

Test Report

No.: SDHL1711025866FT

Date: Dec.15, 2017

Page 1 of 8

GUANGDONG TMOON LABORATORY EQUIPMENT MANUFACTURING CO., LTD.
LUBAO INDUSTRIAL ZONE(F3), SANSHUI DISTRICT, FOSHAN CITY, GUANGDONG

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

Sample Description : TMOON STORAGE CABINET

Sample Receiving Date : Nov.30, 2017

Test Performing Date : Nov.30, 2017 to Dec.15, 2017

Test Result Summary

Test(s) Requested	Result(s)
EN 14727:2005	PASS

Summary:

1. For further details, please refer to the following page(s).

Signed for and on behalf of
Shunde Branch
SGS-CSTC Co., Ltd.



Hary Nie
Approved signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Shunde Branch Harimies

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TESTS AND RESULTS

Test Conducted:

EN 14727:2005 Laboratory furniture - Storage units for laboratories - Requirements and test methods.

No. of Sample:

1 piece (Sample 1). For more sample information and pictures, please refer to the following page.

Test and Requirements	Test Results
6 General safety requirements	
Components or parts of the storage units and worktops of storage units with which the user may come into contact during normal use shall have no burrs and/or sharp edges, nor shall there be open-ended tubes.	PASS
To avoid the hazard of a pinching or scissoring action between moving parts accessible during normal use the distance between such parts shall be kept to less than 8 mm or greater than 25 mm in any position during movement, with the exception of doors (including hinges) and extension elements (including runners), but including the distance between handles and other parts.	PASS
In order to avoid pinching points for feet the safety height for vertically moving units shall be at least 100 mm from the floor.	N/A
All roll front doors sliding vertically shall not move by themselves from any position higher than 50 mm measured from the closed position if this can cause any injury.	N/A
All extension elements whose mass including contents exceeds 10 kg (see table 1) shall have effective open stops, i.e. they shall resist being pulled out of the carcass once by a force of 200 N applied to the handle of the loaded drawer or they shall be supplied with a label on the drawer's front, that the drawer can easily be pulled out.	N/A
Any external, vertical glass component $\geq 0.1 \text{ m}^2$ in area, where the smallest dimension is greater than or equal to 200 mm and any part of which is less than 900 mm above the floor, shall not break when tested according to EN 14072, when using a drop height of 60 mm or shall break as specified in EN 14072:2003, clause 7, C2 or C3.	N/A
At least two of the wheels or castors of movable units shall be lockable.	PASS
If high storage units are equipped with ladders, the ladders shall comply with the relevant requirements of EN 131-2.	N/A
7.1 Shelves	
7.1.1 Stable positioning of shelves The shelves tested shall not fall down when the horizontal force applied to the middle of the front edge required to initiate movement of the unloaded shelf is more than 50 % of the weight of the unloaded shelf. No unloaded shelf shall tip when a downward vertical force of 100 N is applied at any point 25 mm in from the front edge.	PASS
7.1.2 Deflection of shelves Load the shelf uniformly with the maximum load specified by the manufacturer or within the loads in Table 1 and apply for: -one hour for shelves made of metal, glass and stone; -one week for all other shelves. Measurement and record of deflection before and after loading shall be made.	PASS Load: 23.5 kg Deformation: 0.88 mm Deflection: 0.0016



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Test and Requirements	Test Results
7.2 Shelf supports For the shelf being tested, distribute the load uniformly according to table 1, except at approximately 220 mm from one support, where the impact plate shall be tipped over 10 times at a point as close to the support as possible. The striking surface shall be that faced with rubber. After the test the shelf supports and/or the shelf/carcase shall show no fracture or other damage that can affect the safety.	PASS
7.3 Pivoted doors 7.3.1 General These tests apply to all doors hinged to the carcass on one vertical side (incl. folding doors). Load all components intended for storage purposes uniformly according to Table 1.	
7.3.2 Strength of pivoted doors Load the door with a load of 30 kg acting 100mm from the front edge of the door. Swing the door 10 full cycles (back and forth) from a position 45° from fully closed to a position 10° from fully opened, but to a maximum of 135°. After the test the door shall remain fully attached to the cabinet.	PASS
7.3.3 Horizontal static force on open door Doors having a maximum opening angle of 135° or less, shall be tested as follows: Apply a horizontal static force of 80 N to the fully opened door perpendicular to the plane of the door on its horizontal centre line 100 mm from the outer edge of the door in the direction of the opening. Apply the load 10 times. Before and after the test, inspect the appearance and function of the unloaded door after using the adjustment provided. There shall be no damage affecting function. After the test the door shall remain fully attached to the cabinet.	PASS
7.3.4 Durability test on hinged and pivoted doors Attach a weight with a mass of 2 kg equally distributed on both sides of the door on the vertical centre line. Swing the door 50,000 cycles (back and forth) without forcing the hinge in the open position from a position 45° from fully closed to a position 10° from fully opened, but to a maximum of 135°, the recommended rate is maximum 6 cycles per minute. Any door closing catch mechanism fitted shall be operated at every cycle. Before and after the test, inspect the appearance and function of the unloaded door after using any adjustment provided. NOTE At the end of the test, the force required for opening and closing should not vary from more than 20 %. After the test, the function of the door shall not be impaired.	PASS
7.4 Sliding doors and horizontal roll fronts 7.4.1 General This test applies to all doors sliding horizontally including those constructed from hinged elements. Load all components intended for storage purposes uniformly according to Table 1.	
7.4.2 Slam open and shut The door shall be opened /closed by means of a string or cord attached to the centre of the handle. If the handle has a length greater than 200 mm, the string shall be attached 100 mm below the top of the handle up to a maximum height from the floor of 1 200 mm (see Figure 3). If the door has no handle, the string shall be attached at middle of the door height, up to a maximum of 1 200 mm from the floor. Close/open the door/roll front 10 times towards the fully closed/opened positions using the test mass (W + 4 kg). Start the movement 300 mm from the closed/opened positions respectively. The test mass shall be removed 10 mm before the door/roll front is fully closed/opened. After test the door shall still be retained within the carcass and shall show no fracture or damage and its function shall not be impaired.	N/A



