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Certificate No. LA.01.060

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TEST REPORT No. BBC 20-237

07 09 2020
Vilnius

Determination of strength, durability and safety for
Office work table Alma K2000X900X650-850H mm

Customer	DROMEAS SA
Address of customer	Industrial Area of Serres, 62121 Serres, Greece
Application for certification	No. BSC 20-12, date 18 08 2020
Date of test object selection	No. AA BSC 20-12, date 20 08 2020
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 527-1:2011, EN 527-2:2016+A1:2019, EN 1730:2012
Date of test	28 08 2020 (beginning) 04 09 2020 (end)

Conclusion

Office work table Alma K2000X900X650-850H mm **complies** with the standard EN 527-1:2011 Office furniture – Work tables and desks – Part 1: Dimensions of **Type B**, and **complies** with the standard EN 527-2:2016+A1:2019 Office furniture – Work tables and desks – Part 2: Safety, strenght and durability requirements.

Test object

Office work table Alma K2000X900X650-850H mm with height selectable function, with table top sliding forward and backwards. Table top is made of 18 mm thickness finished particle board. Vertical part of legs is made of (90x50) mm and (80x40) mm steel tubes. Bottom part of legs is made of 70 mm length and 65 mm width metal and there are helical adjustment supports fixed at the bottom. Lengthwise connectors of legs are made of (40x20) mm steel tubes. Height of table is adjusted with lifts fixed in vertical part of legs. External dimensions of table are: length 2000 mm, width 900 mm, minimum height is 650 mm, maximum height – 850 mm.





Figure 1. Office work table Alma K2000X900X650-850H mm

Normative documents and test methods

EN 527-1:2011 Office furniture – Work tables and desks – Part 1:Dimensions;

EN 527-2:2016+A1:2019 Office furniture – Work tables and desks – Part 2: Safety, strenght and durability requirements;

EN 1730:2012 Domestic furniture – Tables –Tests methods for determination of strength, durability and stability.

Unless otherwise stated, the following tolerances are applicable:

- forces ± 5 % of the nominal force;
- masses ± 1 % of the nominal mass;
- dimensions ± 1 mm of the nominal dimension;
- velocities ± 5 % of the nominal velocity;
- angles $\pm 2^\circ$ of the nominal angle.

The accuracy for the positioning of loading pads ± 5 mm



Office work table Alma K2000X900X650-850H 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 241 MP certificate No 22, apparatus 194 MP certificate No 27.

Table 1. Office work table Alma K2000X900X650-850H mm test results

Clause, Standard	Test and method	Requirements	Test results	Pass/Fail or N/A*
Dimensions, Table 1, EN 527-1:2011		EN 527-1:2011, table 1		
4	Type B , fully selectable, intended for sitting only			
	Height of the work surface h_1 , mm - sitting only	minimum range 650-850	650-850 (850 mm reached by adjusting levellers)	pass
	- standing only Maximum increment of 20 mm	minimum range 950-1250	increment of 10 mm	N/A pass
	Maximum desk top thickness - at the front t_1 , mm - at 500 mm from the front edge t_2 , mm	55 90	18 63	pass pass
	Minimum height of knee clearance for standing position only k_1 , mm	700		N/A
	Minimum depth of knee clearance for standing position only k_2 , mm	80		N/A
	Minimum depth of foot clearance for standing position only k_3 , mm	150		N/A
	Minimum height of minimum foot clearance - seating only and sit/stand (from 600 mm to 800 mm from the front edge) f_1 , mm	120	>120	pass
	- standing only (from front edge to 150 mm, f_2 , mm)	120		N/A
	Minimum legroom depth - sitting only and sit/stand, g_1 mm	800	900	pass
	Minimum desk top depth, D mm	800	900	pass
	Minimum legroom width, W mm - sitting only and sit/stand - standing only	1000 790	1810	pass N/A
4 Safety requirements, EN 527-2:2016+A1:2019		EN 527-2:2016+A1:2019, 4		
4.1	All parts of the table with which the user comes into contact during intended use These requirements are fulfilled when:	shall be designed so that physical injury and damage are avoided.		
	a) all accessible edges and corners	are free from burrs and rounded or chamfered, 4.1	no remarks	pass
	b) the edges and corners of the top surfaces	are chamfered not less than 1 mm by 1 mm or rounded with a radius of not less than 2 mm, 4.1	no remarks	pass



Table 1. (continued)

