Test Report issued under the responsibility of:

TEST REPORT

EN 527-1:2011
office furniture — Electric office lift table and desks part 1: Dimensions
EN 527-2:2016+A1:2019
office furniture — Electric office lift table part 2: safety, strength and durability requirements
EN 527-3:2003
office furniture — Electric office lift table and decks part 3: methods of test for the determination of the stability and the mechanical strength of the structure

Report reference No..... :	ZTL-2023091103S
Date of issue ..... :	Sept. 19, 2023
Total number of pages..... :	22
Testing Laboratory name..... :	Shenzhen ZTL Testing Technology Co., Ltd.
Address..... :	No. 302, 3rd Floor, Qiaotou Chuangke Center, No.168 Yongfu Road, Fuhai Street, Baoan District, Shenzhen, China
Applicant's name ..... :	Jiangsu Nandi Intelligent Technology Co., Ltd
Address..... :	No. 166 HouQiao, ZhaiQiao Village, QianHuang Town, WuJin District, ChangZhou, Jiangsu, China

Test specification

Standard..... :	EN 527-1:2011 EN 527-2:2016+A1:2019 EN 527-3:2003
Test procedure ..... :	CE-GPSD Report
Non-standard test method ..... :	N/A

Test Report Form No..... :	N/A
TRF Originator ..... :	ZTL LAB
Master TRF ..... :	Dated 2021-01

Test item description ..... :	Standing desk
Trademark ..... :	N/A
Manufacturer's name ..... :	Jiangsu Nandi Intelligent Technology Co., Ltd
Address..... :	No. 166 HouQiao, ZhaiQiao Village, QianHuang Town, WuJin District, ChangZhou, Jiangsu, China
Model and/or type reference ..... :	ND-ST01 ND-ST-1160,ND-ST-1460,ND-ST-1470,ND-ST-1260,ND-ST-1670

Testing procedure and testing location:

Testing Laboratory.....:	**Shenzhen ZTL Testing Technology Co., Ltd.**
Address.....:	No. 302, 3rd Floor, Qiaotou Chuangke Center, No.168 Yongfu Road, Fuhai Street, Baoan District, Shenzhen, China.
Date of Test.....:	Sept. 06, 2023 to Sept. 19, 2023
Tested by (name + signature).....:	Danny Ke Danny Ke
Reviewed by (name + signature).....:	Jason Li Jason Li
Approved by (name + signature).....:	Marsh Wang Marsh Wang

Summary of testing:	
Tests performed (name of test and test clause): All applicable test	**Testing location:** Shenzhen ZTL Testing Technology Co., Ltd. No. 302, 3rd Floor, Qiaotou Chuangke Center, No.168 Yongfu Road, Fuhai Street, Baoan District, Shenzhen, China

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

(Additional requirements for markings. See 1.7 NOTE)

Standing desk

Model: ND-ST01

Importer: XXX
Address: YYY
Manufacturer: Jiangsu Nandi Intelligent Technology Co., Ltd
Address: No. 166 HouQiao, ZhaiQiao Village, QianHuang Town, WuJin District, ChangZhou, Jiangsu, China

Made in China

Remark on above marking:

1, The height of CE symbols is more than 5 mm; The height of WEEE symbols is more than 7 mm;

2, XXX means Importer name; YYY means Importer address.

Possible test case verdicts:

- test case does not apply to the test object .....: N/A
- test object does meet the requirement..... : P (Pass)
- test object does not meet the requirement .....: F (Fail)

Testing.....:

Date of receipt of test item.....: Sept. 06, 2023

Date (s) of performance of tests ....: Sept. 06, 2023 to Sept. 19, 2023

General remarks:

This report shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this report relate only to the item(s) tested.

“(see remark #)”refers to a remark appended to the report.

“(see Annex #)” refers to an annex appended to the report.

Clause numbers between brackets refer to clauses in EN 527 Throughout this report a comma is used as the decimal separator.

Brief description of the test sample:

The equipment is Standing desk for general use.

