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AMERICAN NATIONAL STANDARD

FOR

CONTINUOUS HINGES

SPONSOR

BUILDERS HARDWARE MANUFACTURERS ASSOCIATION, INC.



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AMERICAN NATIONAL STANDARDS INSTITUTE, INC.

AMERICAN NATIONAL STANDARD

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FOREWORD (This Foreword is not a part of ANSI/BHMA A156.26)

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. Continuous Hinges 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 these products. The total Product Standards effort is, therefore, a collection of sections, each covering a specific category of items.

Performance tests and, where necessary, dimensional requirements have been established to insure a degree of safety and stability. There are no restrictions on design except for those dimensional requirements imposed.

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. It shall also be the responsibility of manufacturers to request such appropriate revisions.

TABLE OF CONTENTS

Section	Page
1. Scope	5
2. Definitions.....	5
3. General	6
4. Test Equipment	7
5. Test Procedures.....	7
6. Tests	8
Appendix A & B.....	10
Figures 1 - 12 Barrel & Gear Hinges.....	11
Figures 13, 14 & 15 Test Fixtures	13

1. SCOPE

1.1 This Standard establishes requirements for architectural continuous hinges used in building construction. Cycle, finish, abuse, overload, vertical wear, and strength tests are included.

1.2 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 **Architectural Continuous Hinge.** A single hinge used to hang a door and having the same or nearly the same height (length) as the door.

2.1.1 **Barrel Type.** A continuous hinge with knuckles formed around a pin extending the entire length of the hinge. See Figure 1.

2.1.2 **Gear Type.** A continuous hinge with each leaf having a spline intermembering with the other and contained within a cap. See Figure 2.

2.1.3 **Edge Mounted.** Having one leaf applied to the surface of the butt edge of the door and the other leaf applied to the surface of the rabbet of the frame. See Figure 1 & 2.

2.1.4 **Full Surface.** Having one leaf applied to the face of the door and the other leaf applied to the face of the door frame. See Figures 9 & 10.

2.1.5 **Half Edge Mounted.** Having one leaf applied to the surface of the butt edge of the door and the other leaf applied to the face of the door frame. See Figures 5 & 6

2.1.6 **Half Surface.** Having one leaf applied to the face of the door and the other leaf applied to the surface of the rabbet edge of the door frame. See Figures 3 & 4.

2.1.7 **Half Surface 3/4 Offset.** A barrel type that is half surface applied and has a pivot point that is offset 3/4 in (19 mm). See Figure 7.

2.1.8 **Raised Barrel.** A barrel type that is edge applied and is offset at the barrel. See Figure 8.

2.1.9 **Swing Clear.** Having an offset that causes the door when opened 90 to 95 degrees to be completely clear of the opening. See Figures 11 & 12.

2.2 **Cap.** An extruded channel housing the intermeshing geared leaves of a gear type hinge.

2.3 **Hospital Tips.** A hinge having sloped caps or sloped ends.

2.4 **Knuckle.** A hollow circular part created by forming the hinge leaves through which a pin is passed.

2.5 **Leaf.** The portion of a hinge extending laterally from the knuckle or gear that revolves around the gear or pin.

2.6 **Length.** The measure of the leaf parallel to the gear or pin.

2.7 **Maximum Security Pin (MSP).** A hinge pin that has been fixed after insertion by welding, pinning or other permanent means to prevent hinge pin removal without the use of special tools. Set screws are not permitted. Affords greater security than a non-removable pin.

2.8 **Non-Removable Pin (NRP)** A hinge pin secured by a set screw or other equivalent means and affords less security than the Maximum Security Pin. This modification is intended as a deterrent only.

2.9 **Pin** In a barrel hinge, the rod running through the entire length of the barrel which is contained within the knuckles.

2.10 **Plug** Essentially an end cap to retain or cover the pin.