



Test Report

No.: SHHL1605031251FT-01

Date: AUG. 23, 2016

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HAMILTON LABORATORY SOLUTIONS
825 EAST ALBERT DRIVE, MANITOWOC, WI 54220

THE TEST REPORT IS TO SUPERSEDE THE TEST REPORT No.: SHHL1605031251FT
DATE: AUG. 16, 2016

The following sample(s) was/were submitted and identified by the client as:

Sample Description : WALL CABINET
Style/ Item No. : 48"W X 30"H X 12"D(±1")
1219.2mm X 762mm X 304.8mm (±25.4mm)
Manufacturer : HAMILTON LABORATORY SOLUTIONS
Supplier : HAMILTON LABORATORY SOLUTIONS
Country of Origin : CHINA
Country of Destination : USA, THE MIDDLE EAST, LATIN AMERICA, ASIA
Sample Receiving Date : JUN. 20, 2016
Testing Period : JUN. 20, 2016 TO AUG. 16, 2016
Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT
Test Requested : SEFA 8-M-2016 RECOMMENDED PRACTICES FOR
METAL LABORATORY FURNITURE, CASEWORK,
SHELVING AND TABLES



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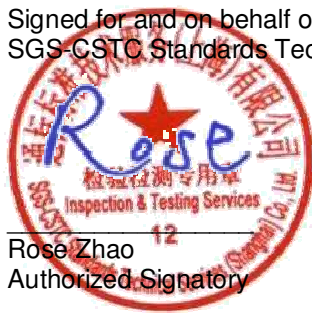
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Test Result(s) : FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)

Conclusion : THE SUBMITTED SAMPLE MET THE TEST REQUIREMENT.

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Rose Zhao
Authorized Signatory



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Test Conducted:

SEFA 8-M-2016 Recommended practices for metal laboratory furniture, casework, shelving and tables

Nos. of Specimen : 1pc.

Test Result : Pass. Details shown as following table

Clause	Test Items	Result	Note
4.0	Base cabinets	---	---
4.1	Description of test cabinet	N/A	# 1
4.2	Cabinet load test	N/A	# 1
4.3	Cabinet concentrated load test	N/A	# 1
4.4	Cabinet torsion	N/A	# 1
5.0	Doors	---	---
5.1	Door hinge test	N/A	# 1
5.2	Door impact test	N/A	# 1
5.3	Door cycle test	N/A	# 1
6.0	Drawers	---	---
6.1	Drawer static test	N/A	# 1
6.2	Drawer & door pull test	N/A	# 1
6.3	Drawer impact test	N/A	# 1
6.4	Drawer internal rolling impact	N/A	# 1
6.5	Drawer cycle test	N/A	# 1
7.0	Shelving	---	---
7.1	Description of test unit	---	---
7.2	Load test	Pass	---
8.0	Cabinet surface finish test	---	---
8.1	Chemical spot test	Pass	# 2
8.2	Hot water test	Pass	---
8.3	Impact test	Pass	---
8.4	Paint adhesion on steel	Pass	---
8.5	Paint hardness on steel	Pass	---
9.0	Wall mounted cabinets	---	---
9.1	Description of test cabinet	Pass	# 3



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9.2	Load test		Pass	---
10	Tables		---	---
10.1	Description of test unit		N/A	# 1
10.2	Load test		N/A	# 1
10.3	Table racking		N/A	# 1
Notes	:	# 1-	N/A means not applicable to this product design.	
		# 2-	Details see Clause 8.1.	
		# 3-	48in. W x 13in. D x 31in. H	



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7.2 SHELF LOAD TEST:

Date Tested: Aug. 10, 2016

Condition of Test Sample: New

Model Number	Description of Sample
706S8330	Wall Cabinet

This test is only testing shelf deflection of the shelf in a base and wall cabinet.

Wall Cabinet has a shelf that is 47.5in. width and 10in. depth.

7.1.2. Test Procedure:

A shelf shall be mounted in the manner in which it is designed. Measure the distance from the underside of the shelf to a reference point perpendicular to the center of the shelf. Use shot or sand bags weighing 10 pounds (4.535 Kg) each. Unless otherwise specified, load the shelf uniformly to 40 pounds (18.14 Kg) per square foot shelf area to a maximum of 200 pounds (90.70 Kg). Measure the deflection on the shelf by measuring the distance to the reference point and calculating the difference between the two measurements. Record data and remove load from the shelf.