Test and Requirements	Test Results
7.4.3 Durability test of sliding doors and horizontal roll fronts Open and close the door or roll front gently 20,000 cycles from the fully closed position to a position 50 mm from the fully opened position. Apply the opening and closing force to the handle. If the door/roll front has a catching device at any position, operate this mechanism at every cycle. Catching device does not include locking mechanism. After test, the door and/or carcass shall show no fracture or damage and its function shall not be impaired.	N/A
7.5 Drawers and extension elements	
7.5.1 General Load all components intended for storage purposes uniformly according to Table 1.	
7.5.2 Slam open test for drawers equipped with open stops Place the extension element on its runners and load with glass marbles (5.7) according to Table 1. Close the extension element to a position 300 mm from the fully open position (or fully close the extension element if the travel is less than 300 mm). Slam the extension elements open 10 times. During the test, the drawer or parts of it shall not fall out of the cabinet and there shall be no fracture or damage that impairs the function.	N/A
7.5.3 Strength of drawers and extension elements Open the test element to its open stops. If it is not fitted with open stops, open it to the point at which one-third of its inside length (depth) or at least 100 mm remains inside the carcass. Apply a vertical force of 250N to one top corner of the drawer front. The forces shall be applied until the full load has been reached or until the drawer front has deflected downwards to a point 100 mm below its horizontal position. Maintain the load for a minimum of (10 ± 2) s. Carry out the test for a total of ten times. Before and after the test, inspect the function of the drawer. After the test, there shall not be fracture or damage that impairs the function.	N/A
7.5.4 Durability test of drawers and extension element Open and close the drawer or extension element gently and without vertical support over its full distance of travel without forcing the stop in the open position for 50,000 cycles. The operating force shall be applied at the position intended in normal use (i.e. the drawer handle), ensure no upwards or downwards force is applied to the drawer runners when closing the drawer. Before and after the test, inspect the appearance and function of the drawer and runners. After the test, there shall not be fracture or damage that impairs the function.	N/A
7.5.5 Displacement of drawer bottoms Place the drawer on its runners, or suspend it in a similar way. Apply a force of 70 N through the loading pad (5.4) approximately 25 mm above the bottom of the drawer, at the middle of the front and back of the drawer. Apply the force 10 times and maintain it for at least (10 ± 2) s at each time. Before and after the test, inspect the appearance and function of the drawer. After the test, there shall not be fracture or damage that impairs the function.	N/A
7.6 Flaps	
7.6.1 General This test only applies to flaps intended to be loaded when used in the open position, e.g. as a work surface. Load all components intended for storage purposes uniformly according to Table 1.	



Test and Requirements	Test Results
7.6.2 Strength test Load the flap vertically 10 times with 200 N using the loading pad. During each application maintain the load for (10 ± 2) s. After the test, the flap shall remain fully attached to the cabinet and there shall be no fracture or damage that impairs the function	N/A
7.6.3 Durability test Open and close the flap fully and gently 20,000 cycles. Use approximately 3 s for opening and 3 s for closing the flap. If the flap has a catching device at any position, operate this mechanism at every cycle. When the flap is fitted with an adjustable friction stay it shall be adjusted so that the flap will just open under its own weight and readjusted when necessary but not more than 10 times during the test. Before and after the test, inspect the appearance and function of the flaps, hinges etc. readjusting if possible. Measure the braking force of any friction stay without adjustable friction before and after the test. After the test, there shall no fracture or damage that impairs the function.	N/A
7.7 Static load on top surfaces of storage units	
7.7.1 Top Surfaces This test only applies to all top surfaces which are ≤ 100 mm above the floor surface. Load all components intended for storage purposes uniformly according to Table 1. Load the work top vertically 10 times with 1 000 N at the position most likely to cause failure using the loading pad (5.4) but not less than 50 mm from the edge. During each application maintain the load for (10 ± 2) s. After the test the work top and/or carcass shall show no fracture or damage that can affect the safety.	PASS
7.8 Wall and top mounted units	
7.8.2 Tests on movable parts, shelf supports and top surfaces Clause 7.2 Shelf supports; Clause 7.3 Pivoted doors; Clause 7.4 Sliding doors and horizontal roll fronts (slam shut and open); Clause 7.5 Drawers and extension elements; Clause 7.6 Flaps; Clause 7.7 Top surfaces. After the test, the unit shall remain attached as mounted	N/A
7.8.3 Overload After carrying out the tests on the movable parts, increase the load on all the storage areas according to the following principle. The load on the bottom shall be 250 kg/m ² ; load on the first shelf shall be 150 kg/m ² ; load on the second shelf shall be 100 kg/m ² ; load on the third and following shelves shall be 65 kg/m ² ; and load on the top surface shall be 50 kg/m ² . If the volume of the unit, calculated by the inner width, depth and height, is greater than 0,225 m ³ , the loads shall be multiplied by the factor R. When reduction of the load is necessary; it shall be removed from the bottom. The loading time shall be one week. After the test, the unit shall remain attached as mounted and shall support the test load.	N/A
8 Stability	



