



Test Report

No.: XMHL2405002696FT

Date: May 13, 2024

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MINHOU UNIMAX CO.,LTD
NO.123 TANSHAN INDUSTRIAL ZONE GANGTOU JINGXI TOWN MINHOU FUZHOU,350101,China

Sample Description : PAPER SEATING
Manufacturer : MINHOU UNIMAX CO.,LTD
Supplier : MINHOU UNIMAX CO.,LTD
Country of Origin : China

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

Sample Receiving Date : May 09, 2024
Test Performing Date : May 09, 2024 to May 13, 2024
Test Performed : Selected test(s) as requested by applicant
Test Result(s) : For further details, please refer to the following page(s)

Test Result Summary

Test(s) Requested	Result(s)
EN 14749:2016+A1:2022 (excluding clause 6)	PASS

Summary:

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

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Xiamen Branch

Terry Hong
Authorized Signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Xiamen Branch

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TESTS AND RESULTS

Test Conducted:

EN 14749:2016+A1:2022 Domestic and kitchen storage units and kitchen worktops — Safety 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
5.2 General safety requirements	
<p>5.2.1 General The following requirements apply to all units and components. Components with which the user can come into contact during normal use shall have no burrs and/or sharp edges, nor shall there be any open-ended tubes. All movable components accessible during normal use shall have safety distances in any position during movement of ≤ 8 mm or ≥ 25 mm. This applies to any components moving relatively to each other, with the exception of doors, flaps and extension elements including their hardware. The safety distances also apply to the distance between handles/handgrips and other components.</p>	PASS
<p>5.2.2 Units moving vertically In order to avoid pinching points for feet, the safety height for vertically moving units shall be at least 100 mm from the floor.</p>	NA
<p>5.2.3 Lids In order to prevent children's heads and necks from being entrapped by hinged lids of storage units horizontal lids that are 1 000 mm or less from the floor and weigh 0,25 kg or more, shall be provided with lid-support mechanisms to prevent sudden collapse or dropping of the lid. The lid-support mechanism shall support the lid so that at no position in the arc of travel of the lid from within 50 mm of the fully closed position through an arc not to exceed 60° from the fully closed position shall it drop more than 12 mm under the influence of its own mass, except in the last 50 mm of travel. The test shall be carried out in accordance with EN 71-1:2014, 8.31.2. In the case of adjustable mechanisms, product information shall be given for the correct adjustment.</p>	NA
<p>5.2.4 Vertically moving roll fronts and vertically moving sliding doors All roll fronts and doors sliding vertically including those constructed from hinged elements shall not move by themselves from any position higher than 200 mm measured from the closed position.</p>	NA
<p>5.2.5 Extension elements All extension elements whose total mass (according to 5.1.3) exceeds 10 kg but where safety tests are not required shall have effective open stops, i.e. they shall resist being pulled out of the unit once by a horizontal force of 200 N applied to the handle of the loaded extension element, or they shall be supplied with product information to this effect.</p>	NA



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Test and Requirements	Test Results
5.3 Structural safety requirements:	
<p>5.3.1 General The tests and requirements in 5.3.2 to 5.3.9 apply to any component only when:</p> <ul style="list-style-type: none"> — the height to the centre of gravity of the component is > 900 mm above the floor and the total mass (5.1.3) is ≥ 10 kg; or — the height to the centre of gravity of the component is > 350 mm and the total mass (5.1.3) is ≥ 35 kg. <p>Where specified in EN 16122, storage units and their components shall be loaded in accordance with Table 1. Unless otherwise specified, all storage components, which are not subject to testing, shall be uniformly loaded with the specified load(s). When the unit or component is conspicuously and durably marked by the manufacturer with a maximum load, the unit or component shall be loaded with the stated maximum load multiplied by 1.2. Details on testing and application of safety requirements can be found in Annex B (informative).</p>	
5.3.2 Shelves	
<p>5.3.2.1 Shelf retention – vertical downward Unloaded shelves shall not fall down when tested according to EN 16122:2012, 6.1.3 with a downwards vertical force of 100 N.</p>	NA
<p>5.3.2.2 Shelf retention – horizontal downward Unloaded shelves shall not fall down when tested according to EN 16122:2012, 6.1.2 with a force representing 50 % of the weight of the unloaded shelf.</p>	NA
5.3.3 Shelf supports	
<p>If the clear height is less than 200 mm the test is not carried out. This test shall be carried out according to EN 16122:2012, 6.1.5 with impact plate No. One on all horizontal surfaces e.g. shelves, tops and bottoms that can be used as storage area. The horizontal surface shall be loaded according to Table 1. In case of identical shelf supports and horizontal surfaces only one test shall be carried out. After the test, the horizontal surface and the shelf supports shall show no fracture or other damage that can affect the safety.</p>	
5.3.4 Storage area-volume for heavy appliances	
<p>This requirement is only applicable to units with shelves which are designed to carry heavy appliances, e.g. refrigerator, washing machine. In derogation to EN 16122:2012, 6.2.1 the test shall be carried out on all shelves, tops or bottoms which are intended to carry heavy appliances irrespective of the height above the floor. The test shall be carried out for one week according to EN 16122:2012, 6.2.1 with the load specified in Table 1. After the test the shelves, tops or bottoms and the shelf supports shall show no fracture or other damage that can affect the safety.</p>	
5.3.5 Pivoted doors	
5.3.5.1 Vertical load of pivoted doors	
<p>Carry out the test according to EN 16122:2012, 7.1.2, respecting EN 16122:2012, 7.1.1 with a load of 30 kg. After the test the door shall remain attached to the unit.</p>	NA



