

„MEŽA UN KOKSNES PRODUKTU PĒTNIECĪBAS UN ATTĪSTĪBAS INSTITŪTS” SIA
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Test Report No. 851-5/2025

Forest and Wood Products Research and Development Institute Testing Laboratory

Customer: IK “EU Certification”
Registration number: 40002155625
Customer address: Skolas Street 14-20, Jūrmala, LV-2016, Latvia

Manufacturer: LLP “TROYA” Company
Registration number: -
Manufacturer address: Pavlodar City, Lomov Street, 176/2, The Republic of Kazakhstan

Owner of the Test Report: LLP “TROYA” Company
Registration number: -
Owner address: Pavlodar City, Lomov Street, 176/2, The Republic of Kazakhstan

Date of the order: 07.08.2025.

Testing was done in conformity with contract No.:109-08/25 MV

Test performed at: SIA “Meža un koksnes produktu pētniecības un attīstības institūts”, Krišjāņa Barona street 40A, LV-3001, Jelgava, Latvia.

1 Order content:

Testing in accordance with Standard:

- EN 1728:2012 “Furniture - Seating - Test methods for the determination of strength and durability”;
- EN 1730:2012 “Furniture – Tables - Test methods for the determination of stability, strength and durability”
- EN 1022:2019 “Furniture – Seatings – Determination of stability”.

Following the requirements of Standards:

- EN 1729-1:2016 „Furniture - Chairs and tables for educational institutions - Part 1: Functional dimensions”;
- EN 1729-2:2023 “Furniture - Chairs and tables for educational institutions - Part 2: Safety requirements and test methods”.

2 Information provided by customer about delivered test specimen:

- | | |
|----------------------------|----------------------|
| - Test sample: | Student Desk SMARTY. |
| - Name of the sample: | -. |
| - Type of the material: | -. |
| - Sample dimensions: | -. |
| - Sample production date: | -. |
| - Sample production place: | -. |
| - Sample manufacturer: | -. |
| - Date of sampling: | -. |
| - Sampling place: | -. |
| - Sampling done by: | -. |
| - Procedure of sampling: | -. |
| - Other information: | -. |

3 Laboratory description of the specimen and test method:

- | | |
|---------------------------------|--------|
| - Test sample: | Table. |
| - Laboratory number for sample: | 851-5. |

- Test standard: EN 1728:2012 /AC:2013, EN 1730:2012
- Test sample delivered: 07.08.2025.
- Test sample delivered by: Courier.
- Test sample test date: 25.08.2025. – 27.08.2025.; 09.09.2025.



Figure 1: Student Desk SMARTY.



Figure 2: Front view.

4 Description of the delivery condition of the unit:

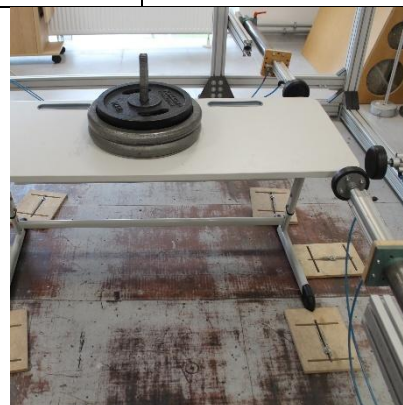
- Test specimen delivered assembled. Good condition, no defects.
- The test specimen has been stored in indoor ambient conditions for at least 24 h immediately prior to testing.
- The tests are carried out in indoor ambient conditions at a temperature between 15 °C and 25 °C.

5 Test results:

Table 1

Requirements of EN 1729-2:2023, EN 1729-1:2016	Test parameters according to EN 1730:2012 and EN 1728:2012 /AC:2013	Requirement fulfilled (+) Requirement not fulfilled (-)
1	2	3
5 Safety requirements, EN 1729-2:2023		
EN 1729-2:2023, (5.1) General safety requirements		a) +
- Where a requirement in 5.1 might conflict with 5.2 and/or 5.3, the relevant requirement of 5.2 and/or 5.3 has predominance over 5.1.		b) +
In order to minimize the risk of personal injury or damage to clothing, the following requirements apply:		c) +
a) edges which are directly in contact with the user are rounded or chamfered;		d) Not applicable
b) all other edges and corners accessible during intended use are free from burrs and/or sharp edges; there shall be no areas where the distance between two accessible parts moving relative to each other can be less than 25 mm, and more than 8 mm in any position during movement that could present a risk of injury to the user, created by parts of the furniture operated by powered mechanisms, e.g. mechanical springs and gas lifts.		e) +
c) This requirement is fulfilled if there is no hazard present when tested in accordance with CEN/TR 17202:2018, 8.3 and 8.4.		f) +
d) adjustment controls shall not operate inadvertently or accidentally;		g) +
e) when accessible to the user under normal use, open ends, and feet of tubular components shall be capped or otherwise closed;		h) Not applicable
f) There shall be no holes in the ends of tubular components or holes in rigid components in accessible parts between 8 mm and 18 mm, unless the depth of penetration is less than 10 mm or capped. This requirement is fulfilled if there is no hazard present when tested in accordance with CEN/TR 17202:2018, 7.3 and 7.4;		i) Not applicable
g) parts shall not be detachable without the use of an appropriate tool;		j) +
h) chairs shall not overturn when tested as specified in 6.2;		k) +
i) chairs shall show no structural failure which can affect safety when tested for strength and durability as specified in 6.3 and they shall still fulfil their function. For overload tests there shall be no visible fracture or breakage;		
j) tables shall not overturn when tested as specified in 7.1 of this document;		
k) tables shall show no structural failure which can affect safety when tested for strength and durability as specified in 7.2 and they shall still fulfil its function.		

