

Test Report

No.: SDHL2004003929FT

Date: Apr.21, 2020

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DOREL HOME FURNISHINGS EUROPE LTD
 BUILDING 4, IMPERIAL PLACE, MAXWELL ROAD, BOREHAMWOOD, HERTFORDSHIRE. WD6 1JN

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

Sample Description : CABRINI BOOKCASE - WHITE
 Ref. No/Item No. : ABC65043-WH
 Buyer : DOREL HOME FURNISHINGS EUROPE LTD
 Manufacturer : LONG SHENG OFFICE FURN CO LTD
 Supplier : LONG SHENG OFFICE FURN CO LTD
 Country of Origin : CHINA
 Country of Destination : UK
 Sample Receiving Date : Apr.07, 2020
 Test Performing Date : Apr.10, 2020 to Apr.21, 2020

Test Result Summary

Test(s) Requested	Result(s)
BS 4875-7:2006 (Level 3)	PASS

Summary:

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

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



Bill Wang
 Approved signatory

scan to see the report



SDHL2004003929FT



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TESTS AND RESULTS

Test Conducted:

BS 4875-7:2006 Strength and stability of furniture – Domestic and contract storage furniture-performance requirements.

General Test Condition:

The following test program was conducted in a laboratory environment maintained at 15°C to 25°C and 50%±5 RH. The sample was individually tested after conditioning in the test environment for at least 24 hours prior to conducting the test.

The complete detailed procedures may be found in the referenced specification and are only summarized herein. Unless otherwise specified, the tests are carried out in the following order on the same sample.

No. of Sample:

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

Test Level: Level 3. For the test level in relation to applications, please refer to Annex A in this report.

Test	Test Description and Requirements	Test Results
4	<p>Strength and Durability Requirements</p> <p>When after the item of furniture has been tested as below, at the selected test level, none of the following shall have occurred:</p> <ul style="list-style-type: none"> - any fracture of any member, joint or component, including castors; - any loosening, shown to be permanent by hand pressure applied to suitable members, of joints intended to be rigid; - any deformation or wear of any component that will affect its function; - any loosening of any means of fixing components to the article; - any changes that prevent movable parts opening or closing freely or that cause movable parts, other than drawers, to require application of a force in excess of 100 N for operation; - any deflection of shelves or tops greater than span/200 for particle board, span/150 for wood or span/100 for other materials; - any deflection of clothes rails greater than span/100; - any force required to move drawers in excess of 70 N and any force required to maintain movement in excess of 45 N. 	
5	<p>Test</p> <p>All the test methods are with reference to ISO 7170:2005.</p>	
ISO 7170:2005 6.2.2	<p>Static load test for tops and bottoms</p> <p>Apply a vertical downwards force of 750N for 10 times at any position likely to cause failure but not less than 50 mm from the edges.</p>	N/A
ISO 7170:2005 6.2.1	<p>Sustained load test for tops and bottoms</p> <p>Load the top or bottom uniformly with the load of 1.5 kg/dm² and apply for:</p> <ul style="list-style-type: none"> — one hour for tops and bottoms made of metal, glass and stone; — one week for all other tops and bottoms. <p>Measure and record the deflection under load as specified above.</p>	N/A



