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TEST REPORT No. BBC 20-234

11 09 2020

Vilnius

Determination of stability, strength, durability for
Metallic pedestal 1/2/3/3 80cm

Customer	DROMEAS SA
Address of customer	Industrial Area of Serres, 62121 Serres, Greece
Application for test	No. A 20-111-4, date 27 08 2020
Date of receive test object	27 08 2020
Manufacturer name	DROMEAS SA
Indication of normative document	EN 14073-2:2004, EN 14073-3:2004, EN 14074:2004,
Date of test	31 08 2020 (beginning) 11 09 2020 (end)

Conclusion

Metallic pedestal 1/2/3/3 80cm **complies** EN 14073-2:2004 "Office furniture - Storage furniture - Part 2: Safety requirements" requirements.

Test object

Metallic pedestal 1/2/3/3 80cm with four drawers, lock and interlock function. Top wall of storage and front walls drawers are made of 19 mm thickness plywood. Frame of storage is made of 1,5 mm thickness sheet metal. Top drawer is made of plastic, other drawers and rails are made of metal. Castors of H type, ø 40 mm made of plastic.

External dimensions of storage are: width 445 mm, depth 470 mm, height 580 mm.





Figure 1. Metallic pedestal 1/2/3/3 80cm

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.



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.

Metallic pedestal 1/2/3/3 80cm 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 115 P certificate No. 8, apparatus 645 MB certificate No 1, apparatus I 205M certificate No. 2.

Table 1. *Metallic pedestal 1/2/3/3 80cm* test results

Standard	Test and method, loads	Requirements	Test results	Pass/Fail or N/A*
EN 14073-2:2004 General safety requirements		EN 14073-2:2004		
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		N/A
	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
EN 14073-3:2004 Stability and strength		EN 14073-2:2004		
5.2	Strength of unit - horizontal force of 350 N, 10 times two stage cycle A,B followed by C,D	shall be no fracture, other damage or change of function that affects safety, shall not slide under the applied force, 3.5.2		N/A
5.3	Shelves			
5.3.1	Pull out of shelves, Force – 50 % of unloaded shelf weight, shelf weight	shall be no fracture, other damage or change of function that affects safety, the shelf shall remain in the unit, 3.5.2		N/A
5.3.2	Strength of shelf supports - impact plate of 2,5 kg; - 10 times			N/A
5.4	Strength of top surfaces (H ≤ 1000) mm - vertical force of 1000 N; - 10 times	shall be no fracture, other damage or change of function that affects safety, 3.5.2	no remarks	pass



Table 1. (continued)

Standard	Test and method, loads	Requirements	Test results	Pass/Fail or N/A*
5.5	Stability of free standing units			
5.5.1	Stability of the unloaded unit - all doors, extension elements and flaps open - vertical force of 50 N	shall be no fracture, other damage or change of function that affects safety, the unit shall not overturn, 3.5.2	no overturns	pass
5.5.2	Stability of the loaded unit - all doors, extension elements and flaps open - vertical force of 50 N		no overturns	pass
5.6	Screen and wall hanging units			
5.6.2	Dislodgment of screen and wall hanging cabinets and shelves - upwards force of 100 N	the unit shall remain attached as mounted and shall support the test load, 3.6.2		N/A
5.6.4	Strength of screen and wall attachment devices - total load - loading time one week	the unit shall remain attached as mounted and shall support the test load, 3.6.2		N/A
5.7	Floor standing unit attached to the building - horizontal outwards force of 200 N	shall be no fracture, other damage or change of function that affects safety, the unit shall remain attached to the building, 3.5.2		N/A
EN 14074:2004 Strength and durability of moving parts		EN 14073-2:2004		
6.2	Extension elements (310x330x40) mm	Height of the centre of gravity - 525 mm, total mass 3,2 kg. Safety tests are not applicable ¹		
6.2	Extension elements (325x710x120) mm	Height of the centre of gravity - 430 mm, total mass 17,5 kg. Safety tests are applicable		
6.2.1	Strength of extension elements - vertical force of max 250 N, - total mass 17,5 kg	shall be no fracture, other damage or change of function that affects safety, 3.5.2	tested with 175 N, no remarks	pass
6.2.2	Durability of extension elements - load 13,8 kg - 50 000 cycles		no remarks	pass
6.2.3	Slam open of extension elements - weight and string system - load in extensions element 13,8 kg - mass of the hanging weight 6,5 kg - 10 times	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	Extension elements (325x710x150) mm	Height of the centre of gravity - 290 mm, total mass 21,2 kg. Safety tests are not applicable ¹		
6.2.1	Strength of extension elements - vertical force of max 250 N, - total mass	shall be no fracture, other damage or change of function that affects safety, 3.5.2		N/A
6.2.2	Durability of extension elements - load 13,8 kg - 50 000 cycles		no remarks	pass
6.2.3	Slam open of extension elements - weight and string system - load in extensions element - mass of the hanging weight - 10 times	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		N/A
6.2.4	Interlock test - horizontal force of 200 N - 10 times	shall be no fracture, other damage or change of function that affects safety, the extension element shall remain closed, 3.5.2	no remarks	pass



Table 1. (end)

Standard	Test and method, loads	Requirements	Test results	Pass/Fail or N/A*
6.3	Hinged or pivoted doors			
6.3.1	Vertical load on doors - load of 30 kg; - 10 times	shall be no fracture, other damage or change of function that affects safety, the door shall remain attached to the unit, 3.5.2		N/A
6.3.2	Horizontal static force on open door - horizontal force of 80 N - 10 times	shall be no fracture, other damage or change of function that affects safety, 3.5.2		N/A
6.3.3	Durability test on hinged and pivoted door - load of 2 kg; - 50 000 cycles			N/A
6.4	Sliding doors and horizontal roll fronts			
6.4.1	Durability test of sliding doors and horizontal roll fronts - roll fronts: 20 000 cycles	shall be no fracture, other damage or change of function that affects safety, 3.5.2		N/A
6.4.2	Slam shut/open of sliding doors and horizontal roll fronts - mass required to move door - 10 times			N/A
EN 14074:2004 Strength and durability of moving parts		EN 14073-2:2004		
6.5	Vertical roll fronts			
6.5.1	Durability of vertical roll fronts - 20 000 cycles	shall be no fracture, other damage or change of function that affects safety, 3.5.2		N/A
6.6	Flaps			
6.6.1	Strength of flaps - downward static force of 250 N; - 10 times	shall be no fracture, other damage or change of function that affects safety, 3.5.2		N/A
6.6.2	Durability of flaps - 20 000 cycles			N/A
6.7	Rolling test for mobile filing pedestals			
	- 2 000 cycles - load in drawers of 50,4 kg		no remarks	pass
Remarks, comments				
¹ – safety tests are not applicable because component does not fall under 3.1 Principles of Safety Requirements of EN 14073-2:2004.				

*N/A: not applicable for this product design

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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