INTEGRITY TESTING LABORATORIES

BIFMA COMPLIANT PARTICIPANT

PJLA Mechanical Testing ISO/IEC 17025:2017 Accreditation # 109986

CLIENT:

Hardware Resources
4319 Marlena Street
Bossier City, LA 71111
Attention: Jay Pannebaker

LABORATORY NO: F2408271-11
DATE: October 3, 2024
CLIENT P.O. email
STANDARDS: ANSI/KCMA A161.1-22

SAMPLE: NORTHPOINT BASE AND WALL CABINETS, 15" WIDE BASE, MODELS: **B15-CSD, B15-MWH, B15-HSL**, 15" WIDE WALL, MODELS: **W1530R-CWH, W1530R-MGR, W1530R-HWH**

ABSTRACT

This report serves to document the testing of the above samples to **all applicable structural test paragraphs** of ANSI/KCMA A161.1-2022, American national standards for kitchen and vanity cabinets. The remainder of this report will show how the samples submitted for testing **met the requirements needed for conformance** to the requested test paragraphs of the standard.

Exemplar - W1530R-MGR cabinet shown

OBSERVATIONS AND RESULTS

BASE CABINETS - B15-CSD, B15-MWH, B15-HSL

TEST	LABORATORY DETERMINATION	ANSI/KCMA A161.1-22 REQUIREMENT	LABORATORY OBSERVATION (data listed for each)	TEST RESULT
5.1	Static Loading on Shelves and Bottoms of Cabinets	Load all shelves and bottoms with 15 lb/ft^2 for 7 days. Maximum deflection under load at the end of test is 1/16"/Linear foot or ¼" max.	All recorded deflections were within required limit. Bottom = 0.0", 0.0", 0.0" Top Shelf = 0.0", 0.0", 0.0" Bottom Shelf = 0.0", 0.0", 0.0"	**PASS**
5.2	Static Loading for Mounted Cabinets	A 600 lb vertical shear load was applied to the front frame of the mounted cabinet.	There was no observable failure of the cabinet structure or mounting system.	**PASS**
5.3	Base Front Joint Loading	A 250 lb outward load was applied 2" from the cabinet top frame.	There was no observable failure of the cabinet structure.	**PASS**
5.4	Impact on Shelves, Cabinet and Drawer Bottoms	A 3 lb test ball was dropped at a height of 6" above all shelves, drawers, and cabinet bottom.	There was no observable failure of the cabinet structure.	**PASS**
5.5	Impact on Base Cabinet Front and Door	A 10 lb steel shot bag was suspended to impact the door with 120 in-lb.	There was no observable failure of the cabinet structure.	**PASS**
6.1	Door Racking and Hinge Set Test	A 65 lb. test load was hung from the door 10" from the hinge centerline and operated open and closed 10 cycles. Required performance is 0.065" maximum vertical deflection.	Vertical Deflection = 0.014", 0.009", 0.019"	**PASS**
6.2	Door Hinge Operating Cycle Test	A cycling device was attached to the door and operated open and closed for 25,000 cycles. Required performance is 0.065" maximum vertical sag.	Vertical Sag = 0.003", 0.012", 0.004"	**PASS**
7.1	Drawer Operating Life Cycle Test	The drawer was evenly loaded with 15 lb/ft^2, or 22 lb. A cycling device was attached to the drawer and operated open and closed 2/3 of travel for 25,000 cycles.	There was no structural breakage or loss of serviceability after the performance of the test.	**PASS**
7.2	Drawer Closing Impact Test	A special test apparatus was utilized to impact the drawer face with an outward load of 24 in-lb 10 times.	There was no structural breakage or loss of serviceability after the performance of the test.	**PASS**
SAMPLES RECEIVED: 08/27/24 – SAMPLE CONDITION: NEW - SAMPLES TESTED: 08/27/24 - 10/1/24				

OBSERVATIONS AND RESULTS

WALL CABINETS - W1530R-CWH, W1530R-MGR, W1530R-HWH

TEST	LABORATORY DETERMINATION	ANSI/KCMA A161.1-22 REQUIREMENT	LABORATORY OBSERVATION (data listed for each)	TEST RESULT
5.1	Static Loading on Shelves and Bottoms of Cabinets	Load all shelves and bottoms with 15 lb/ft^2 for 7 days. Maximum deflection under load at the end of test is 1/16"/Linear foot or ¼" max.	All recorded deflections were within required limit. Bottom = 0.0", 0.0", 0.0" Top Shelf = 0.0", 0.0", 0.0" Bottom Shelf = 0.0", 0.0", 0.0"	**PASS**
5.2	Static Loading for Mounted Cabinets	A 600 lb vertical shear load was applied to the front frame of the mounted cabinet.	There was no observable failure of the cabinet structure or mounting system.	**PASS**
5.4	Impact on Shelves, Cabinet and Drawer Bottoms	A 3 lb test ball was dropped at a height of 6" above all shelves, drawers, and cabinet bottom.	There was no observable failure of the cabinet structure.	**PASS**
6.1	Door Racking and Hinge Set Test	A 65 lb. test load was hung from the door 10" from the hinge centerline and operated open and closed 10 cycles. Required performance is 0.065" maximum vertical deflection.	Vertical Deflection = 0.005", 0.013", 0.009"	**PASS**
6.2	Door Hinge Operating Cycle Test	A cycling device was attached to the door and operated open and closed for 25,000 cycles. Required performance is 0.065" maximum vertical sag.	Vertical Sag = 0.006", 0.010", 0.009"	**PASS**
SAMPLES RECEIVED: 08/27/24 – SAMPLE CONDITION: NEW - SAMPLES TESTED: 08/27/24 - 10/1/24				

CONCLUSION

During the execution of the testing program, the **NORTHPOINT BASE AND WALL CABINETS as listed in the samples section of this report,** performed well with no structural breakage or failure. These samples submitted for testing **met all of the structural test requirements and conform to ANSI/KCMA A161.1-22.**

Respectfully reviewed and authorized,

Edwin A. Leach, Laboratory Director
INTEGRITY TESTING LABORATORIES