Test and Requirements	Test Results
<p>5.3.5.2 Horizontal load of pivoted doors Carry out the test according to EN 16122:2012, 7.1.3, respecting EN 16122:2012, 7.1.1 with a horizontal static load of 60 N. This test is not applicable for doors with an opening angle > 135°. After the test the door shall remain attached to the unit.</p>	NA
<p>5.3.6 sliding doors and horizontal roll fronts Carry out the test according to EN 16122:2012, 7.2.2, respecting EN 16122:2012, 7.2.1 with a mass m2 = 4 kg. After the test there shall be no fracture or other damage that can affect the safety.</p>	NA
<p>5.3.7 Extension elements</p>	
<p>5.3.7.1 Slam open of extension elements Carry out the slam open test according to EN 16122:2012, 7.5.4, respecting EN 16122:2012, 7.5.1 with a load according to Table 1. A factor K of 2,5 shall be applied (see EN 16122:2012, A.3.2). Throughout the test, the extension elements shall not fall out of the cabinet. If a pneumatic system is used the calibration values for 5 kg drawer shall be 1,3 m/s and for 35 kg drawer 1,0 m/s.</p>	NA
<p>5.3.7.2 Strength test of extension elements The extension element shall be loaded according to Table 1. Carry out the test according to EN 16122:2012, 7.5.2, respecting EN 16122:2012, 7.5.1 with a downward force of 200 N. After the test there shall be no fracture or other damage that can affect the safety. After the test the extension element shall remain attached to the unit.</p>	NA
<p>5.3.8 Bottom hinged flaps Carry out the test according to EN 16122:2012, 7.3.1 with a force of 200 N. The flap shall not be loaded according to Table 1. After the test, the flap and/or the unit shall show no fracture or other damage that can affect the safety.</p>	NA
<p>5.3.9 Top hinged flaps Carry out the test according to A.1. After the test there shall be no fracture or other damage that can affect the safety and the flap or components of it shall not become detached.</p>	NA
<p>5.3.10 Kitchen- worktops and other top surfaces</p>	
<p>5.3.10.1 General</p>	
<p>Tests and requirements are applicable to all kitchen-worktops and all other top-surfaces regardless of their mass and with a height ≤ 1 000 mm and with a depth of the top surface ≥ 250 mm.</p>	
<p>5.3.10.2 Static load test for kitchen- worktops The kitchen-worktop shall not be loaded. Carry out the test according to EN 16122:2012, 6.2.2 with a force of 1 000 N with the derogation that bottom surfaces shall not be tested. After the test the kitchen-worktop and/or the unit shall show no fracture or other damage that can affect the safety.</p>	NA