EN 527-1:2011 office furniture — Electric office lift table and desks part 1: Dimensions			
Clause	Requirement - Test	Result - Remark	Verdict
4	Dimensions		P
4.1	Measurement procedure		P
	Position the Electric office lift table/desk on a flat horizontal and rigid floor surface, with leveling device(s) fully closed.		P
	Inclinable desk top work surface shall be set to the horizontal or as near to the horizontal as possible.		P
	Before commencing measurement procedure, it shall be determined whether the table/deck is for sitting, standing or sit/stand use.		P
	The minimum and maximum height of work surface shall be measured at the front edge and the adjustment range shall be recorded.		P
	The legroom depth shall be measured at the working position and with the rear edge of the work table/deck placed against a vertical wall.		P
	Figure 1 shows the legroom for all work surface which have straight front edges at least all along the width.		P
	Figure 2 shows the legroom for all work surfaces with non-straight front edges.		N/A
4.2	Requirements		P
	The dimensions of tables/desks shall be as specified in table 1	112*60*78cm	P
Annex A	General ergonomic principles and explanations to table 1		P
A.1	General		P
A.2	Anthropometric data for sitting and standing work		P
	The body dimensions which form the basis of the table/desk		P

EN 527-1:2011 office furniture — Electric office lift table and desks part 1: Dimensions			
Clause	Requirement - Test	Result - Remark	Verdict

Table 1 — Table/desk dimensions in millimetres

Dimensions			Work table/desk type						
			Type A	Type B	Type C	Type D			
			Fully adjustable	Fully selectable	Fixed height	Limited adjustable or limited selectable [e]			
h_1	Height of the work surface	Sitting only	Minimum range 650 - 850	Minimum range 650 - 850 [a]	740 ± 20	-allow: yes	Min: 680	Max: 760	+allow: yes
		Standing only	Minimum range 950 - 1250	Minimum range 950 - 1250 [a]	1050 ± 20	-allow: yes	Min: 1000	Max: 1180	+allow: yes
		Sit/stand	Minimum range 650 - 1250	N/a	N/a	Minimum range 680 - 1180			
t_1 and t_2	Maximum desk top thickness (see Figure 1)	At the front, t_1	55 [b]	55 [b]	70	70			
		At 500 mm from the front edge, t_2	80 [b]	90 [b]	100	100			
k_1	Minimum height of knee clearance for standing position only (see Figure 3)	Applies only to tables with a height more than 850 mm	700 [d]	700 [d]	700 [d]	700 [d]			
k_2	Minimum depth of knee clearance for standing position only (see Figure 3)		80	80	80	80			
k_3	Minimum depth of foot clearance for standing position only (see Figure 3)		150	150	150	150			

EN 527-1:2011 office furniture — Electric office lift table and desks part 1: Dimensions			
Clause	Requirement - Test	Result - Remark	Verdict

Table 1 — Table/desk dimensions in millimetres *(continued)*

D	Minimum desk top depth [g]		800	800	800 [f]	800
W	Minimum legroom width	Sitting only and sit/stand	1200	1000	850	850
		Standing only	790	790	790	790

