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	TEST	METHOD	RESULT
-	<b>Furniture — Domestic and kitchen storage units and kitchen-worktops — Safety requirements and test methods</b>	<b>EN 14749:2016</b>	<b>PASS</b>

NOTE: This test result replaces the conformity assessment, can be presented to official institutions, and used in products and brochures.



Seal

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PR33-F01/08.10.2015/Rev:17.01.2017-R01

## EN 14749: Furniture — Domestic and kitchen storage units and kitchen-worktops — Safety requirements and test methods

### Scope

This European Standard specifies safety requirements and test methods for all types of kitchen and, bathroom storage units and domestic storage furniture and their components.

### Safety Requirements

Clause	Requirements	Result												
<b>5.1</b>	<b>Principle of Safety Requirements</b>													
<b>5.1.1</b>	<p><b>General</b></p> <p>The safety requirements are based upon the knowledge that kitchen units, bathroom units and domestic storage furniture and their components are likely to cause serious injury only when they are heavy and fall through a significant distance. This is possible if floor standing units overturn, wall or screen hanging units become detached, or heavy components become detached from units.</p>	<b>PASS</b>												
<b>5.1.2</b>	<p><b>Determination of centre of gravity</b></p> <p>The centre of gravity above the floor (for floor standing units) shall be measured when installed according to the manufacturer's instructions.</p> <p>Levelling devices shall be set at their middle position.</p> <p>Height adjustable components shall be placed in their highest position.</p> <p>The centre of gravity of a component or unit shall be taken as the geometric centre of that unit, except in the case of extension elements, where the geometric centre of the usable volume shall be used.</p> <p>All wall hanging units or top hanging units or components thereof are considered to have their centre of gravity more than 900 mm above the floor.</p>	<b>PASS</b>												
<b>5.1.3</b>	<p><b>Determination of total mass</b></p> <p>The total mass is the mass of the component or unit plus the mass determined according to Table 1.</p> <p style="text-align: center;"><b>Table 1: Loads</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Component</th> <th style="width: 30%;">Load</th> </tr> </thead> <tbody> <tr> <td>All horizontal storage areas, including shelves, bottoms, tops and bottom hinged flaps</td> <td style="text-align: center;">0.65 kg/dm<sup>2</sup></td> </tr> <tr> <td>Extension elements and fixed baskets</td> <td style="text-align: center;">0.2 kg/dm<sup>3</sup></td> </tr> <tr> <td>Clothes rails</td> <td style="text-align: center;">4.0 kg/dm</td> </tr> <tr> <td>Suspended filing pockets</td> <td style="text-align: center;">2.5 kg/dm</td> </tr> <tr> <td>Storage area/-volume for heavy appliances (e.g. refrigerator, washing machine)</td> <td style="text-align: center;">0.5 kg/dm<sup>3</sup></td> </tr> </tbody> </table>	Component	Load	All horizontal storage areas, including shelves, bottoms, tops and bottom hinged flaps	0.65 kg/dm <sup>2</sup>	Extension elements and fixed baskets	0.2 kg/dm <sup>3</sup>	Clothes rails	4.0 kg/dm	Suspended filing pockets	2.5 kg/dm	Storage area/-volume for heavy appliances (e.g. refrigerator, washing machine)	0.5 kg/dm <sup>3</sup>	<b>PASS</b>
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<b>5.2</b>	<b>General Safety Requirements</b>													



5.2.1	<p><b>General</b></p> <p>The following requirements apply to all units and components.</p> <p>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.</p> <p>All movable components accessible during normal use shall have safety distances in any position during movement of <math>\leq 8</math> mm or <math>\geq 25</math> 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
5.2.2	<p><b>Units moving vertically</b></p> <p>In order to avoid pinching points for feet, the safety height for units moving vertically shall be at least 100 mm from the floor.</p>	PASS
5.2.3	<p><b>Lids</b></p> <p>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.</p> <p>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.</p>	N.A
5.2.4	<p><b>Vertically moving roll fronts and vertically moving sliding doors</b></p> <p>All roll fronts and doors sliding vertically including those constructed from hinged components shall not move by themselves from any position higher than 200 mm measured from the closed position.</p>	N.A
5.2.5	<p><b>Extension elements</b></p> <p>All extension elements whose total mass 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 (according to Table 1), or they shall be supplied with product information to this effect.</p>	N.A
5.3	<b>Structural Safety Requirements</b>	
5.3.1	<p><b>General</b></p> <p>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"> <li>— the height to the centre of gravity of the component is <math>&gt; 900</math> mm above the floor and the total mass (5.1.3) is <math>\geq 10</math> kg;</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>— the height to the centre of gravity of the component is <math>&gt; 350</math> mm and the total mass (5.1.3) is <math>\geq 35</math> kg.</li> </ul> <p>Where specified in EN 16122, storage units and their components shall be loaded in accordance with Table 1.</p>	-