Test and Requirements	Test Results
8.1 Stability with closed drawers and doors Free-standing units with worktops shall, when unloaded, not overturn when an outwards overturning moment of 200 Nm is applied. During testing, all doors, flaps and extension elements shall be closed.	N/A
8.2 Stability with open drawers, flaps and doors Free-standing units, combinations of units and underbench units on castors shall not overbalance when doors, flaps or drawers are opened without defeating interlocks. During testing all drawers shall be loaded with the maximum load specified by the manufacturer or with the loads according to Table 1.	PASS
9 Additional safety requirements for underbench cabinets on castors	
9.1 Retention of drawers on sudden cessation of movement of unit Cabinets equipped with castors shall have a means of retaining all drawers in the closed position when the unit is moved.	N/A
9.2 Stopping device Place the cabinet on a floor sloping at an angle of 5° to the horizontal and apply the stopping devices on two castors only. Load the cabinet either with the maximum load specified by the manufacturer or in accordance with Table 1. Check whether the cabinet moves down the sloping floor in the loaded or unloaded condition when no horizontal force is applied. The unit shall not move when tested.	PASS
10 Installation instructions Each wall and top mounted cabinet shall be supplied with installation instructions. The instructions shall contain at least the following information in the language of the country, where the furniture is sold: a) Warning of danger if incorrectly installed; b) Installation only to be carried out by a competent person; c) Need to check the suitability of the wall/ceiling and to check that the fastening devices will withstand the forces generated. For self assembly furniture the following additional information is required: d) List of parts supplied; e) List of tools required; and f) Diagram of the bolts and other fastenings required.	N/A

Remark:

1. N/A – Not applicable; N/R – Not Requested; N/P – Not provided.
2. For the sample information and pictures, please refer to the following page.



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SAMPLE INFORMATION AND PICTURES

Weight: 32.65 kg

Overall Dimensions: 600 mm W x 500 mm D x 760 mm H

Other Dimensions: /

Sample as Received



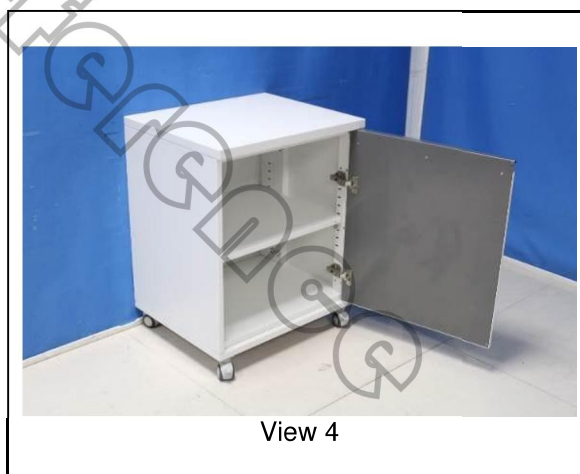
View 1



View 2



View 3



View 4



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View 5

End of Report





Test Report

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Date: APR 01, 2019

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Test Report For:

(GUANGDONG TMOON LABORATORY EQUIPMENT MANUFACTURING CO., LTD.)

SEFA 8M – 2016
LABORATORY GRADE METAL CASEWORK

Signed for and on behalf of
SGS-CSTC Co., Ltd. Anji Branch



David Fan

Approved Signatory

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Client Contact Information

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DATE RECEIVED: JAN 21, 2019
SAMPLE RE-SUBMITTED DATE: MAR 22, 2019
DATES TESTED: JAN 21, 2019 TO APR 01, 2019

DESCRIPTION OF SAMPLES:

SEFA 8M Required Test Units
Market Name of Product: All Steel Lab Bench

Model Number	Description of Sample	Condition of Sample
TMW	Base Cabinet	New



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WORK REQUESTED/APPLICABLE DOCUMENTS:

SEFA 8M-2016 Laboratory grade metal casework

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	---	---
4.2	Cabinet load test	Pass	---
4.3	Cabinet concentrated load test	Pass	---
4.4	Cabinet torsion	Pass	---
5.0	Doors	---	---
5.1	Door hinge test	Pass	---
5.2	Door impact test	Pass	---
5.3	Door cycle test	Pass	---
6.0	Drawers	---	---
6.1	Drawer static test	Pass	---
6.2	Drawer and door pull test	Pass	---
6.3	Drawer impact test	Pass	---
6.4	Drawer internal rolling impact test	Pass	---
6.5	Drawer cycle test	Pass	# 2
7.0	Shelving	---	---
7.1	Description of test unit	---	---
7.2	Shelf load test	Pass	---
8.0	Cabinet surface finish test	---	---
8.1	Chemical spot test	Pass	# 3
8.2	Hot water test	Pass	---
8.3	Impact test	Pass	---
8.4	Paint adhesion test	Pass	---
8.5	Paint hardness test	Pass	---
9.0	Wall, counter mounted, and tall units	---	---
9.1	Description of test cabinet	N/A	# 1



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Test Report

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9.2	Wall cabinet load test	N/A	# 1
10	Tables	---	---
10.1	Description of test unit	N/A	# 1
10.2	Table static load	N/A	# 1
10.3	Table racking	N/A	# 1
Notes	: # 1- N/A means not applicable to this product design.		

2- As client's requirement, drawer cycle test was performed with Laboratory Load.

3- The test was performed by SGS other internal laboratory.

Just for reference



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Member of the SGS Group (SGS SA)

4.1 DESCRIPTION OF TEST CABINET:

Date Tested: JAN 21, 2019

Condition of Test Sample: New

Overall Size of the test sample: 1218mm (W)×550mm (D)×910mm (H)

Description of Samples:

Model Number	Description of Sample
TMW	Base Cabinet

Part Description:

Base unit has one drawer, two doors and one adjustable shelf. The drawer is above the cupboard, full width and approximately one-fourth the height of the cabinet's face opening. The inside depth of the drawer is 18.7" (475mm). Cupboard provides unobstructed entry into the cabinet interior with the doors open. The cabinet back is the removable type.

Note to Tester: For the tests to be valid, the required test units must be used.