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Test and Requirements	Test Results
<p>5.3.10.3 Static load test for other top surfaces The top surface shall not be loaded. Carry out the test according to EN 16122:2012, 6.2.2 with a force of 750 N with the derogation that bottom surfaces shall not be tested. After the test the top surface and/or the unit shall show no fracture or other damage that can affect the safety.</p>	<p>PASS</p>
<p>5.3.11 Wall hanging units and top hanging units</p>	
<p>5.3.11.1 General The tests in 5.3.11 shall be carried out on all wall hanging units and top hanging units with a total mass ≥ 10 kg. All components shall be tested irrespective of their total mass. But the safety requirements specified in 5.3.1 to 5.3.10 do not apply to components with a total mass < 10 kg. The unit(s)/component(s) shall be mounted and adjusted according to the manufacturer's installation instructions. If mounting or assembly instructions are not supplied, adjustable wall attachment devices shall be adjusted to the maximum depth (as far from the wall as possible) and to the mid of the height adjustment range. The unit shall then be levelled by means of distance devices placed as low and as far apart as possible.</p>	
<p>5.3.11.2 Movable components, shelf supports and top surfaces Load according to Table 1. As soon as possible after the loading, carry out the following tests regardless of mass and height of centre of gravity of components:</p> <ul style="list-style-type: none"> — 5.3.3: Shelf supports; — 5.3.5: Pivoted doors; — 5.3.6: Sliding doors and horizontal roll fronts; — 5.3.7: Extension elements; — 5.3.8: Bottom hinged flaps; — 5.3.9: Top hinged flaps; — 5.3.10.2: Kitchen work tops ≤ 1000mm from the floor with the derogation that the test shall be carried out at one point most likely to cause failure; — 5.3.10.3: Top surfaces $\leq 1\ 000$ mm from the floor with the derogation that the test shall be carried out at one point most likely to cause failure - this test is applicable for top surfaces with a depth > 250 mm. <p>These tests shall be carried out on those components most likely to cause failure to the wall attachment. After the test the unit shall remain attached to the building (wall/ceiling) and shall carry the test load. It is acceptable that for each test components with a total mass less than 10 kg can become detached.</p>	<p>NA</p>



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Test and Requirements	Test Results
<p>5.3.11.3 Overload After carrying out the tests in 5.3.11.2, increase the load on all the storage areas according to the principle in EN 16122:2012, 10.1.3. The specified load is 250 kg/m². Additionally to that load:</p> <ul style="list-style-type: none"> — water basins/sinks shall be completely filled with water or an equivalent mass; — extension elements shall be loaded with their load according to Table 1 adding 20 % or the manufacturer's instructions adding 20 %. <p>All doors and extension elements shall be open during the test. If the number of shelves is not determined by the structure of the unit, divide the internal height of the unit in millimetres by 200 and take the lower integer. This number minus 1 shall then be the number of shelves to be used during testing. If the volume of the unit, calculated by the inner width, depth and height, is > 0,225 m³, the loads shall be multiplied by the factor $R: R = 1.2/(0.75+2V)$ where V is the volume of the unit in m³. When reduction of the load is necessary, it shall be removed from the bottom. The unit shall be loaded for one week. After the test the unit shall remain attached to the building (wall/ceiling) and shall carry the test load.</p>	<p>NA</p>
<p>5.3.11.4 Sideways detachment test The unit shall not be loaded. Carry out the test according to A.3 with a horizontal force of 100 N or for a maximum distance of 100 mm. During and after the test the unit shall not become detached.</p>	<p>NA</p>
<p>5.3.11.5 Vertical dislodgement test The unit shall not be loaded. Carry out the test according to EN 16122:2012, 10.1.4 with a vertical upwards force of 100 N. During and after the test the unit shall not become detached.</p>	<p>NA</p>
<p>5.4 Stability</p>	
<p>5.4.1 General The following requirements apply to free standing storage units with a height to the top of the unit ≥ 600 mm above the floor level and when the potential energy (3.15) exceeds 60 Nm. Moreover, for TV-furniture additional requirements are given in 5.4.3. Free standing units which fall under the principles in 5.1 shall be tested for stability according to Table 3, following the order listed in Table 3. The stability requirements are fulfilled when, during testing in accordance with Table 3, the storage unit does not overturn. If during testing the overturning movement is prevented by the opening of an extension element, door or flap the component shall be prevented from opening and the test repeated. Where specified, the unit shall be loaded in accordance with the loads specified in Table 2. When the unit or component is conspicuously and durably marked by the manufacturer with a maximum load, the unit or component shall be loaded with the stated maximum load multiplied by 0.5, but the load shall not exceed the value calculated using Table 2.</p>	



