

Test Report

No.: SDHL2004003937FT

Date: Apr.28, 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 : CLEVELAND 4 DESK - GREY
Ref. No/Item No. : AW23377-GY
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.27, 2020

Test Result Summary

Test(s) Requested	Result(s)
BS EN 12521:2015, excluding the horizontal durability test	PASS
Horizontal durability test (3,500 cycles)	PASS
BS 4875-7:2006 (Level 3)	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.



Bill Wang
Approved signatory



SDHL2004003937FT



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TESTS AND RESULTS

Part I. Test Conducted:

BS EN 12521:2015 Furniture – Strength, durability and safety – Requirements for domestic tables, excluding the horizontal durability test.

No. of Sample:

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

Table Type:

- ☐ Tables less than or equal to 600 mm in height, or Tables with tops with a surface area less than or equal to 0.25 m²;
☒ All other tables.

Test and Requirements	Test Results
5 Safety requirements	
5.1 General requirements The table shall be so designed as to minimize the risk of injury to the user. All parts of the table with which the user comes into contact during intended use shall be so designed that physical injury and damage are avoid. There requirements are met when 1) the edges of table tops which are directly in contact with the user shall be rounded or chamfered. All other edges accessible during use shall be free from burrs and/or sharp edges 2) the ends of hollow components are closed or capped. Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided. It shall not be possible for any load bearing part of the table to come loose unintentionally. All parts that are lubricated to assist sliding shall be designed to protect users from lubricant stains when in normal use.	PASS
5.2 Shear and squeeze points	
5.2.1 Shear and squeeze points when setting up and folding Unless 5.2.2 or 5.2.3 are applicable, shear and squeeze points, as defined in 3.3, that are created only during setting up and folding, including the installation of extensions to the main table surface are acceptable, because the user can be assumed to be in control of his/her movements and to be able to cease applying the force immediately upon experiencing pain. The edges of parts moving relative to each other and creating shear and squeeze points shall be as specified in 5.1.	N/A
5.2.2 Shear and squeeze points under the influence of powered mechanisms There shall be no shear and squeeze points created by parts of the table operated by powered mechanisms, i.e. springs, gas lifts and motorized systems.	N/A
5.2.3 Shear and squeeze points during use There shall be no shear and squeeze points created by forces applied during normal use. There shall be no shear and squeeze points if a hazard is created by the user during normal movements and actions, e.g. attempting to move the table.	PASS



Test and Requirements	Test Results
6 Stability, strength and durability (With reference to the test methods of EN 1730:2012) Tables shall be tested for stability, strength and durability according to and following the order as below. The table shall fulfill the following requirements after tested. 1) there are no fractures of any member, joint or component, 2) there is no loosening of joints intended to be rigid, 3) the table fulfils its functions after removal of the test loads, 4) the table shall not tip over.	
EN 1730, 6.2 Horizontal Static Load Test Apply a mass of 50 kg to an area of (300 ± 50) mm x (300 ± 50) mm, or a diameter of (300 ± 50) mm, to the approximate centre of the table top. Apply the horizontal force of ☐ 200 N / ☒ 400 N by means of the loading pad (Dia=100 mm) at the table top level in a direction perpendicular to a line joining the two legs/supports, midway between the legs/supports. One application of the force in each direction (total 4 directions) represents one cycle. Repeat the above operation for 10 cycles. <i>Note:</i> <i>If the table top is not secured to the understructure and the top moves when the specified force is applied, reduce the force sufficiently to just prevent movement. Record the force applied. The applied force shall not be reduced below the minimum specified force of ☐ 100 N / ☒ 200 N.</i> <i>If the unrestrained base lifts when the specified force is applied, reduce the force sufficiently to just prevent lifting. Record the force applied. The applied force shall not be reduced below the minimum specified force of ☐ 100 N / ☒ 200 N. If unrestrained base lifts at this force, the specified mass applied to the table top shall be increased gradually until this tendency ceases.</i>	PASS
EN 1730, 6.3 Vertical Static Load Tests Tables with extension pieces shall be tested both in the extended and unextended configurations. A table extension added in the centre of the table shall be tested as the main surface. A part of the main surface in the unextended configuration can become an ancillary surface in the extended configuration.	
EN 1730, 6.3.1 Vertical static load on main surface Apply the vertical force of F_v using the loading pads 100 mm in diameter on the top that is likely to cause a failure, but not less than 100 mm from any edge for 10 times. If the table tends to overturn gradually, move the loading point towards the centre of the table until this tendency ceases. (1) If height of main surface ≤ 600 mm, $F_v =$ ☐ 1000 N / ☒ -- N; (2) If height of main surface > 600 mm, $F_v =$ ☐ 250 N / ☒ 1000 N;	PASS
EN 1730, 6.3.2 Additional vertical static load test where the main surface has a length > 1 600 mm Apply two vertical downward forces F_v simultaneously using the loading pad (Dia=100 mm) at points positioned on the longitudinal axis of the table top, 400 mm on either side of the transversal axis for 10 times.	N/A
EN 1730, 6.3.3 Vertical static load on ancillary surface (Only for all other tables) Apply a vertical downward force of ☐ -- N / ☒ 200 N using the loading pad (Dia=100 mm) anywhere on the ancillary surface that is likely to cause a failure, but not less than 100 mm from any edge for 10 times. If the article tends to overturn, load the main table top gradually to prevent overturning. If there are several such positions repeat the test at a maximum of two different positions.	N/A