Test	Test Description and Requirements	Test Results
ISO 7170:2005 6.1.4	Strength of shelf supports Load the shelf uniformly with half the load specified for 6.1.3, except at 220 mm from one support, where the impact plate shall be tipped over 10 times over the support. All supports of the shelf shall be tested.	PASS
ISO 7170:2005 6.1.3	Deflection of shelves Load the shelf uniformly with the load of 1.5kg/dm ² and apply for: — one hour for shelves made of metal, glass and stone; — one week for all other shelves. Measure and record the deflection under load.	PASS
ISO 7170:2005 6.3.1	Strength of clothes rail supports Place the rail on its supports in the unit. Apply the load of 4.0kg/dm as close as possible to the weakest support.	N/A
ISO 7170:2005 6.3.2	Dislodgement of clothes rails Load the rail uniformly with the load of 4.0kg/dm and apply for: — one hour for metal rails; — one week for all other rails.	N/A
ISO 7170:2005 7.1.2.1	Vertical load on pivoted doors Load the door with the mass of 25kg. The mass shall be suspended from the edge furthest from the hinge. Open and close the door 10 full cycles (back and forth) from a position 45° from fully closed to a position 10° from fully opened, up to a maximum of 135° from the fully-closed position.	N/A
ISO 7170:2005 7.1.2.2	Horizontal load on pivoted doors Apply the horizontal static load of 60N perpendicular to the plane of the door on its horizontal centerline, 100mm from the edge furthest from the hinge. Carry out the test 10 times.	N/A
ISO 7170:2005 7.2.3	Durability of sliding doors and horizontal roll fronts Open and close the door/roll-front for the number of 40000cycles. The movement shall be 50 mm from the fully closed position, without forcing the stops, to a position approximately from the fully open position. The door shall be opened/closed gently at a rate of 6 to 15 cycles per minute. If the door/roll-front has a catch device at any position, operate this at each cycle.	N/A
ISO 7170:2005 7.1.3	Slam shut test of pivoted doors Determine the mass, m ₁ , required to just move the door. The test mass shall be m ₁ +m ₂ . m ₂ =3 kg. Slam shut the door 10 times using the masses (m ₁ +m ₂). The test mass shall act until before the door is fully closed. The mass shall fall through a distance of 300mm or the distance required closing the door through, whichever is the smaller.	N/A



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Test	Test Description and Requirements	Test Results
ISO 7170:2005 7.1.4	Durability of pivoted doors Attach two masses, 1kg each, and one on each side of the door at the middle of the vertical centerline. Fully open the door to a maximum of 130° and close it for the number of 40000cycles (back and forth) without forcing built-in stops in the open position. If the door has a catch device at any position. The door shall be gently opened and closed at each cycle using approximately 3s for opening and 3s for closing the door.	N/A
ISO 7170:2005 7.2.2	Slam shut/open of sliding doors and horizontal roll fronts Determine the mass, m1, required to just move the door. The test mass shall be m1+m2. m2=3 kg. Slam shut the door 10 times using the masses (m1+m2). The mass shall fall through a distance of 300mm from the closed/opened positions respectively. The test mass shall act until 10mm before the door/roll-front is fully closed/opened.	N/A
ISO 7170:2005 7.3.1	Strength of bottom-hinged flaps With the flap in its fully opened/extended position, load with the static force of 200N. Apply the force 10 times, 50mm from the weakest corner	N/A
ISO 7170:2005 7.3.2	Durability of flaps Open/close the flap for the number of 20000cycles. Use approximately 3s for opening respectively and 3s for closing the flap. If the flap has a catch device at any position, this shall be allowed to operate at each cycle. Self-locking stays shall be opened until just before they lock and then closed from that position.	N/A
ISO 7170:2005 7.3.3	Drop test for top-hinged flaps Lift the door/flap until it is horizontal and allow it to drop freely for the number of 150 cycles	N/A
ISO 7170:2005 7.4.2	Durability of vertical roll fronts By means of a force applied on the vertical centerline, open and close the roll-front fully and gently at a rate of 6 to 15 cycles per minute for the number of 10000cycles.	N/A
ISO 7170:2005 7.4.1	Slam shut/open of vertical roll fronts Allow the roll-front to fall freely in both directions from as near the point of equilibrium as possible for the number of 10 cycles. If the roll-front does not fall, the test shall be carried out according to the same principle as specified in 7.2.2 with the force applied on the vertical centerline.	N/A
ISO 7170:2005 7.5.2	Strength of extension elements Open the extension element to its open stops, or if there are no open stops, to the point at which one-third of the inside length (depth) of the extension element, or at least 100mm, remains inside the unit. Apply the vertical downwards static force of 250N on one top corner of the extension element front. Repeat 10 times.	N/A