Clause, Standard	Test and method	Requirements	Test results	Pass/Fail or N/A*
	c) the ends of feet and tubular components	are closed or capped, 4.1	no remarks	pass
	Movable and adjustable parts	shall be designed so that injuries and inadvertent operation are avoided.	no remarks	pass
	Any load bearing part of the table to come loose unintentionally	shall not be possible, 4.1	no remarks	pass
	All parts which are lubricated to assist sliding	shall be designed to protect users from lubricant stains when in normal use, 4.1		N/A
4.2 Shear and squeeze points, EN 527-2:2016+A1:2019		EN 527-2:2016+A1:2019, 4.2		
4.2.1	Shear and squeeze points when setting up and folding The edges of parts moving relative to each other and creating shear and squeeze points	Unless 4.2.2 or 4.2.3 are applicable, shear and squeeze points that are created only during setting up and folding 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, 4.2.1 shall be as specified in 4.1, 4.2.1	no remarks	pass
4.2.2	Shear and squeeze points under influence of powered mechanisms	There shall be no shear and squeeze points which close to less than 25 mm unless they are always less than 7 mm created by parts of the table operated by powered mechanisms, i.e. springs, gas lifts and motorized systems, 4.2.2	no remarks	pass
4.2.3	Shear and squeeze points during use	There shall be no shear and squeeze points which close to less than 25 mm unless they are always less than 7 mm created by forces applied during normal use or created by the user during normal movements and actions, e.g. attempting to move the table, 4.2.3	no remarks	pass



Table 1. (continued)

Clause, Standard	Test and method	Requirements	Test results	Pass/Fail or N/A*
5 Strength and durability, table 1, EN 527-2:2016+A1:2019		EN 527-2:2016+A1:2019, 5.2		
8, EN 1730:2012	1. Durability of height adjustment mechanisms - mass on the table top of 50 kg; Location of the centre of the loading point and loading on the table top: - A: 20 kg at 200 mm from the front and side edges. The remaining load shall be at the geometric centre of the table top, 1250 cycles; - B: 50 kg or the maximum load specified shall be at the geometric centre of the table top, 2500 cycles; - C: 20 kg positioned at a rear corner 200 mm from the rear edge and the side edge. The remaining load shall be at the geometric centre of the table top, 1250 cycles.	The strength and durability requirements are fulfilled when after testing in accordance with Table 1: a) there are no fractures of any member, joint or component; b) there are no loosening of joints intended to be rigid; c) the work table fulfils its functions after removal of the test loads; d) when tested according to Table 1, test number 5, the stiffness of the structure, both D1 and D2 divided by the height to the top of the table top shall be ≤ 17 mm/m, 5.2		N/A
6.2, EN 1730:2012	2.1. Horizontal static load test - load on the table top of 50 kg; - specified force of 450 N; - minimum specified force of 300 N; - directions $F_1 - F_2$ and $F_3 - F_4$; - 10 cycles		no remarks	pass
6.2, EN 1730:2012	2.2. Additional horizontal static load test for adjustable tables with a height more than 950 mm - load on the table top of 50 kg; - moment of 285 Nm; - directions $F_1 - F_2$ and $F_3 - F_4$; - 10 cycles			N/A
6.3.1, EN 1730:2012	3.1 Vertical static load tests - force of 1 000 N; - 10 cycles		no remarks	pass
6.3.1, EN 1730:2012	3.2 Additional vertical static load test for adjustable tables with a height more than 950 mm - force of 500 N; - 10 cycles			N/A
6.4.1, 6.4.2 EN 1730:2012	4. Horizontal durability test - load on the table top of 50 kg; - force of 300 N; - directions $F_a - F_b$ and $F_c - F_d$; - 10 000 cycles		no remarks	pass
6.4.1, 6.4.3 EN 1730:2012	5. Stiffness of the structure - load on the table top of 20 kg; - force of 200 N		no remarks	pass



Table 1. (end)

Clause, Standard	Test and method	Requirements	Test results	Pass/Fail or N/A*
6.5, EN 1730:2012	6. Vertical durability test - force of 400 N; - 10 000 cycles	The strength and durability requirements are fulfilled when after testing in accordance with Table 1: a) there are no fractures of any member, joint or component; b) there are no loosening of joints intended to be rigid; c) the work table fulfils its functions after removal of the test loads; d) when tested according to Table 1, test number 5, the stiffness of the structure, both D1 and D2 divided by the height to the top of the table top shall be ≤ 17 mm/m, 5.2	no remarks	pass
6.8, EN 1730:2012	7. Durability of tables with castors - load on the table top of 50 kg; - 2 000 cycles			N/A
6.6, EN 1730:2012	8. Vertical impact test - drop height of 140 mm; - 10 cycles		no remarks	pass
6.9, EN 1730:2012	9. Drop test - nominal drop height of 100 mm - force required to lift one end of the table of 230 N		no remarks	pass
4.3 Stability requirements, table 1, EN 527-2:2016+A1:2019		EN 527-2:2016+A1:2019, 4.3		
7.2, EN 1730:2012	10. Stability under vertical load - force of 750 N	The table shall not overturn when tested according to tests 10 and 11 of Table 1, 4.3	no remarks	pass
7.3, EN 1730:2012	11. Stability for work tables extension elements - load in drawers - force of 400 N			N/A
Remarks, comments				

*N/A: not applicable

Head of furniture testing centre

Manvydas Mickus

Tests were carried by engineer

Laimonas Staškūnas



The test results is relate only to the tested items.

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