a Maximum increment of 20 mm

b Only applies to sitting and sit/stand work tables/desks

c The construction of the product shall ensure the minimum legroom depth

d Measured from the floor

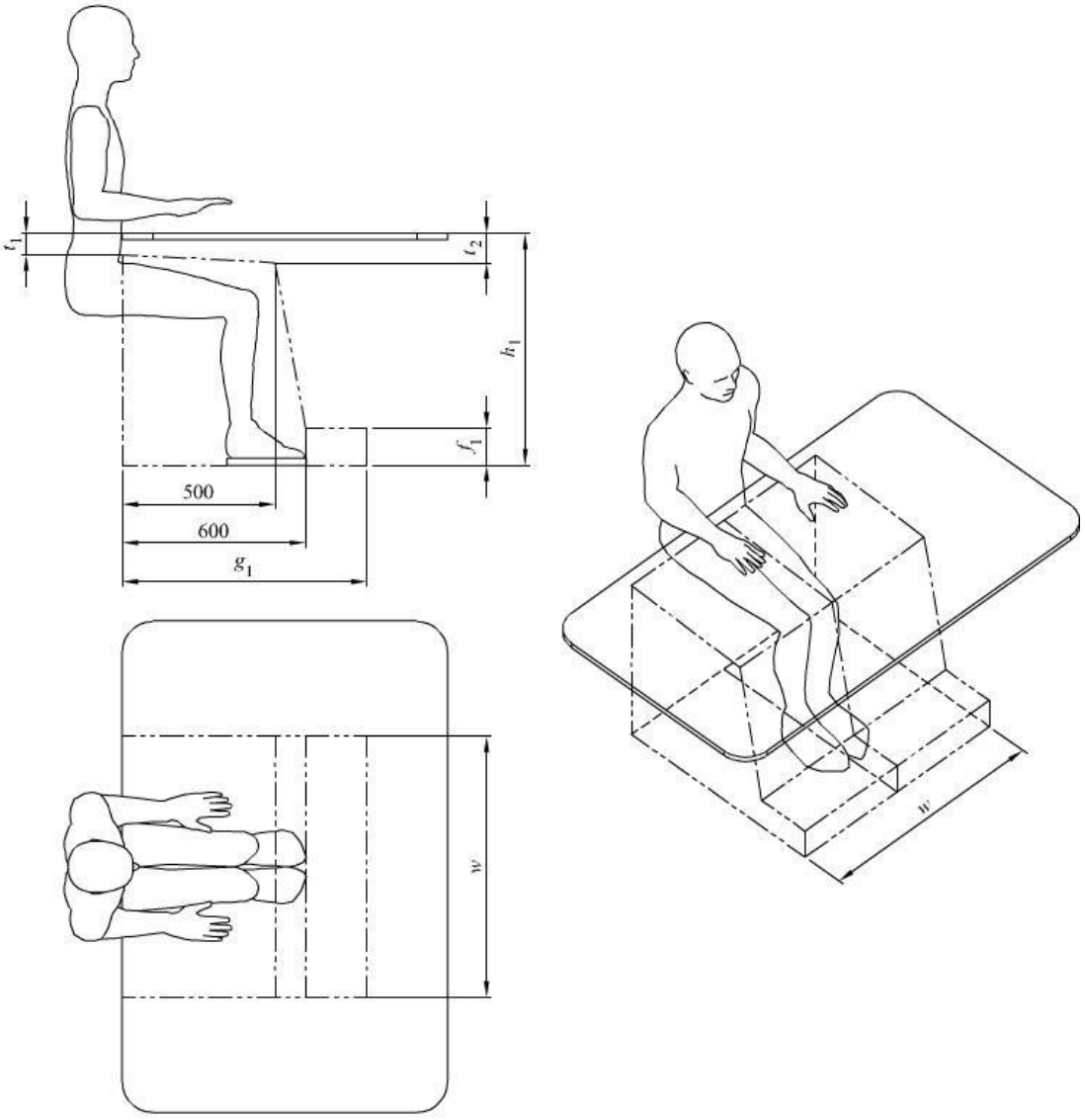
e The minimum and maximum values shall be obtained

f 600 mm can in some situations be acceptable, e.g. when 17" or smaller flat screens are used, providing that the work surface is not against the wall and that two people are not sitting one in front of each other. Information about these limitations shall be provided with the product

g The dimension D is measured as the smallest dimension at the work area

f_1 and f_2	Minimum height of minimum foot clearance	Sitting only and sit/stand From 600 mm to 800 mm from the front edge, f_1	120	120	120	120
		Standing only From front edge to 150 mm, f_2	120	120	120	120
g_1	Minimum legroom depth [c] (see Figure 1)	Sitting only and sit/stand	800	800	800 [f]	800

EN 527-1:2011 office furniture — Electric office lift table and desks part 1: Dimensions			
Clause	Requirement - Test	Result - Remark	Verdict

