

ANSI/BHMA A156.8-2005
Revision of A156.8-2000



AMERICAN NATIONAL STANDARD

FOR

DOOR CONTROLS - OVERHEAD STOPS AND HOLDERS



SPONSOR

BUILDERS HARDWARE MANUFACTURERS ASSOCIATION, INC.

ANSI Approved November 18, 2005

AMERICAN NATIONAL STANDARDS INSTITUTE, INC.

AMERICAN NATIONAL STANDARD

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FOREWORD (This foreword is not a part of ANSI A156.8).

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. Overhead Holders is one such section and this Standard is the result of the collective efforts of members of the Builders Hardware Manufacturers Association who manufacture this product. The total Product Standards effort is, therefore, a collection of sections, each covering a specific category of items.

Performance tests have been established to insure safety, security and stability to which the public is entitled. There are no restrictions on design except as required to suit the type of product desired.

The BHMA recognizes that errors will be found, items will become obsolete, and new products, methods and material 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 product category. Choice of grade and specific product should be made on the basis of utility, aesthetics, security objectives and end use desired.

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

ORDERING INFORMATION

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

www.buildershardware.com - Search entire catalog, order printed or electronic versions, and download electronic versions right to your computer.

Call our Fulfillment Partner, Techstreet, at:

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1. GENERAL

1.1 Scope

1.1.1 This Standard establishes requirements for overhead door stops and holders, and includes performance tests covering operational, cyclical, strength and finish criteria.

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

1.2 Definitions

1.2.1 **Overhead Holder** A device surface mounted or concealed at the top of a door with a connecting arm attached to the door frame. It holds a door in a predetermined open position or positions and also limits the opening up to 110 degrees.

1.2.2 **Overhead Stops** A device surface mounted or concealed at the top of a door with a connecting arm attached to the door frame which only limits the opening travel of a door.

1.3 General Requirements

1.3.1 **SI Units** All dimensions are expressed first in US units with SI unit (metric) equivalents given in parentheses. SI units are approximate.

1.3.2 **Tolerances** All values which do not carry specific tolerances or are not marked maximum or minimum shall have the following tolerances: Number of cycles shall be minimum. Linear dimensions shall be $\pm 1/16$ in. (1.6 mm). Pounds or pound force shall be $\pm 2\%$. A tolerance of ± 2 degrees F shall be applied to temperature call outs.

1.3.3 **Reference to ANSI Standards** ANSI Standards are available from the American National Standards Institute, 11 West 42nd Street, New York, NY 10036 or www.buildershardware.com.

1.3.4 **Tests Required** All Grades of stops and overhead holders are required to meet functional tests described in Section 2. All grades of overhead holders and stops are required to meet the applicable finish tests described in Section 3.

2. PERFORMANCE REQUIREMENTS

2.1 Test Procedures

2.1.1 All tests shall be performed on doors 36 in x 84 in x 1-3/4 in (914 mm x 2134 mm x 44 mm) of either wood or metal and weighing 150 lbs (68 kg). Use metal frames of heavy enough construction to withstand the abuse required by these tests. The center of gravity of the weighted door shall be 18 in (457 mm) from the center line of hinge or pivot.

2.1.2 Means for mechanically opening the door to the stop position and releasing and closing the door shall be provided for the tests. Opening speed shall be 0 to 90 degrees in 3 to 6 seconds.

2.1.3 Doors shall be hung on heavy weight ball bearing hinges or pivots meeting Grade 1 requirements of ANSI/BHMA A156.1 for Butts and Hinges. Force required to overcome friction or out of balance condition shall be a 1/2 lbf (2.2 N) or less, measured in accordance with paragraph 2.1.4.