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Test and Requirements	Test Results
<p>5.4.1.1 Doors, extension elements and flaps closed, all storage areas unloaded - Units that are, or can be, adjusted to a height of 1000 mm or less Apply the vertical force of 750 N by means of the loading pad of 100mm in diameter on the top surface acting 50 mm from the outer edge of the unit at any point likely to cause overturning. Record if the unit overturns or is supported by an open extension element, opened door or opened flap.</p>	<p>NA</p>
<p>5.4.1.2 Doors, extension elements and flaps closed, all storage areas unloaded - Units that are, or can be, adjusted to a height of more than 1000 mm Apply the vertical force of 350 N together with the outward horizontal force resulting in an outward moment of 50 Nm on the top surface acting 50 mm from the outer edge of the unit at any point likely to cause overturning. Record if the unit overturns or is supported by an open extension element, opened door or opened flap.</p>	<p>NA</p>
<p>5.4.1.3 All storage areas unloaded and all doors, extension elements and flaps open All doors shall be opened to 90° and all extension elements shall be fully opened, except where there are no open stops, in which case they shall be opened to two thirds of the internal length. All flaps shall be fully opened. Interlock mechanisms shall not be overridden. Record if the unit overturns or is supported by an open extension element, opened door or opened flap.</p>	<p>NA</p>
<p>5.4.1.4 All storage areas unloaded, with overturning load Doors shall be opened to 90° and extension elements shall be fully opened, except where there are no open stops, in which case they shall be opened to two thirds of the internal length. Flaps shall be fully opened. Extension elements and flaps shall be opened across the full width of the unit. Only one extension element in each vertical line of extension elements shall be opened so as to produce the configuration most likely to cause overturning. Apply the vertical force of 75N to any point likely to cause overturning, on the centreline of the front of an extension element or 50 mm from the outer edge of a door or flap. Record if the unit overturns or is supported by an open extension element, opened door or opened flap.</p>	<p>NA</p>



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Test and Requirements	Test Results
<p>5.4.1.5 All storage areas loaded, with overturning load All storage areas shall be loaded with the loads specified in Table 2. Doors shall be opened to 90° and extension elements shall be fully opened, except where there are no open stops, in which case they shall be opened to two thirds of the internal length. Flaps shall be fully opened. Extension elements and flaps shall be opened across the full width of the unit. Only one extension element in each vertical line of extension elements shall be opened so as to produce the configuration most likely to cause overturning. Unless conspicuously and durably marked by the manufacturer with a maximum load, the total mass of the unit shall be the weight of the unloaded item plus the load in the unit when loaded with the specified loads. Apply a vertical force of 20 % of the total mass of the units loaded according to Table 2, but not greater than 300 N, to any point most likely to cause overturning, on the centerline of the front of an extension element or 50 mm from the outer edge of a door or a flap. Record if the unit overturns or is supported by an open extension element, opened door or opened flap.</p>	<p>NA</p>
<p>5.4.1.6 Doors, extension elements and flaps closed and locked All storage areas shall be loaded with the loads specified in Table 2. When two or more doors can be locked, the test shall be carried out on one closed door with the other door opened at 90°. If doors and flaps provide access to other extension elements or flaps, these shall be opened when carrying out the test. Apply the horizontal outwards force of 100N in turn to all locked doors, extension elements and flaps. The force shall be applied to the centre of the handhold, handle, knob etc. in the direction of opening. Record if the unit overturns or is supported by an open extension element, opened door or opened flap.</p>	<p>NA</p>
<p>5.4.2 Kitchen floor units with kitchen-worktops In addition to the tests in 5.4.1 carry out the test according to EN 16122:2012, 11.2 with a horizontal outwards overturning moment of 200 Nm. During testing, all doors, flaps and extension elements shall be closed.</p>	<p>NA</p>
<p>5.4.3 Additional stability requirements for TV-furniture</p>	
<p>5.4.3.1 General</p>	
<p>5.4.3.1.1 General requirements</p>	
<p>TV-furniture shall be tested regardless of the height and the weight of the unit. The requirements for TV-furniture specified in 5.4.3.2 and 5.4.3.3 are additional to the requirements in 5.4.1. All wall hanging TV-furniture shall be considered to have a height of the TV support surface > 600 mm above the floor.</p>	