Test and Requirements	Test Results
EN 1730, 6.4 Horizontal Durability Test Place a mass of 50 kg on the geometric center of the table top. Apply two alternating horizontal forces of ☐ 150 N / ☒ 300 N using the loading pads 100 mm in diameter alternately at the top surface of the table for ☐ 5,000 / ☒ 10,000 cycles. One force is at one end of the table 50 mm from the corner and the other at the opposite end. Repeat above operation at the other corners. <i>Note:</i> <i>If the table top is not secured to the understructure and the top moves when the specified force is applied, reduce the force sufficiently to prevent movement. Perform the test using this reduced force in that direction only. Record the value of any reduced force used.</i> <i>If the table tends to lift in one direction of loading at a load less than that specified, reduce the horizontal force to the value determined at the beginning of the test process. Perform the test using this reduced force in that direction only. Record the value of any reduced force used.</i>	N/R
EN 1730, 6.5 Vertical Durability Test for cantilever or pedestal tables (Only for all other tables) Apply the vertical force of 300 N using the loading pads 100 mm in diameter on the top of the table at any position that is not less than 100mm from any edge. Repeat above operation for ☐ -- / ☒ 10,000 times. <i>Note:</i> <i>Tables with extensions inserted in the centre shall be tested in the extended configuration. All other tables shall be tested without extending ancillary surfaces.</i> <i>If the article tends to lift, load the centre of the main table top with a mass sufficient to prevent overturning.</i>	N/A
EN 1730, 6.6.1 & 6.6.3 Vertical Impact Test for tables without glass in their construction Place one layers of 25 mm thick polyether foam on the table top. The height of drop shall be measured from the position where the impactor is resting on the surface of that layer of foam. Place a second layer of 25 mm thick polyether foam between the striking surface and the table top. Allow the 25 kg impactor to fall freely from the height of ☐ 140 mm / ☒ 180 mm onto the table top at any position within 100 mm from the edge for 10 times.	PASS
EN 1730, 6.6.1 & 6.6.2 Vertical Impact Test for tables with glass in their construction – safety glass Place a piece of 100 mm thick polyether foam sheet between the striking surface and the table top. Allow the 25 kg impactor to fall freely from the height of ☐ 140 mm / ☒ 180 mm onto the table top at any within position 100 mm from the edge for 10 times. <i>Note:</i> <i>Glass is considered to be safety glass if the glass fulfils the requirements in EN 12150-1:2015, Clause 8, fragmentation test, or where the mode of breakage (β) according to EN 12600:2002, is Type B or Type C.</i> <i>Impact the table top in accordance with the positions defined within EN 1730:2012, 6.6.3.</i>	PASS



