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Testing of work tables and desks according to EN 527-1, -2 (4 appendices)

Customer:	Abstracta AB
Test object/ID:	Work table/dB-acoustic booth
Test method:	EN 527-1:2011 Office furniture - Work tables and desks – Dimensions EN 527-2:2016 Office furniture - Work tables - Safety, strength and durability requirements
Scope:	Complete test
Date of test:	2020-01-23 – 2020-03-06
Test result:	The tested object passed the test Dimensionally according EN 527-1: Type D Sit/stand Information for use has not been assessed
Reservation:	The test results in this report apply solely to the specimen tested
Test environment:	23 ± 2°C and 50 ± 5% relative humidity

RISE Research Institutes of Sweden AB Building Technology - Wood Technological Assessment

Performed by

Examined by

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Appendices

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Appendix 1

Dimensions according to EN 527-1:2011

Abbreviations: N/A = Not applicable
 N/T = Not tested

Table 1

1.	EN 527-1	Dimensions for Type D-table Sit/stand	Requirements (mm)	Measured dimensions (mm)	Results
1.1	h_1	Height of the work surface Sit/stand	680 - 1180	660 - 1200	Pass
1.2	t_1	Maximum desk top thickness (front)	≤ 70	22	Pass
1.3	t_2	Maximum desk top thickness (500 mm from the edge)	≤ 100	89	Pass
1.4	k_1	Minimum height of knee clearance for standing position only (applies only to tables with a height more than 850 mm)	≥ 700	>700	Pass
1.5	k_2	Minimum depth of knee clearance for standing position only	≥ 80	>80	Pass
1.6	k_3	Minimum depth of foot clearance for standing position only	≥ 150	>150	Pass
1.7	f_1	Minimum height of minimum foot clearance: From 600 to 800 mm from the front edge	≥ 120	>120	Pass
1.8	f_2	Minimum height of minimum foot clearance: From front edge to 150 mm (standing only)	≥ 120	>120	Pass
1.9	g_1	Minimum legroom depth	≥ 800	800	Pass
1.10	D	Minimum desk top depth	≥ 800	800	Pass
1.11	W	Minimum legroom width - Sitting only and sit/stand	≥ 850	1490	Pass

Appendix 2

Strength and durability according to EN 527-2:2016

Abbreviations: N/A = Not applicable
N/T = Not tested

Note. In some case, the standard allows different loading than the nominal to prevent the test object from overturning, these loads are reported in ***bold italic***

Table 2

2.	Strength, durability	EN 1730:2012	Cycles	Loading nominal	Results
2.1	Durability of electrically operated height adjustment mechanisms	8.2	5000	50 kg ^c	Pass
2.2	Horizontal static load test ^a - Longitudinal direction - Transverse direction	6.2	10 10	450 N 450 N	Pass Pass
2.3	Additional horizontal static load test for adjustable tables with a height more than 950 mm ^b - Longitudinal direction - Transverse direction	6.2	10 10	237 N 237 N	Pass Pass
2.4	Vertical static load tests ^a	6.3.1	10	1000 N	Pass
2.5	Additional vertical static load test for adjustable tables with a height more than 950 mm ^b	6.3.1	10	500 N	Pass
2.6	Horizontal durability test ^a - Longitudinal direction - Transverse direction	6.4.2	10000	300 N 300 N	Pass Pass
2.7	Stiffness of the structure ^a - Longitudinal direction, max 17mm/m - Transverse direction, max 17 mm/m	6.4.3	1	200 N 200 N	Pass 14 mm/m 4 mm/m
2.8	Vertical durability test ^a	6.5	10000	400 N	Pass
2.9	Durability of tables with castors	6.8	2000	Load on table top 50 kg	N/A
2.10	Vertical impact test ^a	6.6	10	Drop height 140 mm	Pass
2.11	Drop test ^a Drop height calculated according to table 1 in EN 1730:2012	6.9	6/3	Drop height 30 mm	Pass
2.12	Stability under vertical load	7.2		750 N	Pass
2.13	Stability for work tables with extension elements	7.3		400 N	N/A
^a Height adjustable tables shall be adjusted to maximum 950 mm ^b Height adjustable tables shall be adjusted to maximum height ^c Nominal load according to the manufacturer's instruction but not less than 50 kg					