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Photo 1 of Base Cabinet



Photo 2 of Base Cabinet



Photo 3 of Base Cabinet



Photo of Hinge



Photo of Drawer Slide



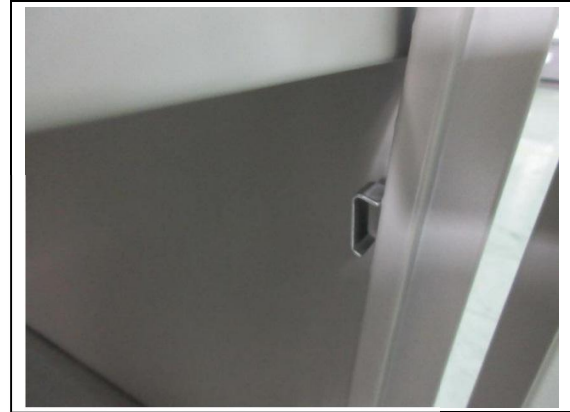
Photo of Leveling Bolt mounted in cabinet



Photo of Drawer / door Pull



Photo of Shelf Support



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4.2 CABINET LOAD TEST:

Date Tested: JAN 21, 2019

Condition of Test Sample: New

Description of Samples:

Model Number	Description of Sample
TMW	Base Cabinet

4.2.2 Test Procedure:

Test Method: Verify that the cabinet is level and supported only by the levelers. Load the cabinet top by using 2000 pounds (907.2 Kg) of solid steel bars (per Section 3.1) stacked five high and evenly spaced. After ten minutes, unload the cabinet.

Number of Samples Tested: One (1)

4.2.3 Acceptance Level:

The cabinet will have no signs of permanent failure. After the load is removed, inspect the levelers. Any deformation shall not interfere with the function of the leveling system.

Results:

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

Cabinet Load Test



4.3 CABINET CONCENTRATED LOAD TEST:

Date Tested: JAN 22, 2019

Condition of Test Sample: New

Model Number	Description of Sample
TMW	Base Cabinet

4.3.2 Test Procedure:

Test Method: Using solid weights or 10 pound (4.535 Kg) sand bags (per Section 3.1), apply a total of 200 pounds (90.718 Kg) to the top of the cabinet along the cabinet centerline. Operate doors and drawers.

Number of Samples Tested: One (1)

4.3.3 Acceptance Level:

Door and drawer operation shall be normal under condition of test load. There shall be no signs of permanent deformation to front rail, cabinet joinery, doors, or drawers.

Results:

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

Concentrated Load Test



4.4 CABINET TORSION:

Date Tested: JAN 22, 2019 TO JAN 23, 2019

Condition of Test Samples: New

Model Number	Description of Sample
TMW	Base Cabinet

4.4.2 Test Procedure:

Test Method:

The cabinet shall be tested in its normal upright position, raised not less than four inches off the floor and supported on rear and one front corner. The area of support under the cabinet shall be located not more than 6" (152.4 mm) in from each supported corner. Secure the cabinet diagonally from the supported corner with seven solid steel bars per Section 3.1 (350 lbs (158.757 Kg) of weight), on the top of the cabinet to prevent overturning. Apply four solid steel bars (200 lbs (90.718 Kg) of weight) to the unsupported corner for a period of 24 h. Remove weight and place the cabinet on the floor in its normal upright position. Observe the cabinet joinery. Level the cabinet and measure the face and back of the cabinet across the diagonal corners.

Number of Samples Tested:

One (1)

4.4.3 Acceptance Level:

When returned to normal position, the operation of the cabinet shall be normal, and there will be no signs of permanent damage. The difference between the two measurements taken from measuring the diagonal corners shall be no more than 1/8" (3.175mm).

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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Cabinet Torsion Test



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5.1 DOOR HINGE TEST:

Date Tested: JAN 23, 2019

Condition of Test Sample: New

Model Number	Description of Sample
TMW	Base Cabinet

5.1.2. Test Procedure:

Test Method: Remove the shelf for this test. With unit and top set as described in Section 4.1, add sufficient weight to the top in order to prevent overturning. With cabinet door opened 90-degrees, hang a sling made up of two 100 pound (45.359 Kg) weights (shot bags or solid weights) over top of the door at a point 12" (304.8 mm) out from the hinge centerline. Slowly move door through two full cycles of the hinge at 160 degree arc. Remove weight and swing door through its full intended range of motion and close door.

Number of Samples Tested: One (1)

5.1.3 Acceptance Level:

The open door shall withstand a load of 200 pounds (90.70 Kg) when applied at a point 12" (304.8mm) from the hinge centerline without permanent damage. Operation of the door, after test shall show no significant permanent damage that will cause binding of the door or hinges or that will adversely affect operation of the catch.

Results:

Pass. The submitted sample meets the acceptance criteria of the test. The door operated normally through its entire range of motion, and the door catch still operated normally. Refer to the following page for photograph.

Door Hinge Test



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5.2 DOOR IMPACT TEST:

Date Tested: JAN 24, 2019

Condition of Test Sample: New

Model Number	Description of Sample
TMW	Base Cabinet

5.2.2. Test Procedure:

Test Method: With unit and top set as described in Section 4.1, add sufficient weight to the top in order to prevent overturning. A 20 lb (9.07 Kg) sand bag (Section 3.1) shall be suspended and dropped to provide an impact of 240 inch-pounds (27.1 N-m) at the center of the closed door.

Number of Samples Tested: One (1)

5.2.3 Acceptance Level:

After the test the door and catch shall operate normally and show no signs of permanent damage. A dent or depression is an indication of permanent damage. This test is not intended to evaluate the cabinet finish.

Results:

Pass. The submitted sample meets the acceptance criteria of the test. The door operated normally through its entire range of motion, and the door catch still operated normally. Refer to the following photograph.

Door Impact Test



5.3 DOOR CYCLE TEST:

Dates Tested: JAN 24, 2019 TO JAN 29, 2019

Condition of Test Sample: New

Model Number	Description of Sample
TMW	Base Cabinet

5.3.2. Test Procedure:

Test Method: This test shall be in conformance to the ANSI test procedure A156.9, Grade 1, requirements for cycle testing of doors. A cycling mechanism shall swing door 90-degrees. Door shall operate for 100,000 cycles with a speed not greater than 15 cycles per minute. (Notes takes approximately 112 hours)

Number of Samples Tested: One (1)

5.3.3 Acceptance Level:

Door shall operate for the full cycle period without deterioration that will significantly affect the function of the door. The door shall operate freely without binding.