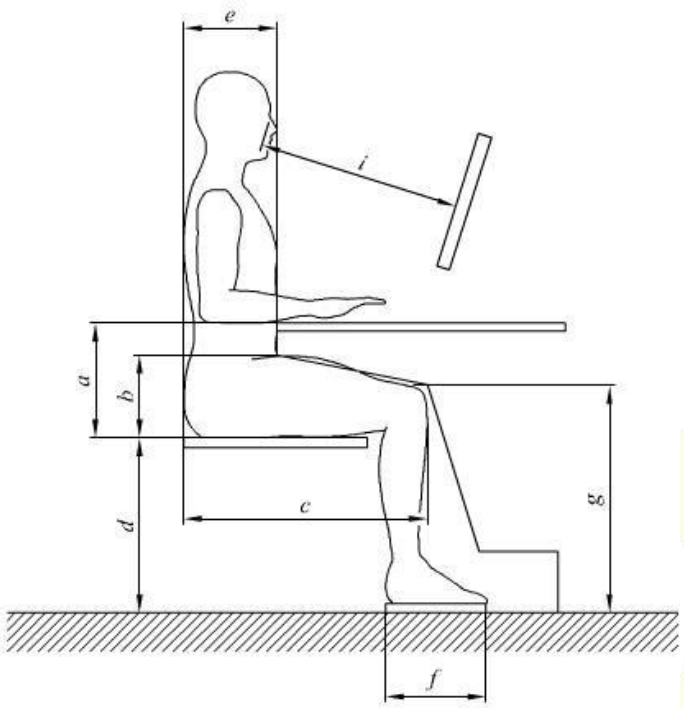


Key

h_1 height to the top of the work surface
t_1 maximum desk top thickness at the front
t_2 maximum desk top thickness at 500 mm from the front edge
f_1 height of foot clearance
g_1 minimum legroom depth
w minimum legroom width

Figure 1 — Legroom and height for work tables/desks with straight front edges

EN 527-1:2011 office furniture — Electric office lift table and desks part 1: Dimensions			
Clause	Requirement - Test	Result - Remark	Verdict

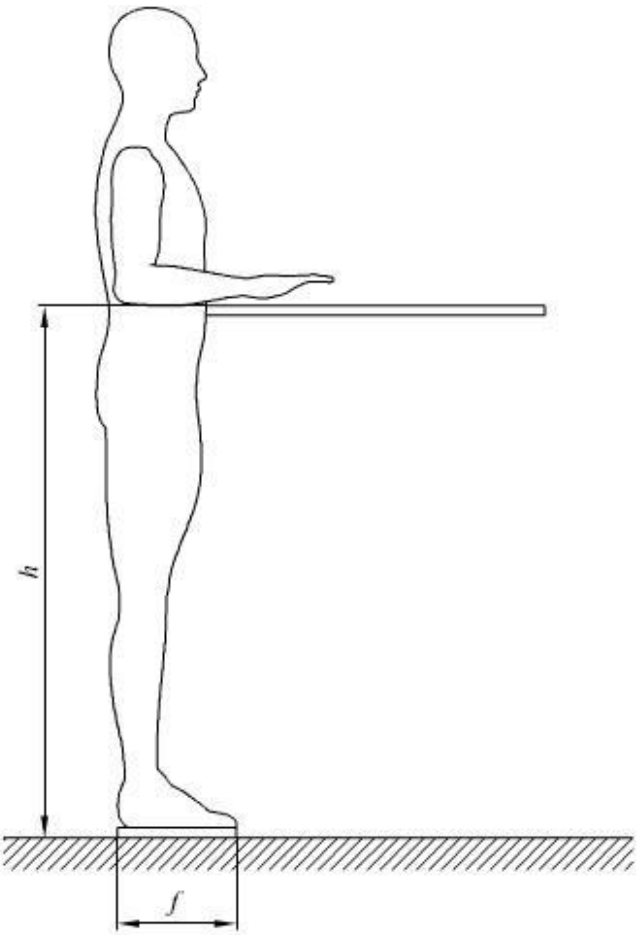


Key

a dimension from seat to elbow
b thigh thickness
c dimension from posterior to knee
d popliteal height
e body thickness
f foot length
g top of knee height
i eye to monitor distance

Figure A.1 — Dimensions for sitting posture

EN 527-1:2011 office furniture — Electric office lift table and desks part 1: Dimensions			
Clause	Requirement - Test	Result - Remark	Verdict

