

ANSI/BHMA A156.37-2014



AMERICAN NATIONAL STANDARD

FOR

MULTIPOINT LOCKS

SPONSOR

BUILDERS HARDWARE MANUFACTURERS ASSOCIATION, INC.



AMERICAN NATIONAL STANDARDS INSTITUTE

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AMERICAN NATIONAL STANDARD

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FOREWORD (This Foreword is not a part of ANSI/BHMA A156.37)

The general classification of builders hardware includes a wide variety of items which are divided into several categories. This Standard is a result of the collective efforts of members of the Builders Hardware Manufacturers Association, Inc. who manufacture this product. The total Product Standards effort is, therefore, a collection of sections, each covering a specific category of items.

Performance tests and, where necessary, material and dimensional requirements have been established to ensure safety and stability to which the public is entitled. There are no restrictions on design except for those dimensional requirements imposed for reasons given above.

This Standard is not intended to obstruct but rather to encourage the development of improved products, methods and materials. The BHMA recognizes that errors will be found, items will become obsolete, and new products, methods and materials will be developed. With this in mind, the Association plans to update, correct and revise these Standards on a regular basis.

In most cases, products have been described in grade levels related to performance. Choice of grade and specific product are to be made on the basis of utility, aesthetics, security objectives and end use desired.

Users of this Standard consult applicable local building codes as to requirements affecting the functions of locks used on fire doors and doors within a mean of egress.

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1. SCOPE

1.1 This Standard establishes performance requirements for Multipoint Locks and includes operational tests, cycle tests, strength tests, security tests, and finish tests.

1.2 Tests described in this Standard are performed under laboratory conditions. In actual usage, results vary because of installation, door and frame construction, maintenance and environmental conditions.

1.3 **Grade Qualifications** (Also See Appendix A.) Manufacturers shall indicate the Grade level of their locks. Locks passing all tests within Sections 7, 8, 9 and 11 shall be assigned the respective Operational Grade; locks passing all the tests within Section 10 shall be assigned the respective Security Grade. It is permissible to qualify a model to an Operational Grade only; models meeting both Operational and Security Grades shall indicate the Grade Level for each.

2. DEFINITIONS

2.1 **Armored Strike** A strike reinforced in such a way as to strengthen the frame to which it is applied.

2.2 **Auxiliary Lock** A lock having a latch bolt or dead bolt operated by a key, paddle and/or turn, and usually used in addition to a primary lock or latching device.

2.3 **Backset** The distance from the edge of the door measured at the centerline of the door thickness to the centerline of the function holes or cross bore.

2.4 **Bitting** 1. the number(s) which represent(s) the dimensions of the key, 2. the actual cut(s) or combination of a key

2.5 **Biometric Readers** Optical, Capacitive, Sound Energy, And Heat Sensitive Readers for decoding unique biometric features, including fingerprints, eye, facial, or speech recognition.

2.6 Bolts

2.6.1 **Auxiliary Dead Latch** An actuator which automatically locks a projected latch bolt against return by end pressure.

2.6.2 **Dead Bolt** A lock component having an end, which protrudes from, or is withdrawn into, the lock front by action of the lock mechanism. When the door is closed and the dead bolt thrown, it extends into a hole provided in the strike, locks the door, and does not retract with end pressure.

2.6.3 **Latch Bolt** A lock component having a beveled end which projects from the lock front in an extended position, but is forced back into the lock case by end pressure or drawn back by action of the lock mechanism. When the door is closed, the latch bolt projects into a hole provided in the strike, and holds the door in a closed position.

2.6.4 **Deadlocking Latch Bolt** A spring actuated latch bolt with a beveled end and incorporating an actuator which, when depressed, automatically locks the projected latch bolt against return by end pressure. Also called dead latch.

2.6.5 **Expanding or Interlocking Type Dead Bolt** A bolt which interlocks with its strike when fully engaged.

2.6.6 **Deadlocking Latch Bolt Actuator** A component of the latch bolt which, automatically locks a projected latch bolt against return by end pressure.

2.7 **Bored Lock Series 4000** A lock installed in a round bored opening in the edge and face of a door.

2.8 **Cam** 1. a lock or cylinder component which transfers the rotational motion of a key or cylinder plug to the bolt works of a lock, 2. the bolt of a cam lock.

2.9 **Card Readers** Insertion or swipe credit-card readers decode magnetic stripes and smart cards