7.1.3. Acceptance Level:

The allowable maximum deflection of a shelf is 1/180 of the span and not in excess of 25" (6.35mm). Maximum allowable deflection shall not exceed 0.25".

Results:

The submitted samples meet the acceptance criteria for the test described above. Refer to the following page for photographs.



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7.2.2. Test Procedure:

Test Method:

Using sand or shot bags weighing 10lbs each, load cabinet bottom, each shelf, and top uniformly with 40lbs (18.14Kg) per square foot to a maximum of 200lbs (90.72Kg) each. Maximum load to any cabinet shall not exceed 600lbs (272.16Kg). A maximum of 200lbs shall be applied to the unit bottom regardless of the number of shelves.

Number of Samples Tested: One (1)

7.2.3. Acceptance Level:

With weights in place operate doors through full travel to verify normal operation of doors. Remove weights and operate doors to verify normal operation. Verify there is no significant permanent damage.

Results:

Pass

Shelf Type	Shelf Load	Deflection Measured	Description of Results
Wall cabinet shelf 1	132lbs.	<1/16in.	Pass
Wall cabinet shelf 2	132lbs.	<1/16in.	Pass

The sample meets the acceptance criteria. Refer to the following page for photograph.



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Wall cabinet Shelf



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8.1 CHEMICAL SPOT TEST

Date Tested: Jul. 19, 2016

Condition of Test Sample: Production Samples

Description of Samples:

Part Description:

Material Submitted: /

Material Specification: SEFA 8-M-2016

Test Procedure:

Test Method:

SEFA 8M-2016, Sec 8.1

The received sample to be tested for chemical resistance as described herein: Place panel on flat surface, clean with soap (Liqui-Nox at 5% concentration) and water and blot dry. Condition the panel for 48-hours at 73±3°F (23±2°C) and 50 ± 5% relative humidity. Test the panel for chemical resistance using forty-nine (49) different chemical reagents by the following methods.

Method A:

Test volatile chemicals by placing a cotton ball saturated with reagent in the mouth of a 1-oz. (29.574cc) bottle and inverting the bottle on the surface of the panel. The cotton ball shall remain in contact with the sample for duration of the test.

Method B:

Test non-volatile chemicals by placing five drops of the reagent on the surface of the panel and covering with a 24 mm watch glass, convex side down. For both of the above methods, leave the reagents on the panel for a period of one hour. Wash off the panel with water, clean with detergent (Liqui-Nox at 5% concentration) and naphtha, and rinse with deionized water. Dry with a towel and evaluate after 24 hours at 73±3°F (23±2°C) and 50 ± 5% relative humidity using the following rating system.

Rating Scale:

Level 0

No detectable change.

Level 1

Slight change in color or gloss.



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Level 2 Slight surface etching or severe staining.
 Level 3 Pitting, cratering, swelling, or erosion of coating. Obvious and significant deterioration.

Number of Samples Tested: 1 shelf

Deviation:

Acceptance Criteria:

The Range of Results is provided to establish the acceptable range for Laboratory Grade Finish. Results will vary from manufacturer to manufacturer. Laboratory grade finishes should result in no more than four Level 3 conditions. Suitability for a given application is dependent upon the chemicals used in a give laboratory.

Results:

Test No.	Chemical	Method	Rating	Comments
1	Acetate, Amyl	A	0	/
2	Acetate, Ethyl	A	0	/
4	Acetone	A	1	/
6	Alcohol, Butyl	A	0	/
7	Alcohol, Ethyl	A	0	/
8	Alcohol, Methyl	A	0	/
10	Benzene	A	0	/
11	Carbon Tetrachloride	A	0	/
12	Chloroform	A	1	/
14	Cresol	A	1	/
15	Dichloroacetic Acid	A	3	/
16	Dimethylformamide	A	2	/
17	Dioxane	A	1	/
18	Ethyl Ether	A	1	/
19	Formaldehyde, 37%	A	0	/
21	Furfural	A	3	/



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Test No.	Chemical	Method	Rating	Comments
22	Gasoline	A	0	/
27	Methyl Ethyl Ketone	A	1	/
28	Methylene Chloride	A	1	/
29	Mono Chlorobenzene	A	0	/
30	Naphthalene	A	0	/
34	Phenol, 90%	A	0	/
46	Toluene	A	0	/
47	Trichloroethylene	A	0	/
48	Xylene	A	0	/