Results:

Pass. There was no functional or structural damage to the unit. The doors operated freely with out binding. The sample meets the acceptance criteria. Refer to the following photograph.

Door Cycle Test



6.1 DRAWER STATIC TEST:

Date Tested: JAN 29, 2019

Condition of Test Sample: New

Model Number	Description of Sample
TMW	Base Cabinet

6.1.2. Test Procedure:

Test Method:

With unit and top set as described in Section 4.1, add sufficient weight to the top in order to prevent overturning. Open the drawer to 13" (330.2 mm) of travel and hang 150 pounds (68.03 Kg) from the drawer head at the centerline of the drawer for five minutes. Remove the weight and operate the drawer through the full cycle.

Number of Samples Tested:

One (1)

6.1.3. Acceptance Level:

There shall be no interference with the normal operation of the drawer and the drawer head should remain tightly fastened to the drawer.

Results:

Pass. The submitted sample met the acceptance criteria of the test. Refer to the following photograph.

Drawer Static Load Test



6.2 DRAWER AND DOOR PULL TEST:

Date Tested: FEB 11, 2019

Condition of Test Sample: New

Model Number	Description of Sample
TMW	Base Cabinet

6.2.2. Test Procedure:

Test Method: Pulls are to be installed in accordance with manufacturer's practice using specified attaching hardware and method. Block door and drawer closed. Using a force gauge attached with a 1" (25.4 mm) wide bracket, apply a force of 50 pounds (22.68 Kg), for 15 s, perpendicular to each pull. Revise setup to apply force downward.

Number of Samples Tested: One (1)

6.2.3. Acceptance Level:

Pulls shall resist force without breakage. After completion of test and removal of weight, there shall be no significant permanent deformation.

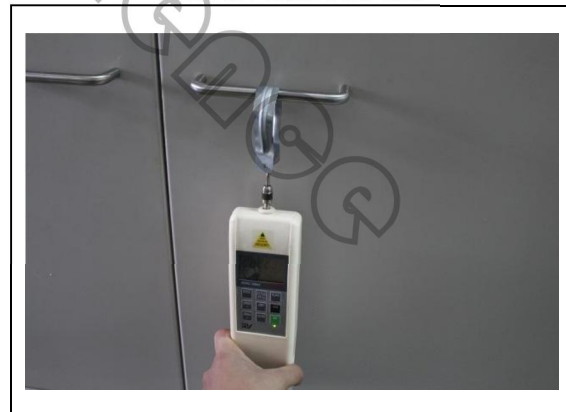
Results:

Pass. There was no functional or structural damage to the unit. The drawer and door operated freely. The sample meets the acceptance criteria. Refer to the following photographs.

Drawer / Door Pull Test



Drawer / Door Pull Test



6.3 DRAWER IMPACT TEST:

Date Tested: FEB 11, 2019

Condition of Test Sample: New

Model Number	Description of Sample
TMW	Base Cabinet

6.3.2. Test Procedure:

Test Method: Remove drawer; support each corner with 2"x2"x1" (50.8x50.8x25.4 mm) supports. Drop a 10 pound (4.545 Kg) sand or shot bag from a height of 24" (609.6 mm) into the bottom of the drawer at the center of the width of the drawer. Remove the sand or shot bag.

Number of Samples Tested: One (1)

6.3.3. Acceptance Level:

No damage or breakout of the drawer bottom.

Results:

Pass. The submitted sample meets the above acceptance criteria. Refer to the following photograph.

Drawer Impact Test



6.4 DRAWER INTERNAL ROLLING IMPACT TEST:

Date Tested: FEB 11, 2019

Condition of Test Sample: New

Model Number	Description of Sample
TMW	Base Cabinet

6.4.2. Test Procedure:

Test Method: Position the drawer on a table at a 45-degree angle. Place a 2" (50.8 mm) diameter by 12" (304.8 mm) long steel rod (approximately 10 pounds (4.545 Kg) 13" (330.2 mm) from the target impact area such that the rod will roll freely to impact the back of the drawer. Subject the back to three impacts and reverse the drawer to subject the front to three additional impacts.

Number of Samples Tested: One (1)

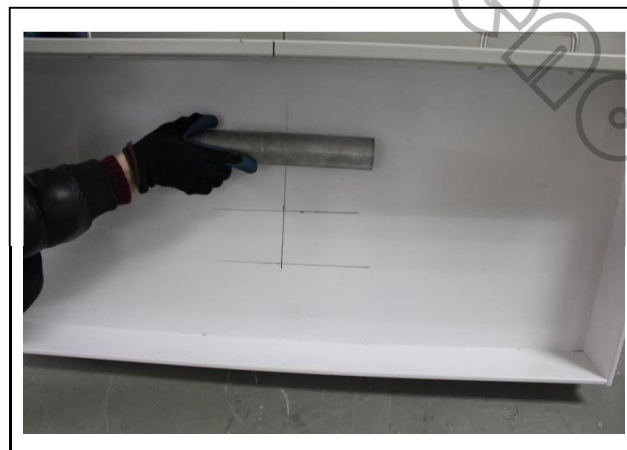
6.4.3. Acceptance Level:

The drawer shall show no permanent damage. All joinery shall be intact and the drawer, when replaced in the unit, shall operate normally. Minor scratches and dents are acceptable.

Results:

Pass. The submitted sample meets the acceptance criteria of the test described. Refer to the following photograph.

Rolling Impact Test



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6.5 DRAWER CYCLE TEST:

Date Tested: FEB 11, 2019 TO FEB 15, 2019

Condition of Test Sample: New

Model Number	Description of Sample
TMW	Base Cabinet

6.5.2. Test Procedure:

Test Method: Laboratory Load (100 pounds (45.35 Kg) – A static load of 100 pounds (45.35 Kg) (using ten 10-pound (4.54 Kg) sandbags per Section 3.1) shall be uniformly distributed in the drawer. Measure force required to activate the drawer. Operate from a closed position to within ¼" (6.35 mm) of full extension for 50,000 cycles at a rate not to exceed 10 cycles per minute.

