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STANDARD

FOR

SLIDING AND FOLDING DOOR HARDWARE

SPONSOR
BUILDERS HARDWARE MANUFACTURERS ASSOCIATION, INC.

AMERICAN NATIONAL STANDARDS INSTITUTE
Approved September 23, 2019

AMERICAN NATIONAL STANDARD

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This Standard was first published in July 1980 by the Builders Hardware Manufacturers Association, Inc. It was entitled, "Standard 301 BHMA Product Standards Section C, Door Controls (Closers)." ANSI approval was secured under the Canvass Method. BHMA was accredited on 21 March 1983 by ANSI as a sponsor using the Canvass Method.

FOREWORD (This Foreword is not a part of ANSI/BHMA A156.14)

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. Sliding and Folding Door Hardware 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 it has been necessary, dimensional requirements have been established to insure 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 some hardware items fit certain specified cutout dimensions.

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. Grade classifications indicate levels only within their own category. Choice of grades and specific products are made on the basis of utility, aesthetics, security objectives and end use desired.

The BHMA numbers and pictorials which indicate types of hardware do not necessarily identify size, finish, or material and are not intended to be used without necessary supplementary information. Individual manufacturer's catalogs are consulted.

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1. SCOPE

1.1 This Standard establishes requirements for Sliding and Folding Door Hardware. Cycle tests, abuse, durability static load, smoothness, static friction, kinetic friction and finish tests are included. Hardware for light to very heavy doors is covered including both residential and industrial applications.

1.2 Fire doors equipped with sliding door hardware shall successfully pass the requirements of ANSI/UL 10B or 10C. ANSI/UL 14B specifies requirements for sliding door hardware used on sliding type fire doors.

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

1.4 All dimensions which do not carry specific tolerances or are not marked maximum or minimum are permitted to have nominal deviations. Dimensions are given in US units. SI unit (metric) equivalents given in parentheses are approximate.

1.5 ANSI Standards referenced in this Standard are available from the BHMA website www.buildershardware.com or the American National Standards Institute, 11 West 42nd Street, New York, NY 10036.

2. DEFINITIONS

2.1 **Activator** A device which interacts with the damper to catch the door and slowly bring the door to its final position (open or closed).
2.2 **Aligner** A component added to a 4 door bifold set to keep the leading edge of doors flush when closed.
2.3 **Actuator** Part of the test set up in a laboratory which externally acts on the door to provide motion.
2.4 **Bow Handle** A pull for use on heavy doors.
2.5 **Bumper Shoe** A protection plate for the bottom edge of a door where it hits a stop.
2.6 **Cane Bolt** An L shaped rod held by guides which fixes a door in a closed or open position.
2.7 **Chain Bolt** See Spring Bolt.
2.8 **Cremone Bolt** Rods held by guides and controlled by a knob or lever. The rods project into members above and below a door.
2.9 **Damper** A mechanical device that provides assistance with door closure utilizing a pneumatic function, spring, or other dampening type mechanism and interacts with a system's activator to catch the door and slowly bring the door to its final position (open or closed).
2.10 **Edge Pull** A pull inserted into the edge of a sliding door.
2.11 **Flush Pull** A pull mortised into the face of a door.
2.12 **Foot Bolt** A bolt projected with one's foot and released against a spring loaded trigger mechanism. Fixes a door in a closed or open position.
2.13 **Guide** A device used to control lateral movement of a sliding door.
2.14 **Hanger** Rollers with a connection to a door which suspend the door and allow it to travel in a track.
2.15 **Oversize Sliding Doors** – sliding doors that weight 240 lbs (109 kg) or greater or are greater than 8ft in width; doors to be tested to requirements in Section 4.
2.16 **Point of engagement** The point in travel where the damper and activator engage to begin the function of soft close.
2.17 **Sliding Door Lock or Latch** A lock or latch inserted into the edge of a sliding door to lock or latch into the adjacent frame.
2.18 **Snugger** A device installed in a track to keep doors in a closed position.
2.19 **Soft-close Device** The pairing of a damper and activator intended to catch the door and slowly bring the door to its final position (open or closed).