Requirements of EN 1729-2:2023, EN 1729-1:2016	Test parameters according to EN 1730:2012 and EN 1728:2012 /AC:2013	Requirement fulfilled (+) Requirement not fulfilled (-)
1	2	3
4 Functional dimensions for chairs and tables, EN 1729-1:2015		
EN 1729-1:2015, (4) Functional dimensions for chairs and tables - The functional dimensions and corresponding size marks and colour codes for chairs with slopes between -5° and +7° and associated tables shall be as specified in the normative Annex A.		+ (See Table A.2)
7 Testing of tables, EN 1729-2:2023		
EN 1729-2:2023, (7.1.1) General - Unless otherwise specified, the stability of tables shall be tested according to EN 1730:2012 as specified below.		
EN 1729-2:2023, (7.1.2) Stability of tables, vertical load - the seating shall not overturn.	EN 1730:2012, (7.2) Stability of tables, vertical load: - 1 cycles; - vertical load 600 N; - 50 mm from edge.	+
EN 1729-2:2023, (7.1.3) Stability of tables, horizontal impact - the seating shall not overturn.	EN 1728:2012 /AC:2013, (6.25) Back impact test: - 1 cycles; - 20 ° angle of the hammer arm to the vertical.	+
7.2 Strength and durability of tables, EN 1729-2:2023		
EN 1729-2:2023, (7.2.1) General - Unless otherwise specified, the strength and durability of tables shall be tested in accordance with EN 1730:2012. - The durability height adjustment mechanisms of electrically operated tables shall be tested in accordance with EN 15372:2021, 5.5, Table1, Test number 1, to test severity of Level 2.		
EN 1729-2:2023, (7.2.2) Horizontal static load - the seating shall not overturn.	EN 1730:2012, (6.2) Horizontal static load: - 10 cycles; - vertical load in the centre of table 50 kg; - horizontal load 400 N.	+
EN 1729-2:2023, (7.2.3) Horizontal durability - the seating shall not overturn.	EN 1730:2012, (6.4.2) Horizontal durability: - 10 000 cycles; - vertical load 50 kg; - 50 mm from corners horizontal load 300 N.	+
EN 1729-2:2023, (7.2.4) Vertical static load - the seating shall not overturn.	EN 1730:2012, (6.3.1) Vertical static load, Tables ≤ 1000 mm in length: - 10 cycles; - 100 mm from edge vertical load 1000 N.	Not applicable
	EN 1730:2012, (6.3.2) Vertical static load Tables > 1000 mm in length: - 10 cycles; - 100 mm from edge vertical load 2 × 1000 N.	+
EN 1729-2:2023, (7.2.5) Vertical durability - the seating shall not overturn.	EN 1730:2012, (6.5) Vertical durability: - 10000 cycles; - 50 mm from edge vertical load 600 N.	+
5 Marking, EN 1729-1:2015		
EN 1729-1:2015, (5) Marking - Chairs and tables in Annex A shall be marked as 0 to 7. Chairs and tables in Annex B shall be marked as B0 to B7. Standing-height tables in Annex C shall be marked as C0 to C7. Tall chairs in Annex D shall be marked as D0 to D7. Stools in Annex E shall be marked as E0 to E7. The marking of fixed and adjustable chairs and tables shall be legible and indelible and shall include at least the following information: a) Size mark our colour code or both, as specified in Annex A, Annex B, Annex C, Annex D or Annex E;		a) +
		b) +