Number of Samples Tested: One (1)

6.5.3. Acceptance Level:

The drawer shall operate freely without evidence of dragging rubbing or binding. The force required to open and close loaded drawer shall not be greater 8 pounds (3.63 Kg) to activate hardware.

Results:

Pass. The submitted sample meets the acceptance criteria of the test. Refer to the following page for a photograph.

Cabinet Drawer Cycle Test



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7.2 SHELF LOAD TEST:

Date Tested: FEB 15, 2019

Condition of Test Sample: New

Model Number	Description of Sample
TMW	Base Cabinet

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

Base Cabinet has a shelf that is 48.7cm (19.2") depth x 121cm (47.6") wide.

7.2.2. Test Procedure:

Test Method:

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.

7.2.3. Acceptance Level:

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

Results:

Shelf Type	Shelf Load	Deflection Measured	Description of Results
Base Cabinet Shelf	90.7 kg	2.95 mm	PASS

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



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Shelf Load Test



Just for reference

8.1 CHEMICAL SPOT TEST:

Date Tested: MAR 25, 2019

Condition of Test Sample: Production Samples

Description of Samples:

Part Description:

Material Submitted:

/

Material Specification:

SEFA-8M-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 and water and blot dry. Condition the panel for 48-hours at 73±3 °F (23±2 °C) and 50 ± 5% relative humidity or the currently accepted guideline set by ASTM. Test the panel for chemical resistance using forty-nine different chemical reagents by one of the following methods.

Method A:

Test volatile chemicals by placing a cotton ball saturated with reagent in the mouth of a 1-oz. (29.574 cc) bottle and inverting the bottle on the surface of the panel.

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 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 or the currently accepted guideline set by ASTM using the following rating system.

Rating Scale:

Level 0	No detectable change.
Level 1	Slight change in color or gloss.
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:

One (1) panels

Deviation:



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Acceptance Criteria:

Results will vary from manufacturer to manufacturer due to differences in finish formulations. Laboratory grade finishes shall result in no more than four (4) Level 3 conditions. Individual test results, for the specified 49 reagents, will be verified with the established third party, independent SEFA 8 test submittal form. Suitability for a given application is dependent upon the chemicals used in a given laboratory.

Results:

Test No.	Chemical	Method	Rating	Comments
1	Acetate, Amyl	A	0	/
2	Acetate, Ethyl	A	0	/
4	Acetone	A	0	/
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	0	/
15	Dichloroacetic Acid	A	1	/
16	Dimethylformamide	A	0	/
17	Dioxane	A	0	/
18	Ethyl Ether	A	0	/
19	Formaldehyde, 37%	A	0	/
21	Furfural	A	2	/
22	Gasoline	A	0	/
27	Methyl Ethyl Ketone	A	0	/
28	Methylene Chloride	A	0	/
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	/



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Test No.	Chemical	Method	Rating	Comments
3	Acetic Acid, 98%	B	0	/
5	Acid Dichromate, 5%	B	0	/
9	Ammonium Hydroxide, 28%	B	0	/
13	Chromic Acid, 60%	B	0	/
20	Formic Acid, 90%	B	0	/
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	1	/
35	Phosphoric Acid, 85%	B	0	/
36	Silver Nitrate, Saturated	B	0	/
37	Sodium Hydroxide, 10%	B	0	/
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	3	/
49	Zinc Chloride, Saturated	B	0	/

Totals			
Items	Requirement	No. Reagent with 3 Ratings	Disposition
Volatile Subtotal:	-	0	--
Non-volatile Subtotal:	-	2	--
Grand Totals:	No More than Four Level 3 Conditions	2	PASS



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Chemical Spot Test "As Received" Test Panel

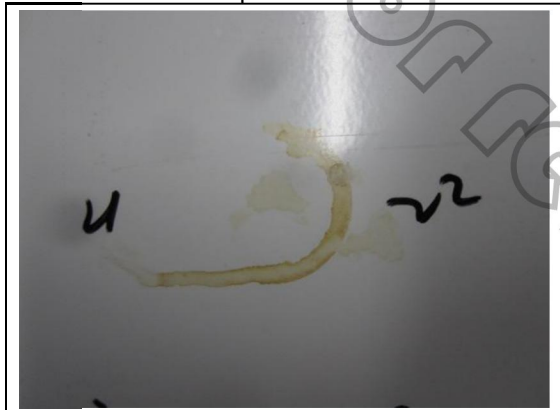


Chemical Spot Test Panel after Exposure



The following photos are of the Level 2 and Level 3 Results

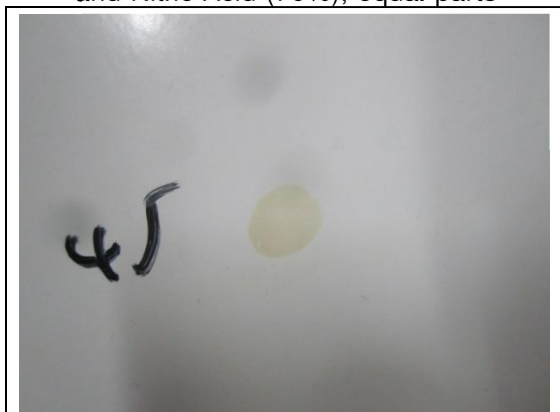
Chemical Spot Test 21 Furfural



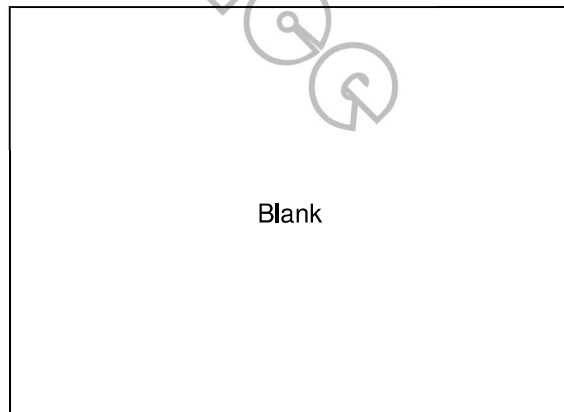
Chemical Spot Test 44 Sulfuric Acid, 96%



