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## TEST REPORT No. BBC 21-001

14 01 2021

Vilnius

Determination of stability, strength, durability for  
*File rack for tambour cabinet 1200x470x1200H mm*

Customer	DROMEAS SA
Address of customer	Industrial Area of Serres, 62121 Serres, Greece
Application for test	No. A 21-001-1, date 05 01 2021
Date of receive test object	05 01 2021
Manufacturer name	DROMEAS SA
Indication of normative document	EN 14073-2:2004, EN 14073-3:2004, EN 14074:2004, applicable tests for file rack
Additional test under client's request	EN 16121:2013+A1:2017 clause 6.1.15, EN 16122:2012 with corrigendum EN 16122:2012/AC:2015
Date of test	06 01 2021 (beginning) 13 01 2021 (end)

### Conclusion

*File rack for tambour cabinet 1200x470x1200H mm* **complies** with EN 14073-2:2004 "Office furniture - Storage furniture - Part 2: Safety requirements" requirements.

### Test object

*File rack for tambour cabinet 1200x470x1200H mm* placed in the cabinet with horizontal roll fronts and shelf. Top wall is made of 19 mm thickness finished plywood. Side and rear walls, shelves are made of 1,5 mm thickness sheet metal. Roll fronts and their sliding mechanisms are made of plastic. There are four helical supports for height adjustment fixed at the bottom of storage. File rack is fully extendable, runners are telescopic, "Thomas Regout", 350 mm in length with ball bearings. Runners consists of 3 parts, fully extendable, height 57 mm, stops are covered with rubber, with pull-in lock. Frame of file rack is made of 1,5 mm sheet metal. Runners to the side components which are made of 2 mm bent metal sheet, are fixed with three M6 bolts, file rack to the runners is placed on four hooks and fixed with two (M4x10) mm bolts. Side components to the tambour cabinet side walls are placed on for hooks and additionally fixed with metal screws. Dimensions of file rack is 960 mm, depth 355 mm, height 80 mm. External dimensions of storage are: length 1205 mm, depth 470 mm, height 1195 mm. External dimensions of file rack: length 960 mm, depth 355 mm, height 80 mm. Dimensions are for general information only.





Figure 1. File rack for tambour cabinet 1200x470x1200H mm

### Normative documents and test methods

EN 14073-2:2004 Office furniture - Storage furniture - Part 2: Safety requirements.

EN 14073-3:2004 Office furniture - Storage furniture - Part 3-Test methods for the determination of stability and strength of the structure.

EN 14074:2004 Office furniture – Tables and desks and storage furniture - Test methods for the determination of strength and durability of moving parts.

EN 16121:2013+A1:2017 Non-domestic storage furniture - Requirements for safety, strength, durability and stability.

EN 16122:2012 with corrigendum EN 16122:2012/AC:2015 Domestic and non-domestic storage furniture



Unless otherwise stated, the following tolerances are applicable to the test equipment:

- forces: + 5 % of the nominal force;
- velocities: ± 5 % of the nominal velocity;
- masses: + 1 % of the nominal mass;
- dimensions: + 1 mm of the nominal dimension;
- angles: ± 2° of the nominal angle.

The accuracy for the positioning of loading pads shall be ±5 mm.

File rack for tambour cabinet 1200x470x1200H mm was stored in the laboratory room before the tests were performing. The tests were carried out in normal indoor ambient conditions at the temperature of (20±5)°C.

### Test apparatuses

Apparatus 241MP certificate No. 22, apparatus 259P certificate No. 23.

**Table 1.** File rack for tambour cabinet 1200x470x1200H mm test results according to EN 14073-2:2004 requirements

Standard	Test and method, loads	Requirements	Test results	Pass/Fail , N/A, N/T*
<b>EN 14073-2:2004 General safety requirements</b>		<b>EN 14073-2:2004</b>		
3.4	Accessible edges and corners	shall be free from burrs and rounded or chamfered, there shall be no open ended tubes, 3.4	no remarks	pass
	All movable parts accessible during normal use	shall have safety distances in any position during movement of ≤ 8 mm or ≥25 mm, 3.4	no remarks	pass
	Adjustable parts	shall be such as to prevent inadvertent operation or release, 3.4	no remarks	pass
	Vertically sliding roll fronts	shall not close by themselves from any position higher than 200 mm measured from the closed position, 3.4		N/A
	Extension elements - horizontal force of 200 N	shall have effective open stops, shall resist being pulled out of the carcass, 3.4	no remarks	pass
<b>EN 14074:2004 Strength and durability of moving parts</b>		<b>EN 14073-2:2004</b>		
<b>6.2</b>	<b>Extension elements</b> File rack, length – 955 mm, depth 230 mm	Height of the centre of gravity 430 mm, total mass – 41,4 kg, safety tests are applicable		
6.2.1	Strength of extension elements - vertical force of 250 N, - load of 38,2 (4 kg/dm); - total mass 41,4 kg; - 10 times	shall be no fracture, other damage or change of function that affects safety, 3.5.2	no remarks	pass





**Table 1. (end)**

Standard	Test and method, loads	Requirements	Test results	Pass/Fail, N/A, N/T*
6.2.2	Durability of extension elements - load of 38,2 kg; - 50 000 cycles	shall be no fracture, other damage or change of function that affects safety, the extension element shall not fall out of the unit, 3.5.2	no remarks	pass
6.2.3	Slam open of extension elements - weight and string system - load in extensions element 38,2 kg - mass of the hanging weight 8,6 kg - 10 times		no remarks	pass
Remarks, comments				

\*N/A: not applicable for this product design, N/T: not tested

**Table 2. File rack for tambour cabinet 1200x470x1200H mm test results according to EN 16121:2013+A1:2017 requirements, Additional test according to Client's request**

Clause, Standard	Test and method, loads	Requirements	Test results	Pass/Fail N/A or N/T*
<b>6 Strength and durability, EN 16121:2013+A1:2017, table 5, Test severity 1</b>		<b>EN 16121:2013+A1:2017</b>		
6.1.15 (EN 16122:2012, 6.1.4)	Deflection of file rack in the closed position Length of file rack, 955 mm Mass per unit area, 4 kg/dm Load on file rack 38,2 kg	there shall be no deflection of shelves that exceeds 0,5 % of the span of the shelf,( 6.1.15), 6.2	no remarks deflection < 0,1 % of the span of the shelf	pass
Remarks, comments Test performed additionally under Client's request				

\* N/A: not applicable for this product design, N/T: not tested

Head of furniture testing center

Manvydas Mickus

Tests were carried by the engineer

Laimonas Staškūnas



The test results is relate only to the tested items.

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