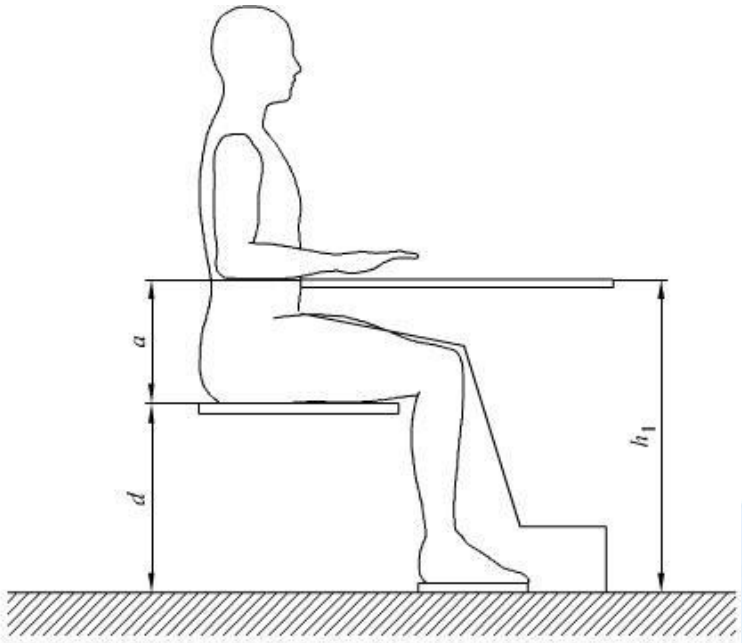


Key

f foot length
h elbow height-stand

Figure A.2 — Dimensions for standing posture

EN 527-1:2011 office furniture — Electric office lift table and desks part 1: Dimensions			
Clause	Requirement - Test	Result - Remark	Verdict

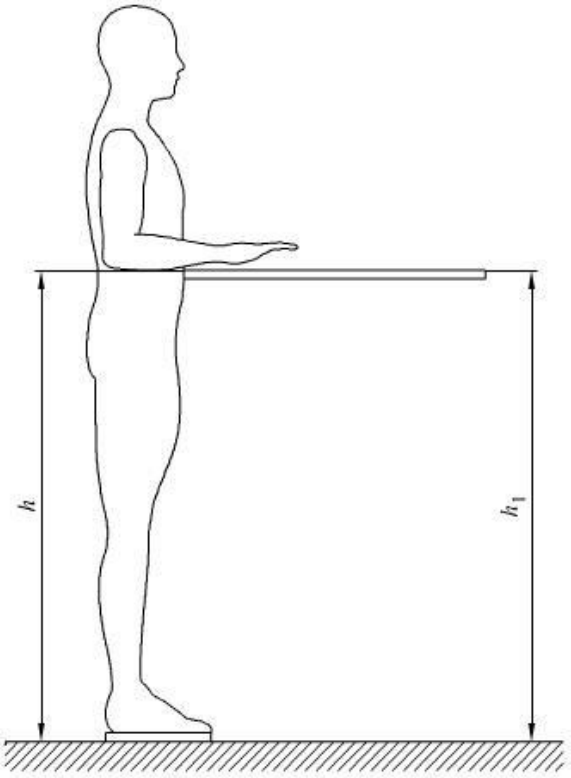


Key

a dimension from seat to elbow
d popliteal height
h_1 height to the top of the work surface

Figure A.3 — Dimension h_1 for sitting posture

EN 527-1:2011 office furniture — Electric office lift table and desks part 1: Dimensions			
Clause	Requirement - Test	Result - Remark	Verdict