Chemical Spot Test 45 Sulfuric Acid (77%) and Nitric Acid (70%), equal parts



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Test Report

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8.2 HOT WATER TEST:

Date Received: MAR 22, 2019

Dates Tested: MAR 25, 2019

Description of Samples:

Part Description: Panel with white coating
Material Submitted: Painted Steel Panels
Material Specification: SEFA-8M-2016
Condition of Test Sample: Production

Test Procedure:

Test Method: SEFA-8M-2016, Sec 8.2

Procedure: Hot water (190°F to 205°F(88°C to 96°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°, 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



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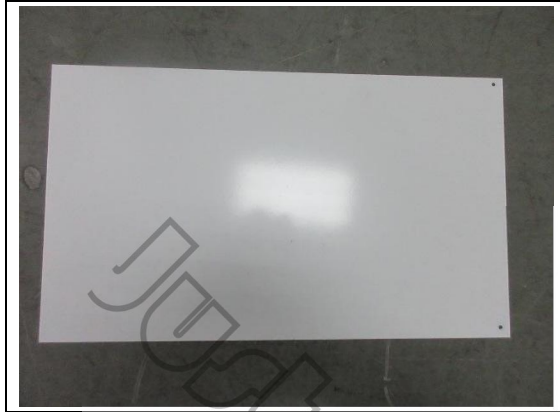
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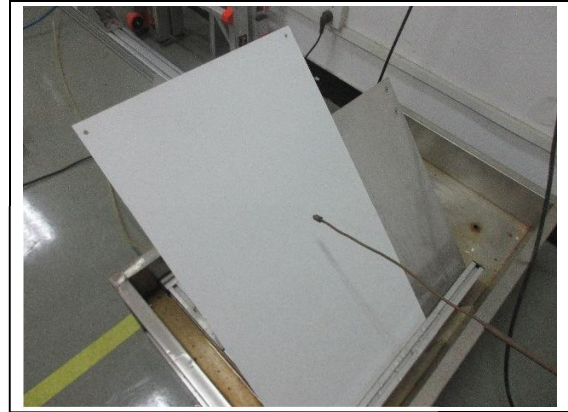
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Member of the SGS Group (SGS SA)

Hot Water Test "As Received" Test Panel



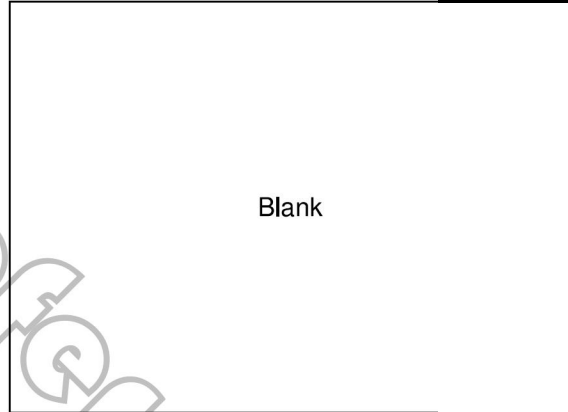
Hot Water Test Set-up



Hot Water Test after Exposure



Blank



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8.3 IMPACT TEST:

Date Received: MAR 22, 2019

Dates Tested: MAR 25, 2019

Description of Samples:

Part Description: Panel with white coating

Material Submitted: Painted Steel Panels

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" [50.8 mm] 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.

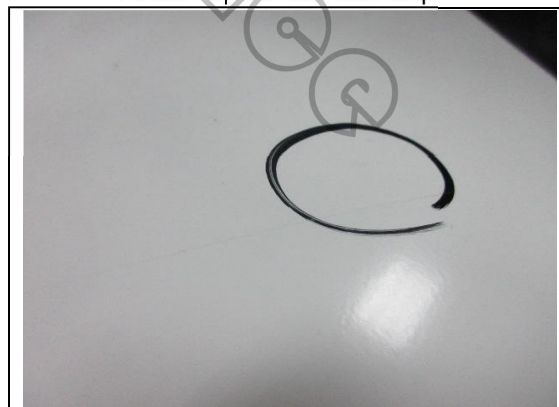
Results:

Specimen	Cracks or Checks in Finish	Disposition
1	None	Pass

Finish Impact Test before Impact



Finish Impact Test after Impact



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8.4 PAINT ADHESION TEST:

Date Received: MAR 22, 2019

Dates Tested: MAR 25, 2019

Description of Samples:

Part Description: Panel with white coating
Material Submitted: Painted Steel Panels
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. Brush the grid area 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: Permacel P99

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	100%	Pass



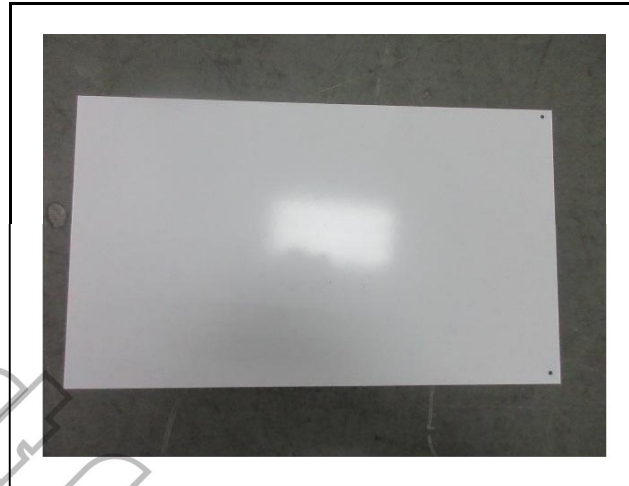
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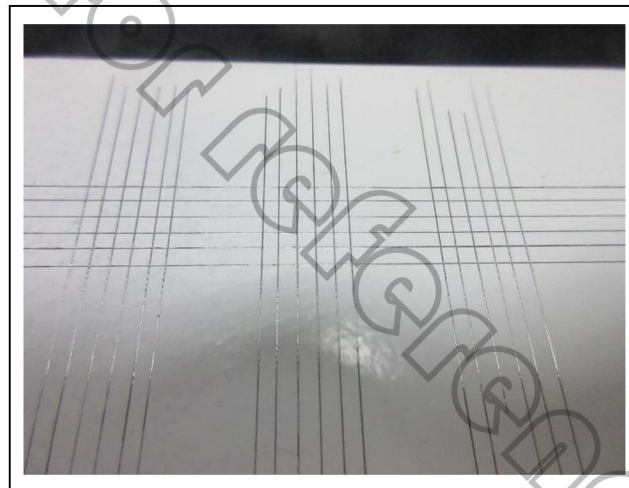
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Before Paint Adhesion Test