Appendix 2

Table 3

3.	General safety requirements / Shear and squeeze points	EN 527-2	Results
3.1	<p>The table shall be designed so as to minimize the risk of injury to the user</p> <p>All parts of the table with which the user comes into contact during intended use, shall be designed so that physical injury and damage are avoided</p> <p>These requirements are fulfilled when:</p> <ul style="list-style-type: none"> a) All accessible edges and corners are free from burrs and rounded or chamfered b) 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 c) Ends of feet and tubular components are closed or capped <p>Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided</p> <p>It shall not be possible for any load bearing part of the table to come loose unintentionally</p> <p>All parts which are lubricated to assist sliding shall be designed to protect users from lubricant stains when in normal use</p> <p>The edges of parts moving relative to each other and creating shear and squeeze points shall be as specified in 4.1</p> <p>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</p> <p>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</p>	4.1- 4.2	Pass

Table 4

4.	Information for use	EN 527-2	Results
4.1	<ul style="list-style-type: none"> a) Information regarding intended use b) Instruction for operating the adjusting mechanisms c) Instruction for the care and maintenance of the table 	6.	Not Assessed

Appendix 3

Description of test object

Test object/ID: Work table/dB-acoustic booth

Dimensions

Width: 168 cm
Depth: 86 cm
Height: 66 – 120 cm
Mass: 83 kg

Components

Frame/legs: L-shaped aluminium 4 mm/28 mm metal tube
Table top: Laminated MDF 22 mm
Functions: Adjustable in height
Actuator: OKIN

Sampling: The test object was selected by the customer
Date of arrival at RISE test laboratory: 2019-12-12
Observed defects before testing: No defects

Appendix 4

Pictures

Figure 1



Figure 2

Appendix 4

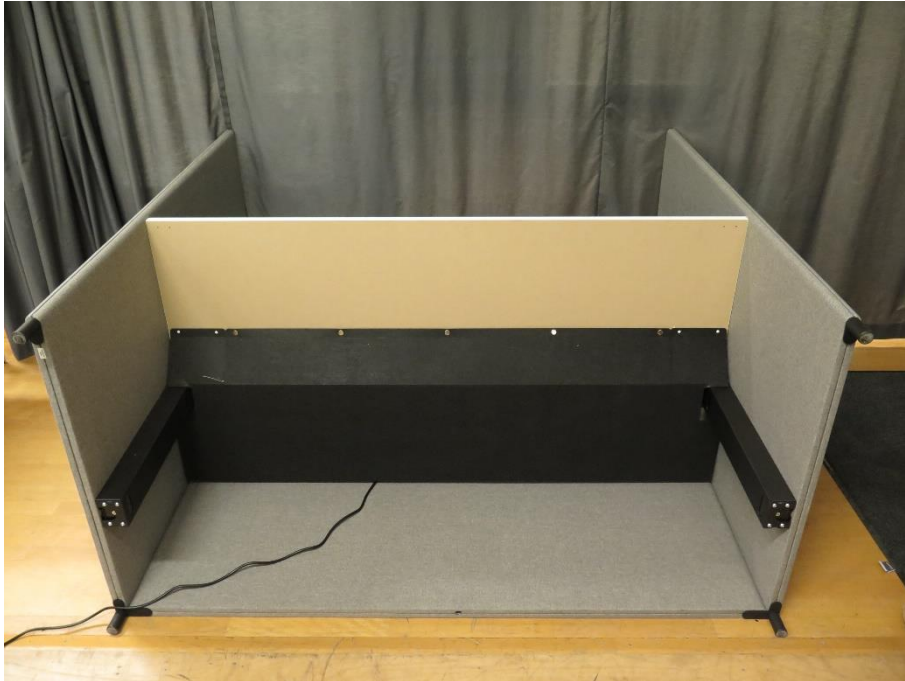


Figure 3



Figure 4

Appendix 4



Figure 5



Figure 6