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AMERICAN NATIONAL STANDARD

FOR

MORTISE LOCKS & LATCHES

SERIES 1000



SPONSOR BUILDERS HARDWARE MANUFACTURERS ASSOCIATION, INC.

THE AMERICAN NATIONAL STANDARDS INSTITUTE Approved July 6, 2012

AMERICAN NATIONAL STANDARD

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FOREWORD (This Foreword is not a part of ANSI/BHMA A156.13)

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. Locks and Lock Trim is one such section and 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 insure 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. It is also required that locks fit certain cut-out 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.

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

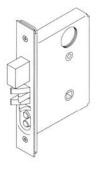
The BHMA numbers which indicate functions of mortise locks do not identify grade, finish, or design and are not intended to be used without necessary supplementary information. Individual manufacturer's catalogs should be consulted.

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 inch (25.4 mm) projection for the purpose of providing greater security. Only functions compatible with the requirements of the applicable building codes are to be used.

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1. SCOPE

- 1.1 This Standard establishes performance requirements for Mortise Locks and Latches and includes operational, cycle, strength, material evaluation, security, and finish tests, and dimensional criteria.
- 1.2 Tests described in this Standard are performed under laboratory conditions. In actual usage, results may vary because of installation, maintenance, and environmental conditions.
- 1.4 Grade Qualifications (Also see Appendix A)
- 1.4.1 Two classifications of Grades are described in this Standard. Manufacturers shall indicate separately, for both an Operational Grade and a Security Grade level of mortise locks and latches. The minimum acceptable grade level for Operational and Security grades shall be a grade 3.
 - 1.4.1.1 Operational Grades shall meet the requirements of Sections 8, 9, 10, 11 and 13.
 - 1.4.1.2 Security Grades shall meet the requirements of Section 12.
- 1.4.2 Any function shall be tested for qualification under Operational Grades and all other functions shall be considered as meeting the criteria provided the lock case and operating parts are of the same construction as that of the lock previously tested.
- 1.4.3 Function F21 or a similar function with dead bolts and function F04 or a similar function without dead bolts to be certified shall be tested with the trim for qualification under Security Grades. All other functions where access is prevented shall be considered as meeting the criteria provided the lock case and operating parts are of the same construction as that of the lock previously tested.

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.