After Paint Adhesion Test



8.5 PAINT HARDNESS TEST:

Date Received: MAR 22, 2019

Dates Tested: MAR 25, 2019

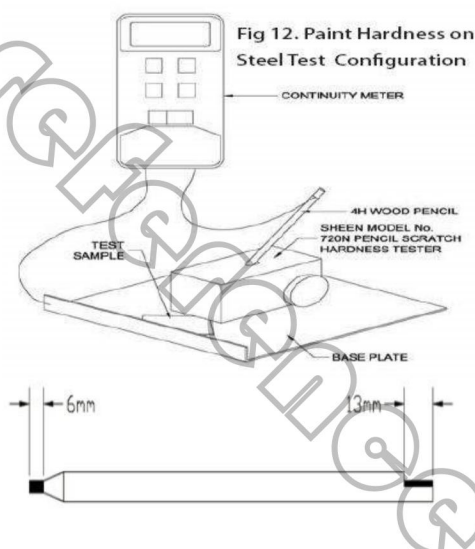
Description of Samples:

Part Description: Panel with white coating
Material Submitted: Painted Steel Panels
Material Specification: SEFA-8M-2016
Condition of Test Sample: Production

Test Procedure:

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

Procedure: 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).

Sheen model 720 N Pencil Scratch Hardness Tester. Connect a continuity meter to the base plate and to the top of the pencil, being sure to make good



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contact with the exposed portion of the lead. 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:

Mitsubishi®

Number of Specimens Tested:

One (1) Panel

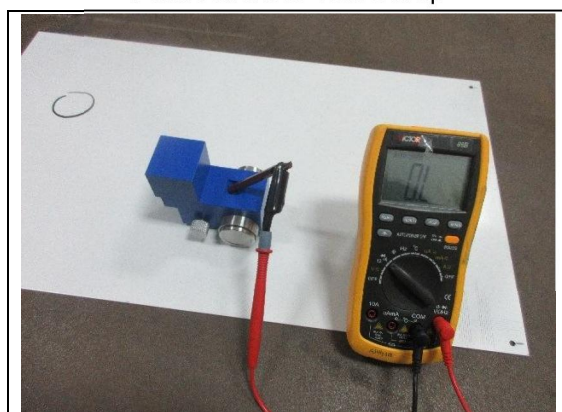
Acceptance Criteria:

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

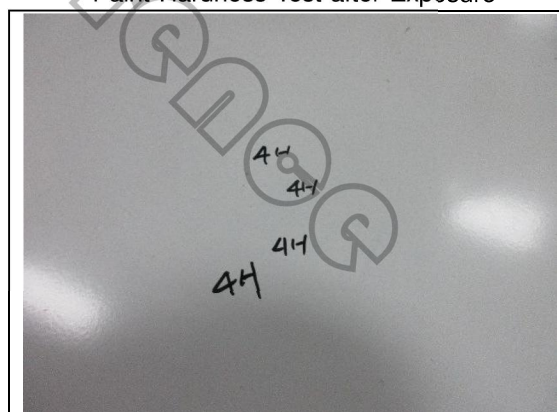
Results:

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

Paint Hardness Test Set-up



Paint Hardness Test after Exposure



*** End of report ***



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CERTIFICATE OF SEFA COMPLIANCE

SGS -CSTC Co., Ltd. Anji Branch certifies that it has performed testing as specified in **SEFA 8M-2016 Laboratory grade metal casework** on the laboratory grade furniture produced by GuangDong Tmoon Laboratory Equipment Manufacturing Co., Ltd. on this Apr 01, 2019 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 8M-2016 Laboratory grade metal casework

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	---	---
4.2	Cabinet load test	Pass	---
4.3	Cabinet concentrated load test	Pass	---
4.4	Cabinet torsion	Pass	---
5.0	Doors	---	---
5.1	Door hinge test	Pass	---
5.2	Door impact test	Pass	---
5.3	Door cycle test	Pass	---
6.0	Drawers	---	---
6.1	Drawer static test	Pass	---
6.2	Drawer and door pull test	Pass	---
6.3	Drawer impact test	Pass	---
6.4	Drawer internal rolling impact test	Pass	---
6.5	Drawer cycle test	Pass	# 2
7.0	Shelving	---	---
7.1	Description of test unit	---	---
7.2	Shelf load test	Pass	---
8.0	Cabinet surface finish test	---	---
8.1	Chemical spot test	Pass	# 3



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8.2	Hot water test	Pass	---
8.3	Impact test	Pass	---
8.4	Paint adhesion test	Pass	---
8.5	Paint hardness test	Pass	---
9.0	Wall, counter mounted, and tall units	---	---
9.1	Description of test cabinet	N/A	# 1
9.2	Wall cabinet load test	N/A	# 1
10	Tables	---	---
10.1	Description of test unit	N/A	# 1
10.2	Table static load	N/A	# 1
10.3	Table racking	N/A	# 1
Notes	: # 1- N/A means not applicable to this product design. # 2- As client's requirement, drawer cycle test was performed with Laboratory Load. # 3- The test was performed by SGS other internal laboratory.		



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