Test	Test Description and Requirements	Test Results
ISO 7170:2005 7.5.3	Durability of extension Elements Load the extension element as specified. Without impacting the stops, or providing vertical support, open and close the extension element gently for the number of 40000cycles. Extension elements that do not have open stops shall be opened to a point at which one-third of the inside length (depth) of the extension element, or at least 100mm, remains inside the unit. If the extension element has a catch device at any position, this shall be allowed to operate at each cycle. The extension element shall be opened/closed gently at a rate of 6 to 15 cycles per minute.	N/A
ISO 7170:2005 7.5.4	Slam open/shut test of extension elements Place the extension element on its runners and load it as specified. Open the extension element 300mm, or fully open it if it can not be opened 300mm. Extension elements without stops in the open position shall be opened until remains inside the unit. Slam shut the extension element 10 times using the velocities specified.	N/A
ISO 7170:2005 7.5.5	Displacement of extension element bottoms Place the extension element on its runners or suspend it in a similar way, and load it. Apply a static force of 60N approximately 25mm above the bottom of the extension element, acting at the middle of the front and back of the extension. Apply the force 10 times.	N/A
ISO 7170:2005 7.5.6	Interlock test When interlocks are fitted, one extension element shall be fully extended and an outwards force of 200N shall be applied to the handles of each of the remaining extension elements one at a time. The test shall be carried out a total of 10 times on each extension element. Record if the extension elements remain closed.	N/A
ISO 7170:2005 7.6.2	Strength test for locking and latching mechanisms for extension elements Apply a force of 200N in the direction of travel of the extension element at a direction 90° to the front of the element and at 30° to that direction, upwards, downwards, to the left and to the right. Repeat the test 10 times for each extension element.	N/A
ISO 7170:2005 7.6.3	Strength test for locking and latching mechanisms for doors, flaps and roll fronts Apply a force of 200N in the direction of travel of the door/flap/roll-front and at 30° to that direction, upwards and downwards. Repeat the test 10 times for each door.	N/A
ISO 7170:2005 6.4.1	Test for structure and under frame Load all parts intended for storage. Close extension elements, flaps, roll-fronts and doors. Apply the static force of 300N 10 times at point A on the centre line of the side of the unit as high as possible but not higher than 1600mm from the floor. Repeat this procedure 10 times at points B, C and D, with the legs or base still restrained by stops.	N/A



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Test	Test Description and Requirements	Test Results
ISO 7170:2005 6.4.3	Test for units with castors or wheels Apply the force at the same point as in 6.4.1, on the centre line of the side of the unit as high as possible but not higher than 1600mm from the floor. Move the unit (600±20) mm back and forth at a rate of (10±2) cycles per minute for 500 cycles. One cycle consists of a forward and a backward stroke. Inspect the castors and the structure for damage, which could affect functioning, immediately after testing and after a recovery period of 24h.	N/A
ISO 7170:2005 8.1.3	Sustained load test Load all the storage areas with the specified load of 1.5kg/dm ² according to the following principle. If the number of shelves is not determined by the structure of the unit(s) or specified in a requirement document, divide the internal height of the unit(s), expressed in millimeters, by 200 and take the lower integer. This number shall then be the number of shelves to be used during testing. — Load on bottom: Specified load — Load on first shelf: Specified load×0,6 — Load on second shelf: Specified load×0,4 — Load on third and following shelves: Specified load×0,25 — Load on top surfaces: Specified load×0,2 If the volume of the unit, calculated by the inner width, depth and height, is greater than 0,225 m ³ , the total load shall be multiplied by the factor R. The unit shall be loaded for one week. Check whether the unit remains attached to the structure and carries the test load.	N/A
ISO 7170:2005 8.1.4	Dislodgement test Assemble the units according to the manufacturer's instructions. Apply to the unloaded unit the vertical upwards force of 200N at the least favorable point of the front edge.	N/A

Annex A: Test level in relation to applications

Test level	Performance category	Example of use	
1	Delicate	--	Cabinets of delicate appearance
2	Careful domestic	--	Domestic bedroom
3	General domestic	Careful contract	Domestic living/dining room or hotel bedroom
4	Severe domestic	General contract	Cabinets where rough treatment and careless handling occur e.g. college study, hotel reception
5	--	Severe contract	Cabinets intended for exceptionally severe use e.g. transport terminus, student common room and barrack room

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: 15.70 kg

Overall Dimensions: 315 mm D x 785 mm W x 1190 mm H

Other Dimensions: /

Sample as Received



End of Report