Test No.	Chemical	Method	Rating	Comments
3	Acetic Acid, 98%	B	1	/
5	Acid Dichromate, 5%	B	0	/
9	Ammonium Hydroxide, 28%	B	0	/
13	Chromic Acid, 60%	B	2	/
20	Formic Acid, 90%	B	2	/
23	Hydrochloric Acid, 37%	B	0	/
24	Hydrofluoric Acid, 48%	B	1	/
25	Hydrogen Peroxide, 30%	B	0	/
26	Iodine, Tincture of	B	0	/
31	Nitric Acid, 20%	B	0	/
32	Nitric Acid, 30%	B	0	/
33	Nitric Acid, 70%	B	2	/
35	Phosphoric Acid, 85%	B	0	/
36	Silver Nitrate, Saturated	B	1	/
37	Sodium Hydroxide, 10%	B	0	/



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Test No.	Chemical	Method	Rating	Comments
38	Sodium Hydroxide, 20%	B	0	/
39	Sodium Hydroxide, 40%	B	0	/
40	Sodium Hydroxide, Flake	B	0	/
41	Sodium Sulfide, Saturated	B	0	/
42	Sulfuric Acid, 33%	B	0	/
43	Sulfuric Acid 77%	B	0	/
44	Sulfuric Acid, 96%	B	3	/
45	Sulfuric Acid, (77%) and Nitric Acid (70%), equal parts	B	0	/
49	Zinc Chloride, Saturated	B	0	/

Totals			
Items	Requirement	No. Reagent with 3 Ratings	Disposition
Volatile Subtotal:	-	2	---
Non-volatile Subtotal:	-	1	---
Grand Totals:	No More than Four Level 3 Conditions	3	*



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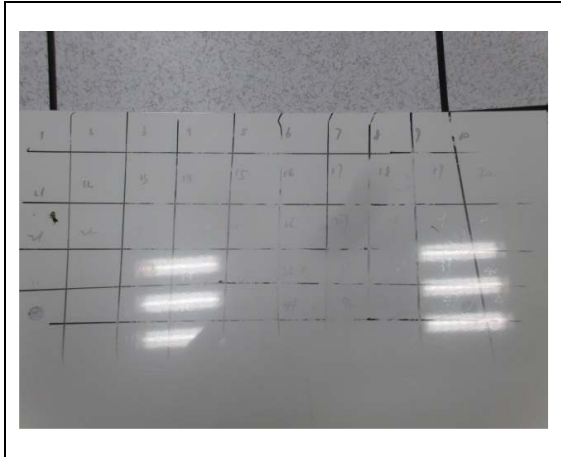
Test Report

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Date: AUG. 23, 2016 Page: 12 of 23

Chemical Spot Test Panel after Exposure

15



21

44



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Test Report

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8.2 HOT WATER TEST PROCEDURE:

Date Received: Jun. 20, 2016

Dates Tested: Jul. 19, 2016

Description of Samples:

Part Description: /
 Material Submitted: /
 Material Specification: SEFA-8M-2016
 Condition of Test Sample: Production

Test Procedure:

Test Method: SEFA-8M-2016, Sec 8.2
 Procedure: Hot water (100 ±3°C) shall be allowed to trickle (with a steady stream and at a rate of not less than 6 ounces [177.44cc] per minute) on the finished surface, which shall be set at an angle of 45-degrees, for a period of five minutes.

Number of Specimens Tested: One (1)

Acceptance Criteria:

After cooling and wiping dry, the finish shall show no visible effect from the hot water.

Results:

Specimen	Visible Effects From Hot Water	Disposition
1	None	Pass

Hot water test



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Test Report

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8.3 FINISH IMPACT TEST PROCEDURE:

Date Received: Jun. 20, 2016

Dates Tested: Jul. 19, 2016

Description of Samples:

Part Description: Plus Series - Drawer

Material Submitted: One (1) Painted Metal Panel

Material Specification: SEFA 8M-2016

Condition of Test Sample: Production

Test Procedure:

Test Method: SEFA 8M-2016, Sec 8.3

Procedure: Position the panel on a smooth concrete floor. A one-pound ball (approximately 2" [50.8mm] in diameter) shall be dropped from a distance of 12" (304.8 mm) onto a flat horizontal surface.

Number of Specimens Tested: One (1)

Acceptance Criteria:

There shall be no visual evidence to the naked eye of cracks or checks in the finish due to impact.