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Test Report

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Test and Requirements	Test Results
<p>5.4.3.1.2 TV-furniture with a height of the TV support surface ≤ 600 mm above the floor Units with a height of the TV support surface ≤ 600 mm above the floor shall fulfil the requirements in 5.4.3.2 and 5.4.3.3 without any wall attachment device fitted, regardless whether the unit is supplied with a wall attachment device or not.</p>	NA
<p>5.4.3.1.3 TV-furniture with a height of the TV support surface > 600 mm above the floor Units with a height of the TV support surface > 600 mm above the floor, and supplied with a bracket, shall fulfil the requirements in 5.4.3.2, 5.4.3.3 and 5.5 with the bracket fitted. Units with a height of the TV support surface > 600 mm above the floor, and supplied with a wall attachment device other than a bracket, shall fulfil the requirements in 5.4.3.2, and 5.4.3.3 without any wall attachment device fitted, regardless of whether the unit is supplied with a wall attachment device or not.</p>	NA
<p>5.4.3.2 Stability requirements for TV-furniture, one door and/or extension element opened – storage areas loaded When tested according to A.2.2.2 and Table 6, the TV-furniture shall not overturn. When testing, the furniture shall not be supported by an open extension element, opened door or flap unless it is designed to prevent tipping, e.g. with a castor.</p>	NA
<p>5.4.3.3 Stability requirements for TV-furniture, doors and extension elements closed – storage areas unloaded When tested according to A.2.2.3 and Table 6, the TV-furniture shall not overturn. When testing, the furniture shall not be supported by an open extension element, opened door or flap unless it is designed to prevent tipping, e.g. with a castor.</p>	NA
<p>5.5 Floor standing units intended to be attached to the building The requirements only apply to storage units where the height to the top of the unit is 600 mm or more above the floor level, and when the potential energy (3.15) exceeds 60 Nm. Carry out the test according to EN 16122:2012, 10.2 with a horizontal outwards force of 200 N. The force shall be maintained for not less than 10 s and not more than 15 s. After the test, the unit shall remain attached to the structure.</p>	NA



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Test and Requirements	Test Results
<p>5.6 Vertical glass components Any external, vertical glass component $\geq 0,1$ m² in area, where the smallest dimension is ≥ 200 mm and any component of which is < 900 mm above the floor, shall not break when tested according to EN 14072:2003, or shall break as specified in EN 14072:2003, Clause 7, c) 2) or c) 3). This test shall not be carried out 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 is Type B or Type C. This test shall not be carried out for vertical glass components which are fully supported by a carrier material (e.g. particle board). Load storage areas according to Table 1. The test shall be carried out according to EN 14072:2003 with a drop height of 70 mm. The impact point shall be on the most adverse corner 100 mm from each visible edge of the glass. The glass shall be impacted once</p>	<p>NA</p>
<p>6 Product information The product information shall be supplied in the language of the country where the furniture is sold and shall contain at least the following, if applicable. a) any unit intended to be attached to the building shall be supplied with installation instructions. b) installation shall be carried out exactly according to the manufacturer's instructions – otherwise a safety risk can occur if incorrectly installed; a warning shall be given to the consumer of related risks: EXAMPLE 1 For floor standing units intended to be attached to the building: WARNING In order to prevent overturning this product must be used with the wall attachment device provided. EXAMPLE 2 For wall hanging units: WARNING In order to prevent falling down this product must be used with the wall attachment device provided. EXAMPLE 3 For wall hanging units and top hanging units: WARNING Assess the suitability of the wall/ceiling to ensure that the fastening devices will withstand the forces generated. c) where there are no open stops for the extension element information shall be provided about the potential risk of extension element can be pulled out of the unit. d) for TV-furniture the maximum size and weight of the TV set, which the TV-furniture is designed to support. For self-assembly furniture the following additional information is required: e) list of parts supplied; f) list of tools required; g) diagram of the bolts and other fastenings required."</p>	<p>NT</p>

Remark:

1. NA – Not applicable; NT – Not tested as per client's requirement.
2. For the sample information and pictures, please refer to the following page.



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SAMPLE INFORMATION AND PICTURES

Weight: 3.52kg

Overall Dimensions: 300mm L x 300mm W x 455mm H

Other Dimensions: /

Sample as Received

Pic. 1



Pic. 2



Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

End of Report



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