	<p>Unless otherwise specified, all storage components, which are not subject to testing, shall be uniformly loaded with the specified load(s).</p> <p>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.</p> <p>Details on testing and application of safety requirements can be found in Annex B (informative).</p>	
<b>5.3.2</b>	<b>Shelves</b>	
<b>5.3.2.1</b>	<p><b>Shelf retention – vertical downward</b></p> <p>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> <p><b><u>According to EN 16122, 6.1.3;</u></b></p> <p>Shelf retention test – vertical downward force</p> <p>By means of the 50 mm diameter loading pad, apply the vertical downwards force specified to a point 25 mm in from the front edge of the shelf at the position most likely to cause failure.</p>	<b>PASS</b>
<b>5.3.2.2</b>	<p><b>Shelf retention – horizontal outward</b></p> <p>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> <p><b><u>According to EN 16122, 6.1.2;</u></b></p> <p>Shelf retention test – horizontal outward force</p> <p>Apply the horizontal, outwards force specified to the middle of the front edge of the shelf.</p>	<b>PASS</b>
<b>5.3.3</b>	<p><b>Shelf supports</b></p> <p>If the clear height is less than 200 mm the test is not carried out.</p> <p>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.</p> <p>In case of identical shelf supports and horizontal surfaces only one test shall be carried out.</p> <p>After the test, the horizontal surface and the shelf supports shall show no fracture or other damage that can affect the safety.</p> <p><b><u>According to EN 16122, 6.1.5;</u></b></p> <p>Strength of shelf supports</p> <p>Load the shelf uniformly with half the load specified for the deflection of shelf test, except at 220 mm from one support, where the impact plate shall be tipped over ten times over the support.</p> <p>The striking surface of the impact plate shall be that faced with rubber. All supports of the shelf shall be tested.</p>	<b>PASS</b>

<b>5.3.4</b>	<b>Storage area/-volume for heavy appliances</b> This requirement is only applicable to units with shelves which are designed to carry heavy appliances, e.g. refrigerator, washing machine.	<b>N.A</b>
<b>5.3.5</b>	<b>Pivoted Doors</b>	
<b>5.3.5.1</b>	<b>Vertical load of pivoted doors</b> 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.	<b>N.A</b>
<b>5.3.5.2</b>	<b>Horizontal load on pivoted doors</b> 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.	<b>N.A</b>
<b>5.3.6</b>	<b>Sliding doors and horizontal roll fronts</b> Carry out the test according to EN 16122:2012, 7.2.2, respecting EN 16122:2012, 7.2.1 with a mass $m_2 = 4$ kg. After the test there shall be no fracture or other damage that can affect the safety.	<b>N.A</b>
<b>5.3.7</b>	<b>Extension Elements</b>	
<b>5.3.7.1</b>	<b>Slam open of extension elements</b> 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.	<b>N.A</b>
<b>5.3.7.2</b>	<b>Strength test of extension elements</b> 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.	<b>N.A</b>
<b>5.3.8</b>	<b>Bottom hinged flaps</b> 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.	<b>N.A</b>
<b>5.3.9</b>	<b>Top hinged flaps</b> Carry out the test according to A.1.	<b>N.A</b>



	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.	
<b>5.3.10</b>	<b>Kitchen-worktops and other top surfaces</b>	
<b>5.3.10.1</b>	<b>General</b> Tests and requirements are applicable to all kitchen-worktops and all other top-surfaces regardless of their mass and with a height $\leq 1\ 000$ mm and with a depth of the top surface $\geq 250$ mm.	-
<b>5.3.10.2</b>	<b>Static load test for kitchen-worktops</b> 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.	N.A
<b>5.3.10.3</b>	<b>Static load test for other top surfaces</b> 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.	N.A
<b>5.3.11</b>	<b>Wall hanging units and top hanging units</b>	
<b>5.3.11.1</b>	<b>General</b> The tests in 5.3.11 shall be carried out on all wall hanging units and top hanging units with a total mass $\geq 10$ 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.	N.A
<b>5.3.11.2</b>	<b>Movable components, shelf supports and top surfaces</b> 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: <ul style="list-style-type: none"> <li>— 5.3.3: Shelf supports;</li> <li>— 5.3.5: Pivoted doors;</li> <li>— 5.3.6: Sliding doors and horizontal roll fronts;</li> <li>— 5.3.7: Extension elements;</li> </ul>	N.A

