INTEGRITY TESTING LABORATORIES

PARTICIPANT

CLIENT:

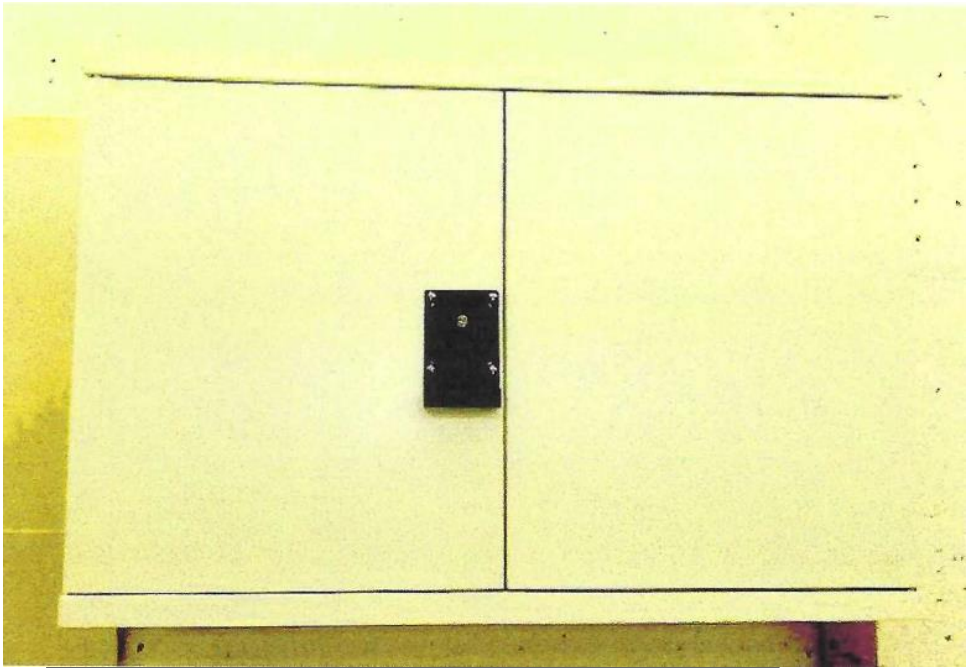
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LABORATORY NO: F2309151 -21
DATE: November 4,2023
CLIENT P.O. email
STANDARDS: SEFA 8M-20,
ANSI/BIFMA X5.9-19, BS EN 14727:05
EN 16121:2014+A1:2017

SAMPLES METAL WALL CABINET 48”W x 3 0”H x 12”D
MODEL - BLACKSMITH WALL CABINET W01 EN 16121:2014+A1:2017

ABSTRACT

This report serves to document the testing of the above sample to all applicable test paragraphs of SEFA 8M-2020 for metal laboratory grade furniture, and ANSI/BIFMA X5.9-2019, tests for storage products, and BS EN 14727:2005 & EN 16121:2014+A1:2017, laboratory storage.The remainder of this report will show how the samples submitted for testing **met the requirements needed for conformance to the stated test paragraphs of these standards.**



Blacksmith Wall Cabinet - W01
2 cabinet doors, 4 interior shelves - Dimensions: 48”W x 30”H x 12”D

This report applies only to [he sample or samples submitted for testing and is not necessarily indicative of the quality or condition of apparently identical or similar product. Samples were submitted as received, directly by the client along with all descriptors, names, models, or ID, no sampling procedures were performed by these laboratories. Client provided samples can affect reported results. No externa! service providers were utilized for the reported determinations. 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. Where statements of conformity are made in testing reports, the following decision rules are applied: PASS - Results within limits/specifications - FAEL - Results exceed limits/specifications. All laboratory procedures were performed in compliance with ISO/TEC 17025-2017.

