

**ANSI/BHMA A156.13-2002
American National Standard for Mortise Locks and Latches Series 1000**

Standard ANSI/BHMA A156.13-2002 establishes requirements for Mortise Locks and Latches and includes definitions, general information, dimensional criteria and tests (equipment requirements and procedures). Function numbers and descriptions are provided for Series 1000 Mortise Locks and Latches.

Tests and required results in this standard include:

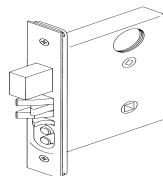
- Operational
- Security
- Cycle
- Finish
- Material Evaluations

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 “cylinder tension test,” a Grade 1 lock must be able to withstand 3,600 lbf, as compared to a Grade 3, which requires 1,000 lbf. 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:

	Grade 1	Grade 2	Grade 3
Operational Tests			
Dead bolt torque max	ALL GRADES 9 lbf-in. (1 Nm)		
Force to Latch door max	ALL GRADES 4.5 lbf (20 N)		
Cycle Test	1,000,000	800,000	
Security Tests			
Lever Impact Test	100 J 10 Blows	100 J 5 Blows	100 J 2 Blows
Cylinder Tension Test	3,600 lbf (16,000 N)	2,500 lbf (11,000 N)	1,000 lbf (4,400 N)
Dead Bolt/Lever Impact Test	Grade 2 plus 2 blows of 200 J	Grade 3 plus 2 blows of 160 J	2 blows of 80 J plus 2 blows of 120 J
Material Evaluation Tests			
Knob Crush Requirements	10%	25%	
Rose and Escutcheon Dent Test	0.075 in (1.9 mm)	0.100 in. (2.5 mm)	
Outside Rose Deformation	650 lbf (2900 N)	560 lbf (2500 N)	
Finish Tests			
Neutral Salt Spray	ALL GRADES		
	Organic coatings on all parts except fronts and strikes- 96 hours	Organic Coatings on lock fronts and strikes-24 hours	Inorganic Coatings-200 hours

Sample Illustration:



TYPICAL MORTISE LOCK
(SHOWN WITHOUT TRIM)

To purchase a copy of any
BHMA Standard log on to
www.buildershardware.com
or call 800.699.9277.

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.