Test and Requirements	Test Results
EN 14072:2003, 6 Vertical Impact Test for tables with glass in their construction – other glass Place a piece of 100 mm thick polyether foam sheet between the striking surface and the table top. Allow the 25 kg impactor to fall freely from the height of ☐ 180 mm / ☒ 240 mm onto the table top at any position within 100 mm from the edge for 10 times. <i>Note: Impact the table top in accordance with the positions defined within EN 1730:2012, 6.6.3.</i>	N/A
EN 1730, 7.1 & 7.2 Stability under Vertical Load Apply the vertical force of $F=L/4$ (N) at the position 50 mm from the outer edge of the tabletop on the side where the load is most likely to cause overturning as far away from the support as possible. If the table (<i>only for all other table</i>) has an ancillary surface, $F'=L'/8$ (N) shall be applied at the specified positions of ancillary surface; When L or $L' \leq 800$ mm, F or $F'=V1$; When L or $L' > 1600$ mm, F or $F'=V2$; Main surface: Small table: $V1=200N$, $V2=400N$; Other table: $V1=200N$, $V2=400N$; Ancillary surface: Small table: Not applicable; Other table: $V1=100N$, $V2=200N$; L is the longest dimension of the table top in the overturning direction; L' is the longest dimension of the ancillary surface in the overturning direction; <i>Note:</i> Tables that are or can be set to a height greater than 950 mm shall not overturn when tested according to 7.2.2 using 50 % of the specified vertical load (V). <i>Tables with extension pieces shall be tested both in the extended and unextended configurations. A table extension added in the centre of the table shall be tested as the main surface. A part of the main surface in the unextended configuration can become an ancillary surface in the extended configuration.</i> <i>For tables that might not fulfil the stability requirements before carrying out any tests, the applicable stability tests shall be carried out before starting the sequence of tests specified in this table.</i>	PASS
5.3.2 Stability for tables with extension elements (Only for all other tables) Load each extension element with the load specified. For tables with extension elements not fitted with interlocks open all extension elements in the least favourable combination. For tables with extension elements fitted with interlocks open the two extension elements with the largest loads without overriding the interlock. If an interlock device prevents any two of the extension elements from being opened simultaneously, open the extension element with the largest load. The table shall not overturn when the vertical force of ☐ -- / ☒ 200 N is applied at the centre of the front of the table, 50 mm from the edge. <i>Note: For tables that might not fulfil the stability requirements before carrying out any tests, the applicable stability tests shall be carried out before starting the sequence of tests specified in this table.</i>	PASS
7 Information for use Information for use shall be available in the language of the country in which it will be delivered to the end user. It shall contain at least the following details: a) assembly instructions, where applicable, b) instructions for the care and maintenance of the table.	PASS



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Part II. Test Conducted:

Horizontal durability test with reference to BS EN 12521:2015 and applicant's requirement.

No. of Sample:

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

Table Type:

☒ All other tables.

Test and Requirements	Test Results
EN 1730, 6.4 Horizontal Durability Test Place a mass of 50 kg on the geometric center of the table top. Apply two alternating horizontal forces of 300 N using the loading pads 100 mm in diameter alternately at the top surface of the table for 3,500 cycles. One force is at one end of the table 50 mm from the corner and the other at the opposite end. Repeat above operation at the other corners. The table shall keep its function.	PASS



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Part III. 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	Strength and Durability Requirements When after the item of furniture has been tested as below, at the selected test level, none of the following shall have occurred: - 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	Test All the test methods are with reference to ISO 7170:2005.	
ISO 7170:2005 6.2.2	Static load test for tops and bottoms 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.	PASS
ISO 7170:2005 6.2.1	Sustained load test for tops and bottoms Load the top or bottom uniformly with the load of 1.5 kg/dm ² and apply for: — one hour for tops and bottoms made of metal, glass and stone; — one week for all other tops and bottoms. Measure and record the deflection under load as specified above.	PASS
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



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Test	Test Description and Requirements	Test Results
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
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



Test	Test Description and Requirements	Test Results
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.	PASS
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.	PASS



Test	Test Description and Requirements	Test Results
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.	PASS
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.	PASS
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.	PASS
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



Test	Test Description and Requirements	Test Results
ISO 7170:2005 8.1.3	Sustained load test Load all the storage areas with the specified load of 1.5kg/dm2 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 m3, 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: 45.15 kg

Overall Dimensions: 800 mm D x 1505 mm W x 750 mm H

Other Dimensions: /

Sample as Received



View 1



View 2



View 3



View 4

End of Report



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

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