Requirements of EN 1729-2:2023, EN 1729-1:2016	Test parameters according to EN 1730:2012 and EN 1728:2012 /AC:2013	Requirement fulfilled (+) Requirement not fulfilled (-)
1	2	3
b) Marking on adjustable furniture of the size marks covered; c) Name and/or trade name and/or mark and address of the manufacturer or his or her authorized representative in full or in abbreviated form, provided the abbreviation enables the manufacturer and/or his or her authorized representative to be identified; d) Date of production by stating at least the year and month of production. Tall chairs shall also be marked with a reference where to find information on the table height they are intended to be used with. This information shall be provided on a label directly or via a web address, QR-code or other suitable application. Tables that are intended for use with tall chairs shall be marked with their height (distance from the floor to the top of the table). This information shall be provided on a label directly or via a web address, QR-code or other suitable application.		c) +
		d) +
6 Instructions, EN 1729-1:2015		
EN 1729-1:2015, (6) Instructions - The instructions shall be submitted with the furniture in the official languages(s) of the country where the furniture is sold. They can be given affixed to the furniture, on a label, in a leaflet or in the instructions for use. They shall include at least the following: a) Size mark reference: size mark identification shall be referenced to this European Standard; b) Maintenance instructions: including information on maintenance and cleaning; c) Installation instructions for multi-size furniture: instructions on how to adjust the furniture to fit a specific group of pupils; d) Adjustability information: instructions for the users (pupils) of adjustable furniture shall include information on how to operate the adjustments and information on how to recognize correct settings and therefore a good posture; e) Warning concerning the hazard when working with gas lifts: “Attention: Any repair or service work with gas cylinders shall be carried out by trained persons only.”		a) +
		b) +
		c) Not applicable
		d) +
		e) Not applicable
7 Approval of range, EN 1729-1:2015		
EN 1729-1:2015, (7) Approval of range - In order to approve a range of chairs, stools or tables, each size mark within the range shall be measured separately. When assessing table top dimensions for a range of tables, if there are six or fewer different table top shapes or sizes in the range, all table tops shall be measured. If there are more than six different table top shapes or sizes, six shall be measured and the additional table top shapes or sizes shall be assessed from the manufacturer’s drawings of them. The drawings shall show full details (dimensions) of each table top and its under frame structure. The information provided shall be used to assess whether the size of table top and legroom clearance fulfil the requirements of the standard. The test report shall state which table tops have been measured and which have been assessed from drawings. These drawings shall be attached to the report.		Not applicable
		
Figure 3: Vertical static load Tables > 1000 mm in length: - 10 cycles; - 100 mm from edge vertical load 2 × 1000 N.	Figure 4: Back impact test: - 20 ° angle of the hammer arm to the vertical; - 1 cycle.	Figure 5: Horizontal durability: - 10 000 cycles; - vertical load 50 kg; - 50 mm from corners horizontal load 300 N.

EN 1729-1:2015 Table A.2 – Dimensions and size marks for tables for use with chairs with seat slopes between – 5° and + 7°

All dimensions in millimetres unless otherwise stated

Size code	0	1	2	3	4	5	6	7
Color code	White	Orange	Violet	Yellow	Red	Green	Blue	Brown
Popliteal range (with shoes)	200-250	250-280	280-315	315-355	355-405	405-435	435-485	485 +
Stature range (without shoes)	800-950	930-1160	1080-1210	1190-1420	1330-1590	1460-1765	1590-1880	1740-2070
h ₈ Height of top ± 20 mm	400	460	530	590	640	710	760	820
Measured	-	-	-	-	-	710	760	820
t ₁ Depth of top (min)	n/a	500 ^a	500 ^a	500 ^a	500	500	500	500
Measured	-	-	-	-	-	500	500	500
w ₁ Width of top, per person at front edge, where pupils sit (min)	n/a	600 ^b	600 ^b	600 ^b	600 ^b	600	600	600
Measured	-	-	-	-	-	600	600	600
Surface area per person (min)	n/a	0,15 m ²	0,15 m ²	0,15 m ²	0,15 m ²	0,15 m ²	0,15 m ²	0,15 m ²
Measured	-	-	-	-	-	0,72 m ²	0,72 m ²	0,72 m ²
Horizontal distance between front legs/structure, where pupils sit, per person (min)	n/a	500 ^c	500 ^c	500 ^c	500 ^c	500	500	500
Measured	-	-	-	-	-	500	500	500
a Can be reduced to 400 mm (only when requirements by educational conditions)								
b Can be reduced to 550 mm (only when requirements by educational conditions)								
c Can be reduced to 450 mm (only when requirements by educational conditions)								

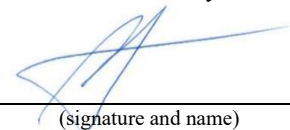
6. Testing laboratory comments summary

Student Desk SMARTY sizes "5, 6 and 7" fulfills functional dimensions and safety requirements according to EN 1729-1:2016 „Furniture - Chairs and tables for educational institutions - Part 1: Functional dimensions” and fulfills safety, stability, strength and durability requirements according to EN 1729-2+A1:2016 “Furniture - Chairs and tables for educational institutions - Part 2: Safety requirements and test methods”. Detailed test results are reflected in Table 1.

Date of issue: 09.10.2025.

Prepared by
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Reviewed by



(signature and name)

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