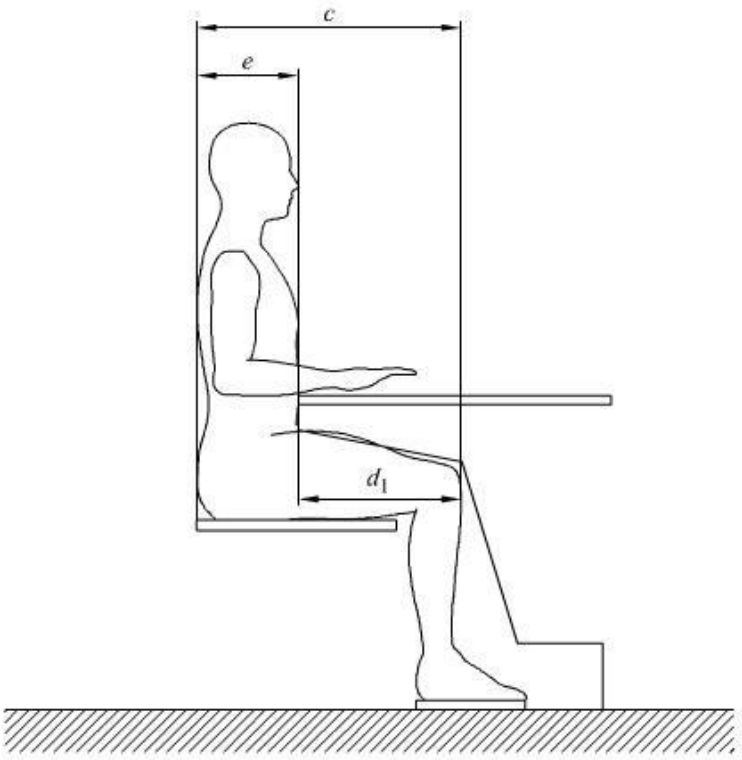


Key

h elbow height-stand
h_1 height to the top of the work surface

Figure A.4 — Dimension h_1 for standing posture

EN 527-1:2011 office furniture — Electric office lift table and desks part 1: Dimensions			
Clause	Requirement - Test	Result - Remark	Verdict

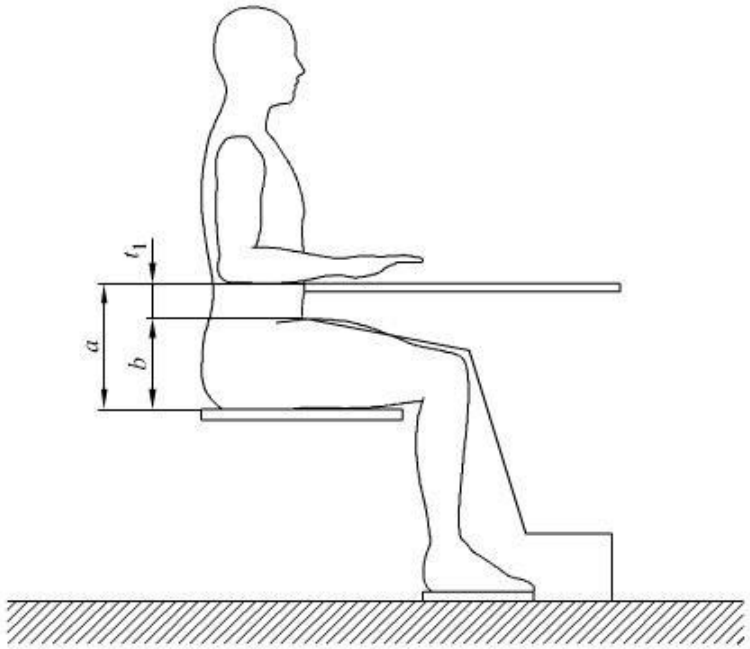


Key

c dimension from posterior to knee
e body thickness
d_1 minimum depth of legroom at knee

Figure A.5 — Dimension d_1

EN 527-1:2011 office furniture — Electric office lift table and desks part 1: Dimensions			
Clause	Requirement - Test	Result - Remark	Verdict

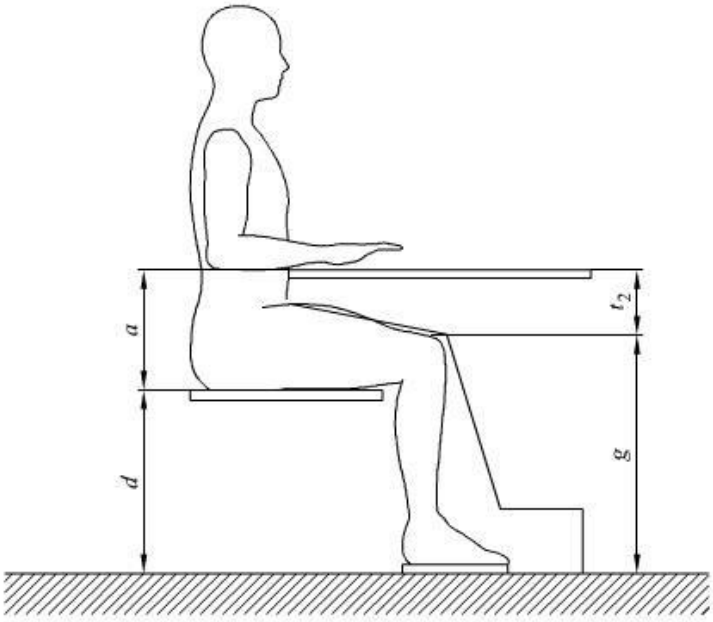


Key

a dimension from seat to elbow
b thigh thickness
t_1 maximum desk top thickness at the front

