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AMERICAN NATIONAL STANDARD

FOR

AUXILIARY LOCKS AND ASSOCIATED PRODUCTS



SPONSOR

BUILDERS HARDWARE MANUFACTURERS ASSOCIATION, INC.

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AMERICAN NATIONAL STANDARDS INSTITUTE, INC.

AMERICAN NATIONAL STANDARD

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FOREWORD (This Foreword is not a part of ANSI/BHMA A156.5)

The general classification of builders hardware includes a wide variety of items which are divided into several categories. To recognize this diversity, a sectional classification system has been established. Auxiliary Locks and associated products is one such section and this Standard is the 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, dimensional requirements, have been established to ensure safety, security and stability to which the public is entitled. There are no restrictions on design, except for those dimensional requirements imposed for the reasons given above. It is also required that locks fit certain cutout dimensions.

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. It shall also be the responsibility of manufacturers to request such appropriate revisions.

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

The BHMA numbers, which indicate types of hardware do not identify grade, finish, or design and are not intended to be used without necessary supplementary information. Individual manufacturers' catalogs are consulted.

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 means of egress. Some communities require the use of exterior door locks having a dead bolt with a 1 in. (25.4 mm) projection for the purpose of providing greater security. Only functions compatible with the requirements of the applicable building codes are used.

ORDERING INFORMATION

BHMA standards, publications, and matchplates can be ordered at:

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CONTENTS

1.	SCOPE PART 1	5
2.	DEFINITIONS	5
3.	GENERAL	7
4.	DIMENSIONAL CHARACTERISTIC	7
5.	COMPONENT DESIGN	8
6.	DESCRIPTION AND TYPE NUMBERS OF FUNCTIONS	8
7. SE(REFERENCE TO ASTM F476-84 (R1996) STANDARD TEST METHODS FOR CURITY OF SWINGING DOOR ASSEMBLIES	13
8.	TEST METHODS	13
9.	OPERATIONAL TESTS FOR AUXILIARY LOCKS	14
10.	FINISH TESTS FOR AUXILIARY LOCKS	17
11.	SECURITY TESTS FOR AUXILIARY LOCKS	18
12.	REQUIREMENTS FOR CYLINDERS	20
13.	EXPLANATION OF IDENTIFYING NUMBERS	23
ILL	USTRATIONS	24
14.	SCOPE PART 2	28
15.	DEFINITIONS	28
16.	INDEXED KEY CONTROL SYSTEMS	28
17.	EXPLANATION OF IDENTIFYING NUMBERS	31
API	PENDIX A USER'S GUIDE	32

1. SCOPE PART 1

- 1.1 This portion of ANSI/BHMA A156.5 establishes requirements for Auxiliary Bored and Mortise Locks, Rim Locks, Cylinders and Push Button Mechanisms and includes security tests, operational tests, finish tests, and dimensional criteria.
- 1.2 Tests described in this Standard are performed under laboratory conditions. In actual usage, results vary because of installation, maintenance and environmental conditions.
- 1.3 When locks and latches are used in fire door assemblies, they shall be listed for use in fire doors by a Nationally Recognized Testing Laboratory (NRTL) and shall be under an in-plant follow-up inspection service.
- 1.4 **Grade Qualifications** Three classifications of tests are described in this Standard, Operational, Finish and Security. Manufacturers shall indicate the Grade level of their locks. Locks shall meet all Operational Tests 9, Finish Tests 10, and Security Tests 11 for their grade listing. A Grade 1 lock shall meet all Grade 1 criteria, a Grade 2 lock shall meet all Grade 2 criteria, and a Grade 3 lock shall meet all Grade 3 criteria in each classification.

2. **DEFINITIONS**

- 2.1 **Auxiliary Lock** A lock having a latch bolt or dead bolt operated by a key or a turn or both. This lock is often used in addition to another lock which is or is not key operated but has a latch bolt operated by knobs, levers or thumbpiece.
- 2.2 **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.

2.3 **Bolts**

- 2.3.1 **Auxiliary Dead Latch** A plunger which, when actuated, automatically locks a projected latch bolt against return by end pressure.
- 2.3.2 **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.
- 2.3.3 **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.
- 2.3.4 **Deadlocking Latch Bolt** A spring actuated latch bolt with a beveled end and incorporating a plunger which, when depressed, automatically locks the projected latch bolt against return by end pressure. Also called dead latch.
- 2.4 **Bored Dead Latch** A lock fitting round bored openings in the face and edge of a door and having a dead latch operated by a key or turn or both.
- 2.5 **Bored Dead Lock** A lock fitting round bored openings in the face and edge of a door and having a dead bolt operated by a key or turn or both.
- 2.6 **Cam** In this Standard, a component fastened to the back of a mortise cylinder plug or mortise cylinder turn. When rotated, it engages the lock mechanism.
- 2.7 **Case** The housing of a lock.
- 2.8 **Cylinder** The subassembly of a lock containing a plug with keyway and a body with tumbler mechanism.