

INTEGRITY TESTING LABORATORIES

CLIENT:

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

LABORATORY NO: F1305171-1
DATE: June 27, 2013
CLIENT P.O. NO.: Vbl, T. McElveen
STANDARD: ANSI/BHMA A156.9-03

SAMPLE: 18" SIDE MOUNT HEAVY DUTY BALL BEARING DRAWER SLIDE, 209FU18, TESTED WITH A 24 INCH WIDE TEST DRAWER

ABSTRACT

This report serves to document the testing of the above sample to all applicable slide test paragraphs of ANSI/BHMA A156.9-2003, American national standards for cabinet hardware. Test procedures include a Pull force test, Outstop test, Rebound test, Drawer cycle test, and a Static load test. The remainder of this report will show how the slide samples submitted for testing exceeded all of the grade **1HD-200** requirements needed for conformance to the standard.

PROCEDURES

All procedures were performed with strict adherence to the ANSI/BHMA A156.9-03 standard with one exception. This sample **was tested with a drawer test load of 225 lb, instead of the required 200 lb test load** for the grade 1HD-200, for heavy-duty drawer slide tests.

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

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OBSERVATIONS AND RESULTS

LABORATORY DETERMINATION	LABORATORY OBSERVATION	ANSI/BHMA A156.9-03 GRADE 1HD-100 REQUIREMENT	TEST RESULT
Pull Force test, Paragraph 4.11.5.1	Load extendible member with 225 lbs, measure and record pull force to be 4 lbs. from complete closure to the fully extended position.	There shall be no loss of serviceability. Pull forces shall be less than 11.2 lbs.	PASS- there was no loss of serviceability of the slide suspensions. The pull forces recorded were well within the allowable maximum.
Outstop test, Procedure A Paragraph 4.11.5.2.2A	Load extendible member with 225 lbs, adjust apparatus to apply 9-lb outward load for 80% of drawer travel. Repeat 4 more times	There shall be no loss of serviceability. Pull forces shall be less than 11.2 lbs.	PASS- there was no loss of serviceability of the slide suspensions. The pull forces recorded were well within the allowable maximum.
Outstop test, Procedure B Paragraph 4.11.5.2.2B	Load extendible member with 225 lbs, adjust apparatus to apply 9-lb outward load against outstops device for 15,000 cycles.	There shall be no loss of serviceability. Pull forces shall be less than 11.2 lbs.	PASS- there was no loss of serviceability of the slide suspensions. The pull forces recorded were well within the allowable maximum.
Rebound test, Paragraph 4.11.5.3	Load extendible member with 225 lbs, adjust apparatus to apply 40-lb inward load, releasing 2" from the fully closed position. Repeat 4 more times	There shall be no loss of serviceability. Pull forces shall be less than 11.2 lbs. All five final rest positions shall be no more than 1.5" from the fully closed position.	PASS- there was no loss of serviceability of the slide suspensions. The pull forces recorded were well within the allowable maximum. All final rest positions were less than 1.5" from the fully closed position.
Drawer member cycle test, Paragraph 4.11.5.4	Load extendible member with 225 lbs, open and close member for a total of 50,000 cycles within ¼" of the open and closed positions.	There shall be no loss of serviceability. Pull forces shall be less than 11.2 lbs.	PASS- there was no loss of serviceability of the slide suspensions. The pull forces recorded were well within the allowable maximum.
Static load test, Paragraph 4.11.5.5	Load extendible member with 225 lbs, add an additional 100 lbs. Close member for 15 minutes, extend member for 15 minutes and remove load	There shall be no sudden and major change in structural integrity of the product.	PASS- there was no sudden and major change in structural integrity of the product.

CONCLUSION

During the execution of the testing program, the model 209FU18 drawer slides performed well with no structural breakage or failure. This sample submitted for testing **exceeded all of the slide test requirements and conforms** to ANSI/BHMA 156.9-2003 for Grade 1HD-200 products.

Respectfully submitted,



Edwin A. Leach, Laboratory Manager
INTEGRITY TESTING LABORATORIES

