

INTEGRITY TESTING LABORATORIES

CLIENT:

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

LABORATORY NO: F1308171-3
DATE: August 26, 2013
CLIENT P.O. NO.: Vbl, T. McElveen
STANDARD: ANSI/BHMA A156.9-03

SAMPLE WB SERIES HEAVY DUTY WORK STATION SHELF BRACKETS,
P/N's WB12/15/18, (Installed on 16" centers with 1/4"-20 grade 8 fasteners
torqued to 120 in-lb, providing 3,300 lb clamping force per fastener)

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 greater than 4X the required load, or a total of 1000 lb/pair 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.

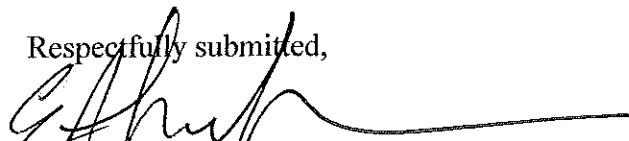
RESULTS

| 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. 12/15/18" = 1000 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 |

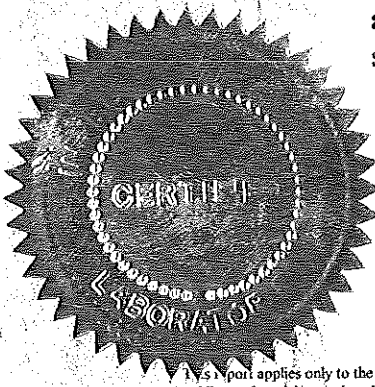
CONCLUSION

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 when installed as specified in the sample section of this report.

Respectfully submitted,


Edwin A. Leach, Laboratory Director
INTEGRITY TESTING LABORATORIES

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



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