

Test report: Compatibility of Techo Fount wood/steel leg office desk with relevant requirements

on dimensions, stability, strength and durability according to EN 527-1:2011,

EN 527-2+A1:2019 and NPR 1813:2016

Report code: 22.0609-6 **Date:** June 20, 2023



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1 Assignment

On March 2, 2023, Ahrend commissioned SHR to examine an office desk for compatibility with relevant requirements on dimensions, stability, strength and durability according to the latest version of Dutch and European standards.

2 Execution of the test

2.1 Identification and description of the samples

For the test, the samples mentioned in table 1 were delivered, 220609-4 was delivered on 02-03-2023 and 220609-6 was delivered on 03-05-2023.

The selection of the test pieces is carried out by the principal.

Table 1. Delivered samples.

Amount	t Code Description		
1	220609-4	Techo Fount wood/steel leg office desk	
1	220609-6	Techo Fount wood/steel leg office desk	

2.2 Method

Examination according to relevant requirements on dimensions and mechanical safety of:

Examination according to releve	ant requirements on aimenered and moonamed early of
- EN 527-1:2011	Dimensions. The measurements are assessed according to par 4.2 of
	NEN-EN 527-1:2011 for type A
- EN 527-2+A1:2019	Stability, strength and durability, with test methods according to
	EN 1730:2012. The stability, strength and durability requirements are
	assessed according to par 5.2 of NEN-EN 527-2:2016+A1:2019
- NPR 1813:2016	Dimensions. The measurements are assessed according to Annex A.2 of

NPR 1813:2016

2.3 Period of the test

The tests were executed from 04-04--2023 till 05-04-2023.

2.4 Deviations from the standard

Dimensions are determined on sample 220609-4. Strength, durability and stability were tested on sample 220609-6.



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3 Results of the test

The results of each individual test are shown in Appendix 2.

The samples do comply with all individual relevant tests of EN 527-1:2011, EN 527-2+A1:2019 and NPR 1813:2016.

Literature

European standard NEN-EN 527-1:2011 Office furniture – Work tables and desks – Part 1: Dimensions. NEN. Delft. 22 pp.

European standard NEN-EN 527-2:2016+A1:2019 Office furniture – Work tables and desks – Part 2: Mechanical safety requirements. NEN. Delft. 11 pp.

European standard NEN-EN 1730:2012 Furniture – Tables – test methods of test for the determination of the stability, strength and durability . NEN. Delft. 29 pp.

Dutch Code of Practice NPR 1813:2016 Ergonomie – Richtlijn voor toepassing van kantoormeubelen en werkplekaccessoires– Toelichting bij de NEN-EN 1335, de NEN-EN 527 en NEN-EN 16139. NEN. Delft. 29 pp.



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Appendix 1 Photos of tested product - Techo Fount wood/steel leg





Photo 1: Tested sample 220609-4 of Techo Fount wood/steel leg - front view



Photo 3: Tested sample 220609-4 of Techo Fount wood/steel leg - bottom view

Photo 2: Tested sample 220609-4 of Techo Fount wood/steel leg - side view



Photo 4: Tested sample 220609-4 of Techo Fount wood/steel leg - detail connection legs to frame



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Photo 5: Tested sample 220609-4 of Techo Fount wood/steel leg - detail table top to legs side view



Photo 6: Tested sample 220609-4 of Techo Fount wood/steel leg - detail leveller



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Appendix 2 Specification of results - Techo Fount wood/steel leg

✓ = OK X = not OK X = not applicable

Table 2: Dimensions related to requirements of NEN-EN 527-1 (all sizes in mm).

Property			Work table/desk type					
		Measured	Type A	Type B	Type C	Result	Remarks	
				adjustable	selectable	fixed		
	Work top shape		802 x 1601					
	Height to top sitting only			650 -	- 850ª	740 ± 20	✓	
h ₁	(minimum	standing only	752 increment: 0	950 –	1250ª	1050 ± 20	N/a	
	range)	sit/stand		650 - 1250	N/	'a	N/a	
t ₁	Desk top thickness	at front	18	5	5 ^b	70	✓	
t ₂	(maximum)	at 500 mm from front		80 ^b	90 ^b	100	✓	1)
k ₁	Height knee clearance	standing only → 0-80 mm from front			700 ^d		N/a	
k ₂	Depth knee clearance	standing only			80		N/a	
k ₃	Depth feet clearance	standing only			150		N/a	
f ₁	Height foot	sitting only, sit/stand → 600-800 mm from front	734		120		✓	
f ₂	(minimum)	standing only → 0-150 mm from front			120		N/a	
g ₁	Legroom depth (min.)	sitting only, sit/stand	802	80	00	800 ^f	✓	
Dg	Desk top depth (min.)		802	80	00	800 ^f	√	
w	Legroom width	sitting only, sit/stand	1402	1200	1000	850	✓	
VV	(minimum)	standing only	1702	790		N/a		

^a For type B a maximum increment of 20 mm is required

Remark:

1) Checked with a template.

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

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

^g Size D is the smallest depth of the table top



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Table 3: Dimensions according NPR 1813:2016 differing from dimensions according NEN-EN 527-1:2011.

Property		Measured	Work table/desk type			Result	Remark	
				Type A	Type B	Type C		
				adjustable	selectable	fixed		
	Height to top						n.a.	
h ₁	(minimum	sit/stand	increment: 0	650 - 1300	n/a			
	range)							
t ₁	Desk top	at front	18		50	n/a	✓	
	thickness	. = 0.0				,	/	4)
t ₂	(maximum)	at 500 mm from front		80	90	n/a	•	1)
W	Legroom width	sitting only, sit/stand	1450	1200	1000	850	1	
, vv	(minimum)	Sitting only, Silvstand	1430	1200	1000	030	•	

Remark:

1) Checked with a template.

