

INTEGRITY TESTING LABORATORIES

CLIENT:

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

LABORATORY NO: F1308171-2
DATE: August 26, 2013
CLIENT P.O. NO.: Vbl, T. McElveen
STANDARD: ANSI/BHMA A156.9-03

SAMPLE 7460 SERIES HEAVY DUTY SHELF BRACKETS AND STANDARDS,
P/N's 7460-12/14/16/18/20/22/24 AND TRK07

ABSTRACT

This report serves to document the testing of the above sample to all applicable test paragraphs of ANSI/BHMA A156.9-03, American national standards for cabinet hardware. Test procedures include a static load test and an impact load test. **We were requested to exceed the minimum test loads requirements by a factor of 50% for these Heavy Duty designated samples.** The remainder of this report will show how the shelf supports submitted for testing **exceeded the requirements needed for conformance** to the standard.

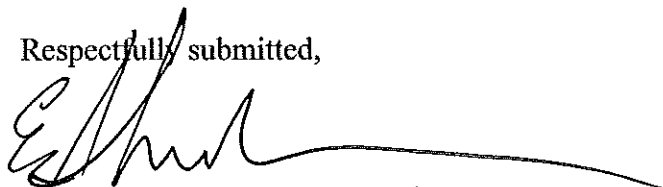
RESULTS

DETERMINATION	OBSERVATION	ANSI/BHMA REQUIREMENT	RESULT
Static load test BHMA section 4.9.6	The shelf support assemblies maintained the required loads without any structural breakage or loss of serviceability.	With the specified test fixture, the samples shall support a specified static load for five minutes, 12/14" = 270 lb, 16/18/20/22/24" = 315 lb	PASS
Impact load test BHMA section 4.9.7	The shelf support assembly remained intact without any structural breakage or loss of serviceability after the additional impact load of 20 in-lbf. The total shelf deflection was recorded to be less than 3 degrees.	With the specified load remaining on the shelf support test fixture, the samples shall withstand an additional impact load of 20 in-lbf. After the impact the total shelf deflection shall not exceed 3 degrees from the original measurement	PASS

CONCLUSION

The above samples submitted for testing **met and exceeded all of the test requirements and conform** to ANSI/BHMA 156.9-2003 for **Grade 2** products.

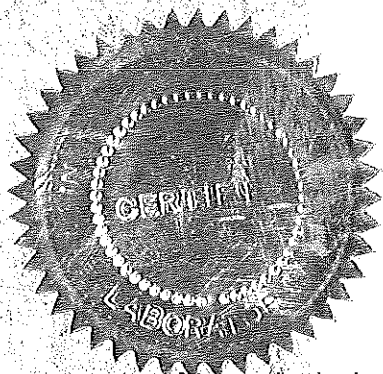
Respectfully submitted,


Edwin A. Leach, Laboratory Director
INTEGRITY TESTING LABORATORIES

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.

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INTEGRITY TESTING LABORATORIES

CLIENT:

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

LABORATORY NO: F1308171-2A
DATE: August 28, 2013
CLIENT P.O. NO.: Vbl, T. McElveen
STANDARD: ANSI/BHMA A156.9-03

SAMPLE: SHELF BRACKET STANDARDS 12 GAUGE, P/N TRK07
TESTED WITH 3460 SERIES SHELF BRACKETS

ABSTRACT

This report serves to document the testing of the above sample to all applicable test paragraphs of ANSI/BHMA A156.9-03, American national standards for cabinet hardware. Test procedures include a static load test and an impact load test. We were requested to verify that the samples would support 1800 lb/pr when utilized with the listed brackets and adequate mounting fasteners. The remainder of this report will show how the shelf supports submitted for testing **met the requirements needed for conformance** to the standard.

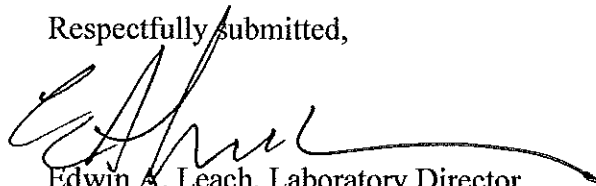
RESULTS

DETERMINATION	OBSERVATION	ANSI/BHMA REQUIREMENT	RESULT
Static load test BHMA section 4.9.6	The shelf support assemblies maintained the required loads without any structural breakage or loss of serviceability.	With the specified test fixture, the samples shall support a specified individual static load for five minutes, total load of 1800 lb, Max 315 lb per shelf.	PASS
Impact load test BHMA section 4.9.7	The shelf support assembly remained intact without any structural breakage or loss of serviceability after the additional impact load of 20 in-lbf. The total shelf deflection was recorded to be less than 3 degrees.	With the specified load remaining on the shelf support test fixture, the samples shall withstand an additional impact load of 20 in-lbf.	PASS

CONCLUSION

The above samples submitted for testing **met all of the test requirements and conform** to ANSI/BHMA 156.9-2003 for **Grade 2** products. (when 96" length is installed on 16" centers utilizing all provided fastener holes. Mounting fasteners must individually provide at least 650 lb tensile pull out and 900 lb shear strength... AND the individual shelf loads do not exceed 315 lb per pair.)

Respectfully submitted,


Edwin A. Leach, Laboratory Director
INTEGRITY TESTING LABORATORIES

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