

# INTEGRITY TESTING LABORATORIES

## CLIENT:

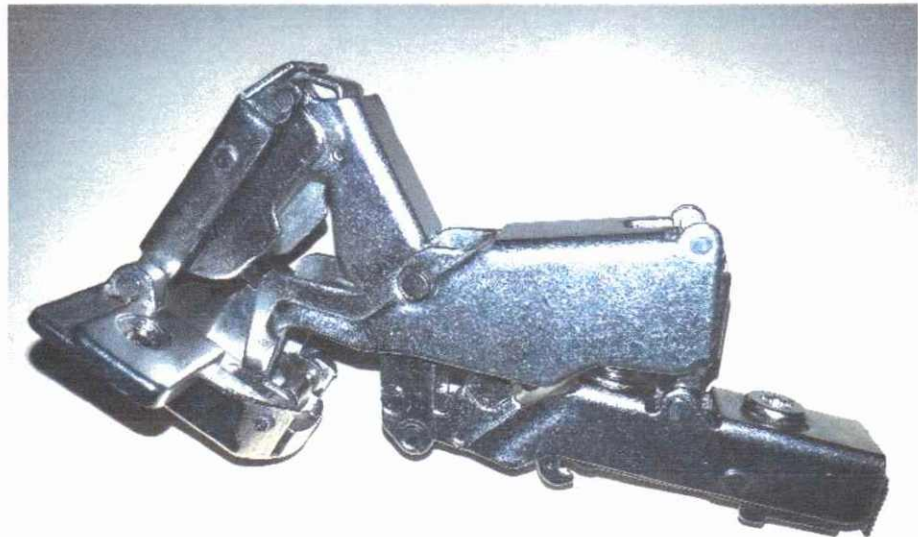
Hardware Resources  
4319 Marlena Street  
Bossier City, LA 71111  
Attention: Travis McElveen

LABORATORY NO: F1309231-3  
DATE: October 6, 2013  
CLIENT P.O. NO.: Vbl, T. McElveen  
STANDARD: ANSI/BHMA A156.9-10

**SAMPLE** 165 DEGREE EUROPEAN SELF CLOSING HINGE, P/N 500.0M73.05

## ABSTRACT

This report serves to document the testing of the above sample to all applicable hinge test paragraphs of ANSI/BHMA A156.9-2003, American national standards for cabinet hardware. Test procedures include a hinge permanent set test, hinge operating life test, closing force test, self closing test, and an over opening test. The remainder of this report will show how the hinge sample submitted for testing **met all of the requirements needed for conformance to Grade 3 of the referenced standard.**



Self-Closing Hinge, P/N 500.0M73.05

Integrity Testing, 469 CR 306, Corinth, MS, 38834 - Phone: (714) 630-2363

This report applies only to the sample or samples submitted for testing and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, or these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed, and upon that condition that it not be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these laboratories.

N:\Integrity Documents\FURNITURE REPORTS\Hardware resources\F1309231-3 Hinge 900.0M73.05 BHMA Gr 3.doc

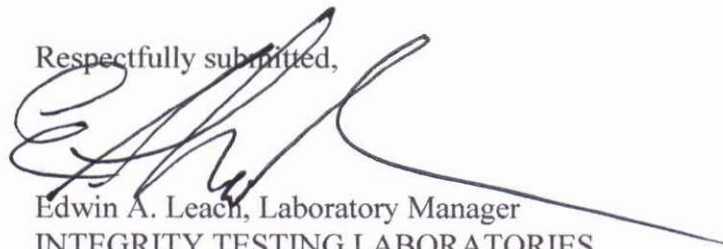
**OBSERVATIONS AND RESULTS  
 ANSI/BHMA A156.9-10-GRADE 3**

<b>LABORATORY DETERMINATION</b>	<b>LABORATORY OBSERVATION</b>	<b>ANSI/BHMA A156.9-10 GRADE 3 REQUIREMENT</b>	<b>TEST RESULT</b>
Hinge Permanent Set Test BHMA Section 4.1	Vertical Deflection = 0.085"	0.090" maximum vertical deflection after 75 lb. test load.	<b>PASS</b>
Hinge Operating Life Cycle Test BHMA Section 4.2	Vertical Deflection = 0.017"	0.030" maximum vertical deflection after 25,000 cycles with 6 lb. test load.	<b>PASS</b>
Hinge Self Closing Force Test BHMA Section 4.4.2	Closing Force = 14 oz.	4 oz. minimum closing force.	<b>PASS</b>
Hinge Self Closing Test BHMA Section 4.4.3	Door closed and remained closed from 10°.	Hinges shall close door from 10° after 50,000 cycles.	<b>PASS</b>
Hinge Over Opening Test BHMA Section 4.4.4	Door closed and remained closed from 10°.	Hinges shall close door from 10° after 10-lb. test force.	<b>PASS</b>

**CONCLUSION**

During the execution of the testing program, the model 500.0M73.05 hinge performed well with no structural breakage or failure. This sample submitted for testing met all of the hinge test requirements and **conforms to ANSI/BHMA 156.9-2003 for Grade 3 products.**

Respectfully submitted,



Edwin A. Leach, Laboratory Manager  
 INTEGRITY TESTING LABORATORIES

