



Standard Test Methods for Glazing for Detention Facilities¹

This standard is issued under the fixed designation F1915; 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, including a fire test response method, cover the apparatus, procedures, and acceptance conditions for evaluating the normal operational performance and the performance characteristics under assault conditions of detention glazing used in window and door assemblies in detention and correctional facilities; thus, these test methods only give an indication of the performance characteristics of detention glazing in actual service. Such variables as installation and maintenance conditions are not considered except as otherwise included in this test method.

1.2 It is the intent of these test methods to help ensure that detention glazing performs at or above minimum acceptable levels to restrict inmate passage to unauthorized areas, to confine inmates, to delay and frustrate escape attempts and to resist vandalism.

1.3 Tools defined in these test methods are representative of similar tools or materials, which may become available to inmates within the secure perimeter of detention and correctional facilities, and which could be used to inflict similar product damage.

1.4 These test methods should not be used to establish or confirm the absolute prevention of forced entries or exits. These test methods define five factors (tool, temperature, techniques, time, and number of impacts) used to determine resistance to defined attacks.

1.5 The values stated in inch-pound units are to be regarded as the standard. The SI values in stated parentheses are for information only.

1.6 In these test methods, the specimens are subjected to one or more specific sets of laboratory test conditions. If different test conditions are substituted or the end-use conditions are changed, it is not always possible by or from these test methods to predict changes in the physical attack, or fire-test-response characteristics measured, or both; therefore, the results are

valid only for the physical attack, or fire-test-exposure conditions, or both, described in these test methods.

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

F1233 Test Method for Security Glazing Materials And Systems

F1450 Test Methods for Hollow Metal Swinging Door Assemblies for Detention and Correctional Facilities

F1577 Test Methods for Detention Locks for Swinging Doors

F1592 Test Methods for Detention Hollow Metal Vision Systems

F1643 Test Methods for Detention Sliding Door Locking Device Assembly

F1758 Test Methods for Detention Hinges Used on Detention-Grade Swinging Doors

2.2 UL Standard:³

UL 752 Bullet Resisting Equipment

2.3 NIJ Standard:⁴

NIJ 0108.1 Ballistic Resistant Protective Materials

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *benchmark, n*—endpoint or intermediate point in the test sequence as determined by the certification agency.

3.1.2 *detention security, n*—assurance of the restriction of mobility of inmates to designated areas within a correctional or detention facility.

¹ These test methods are under the jurisdiction of ASTM Committee F33 on Detention and Correctional Facilities and are the direct responsibility of Subcommittee F33.02 on Physical Barriers.

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

⁴ Available from National Institute of Justice (NIJ), 810 7th St., NW, Washington, DC 20531.