced Entry Resistance Tests for Sliding Glass Doors³

CMBSO 1-79 California Model Building Security Ordinance

3. Terminology

3.1 *Definitions*—Definitions for standard terminology can be found in Terminology E 631.

3.2 *Definitions of Terms Specific to This Standard:*

3.2.1 *door frame assembly, n*—the combination of a head, sill, and jambs surrounding and supporting fixed and sliding panels.

3.2.2 *fixed jamb stile, n*—vertical members of fixed or stationary panels adjacent to any jamb.

3.2.3 *intermediate jamb, n*—vertical member of a frame other than the outermost vertical members.

3.2.4 *locking device(s) (lock), n*—one or more components of a sliding door assembly intended to resist opening of the sliding door panel from the exterior.

3.2.5 *sliding door assembly, n*—a combination of one or more sliding door panels with or without one or more fixed panels within a common frame.

4. Summary of Test Method

4.1 The procedure consists of mounting a sliding door specimen into a test assembly fixture which in turn is mounted to a wall support fixture, and, after removing all exterior fasteners and loose component items, specified loads and forces are applied to the sliding door test specimen in a prescribed sequence. Following removal of all loads, a determination is made whether or not entry can be gained through the sliding door test specimen from the exterior.

5. Significance and Use

5.1 These test methods are intended to establish a measure of resistance for sliding door assemblies subjected to attacks

¹ These test methods are under the jurisdiction of ASTM Committee E06 on Performance of Buildings and are the direct responsibility of Subcommittee E06.51 on Performance of Windows, Doors, Skylights, and Curtain Walls.

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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 Available from the American Architectural Manufacturers Association (AAMA), 1827 Walden Office Square, Suite 550, Schaumburg, IL 60173

