

INTEGRITY TESTING LABORATORIES

Division of ErgoLabs, Inc.

CLIENT:

Hardware Resources
4319 Marlena Street
Bossier City, LA 71111
Attention: Grant Nuckolls

LABORATORY NO: F1103201-2
DATE: April 11, 2011
CLIENT P.O. NO.: Vbl, G. Nuckolls
STANDARD: ANSI/BHMA A156.9-10

SAMPLE: 18" SIDE MOUNT BALL BEARING DRAWER SLIDE, 300FU18,
TESTED WITH A 24 INCH WIDE TEST DRAWER

ABSTRACT

This report serves to document the testing of the above sample to all applicable drawer test paragraphs of ANSI/BHMA 156.9-2010, American national standards for cabinet hardware. Test procedures include a drawer slide stop test, drawer removal and load placement test, drawer cycle testing and edge load application. The remainder of this report will show how the drawer slides submitted for testing met the requirements needed for conformance to the standard.

PROCEDURES

All procedures were performed with strict adherence to the ANSI/BHMA A156.9 standard with two exceptions. The drawer test load was increased to **150 lbs**, instead of the 50 lb. minimum requirement, and the number of cycles was increased to **100,000** instead of the 50,00 requirement. All procedures were performed with the reported test load.

3911 E. LaPalma, Suite E, Anaheim Hills, CA 92807 Phone: (714) 630-2363 Fax: (714) 630-2256

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.

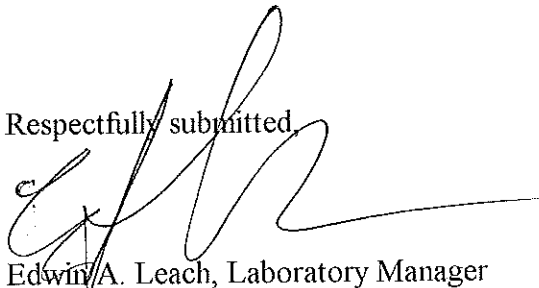
RESULTS

LABORATORY DETERMINATION	LABORATORY OBSERVATION	ANSI/BHMA A156.9-10 GRADE 1 REQUIREMENT	TEST RESULT
Drawer slide stop test BHMA section 4.11.2	The stop position provided 45 lbs., or ten times the operating force.	The stop position shall provide at least ten times the normal drawer operating force.	PASS
Drawer removal and load placement BHMA section 4.11.3	The slides permitted complete drawer removal. Placement of loads did not cause removal or partial removal from the drawer's suspended position when operated.	Drawer slides shall permit complete drawer removal. Load placement shall not cause the drawer to be removed or partially removed from its suspended position during drawer operation.	PASS
Drawer cycle life test BHMA section 4.11.4	Drawer operated for a total of 100,000 cycles with a 150 lb. test load. Drawer opening force = 4.5 lbs.	Drawer shall be cycled 2/3 of the total travel for 50,000 cycles with a 50 lb. test load. Drawer shall be completely operable after the performance of the test.	PASS
Drawer edge load test BHMA section 4.11.5	There was no structural breakage or loss of serviceability of the slide suspensions with an additional 75 lb. edge load applied	There shall be no failure of the slides with an additional 75 lb. mass applied to the drawer edge in the half-extended position.	PASS

CONCLUSION

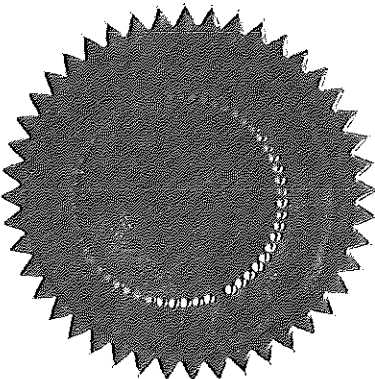
During the execution of the testing program, the model 300FU18 drawer slide suspension performed well with no structural breakage or failure with the above load. This sample submitted for testing **met all of the drawer slide test requirements and conforms to ANSI/BHMA 156.9-2010 for Grade 1 products.**

Respectfully submitted,



Edwin A. Leach, Laboratory Manager

INTEGRITY TESTING LABORATORIES, a division of ErgoLabs, Inc.



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CLIENT:

Hardware Resources
4319 Marlena Street
Bossier City, LA 71111
Attention: Grant Knuckolls

LABORATORY NO: F1103201-2
DATE: April 7, 2011
CLIENT P.O. NO.: Vbl, G. Knuckolls
STANDARD: ANSI/BHMA A156.9-10

SAMPLE: 18" SIDE MOUNT BALL BEARING DRAWER SLIDE, 300FU18,
TESTED WITH A 24 INCH WIDE TEST DRAWER

ABSTRACT

This report serves to document the testing of the above sample to all applicable drawer test paragraphs of ANSI/BHMA 156.9-2003, American national standards for cabinet hardware. Test procedures include a drawer slide stop test, drawer removal and load placement test, drawer cycle testing and edge load application. The remainder of this report will show how the drawer slides submitted for testing **met the requirements needed for conformance** to the standard.

PROCEDURES

All procedures were performed with strict adherence to the ANSI/BHMA A156.9 standard with one exception. The drawer test load was increased to **150 lbs**, instead of the 50 lb. Minimum requirement. All procedures were performed with this test load.

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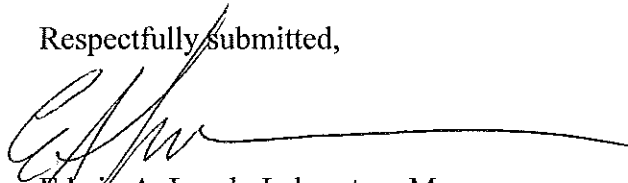
RESULTS

LABORATORY DETERMINATION	LABORATORY OBSERVATION	ANSI/BHMA A156.9-10 GRADE 1 REQUIREMENT	TEST RESULT
Drawer slide stop test BHMA section 4.11.2	The stop position provided 40 lbs., or ten times the operating force.	The stop position shall provide at least ten times the normal drawer operating force.	PASS
Drawer removal and load placement BHMA section 4.11.3	The slides permitted complete drawer removal. Placement of loads did not cause removal or partial removal from the drawer's suspended position when operated.	Drawer slides shall permit complete drawer removal. Load placement shall not cause the drawer to be removed or partially removed from its suspended position during drawer operation.	PASS
Drawer cycle life test BHMA section 4.11.4	Drawer operated for a total of 50,000 cycles with a 150 lb. test load. Drawer opening force = 4.0 lbs.	Drawer shall be cycled 2/3 of the total travel for 50,000 cycles with a 50 lb. test load. Drawer shall be completely operable after the performance of the test.	PASS
Drawer edge load test BHMA section 4.11.5	There was no structural breakage or loss of serviceability of the slide suspensions with an additional 75 lb. edge load applied	There shall be no failure of the slides with an additional 75 lb. mass applied to the drawer edge in the half-extended position.	PASS

CONCLUSION

During the execution of the testing program, the model 300FU18 drawer slide suspension performed well with no structural breakage or failure with the above load. This sample submitted for testing **met all of the drawer slide test requirements and conforms to ANSI/BHMA 156.9-2010 for Grade 1 products.**

Respectfully submitted,



Edwin A. Leach, Laboratory Manager

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