

ANSI/BHMA A156.1-2000 American National Standard for Butts and Hinges

Standard ANSI/BHMA A156.1-2000 establishes requirements for lightweight, standard weight, heavy weight and detention hinges. In addition, definitions, general information, material and dimensional requirements and tests (procedures and equipment) are included. Illustrations, type numbers and descriptions are provided for: full mortise hinges; full mortise hinges slip-in type; half mortise hinges; half surface hinges; anchor, pivot or reinforced thrust pivot unit and hinge sets; olive knuckle hinges; pivot hinges; rescue hardware; detention type hinges; special purpose hinges and light weight hinges.

Tests and required results in this standard include:

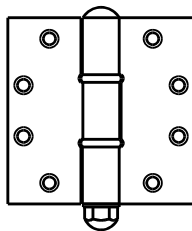
- Cycle
- Hinge Pin Rise
- Hinge Play
- Vertical and Lateral Wear
- Overload
- Friction
- Finish (or Salt Spray)

Product grades are defined by progressive performance benchmarks in the given tests, with Grade 1 being the highest level of performance. For example, in the “cycle test,” a Grade 1 hinge must be able to perform 2,500,000 cycles, as compared to a Grade 3, which requires 350,000 cycles. The last digit of the product number identifies the grade of a BHMA product.

The following are partial descriptions of test values. Please see the complete standard for additional tests:

TEST	Grade 1	Grade 2	Grade 3
Cycle	2,500,000	1,500,000	350,000
Hinge Pin Rise	¼ in (6.4 mm)	¼ in (6.4 mm)	¼ in (6.4 mm)
Hinge Play	.015 in (0.38 mm)	.015 in (0.38 mm)	.015 in (0.38 mm)
Vertical Wear	.020 in (0.5 mm)	.030 in (0.76 mm)	.105 in (2.67 mm)
Lateral Wear (maximum)	.062 in (1.6 mm)	.062 in (1.6 mm)	.062 in (1.6 mm)

Sample Illustration:



A8161
Full Mortise Hinge - Heavy Weight - Friction Type

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BHMA Standard log on to
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Note: This document is not to be used as a substitute for the standard. Users should refer to the entire standard for complete requirements and details. For further information go to www.buildershardware.com.