INTEGRITY TESTING LABORATORIES

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DATE: November 4, 2023
CLIENT P.O. email
STANDARDS: SEFA 8M-20,
ANSI/BIFMA X5.5-21

SAMPLES METAL FRAME TABLE - MODEL: BLACKSMITH TABLE T01

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 X5.5-2021, tests for desk and tables. 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 Table - T01
Dimensions: 60"W x 36"H x 24"D

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. 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 external 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 – **FAIL** – Results exceed limits/specifications. All laboratory procedures were performed in compliance with ISO/IEC 17025-2017.

RESULTS

SEFA 8M-2020			
Test	**Description**	**Test Loads and Procedure Summary**	**Result**
10.2	Table Static Load Test	A reference measurement of the midspan table apron rail height height was taken. A test load of 600 lb was applied to sample top through 4 evenly spaced stacks of specified 50lb loading bars, and a deflection measurement was taken.	**PASS**-No loss of serviceability after the performance of the test. Apron rail deflection was less than the 1/360 of span, or 1/8" requirement.
10.3	Table Racking Test	A common 2x4 fixture was clamped to the center span of the table. One end of the table was then elevated until the surface was at a 45 degree angle and supported in this position. A test load of 250 lb was applied to sample top through four specified 50lb loading bars supported by the centerline fixture for 72 hrs.	**PASS**-No loss of serviceability during the performance of the test

ANSI/BIFMA X5.5-2021			
Test	**Description**	**Test Loads and Procedure Summary**	**Result**
4.2	Stability Under Vertical Load Test	125 lbs. was applied 7" from table edge at the least stable location, and repeated with a 75 lb load 4" from the table edge	**PASS**-Unit did not tip over
5.2	Concentrated Functional Load	Required loads applied for a period of 60 minutes	**PASS**-No failure during or after the load application
5.3	Distributed Functional Load	Required loads applied for a period of 60 minutes	**PASS**-No failure during or after the load application
5.4	Concentrated Proof Load	Required loads applied for a period of 15 minutes	**PASS**-No failure during or after the load application
5.5	Distributed Proof Load	Required loads applied for a period of 15 minutes	**PASS**-No failure during or after the load application
6	Top Load Ease Test	200 lb. shot filled bag lifted and set 1" from the table edge for a total of 10,000 cycles	**PASS**-No loss of serviceability after the performance of the test
7	Unit Drop Test	Each end of the sample was raised to 7.1" above a test platform and released allowing it to impact the platform.	**PASS**-No loss of serviceability after the performance of the test
8.3	Functional Leg Strength Test	Table was laid on its top and loads of 100 lbs. And 50 lbs. were each applied horizontally within 1" of the end of the leg in required directions.	**PASS**-No loss of serviceability after the performance of the test
8.5	Proof Leg Strength Test	Table was laid on its top and loads of 150 lbs. and 75 lbs. were each applied horizontally within 1" of the end of the leg in required directions.	**PASS**-No sudden major change in the structural integrity of the product.

CONCLUSION

During the execution of the testing program, the **SUBMITTED BLACKSMITH TABLE T01** performed well with no structural failures or loss of serviceability. **This table conforms to the requirements of SEFA 8M-2020, and ANSI/BIFMA X5.5-2021.**

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Respectfully Reviewed and Authorized,

Edwin A. Leach, Laboratory Director,
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