

ANSI/BHMA A156.34-2016



**AMERICAN NATIONAL STANDARD
for
BORED LOCKS AND MORTISE LOCKS WITH LIGATURE
RESISTANT TRIM**



**SPONSOR
BUILDERS HARDWARE MANUFACTURERS ASSOCIATION**

**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 A156.34)

This standard was developed to address ligature resistant trim on door hardware used in a special care environment. The standard seeks to provide residents in such an environment with reasonable personal freedom and quality of life while at the same time to diminish the risks of self-harm and inappropriate uses by the residents and others. However, facilities differ as to environmental design, need for accessibility, tolerance of patient risk and other factors. Accordingly, the facility should assess all such factors in making a product selection.

Performance tests and, where necessary, material and dimensional requirements have been established to promote safety and product stability.

As is true of all its standards, BHMA plans to update and revise this standard on a regular basis and welcomes input from users at any time.

1. SCOPE

1.1 This Standard defines requirements and test methods for ligature resistant trim on bored locks and mortise locks. These requirements apply to the exposed parts of the lockset on the face of the door in the closed position only.

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 Level Qualifications. Manufacturers shall indicate the Level that their trim meets (i.e. Level A, B or C) for each side of the door. The product Level is established based on testing the Ligature Resistant Trim to the requirements established in Section 4. The inside and outside trim shall be evaluated and rated individually unless they are identical; it is acceptable for only one side to meet a level.

2. GENERAL

2.1 **For certification** to this standard, the ligature resistant product shall be subjected to and meet the Grade 1 requirements of the applicable standard, ANSI A156.2-2011 for Bored and Preassembled Locksets, or ANSI/BHMA A156.13-2012 for Mortise Locks. The manufacturer is permitted to request a waiver of all or a portion of the BHMA tests by presenting an engineering analysis demonstrating the product's similarity to a device currently in an ongoing certification program. The analysis must clearly show the mechanical characteristics were not affected by the ligature resistant features. The Nationally Recognized Testing Laboratory responsible for the certification program must agree with the analysis.

2.2 Separate lock models that accept the same ligature resistant trim shall be evaluated individually, unless waived by engineering evaluation.

2.4 **Reference to other Standards** This standard and ANSI Standards referenced in this Standard are available from: American National Standards Institute, Inc., 11 West 42nd Street, New York, NY 10036 or www.buildershardware.com.

2.5 **Dimensions** All dimensions are given in US units with approximate SI (metric) conversions. Where plus or minus tolerances are not given, values are permitted to be correspondingly reduced or exceeded at the option of the manufacturer within the functional limitations of the product.

2.6 **Tamper Resistance of Exposed Fasteners** All exposed fasteners shall be tamperproof designs and installed utilizing a thread locking feature.

3. DEFINITIONS

3.1 **Preassembled Lock (Series 2000)** A lock fitting into a notched cutout in a door.

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

3.3 **Face (of Door)** The surface of the door exposed to view when the door is closed.

3.4 **Mortise Lock (Series 1000)** A lock or latch fitting into a mortised cavity prepared in the edge of a door. The bolts are operated by knobs, levers, turns, thumb pieces, paddles or cylinders engaging the mortise lock or latch through holes prepared in the faces of the door.

3.5 **Ligature Resistant Trim** Any exposed parts of the lockset on the face of the door designed to inhibit the attachment of ligatures.