Figure A.6 — Dimensions t_1

EN 527-1:2011 office furniture — Electric office lift table and desks part 1: Dimensions			
Clause	Requirement - Test	Result - Remark	Verdict



Key

a dimension from seat to elbow
d popliteal height
g top of knee height
t_2 maximum desk top thickness at 500 mm from the front edge

Figure A.7 — Dimension t_2

EN 527-2:2016 office furniture — Electric office lift table part 2: safety, strength and durability requirements			
Clause	Requirement - Test	Result - Remark	Verdict
4	**Safety requirements**		P
4.1	General		P
	The table shall be designed so as to minimize the risk of injury to the user		P
	All parts of table with which the user comes into contact during intended ues, shall be designed so that physical injury and damage are avoided.		P
	a) All accessible edge and corners are free form burrs and rounded or chamfered.		P
	b) The edge and corners of the top surface are chamfeted nor less than 1mm by 1mm or rounded with a radius of not less than 2mm.		P
	c) The ends of feet and tubular components are closed or capped.		P
4.2	Shear and squeeze points		P
4.2.1	Shear and squeeze points when setting up and folding		P
4.2.2	Shear and squeeze points under influence of powered mechanisms.		N/A
4.2.3	Shear and squeeze points during use		N/A
4.3	Stability requirements		P
	The table shall not overturn when tested according to tests 10 and 11 of table1.		P
4.4	Structural safety requirements		P
	The structural safety requirements are fulfilled when the requirements according to 5.2 are fulfilled.		P
5	**Strength and durability**		P
5.1	General		P
	Tables shall be tested according to table 1 and following the order listed in table 1.		P
5.2	Requirements		P
	a) there are not fracture of any member, joint or component		P
	b) there are no loosening of joints intended to be rigid		P
	c) the work table fulfils its function after removal of the test loads		P
	d) the stiffness of the structure, both D1 and D2 divided by the height to the top of the table top shall be ≤17mm/m		P
6	**Information for use**		P
	a) information regarding intended ues		P
	b) instruction for operating the adjusting mechanisms		P
	c) instruction for the care and maintenance of the table		P

EN 527-2:2016 office furniture — Electric office lift table part 2: safety, strength and durability requirements			
Clause	Requirement - Test	Result - Remark	Verdict

7	**Test report**	P

Table 1 — Test sequence and parameters

Tests	Reference	Parameters	Value
1. Durability of height adjustment mechanisms[d]	EN 1730:2012, 8	Minimum mass on the table top, 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 (25 % of the cycles); - B: 50 kg or the maximum load specified shall be at the geometric centre of the table top (50 % of the 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 (25 % of the cycles) cycles:	50[c] 5000

EN 527-2:2016 office furniture — Electric office lift table part 2: safety, strength and durability requirements			
Clause	Requirement - Test	Result - Remark	Verdict

2.1. Horizontal static load test [a]	EN 1730:2012, 6.2	Load on the table top, kg: Specified force, N: Minimum specified force, N: Cycles	50 450 300 10
2.2. Additional horizontal static load test for adjustable tables with a height more than 950 mm [b]	EN 1730:2012, 6.2	Load on the table top, kg: Moment, Nm: Cycles	50 285 10
3.1 Vertical static load tests [a]	EN 1730:2012, 6.3.1	Force, N Cycles	1 000 10
3.2 Additional vertical static load test for	EN 1730:2012, 6.3.1	Force, N Cycles	500 10

EN 527-2:2016 office furniture — Electric office lift table part 2: safety, strength and durability requirements			
Clause	Requirement - Test	Result - Remark	Verdict