RESULTS

SEFA 8M-2020			
Test	**Description**	**Test Loads and Procedure Summary**	**Result**
7.2	Shelf Load Test	A reference measurement of the shelf height was taken. A test load of 40 Lb per square foot, or 60.5 Lb was applied uniformly to the shelf, and a deflection measurement was taken.	PASS-No loss of serviceability after the performance of the test. Shelf deflection was less than the 1/180 of span 0.120" requirement.
9.2	Wall Cabinet Load Test	Utilizing 10 Lb steel shot bags and weight plates, a uniformly distributed test load of 40 Lb per square foot was applied to the sample top, bottom and 1 shelves. The load was applied for a period of 24 hrs.	PASS-No loss of serviceability after the performance of the test

ANSI/BIFMA X5.9-2019			
Test	**Description**	**Test Loads and Procedure Summary**	**Result**
4.0	Unit Strength test	Appropriate functional test loads applied to sample top, shelves, and bottom for a period of 60 minutes and proof loads for a period of 15 minutes	PASS-No failure during or after any load application
8.2	Upward Impact Disengagement test	The sample was affixed to a wall in accordance with the manufacturer's instructions. A device was adjusted to impact the bottom of the cabinet with an upward force of 140 in-lb	PASS-No loss of serviceability after the performance of the test
8.3	Upward Force Disengagement test	The sample was affixed to a wall in accordance with the manufacturer's instructions. A device was adjusted to apply an upward force of 1101b to the bottom of the cabinet.	PASS-No loss of serviceability after the performance of the test
14.3	Force test for Door locks	Appropriate test loads were placed in the cabinet, and required outward 50 Lb loads were applied to the door handles.	PASS-No loss of serviceability after the performance of the test
14.4	Locking mechanism cycle test	Appropriate test loads were placed in the cabinet, and the locking mechanism was cycled for a total of 5,000 cycles	PASS-No loss of serviceability after the performance of the test
17.2	Strength test for hinged door	Appropriate test loads applied to cabinet door. The door was then cycled from fully closed to fully open 10 times.	PASS-No loss of serviceability after the performance of the test
17.3	Override test for hinged door	Appropriate outward test loads applied to cabinet door.	PASS-No loss of serviceability after the performance of the test
17.6	Door wear and fatigue cycle test	An actuator device was adjusted to cycle the door from fully closed to fully open for a total of20,000 cycles	PASS-No loss of serviceability after the performance of the test
17.10	Door slam closed test	A device was adjusted to slam the door shut from 30 degrees open, and was repeated for a total of 10 times.	PASS-No loss of serviceability after the performance of the test
20	Pull force test	When required, a pull force test was performed on each applicable extendable member, and the force was recorded.	PASS-No loss of serviceability after the test. All pull forces were less than 11.2 lbf.

RESULTS (cont.)

BS EN 14727:2005 & EN 16121:2014+A1:2017			
Test	**Description**	**Test Loads and Procedure Summary**	**Result**
7.1.1	Stable position of shelves - Horizontal	An outward horizontal force of 50% of the shelf weight was applied to the middle of the shelf.	PASS-No failure during or after any load application
7.1.1	Stable position of shelves — Vertical	A downward vertical load of 100N was applied to the most unstable position of the shelf 25mm in from the front edge.	PASS-No failure during or after any load application
7.1.2	Deflection of shelves	An evenly distributed test load of 1.0 kg/dm^2 was applied to the shelves for a period of 60 minutes.	PASS-No failure during or after any load application
7.2	Shelf supports	An evenly distributed test load of 1.0 kg/dm^2 was applied to the shelves, and the remainder of the cabinet components were loaded with the required test loads. A 1.7 kg impact plate was allowed to strike the shelf surface adjacent to the shelf support, and repeated 10X.	PASS-No failure during or after any load application
7.3.2	Strength of pivoted door	A 30kg load was applied to cabinet door l00mm from the door end. The door was then cycled from 45-135 degrees for 10 cycles.	PASS-No loss of serviceability after the performance of the test
7.3.4	Durability test on hinged pivot doors	A 2kg load was applied to cabinet door on the centerline. The door was then cycled from 45-135 degrees for 50,000 cycles.	PASS-No loss of serviceability after the performance of the test
7.8.3	Static overload test	The cabinet components were loaded with the required test loads for a period of 1 week and removed.	PASS-No loss of serviceability after the performance of the test
10.0	Installation Instructions	Installation Instructions were not included in this test program	

CONCLUSION

During the execution of the testing program, the **SUBMITTED BLACKSMITH WALL CABINET W01** performed well with no structural failures or loss of serviceability. **This sample conforms to the requirements of SEFA 8M-2020, ANSI/BIFMA X5.9-2019, and BS EN 14727:2005 & EN 16121:2014+A1:2017.**

Respectfully Reviewed and Authorized,

Edwin A. Leach, Laboratory Director,
INTEGRITY TESTING LABORATORIES