	<p>— 5.3.8: Bottom hinged flaps;</p> <p>— 5.3.9: Top hinged flaps;</p> <p>— 5.3.10.2: Kitchen work tops <math>\leq 1\ 000</math> mm from the floor with the derogation that the test shall be carried out at one point most likely to cause failure;</p> <p>— 5.3.10.3: Top surfaces <math>\leq 1\ 000</math> 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 <math>&gt; 250</math> mm.</p> <p>These tests shall be carried out on those components most likely to cause failure to the wall attachment.</p> <p>After the test the unit shall remain attached to the building (wall/ceiling) and shall carry the test load.</p> <p>It is acceptable that for each test components with a total mass less than 10 kg can become detached.</p>	
<b>5.3.11.3</b>	<p><b>Overload</b></p> <p>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.</p> <p>The specified load is 250 kg/m<sup>2</sup>.</p> <p>Additionally to that load:</p> <ul style="list-style-type: none"> <li>— water basins/sinks shall be completely filled with water or an equivalent mass;</li> <li>— extension elements shall be loaded with their load according to Table 1 adding 20 % or the manufacturer's instructions adding 20 %.</li> </ul> <p>All doors and extension elements shall be open during the test.</p> <p>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.</p>	<b>N.A</b>
<b>5.3.11.4</b>	<p><b>Sidewards detachment test</b></p> <p>The unit shall not be loaded.</p> <p>Carry out the test according to A.3 with a horizontal force of 100 N or for a maximum distance of 100 mm.</p> <p>During and after the test the unit shall not become detached.</p>	<b>N.A</b>
<b>5.3.11.5</b>	<p><b>Vertical dislodgement test</b></p> <p>The unit shall not be loaded.</p> <p>Carry out the test according to EN 16122:2012, 10.1.4 with a vertical upwards force of 100 N.</p> <p>During and after the test the unit shall not become detached.</p>	<b>N.A</b>
<b>5.4</b>	<b>Stability</b>	

**5.4.1****General**

The following requirements apply to free standing storage units with a height to the top of the unit  $\geq 600$  mm above the floor level and when the potential energy exceeds 60 Nm.

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.

**Table2: Loads for stability testing**

Component	Load
All horizontal storage areas, including shelves, bottoms, tops and flaps	0,325 kg/dm <sup>2</sup>
Extension elements and baskets with internal height, H, $\leq 1$ dm	0.2 kg/dm <sup>3</sup>
Extension elements and baskets with internal height, H, between 1 dm and 2,5 dm	(0.2667-0.0667H) kg/dm <sup>3</sup>
Extension elements and baskets with internal height, H, $\geq 2,5$ dm clear height	0.1 kg/dm <sup>3</sup>
Hanging rails	2 kg/dm
Suspended filing pockets	1.25 kg/dm

**Table 3: Stability Requirements**

Test	Loading	Test Parameter
Doors, extension elements and flaps closed, all storage units unloaded – Units that are, or can be, adjusted to a height of 1 000 mm or less	Vertical Force, N	750
Doors, extension elements and flaps closed, all storage units unloaded – Units that are, or can be, adjusted to a height of more than 1 000 mm	Vertical Force, N	350 50
All storage areas unloaded and all doors, extension elements and flaps open	-	-
All storage areas unloaded, with overturning load	Vertical Force, N	75

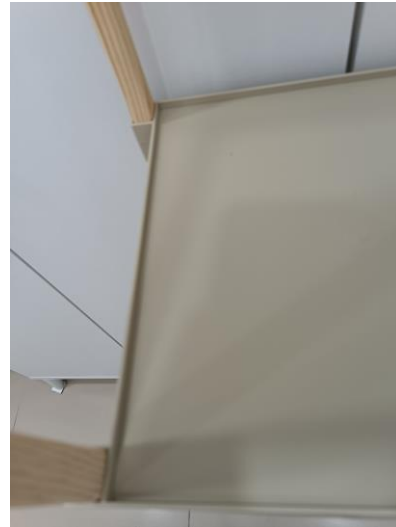


	All storage areas loaded, with overturning load	Vertical Force, N	but not greater than 300 N	
	Doors, extension elements and flaps closed and locked	Horizontal Force, N	100	
<b>5.4.2</b>	<b>Kitchen floor units with kitchen-worktops</b> In addition to the tests in 5.4.1 carry out the test according to 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.			<b>N.A</b>
<b>5.4.3</b>	<b>Stability of TV-furniture</b>			
<b>5.4.3.1</b>	<b>General</b> 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.			-
<b>5.4.3.2</b>	<b>One door, extension element or flap opened – storage areas unloaded</b> In addition to the tests in 5.4.1 carry out the test according to A.2.1 with a force of 150 N.			<b>N.A</b>
<b>5.4.3.3</b>	<b>Doors, extension elements and flaps closed – storage areas unloaded</b> Carry out the test according to A.2.2 with a mass of 27 kg. Place stops in front of the feet or castors of the unit and apply an outwards overturning moment of 60 Nm in the direction most likely to cause it to overturn.			<b>N.A</b>
<b>5.5</b>	<b>Floor standing units intended to be attached to the building</b> 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.			<b>N.A</b>
<b>5.6</b>	<b>Vertical glass components</b> Any external, vertical glass component $\geq 0,1$ m <sup>2</sup> in area, where the smallest dimension is $\geq 200$ 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 ( $\beta$ ) 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.			<b>N.A</b>



	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.	
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N.A: Not Applicable

**Sample Images****\*\*\*End of Report\*\*\***