Tests	Reference	Parameters	Value
adjustable tables with a height more than 950 mm [b]			
4. Horizontal durability test [a]	EN 1730:2012, 6.4.1, 6.4.2	Load on the table top, kg: Force, N: Cycles:	50 300 10 000
5. Stiffness of the structure [a]	EN 1730:2012, 6.4.1 and 6.4.3	Load on the table top, kg: Force, N:	0 200
6. Vertical durability test [a]	EN 1730:2012, 6.5	Force, N: Cycles:	400 10 000
7. Durability of tables with castors	EN 1730:2012, 6.8	Load on the table top, kg: Cycles:	50 2 000
8. Vertical impact test [a]	EN 1730:2012, 6.6	Drop height, mm : Cycles	140 10
9. Drop test [a]	EN 1730:2012, 6.9	Nominal drop height, mm:	100
10. Stability under vertical load [e]	EN 1730:2012, 7.2	Force, N V_1 V_2	 750 750
11. Stability for work tables extension elements [e]	EN 1730:2012, 7.3	Force, N	400

a Height adjustable tables shall be adjusted to their maximum height or 950 mm table top height, whichever is the lower.

b Adjust the work table to its maximum height

c Either minimum 50 kg or nominal load according to the manufacturer's instruction whichever is the greater

d This test is only applicable to electrically operated height adjustment mechanisms.

e The tests of the stability Clauses 10 and 11 may be carried out additionally at the very beginning as an option.

EN 527-3:2003 office furniture — Electric office lift table and decks part 3: methods of test for the determination of the stability and the mechanical strength of the structure			
Clause	Requirement - Test	Result - Remark	Verdict
3	**General test conditions**		P
3.1	Preliminary preparation		P
3.2	Determination of the drawer test load		P
3.3	Tolerances		P
4	**Test apparatus**		P
4.1	Floor surface		P
4.2	Stops		P
4.3	Loading pad for the application of vertical forces		P
4.4	Horizontal force application device		P
4.5	Masses		P
5	**Test methods**		P
5.1	Stability		P
5.2	Strength under vertical force		P
5.3	Strength under horizontal force		P
5.4	Fatigue under horizontal force		P
5.5	Fatigue under vertical force		P
5.6	Drop test		P
6	**Test report**		P

※※※※※ **END OF REPORT** ※※※※※

APPENDIX I
(Photo documentation)

Photo 1- External view

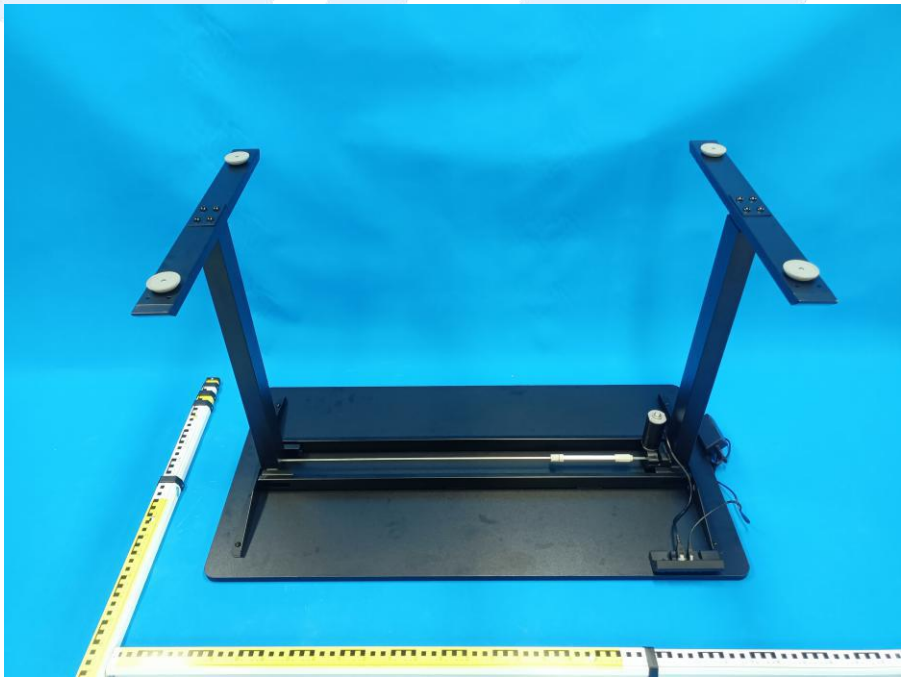


Photo 2- External view

Photo 3- External view

※※※※※ END OF APPENDIX I ※※※※※