

ANSI/BHMA A156.6-2021
Revision of - BHMA A156.6-2015



STANDARD
FOR
ARCHITECTURAL DOOR TRIM

SPONSOR
BUILDERS HARDWARE MANUFACTURERS ASSOCIATION, INC.



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 A156.6)

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. Architectural Door 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 it has been necessary, material and dimensional requirements have been established to ensure 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.

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.

The BHMA numbers which indicate types and functions of hardware do not identify size, finish, material or design and are not intended to be used without necessary supplementary information. Users of this Standard who require a specific design for a product type should describe it, using generic terms or the manufacturer's name and description of the product desired.

TABLE OF CONTENTS

1. SCOPE	5
2. DEFINITIONS	5
3. GENERAL	6
4. PRODUCT CATEGORY J100 - DOOR PROTECTION PLATES	6
5. PRODUCT CATEGORY J200 - DOOR AND WALL EDGINGS	9
6. PRODUCT CATEGORY J300 - PUSH PLATES	10
7. PRODUCT CATEGORY J400 - DOOR PULLS AND PUSH/PULL UNITS	11
8. PRODUCT CATEGORY J500 - PUSH BARS AND PULL BARS	14
APPENDIX A (NOT A PART OF ANSI/BHMA A156.6)	17

1. SCOPE

1.1 This Standard contains requirements for door protection plates, door & wall edgings, push plates, door pulls, push & pull bars, and vertical rod covers & guards. Included are strength, dimensional, and material criteria plus environmental performance.

1.2 Tests to evaluate decorative and protective finishes for these products are described in ANSI/BHMA A156.18 for Materials and Finishes and are required to complete certification.

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

2. DEFINITIONS

2.1 **Decorative Thru-Bolt (DTB)** – An option to thru-bolt mounting where the head of a mounting bolt or screw is enhanced to meet a given aesthetic. This includes both shape and architectural finish.

2.2 **Protection Plate** Protective material applied to the face of a door, wall or frame

2.2.1 **Angle Plate** A surface mounted plate with a single- or double-angle bend applied to the lower part of the door to protect the face and edge(s) of the door

2.2.2 **Corner Guard** Protective material applied to the corner of a wall or frame.

2.2.3 **Door Edging** Protective material applied to the edge of a door.

2.2.4 **Door Pull** Hardware applied to a door and when pulled permits the user to pull a door open. Different mounting methods are employed to meet strength requirements and aesthetic preferences.

2.2.5 **Kick Plate** A surface mounted plate applied to the lower part of the door to protect the face of the door. Also called a Mop Plate or Armor Plate.

2.2.6 **Latch Protector** A protective plate applied to the surface of a door or frame to prevent tampering with the latching hardware

2.2.7 **Vertical Rod Cover** Designed to fit over the surface vertical rod of an exit device to provide additional protection from passing equipment.

2.1.8 **Vertical Rod Guard** Designed to fit over the latch mechanism of an exit device to provide additional protection from passing equipment. Typically used at the lower latching point and commonly combined with the vertical rod cover.

2.3 **Pull Plate** An assembly consisting of a Door Pull integrated with a Push Plate that is mounted to a door. Different mounting methods are employed to meet strength requirements and aesthetic preferences.

2.4 **Pull Bar** Hardware extending across or vertically on a door and when pulled permits the user to pull a door open.

2.5 **Push Bar** Similar to a pull bar but used for pushing a door open.

2.6 **Push Plate** A surface mounted plate applied where a person pushes on a door to open it to protect the surface when the door is pushed open.

2.7 **Push/Pull Unit** A non-latching device applied to the face of a door and offering suitable surfaces for either a pushing or pulling operation of the door.

2.8 **Self-Adhesive (SA)** – A form of adhesive mounting that does not require water, glue, or special tools for installation. The surface coated with the adhesive provides a permanent mounting method and is an alternative to screw-type fasteners.

2.9 Vandal Resistant A product that incorporates features to enhance security, improve durability, or prevent tampering.

3. GENERAL

3.1 Reference to other Standards ANSI Standards referenced in this Standard are available from the Builders Hardware Manufacturers Association, www.buildershardware.com, or American National Standards Institute www.ansi.org.

3.2 Dimensions All dimensions are given in US units with approximate SI (metric) conversions. Temperature measurements shall be ± 4 degrees F (± 2 degrees C). 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.

3.3 Workmanship Products meeting this Standard shall be free of imperfections and defects affecting appearance, durability, and service life. In addition to performance measures that must be met, specific prescribed methods to attain those requirements are detailed in the applicable sections of this Standard.

3.4 Materials Materials to be used are listed in the product category description.

3.5 Finish Finishes for all applicable products shall conform to the finish test values in ANSI/BHMA A156.18-2020 for Materials and Finishes. All visible parts when the product is installed shall match subject to the limitations stated under the product category and to natural variations of those finishes falling into B or C categories. The finish of exposed screw and bolt heads shall be compatible with that of the product subject to these variations. Fasteners not exposed shall have a corrosion resistant finish.

3.6 Packaging All products together with necessary screws and other fasteners shall be wrapped or packaged individually unless otherwise specified by the manufacturer. The package shall be labeled or marked to clearly indicate contents.

3.7 Symbols The symbol CTC used throughout this Standard means center to center. All other symbols are defined as they are used.

4. PRODUCT CATEGORY J100 - DOOR PROTECTION PLATES

4.1 These products are surface applied.

4.2 Materials

4.2.1 Metals 0.050 in. (1.3 mm) nominal or thicker aluminum, brass or stainless steel.

4.2.2 Other Materials

4.2.2.1 Laminate Plastic: 1/8 in. (3.2mm) nominal thickness.

4.2.2.2 Clear Plastic: 1/8 in. (3.2mm) nominal thickness.

4.2.2.3 Flexible PVC or Acrylic Alloy Plastics: 0.060 in. (1.5mm) nominal thickness.

4.2.2.4 Steel: 0.050 in. (1.3 mm) nominal or thicker.

4.2.2.5 Consult applicable fire codes for use of materials other than metal on fire rated openings.

4.3 Workmanship

4.3.1 For a given size, height is stated first (height x width).

4.3.2 Screw holes for door protection plates shall be spaced equidistant 8 in. (203 mm) maximum CTC, along a centerline not over 1/2 in. (12.7 mm) in from the edge all around the plate. The end screws shall also be a maximum of 0.53 in. (13 mm) from the corners. (See A - 1.1 and A - 1.2).