Results:

Specimen	Cracks or Checks in Finish	Disposition
1	None	Pass

Finish impact test



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8.4 PAINT ADHESION ON STEEL PROCEDURE:

Date Received: Jun. 20, 2016

Dates Tested: Aug. 08, 2016

Description of Samples:

Material Specification: SEFA 8M-2016

Condition of Test Sample: Production

Test Procedure:

Test Method: SEFA 8M-2016, Sec 8.4: ASTM D3359-02, Method B, Cross-Cut Tape Test

Procedure: Two sets of six parallel lines 2 mm apart shall be cut with a razor blade to intersect at right angles thus forming a grid of 25 squares. The cuts shall be made just deep enough to go through the coating, but not into the substrate. They shall then be brushed lightly with a soft brush then place a piece of tape over the grid. Rub the tape firmly with the eraser of a pencil to ensure good contact. Remove the tape by rapidly pulling it back upon itself as close to an angle of 180° as possible.

Tape: SEMicro's CHT

Number of Specimens Tested: One (1) Panel

Acceptance Criteria:

A 4B rating or better (ninety five percent or more of the grid area shall show finish intact.)

Results:

Specimen	Tape Rating	% of Intact Squares	Disposition
1	5B	/	Pass



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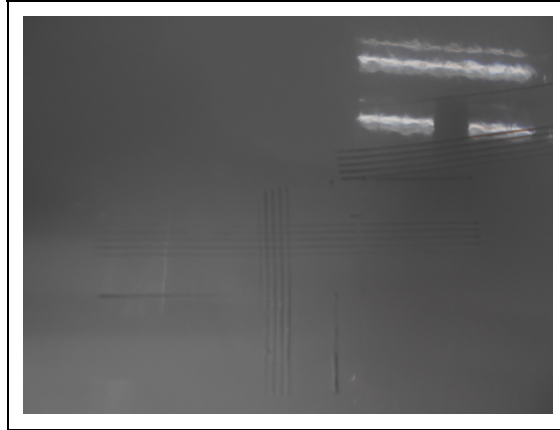
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Paint Adhesion on Steel Test before Impact



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8.5 PAINT HARDNESS ON STEEL PROCEDURE:

Date Received: Jun. 20, 2016

Dates Tested: Jul. 19, 2016

Description of Samples:

Material Specification: SEFA 8M-2016

Condition of Test Sample: Production

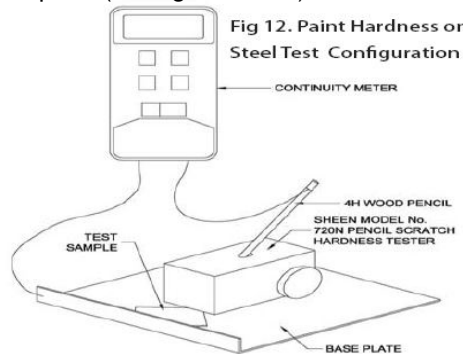
Test Procedure:

Test Method:

Procedure:

SEFA 8M-2016, Sec 8.5; ASTM D3363-05

Clip a corner of the sample at 45° exposing a raw metal edge. Place the sample on a raw metal base plate so that the exposed metal edge of the sample makes contact with the turned up side of the base plate (see figure below)



Remove approximately 6 mm of wood from a 4H pencil, being careful to leave an undisturbed smooth cylinder of lead. Holding the pencil at an angle of 90° to an abrasive paper, rub the lead against the paper marinating an exact angle of 90° until a flat smooth and circular cross section is obtained. On the other end the pencil remove approximately 13 mm of wood from one half of the pencil (see figure above).

Install the pencil into a Sheen model 720N Pencil Scratch Hardness Tester. Connect a continuity meter to the base plate and to the top of the pencil, being sure to make good contact with the exposed portion of the lead.



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Following the manufactures instructions place the tester on the surface of the test sample and push it forward approximately 13 mm. Rotate the pencil 90° in the holder and repeat the test to one side of the first test. Repeat this two more times for a total of four tests, each with a different quadrant of the pencil lead.

Pencils used: Berol Turquoise
 Number of Specimens Tested:

One (1) Panel

Acceptance Criteria:

The paint finish shall withstand the abrasion of a 4H pencil without penetrating through to the substrate and completing a continuous circuit.

