



Standard Test Methods for Anchor Systems Used for Detention Hollow Metal Systems¹

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1. Scope

1.1 These test methods cover anchor systems used for the installation of fixed detention hollow metal vision systems and door assemblies of various materials and types of construction. These anchor systems are used to install fixed hollow metal vision systems and door assemblies in wall openings in detention and correctional institutions designed to incarcerate inmates.

1.2 Anchor systems individual components investigated under these test methods include detention security hollow metal frames, frame anchoring, security glazing, panels, and removable glazing stops.

1.3 These test methods are designed to test the capability of anchor systems used to install a fixed detention hollow metal vision system or door assembly to prevent, delay, and frustrate escape; to limit or control access to unauthorized or secured areas; and prevent passage of contraband.

1.4 These test methods apply primarily to anchor systems used to install detention hollow metal vision systems or door assemblies between secure areas generally found inside a detention/correctional facility such as: day rooms, control rooms, cells, and sally ports. These test methods are applicable to anchor systems used to install vision systems and door assemblies other than hollow metal, provided testing and reporting procedures are followed.

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

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.*

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

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2. Referenced Documents

2.1 ASTM Standards:²

A36 Specification for Carbon Structural Steel

A615 Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement

C90 Specification for Loadbearing Concrete Masonry Units

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

F1592 Test Methods for Detention Hollow Metal Vision Systems

F1577 Test Methods for Detention Locks for Swinging Doors

F1643 Test Methods for Detention Sliding Door Locking Device Assembly

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

F1915 Test Methods for Glazing for Detention Facilities

2.2 ANSI/NAAMM/HMMA Standard:³

ANSI/HMMA 863 Guide Specifications for Detention Security Hollow Metal Doors and Frames

2.3 NFPA Standard:⁴

NFPA 252 Standard Methods of Fire Tests of Door Assemblies

2.4 UL Standards:⁵

UL-10 (C) Standard for Positive Pressure Fire Tests of Door Assemblies

UL-752 Standard for Bullet-Resisting Equipment

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

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 Hollow Metal Manufacturer's Association, A Division of NAAMM, 800 Roosevelt Road, Building C, Suite 312, Glen Ellyn, IL 60137.

⁴ Available from National Fire Protection Association (NFPA), 1 Batterymarch Park, Quincy, MA 02269, <http://www.nfpa.org>.

⁵ Available from Underwriters Laboratories (UL), 2600 N.W. Lake Rd., Camas, WA 98607-8542, <http://www.ul.com>.