Table 4: General requirements of NEN-EN 527-2:2016+A1:2019.

Par/art. 527-2	Test	Measured	Demand	Result	Remark
4	General requirements			✓	



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Table 5: Mechanical safety related to requirements of NEN-EN 527-2:2016+A1:2019 (with test methods according to NEN-EN 1730:2012) levelling devices set to 5 mm from fully open.

Par/art. EN1730	Test / examination of	Measured	Demand	Result	Remark
	1 Durability of height adjustment mechanisms A 1250 cycles			n.a.	
8	B 2500 cycles			n.a.	
	C 1250 cycles			n.a.	
6.2	2 1 Horizontal static load test 10 x 450N, min 300N, 50 kg load on table top			✓	
6.2	2.2 Additional horizontal static load test for adjustable tables with a height more than 950 mm: 10 x 285 Nm, 50 kg load on table top		no fracture, no loosening of joints, no major structural deformation, retention of functions of the table	n.a.	
6.3.1	3.1 Vertical static load test 10 x 1000N			✓	
6.3.1	3.2 Additional vertical static load test for adjustable tables with a height more than 950 mm: 10 x 500N			n.a.	
6.4.1 6.4.2	4 Horizontal durability test 10.000 x 300N, 50 kg load on table top			✓	
6.4.1 6.4.3	5 Stiffness of the structure 200N,	Short side: 4.1mm/m Long side: 9.3 mm/m	D/Height of the table ≤ 17 mm/m for D1 and D2	✓	
6.5	6 Vertical durability test 10.000 x 400N			✓	
6.8	7 Durability test for tables on castors 2000 cycles, 50 kg load on table top		no fracture, no loosening of joints, no major structural deformation,	n.a.	
6.6	8 Vertical impact test 10 x 140 mm		retention of functions of the table	✓	
6.9	9 Drop test, nominal drop height 100 mm.			✓	
7.2.2	10 Stability under vertical load V1 = 750N, V2 = 750N		Table shall not overturn	✓	
7.3	11 Stability for extension elements, 400N			n.a.	
			Information shall be available in the language of the country in which it will be available to the end user	✓	1)
	Information for use		Intended use	✓	1)
			Instruction for operating the adjusting mechanisms	✓	1)
			Instruction for the care and maintenance	✓	1)

Remark:

1) See Appendix 3.



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Appendix 3 Techo Fount wood/steel leg - Information for use- provided by Techo



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FOUNT table - user instructions

This is the user manual for the FOUNT table.

We strongly recommend to read this user manual carefully before using this table for the first time and pay attention in particular to the safety precaution. It is recommended to keep this manual with the table. In case of damage or loss, please send a request for a copy.

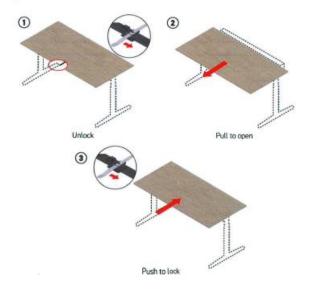
Intended use

The FOUNT table is developed to use in an office environment. This table consists of a work surface which is mounted with a quick fix on a frame with the legs of your choice. You may have chosen for a sliding table top therefore the handlings are described in paragraph 2.

2 Instructions for operating the adjusting mechanisms

To open: Push the handle underneath the top in right direction to release and slightly pull table top forward until it locks with an opening of about 180 mm.

To close: Release the handle again and push the tabletop backward until it clicks into place, ready for further use





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FOUNT table - user instructions



Safety Precaution

We reduced all safety risks to a minimum. Before you use and/or move the table, please read the following safety precaution measures:

Sliding top:



1.1 Before pushing the top back in its work position assure that the sliding way is fully free and no person can be hurt by clamping in between.



1.2 Do not sit or stand on the tabletop in any "open" position on risk of damaging the table or personal injury.



3.3 Before operating the sliding mechanism remove all matters that can easily fall.

Lift and/or move table:



3.4 Do not lift up the entire table by holding the table top.



3.5 Do not move the table by sliding



🔼 3.6 When you want to remove the table top, please unlock the four quick fix elements underneath the table top and then remove the table top.



3.7 Lift and move the table by holding the legs on the side



3.8 Don't forget when the table has been moved and the table top is placed, to lock the four quick fix elements



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FOUNT table user instructions



Maintenance and care

Maintenance:

The sliding mechanism including the handle mechanism do not need any maintenance.

Cleaning work surfaces:

Normal stains (coffee, tea, pencil, lipstick, finger marks, grease, water soluble glue, felt tip pen ink etc.) can be removed with a clean, damp cloth. If necessary, a little soft soap may be added to the water and a soft nylon brush may be used to treat more stubborn stains. Solvent-based lacquer, glue, nail varnish, ballpoint pen ink etc. should be removed with an organic solvent, such as methylated spirits.

Cleaning hard parts:

Use a microfibre cloth (dry or damp) to clean the hard parts. Small quantities of cleaning agent can be used.

Cleaning plastic parts:

A damp cloth or commercially available plastic cleaner are suitable for cleaning. Please do not use aggressive detergents.

End of usage:

This table is made of high quality materials and components that can be recycled and reused. Do not dispose of any parts in the household waste. Follow local laws and regulations.