Results:

Specimen	Pencil Hardness	Pencil Penetrating to Substrate	Completing a Continuous Circuit	Disposition
1	4H	None	None	Pass

Paint Hardness on Steel Test Set-up



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9.2 WALL MOUNTED CABINET LOAD TEST:

Date Tested: Aug. 10, 2016

Condition of Test Samples: New

Number of Samples Tested: One (1)

Description of Samples:

Wall Cabinet has a shelf that is 13in. depth x 31in. Height, x 48in. wide, with 2 doors.

9.2.2. Test Procedure:

Test Method:

A wall mounted cabinet shall be mounted as per manufacturer's instructions and is to have the standard number of shelves. Use shot or sand bags weighing 10 pounds (4.535 Kg) each. Load the shelves per Section 7.0. Including the bottom, each shelf, and top uniformly with 40 pounds (18.14 Kg) per square foot shelf area to a maximum of 200 pounds (90.70 Kg).

9.2.3. Acceptance Level:

With weights in place, operate the doors through full travel to verify normal operation of the doors. Remove weights and operate doors to verify normal operation. Verify that there is no permanent deflection of the cabinet top, cabinet back, cabinet bottom, or shelves. After weights are removed, the cabinet shall show no permanent damage to the cabinet, cabinet bottom, or shelves.

Results:

Pass. (The submitted sample meets the acceptance criteria for the test described above. Refer to the following page for photograph.)



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Received wall cabinet



Wall Mounted Cabinet Load Test



Wall Mounted Cabinet Load Test

Static Load	Deflection (in.)	Description of Results
570lbs	1/16in.	Pass



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CERTIFICATE OF SEFA COMPLIANCE

SGS SH lab certifies that it has performed testing as specified in **SEFA 8M-2016 Recommended Practices** on the laboratory grade furniture produced by Hamilton Laboratory Solutions on this Aug. 16, 2016 obtaining the results below. Full documentation of the test results is available upon request in a bound report that includes a detailed description of the test unit and procedures, witnesses results and appropriate drawings or photographs of the test unit and procedures.

SEFA 8-M-2016 Recommended practices for metal laboratory furniture, casework, shelving and tables

Nos. of Specimen : 1pc.

Test Result : Pass. Details shown as following table

Clause	Test Items	Result	Note
4.0	Base cabinets	---	---
4.1	Description of test cabinet	N/A	# 1
4.2	Cabinet load test	N/A	# 1
4.3	Cabinet concentrated load test	N/A	# 1
4.4	Cabinet torsion	N/A	# 1
5.0	Doors	---	---
5.1	Door hinge test	N/A	# 1
5.2	Door impact test	N/A	# 1
5.3	Door cycle test	N/A	# 1
6.0	Drawers	---	---
6.1	Drawer static test	N/A	# 1
6.2	Drawer & door pull test	N/A	# 1
6.3	Drawer impact test	N/A	# 1
6.4	Drawer internal rolling impact	N/A	# 1
6.5	Drawer cycle test	N/A	# 1
7.0	Shelving	---	---
7.1	Description of test unit	---	---
7.2	Load test	Pass	---



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8.0	Cabinet surface finish test	---	---
8.1	Chemical spot test	Pass	# 2
8.2	Hot water test	Pass	---
8.3	Impact test	Pass	---
8.4	Paint adhesion on steel	Pass	---
8.5	Paint hardness on steel	Pass	---
9.0	Wall mounted cabinets	---	---
9.1	Description of test cabinet	Pass	# 3
9.2	Load test	Pass	---
10	Tables	---	---
10.1	Description of test unit	N/A	# 1
10.2	Load test	N/A	# 1
10.3	Table racking	N/A	# 1

Notes : # 1- N/A means not applicable to this product design.
 # 2- Details see Clause 8.1.
 # 3- 48in. W x 13in. D x 31in. H



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Test Report

No.: SHHL1605031251FT-01

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Member Information	
Model Number	706S8330
Contact Name:	Ron Abney
Member Name:	Hamilton Laboratory Solutions
Address 1:	825 East Albert Drive
Address 2:	/
City, State(Region)	Manitowoc, Wi 54220
Postal Code:	
Country:	USA
Phone:	(920) 657-1970 ext 103
Email:	rabney@hamiltonlab.com

Test Lab Information	
Contact Name:	Donna Gu
Contact Title:	Furniture Lab Manager
Test Lab Name	SGS HL lab
City, State(Region)	Shanghai, XuHui District, 200233
Postal Code Country:	
Signature:	

Test Performed by:	SGS HL lab
Name of Tester:	Stan Zhong
Signature of Tester:	Stan Zhong

End of Report



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