



Radius Møbler A/S
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Order no. 488585
Page 1 of 1
Appendices 3
Initials laha/prni/hbs

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Test Report

Material: Model: Sala E educational chair

Type:	Chair	Lab.no.:	488585-1
Weight:	8,6 kg		
Materials:	Seat: Laminate Back: Plastic		

Sampling: The test material was sampled by the client and received at the Danish Technological Institute 25-10-2012.

Method: EN 1729 Furniture – Chairs and tables for educational institutions – Part 1: Functional dimensions. Tested according to table A.1. Clauses 1-11..

EN 1729 Furniture – Chairs and tables for educational institutions – Part 2: Safety requirements and test methods. Loading according to EN 1729-2:2006 size 7, (Brown). Clauses 4, 5.

Period: The testing was carried out from 25-10-2012 to 27-11-2012.

Result: Model Sala E educational chair fulfils the requirements in EN 1729-1:2006 and fulfils the requirements of Table A.1 and loading according to EN 1729-2:2006, size 7 (brown). Clauses 4, 5.

Individual results appear from Appendices 1 and 2.

Storage: The test material will be destroyed after 1 month, unless otherwise agreed.

Terms: The test was performed according to the rear side conditions, which are according to the guidelines laid down by DANAK (The Danish Accreditation). The testing is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

28-11-2012, Danish Technological Institute, Wood Technology, Taastrup

Test responsible

Verifier

Testing of model: Sala E Educational Chair Lab. No.: 488585-1

EN 1729-1:2006 – Tabel A.1

Size code	0	1	2	3	4	5	6	7
Colour code	White	Orange	Violet	Yellow	Red	Green	Blue	Brown
1. Length of the lower leg (without shoes)	200-250	250-280	280-315	315-355	355-405	405-435	435-485	485+
2. Person height (without shoes)	800-950	930-1160	1080-1210	1190-1420	1330-1590	1460-1765	1590-1880	1740-2070
3. H ₈ -Seat height ± 10	210	260	310	350	380	430	460	510
Measured								385-568
4. T ₄ -Effective seat depth ± 10 mm (0-2) ± 20 mm (3-7)	225	250	270	300	340	380	420	460
Measured							420	
5. B ₃ -Min. seat width	210	240	280	320	340	360	380	400
Measured								418
6. T ₇ -Seat depth (min.)	Actual t ₄ minus 20 mm	Actual t ₄ minus 20 mm	Actual t ₄ minus 20 mm	Actual t ₄ minus 30 mm	Actual t ₄ minus 30 mm	Actual t ₄ minus 30 mm	Actual t ₄ minus 30 mm	Actual t ₄ minus 30 mm
Measured								410
7. H ₆ -Height of point S- -10 to +20	140	150	160	180	190	200	210	220
Measured								290

**Testing of model: Sala E Educational Chair
 Lab. No.: 488585-1**

Size code	0	1	2	3	4	5	6	7
Colour code	White	Orange	Violet	Yellow	Red	Green	Blue	Brown
8. H ₇ -Back height, min	100	100	100	100	100	100	100	100
Measured								455
9. B ₄ -Min. back width	-	210	250	270	270	300	330	360
Measured						320		
10. R ₂ -The horizontal radius of the back	-	300	300	300	300	300	300	300
Measured								400
11. β-The inclination of the back, degrees	-	95° to 110°	95° to 110°	95° to 110°	95° to 110°	95° to 110°	95° to 110°	95° to 110°
Measured								108

Order no. 488585
Appendix 2
Page 1 of 1
Initials laha/prni/hbs

Testing of model: Sala E Educational Chair Lab. No.: 488585-1

Loading according to EN 1729-2:2006, size 7 (brown)

Testing	Test Method	Result
4 Safety requirements		
4 a)-i)	EN 1729-2:2006 4	
4 l)	EN 1729-2:2006 5.2	
4 m)	EN 1729-2:2006 5.3	

Testing	Test Method	Cycles	Loading	Result
5 Testing of chairs				
5.2.1 Stability forward	EN 1022:2005 6.2		Seat: 600 N Horizontal: 20 N	Bestået
5.2.2 Stability sideways	EN 1022:2005 6.4		Seat: 600 N Horizontal: 20 N	Bestået
5.2.3 Stability backwards	EN 1022:2005 6.6		Seat: 600 N Back: 180 N	Bestået
5.3.1 Seat and back static loading	EN 1728:2000 6.2.1	10	Seat: 2000 N Back: Max 700 N	Bestået
5.3.2 Seat and back fatigue testing	EN 1728:2000 6.7	100000	Seat: 1250 N Back: 300 N	Bestået
5.3.3 Seat front edge fatigue testing	EN 1728:2000 6.8	50000	Vertical: 800 N	Bestået
5.3.4 Sideways static loading	EN 1728:2000 6.13	10	Vertical: 1600 N Horizontal: Max 600 N	Bestået
5.3.5 Forward static loading	EN 1728:2000 6.12	10	Vertical: 1600 N Horizontal: Max 600 N	Bestået
5.3.6 Seat impact testing	EN 1728:2000 6.15	10	Drop height: 300 mm	Bestået
5.3.7 Back impact testing	EN 1728:2000 6.16	10	Drop height: 620 mm	Bestået
5.3.8 Static loading of foot rest	EN 1728:2000 6.4	10	Vertical: 1000 N	N/A
5.3.9 Drop test	EN 1729-2:2006 Annex A	5	Drop height: 600 mm	N/A

Order no. 488585
Appendix 3
Page 1 of 1
Initials laha/prni/hbs

Testing of model: Sala E Educational Chair
Lab. No.: 488585-1

Photo



The general conditions pertaining to assignments accepted by Danish Technological Institute shall apply in full to the technical testing and calibration at Danish Technological Institute and to the completion of test reports and calibration certificates within the relevant field.

Danish Accreditation (DANAK)

DANAK was established in 1991 in pursuance of the Danish Act No. 394 of 13 June 1990 on the promotion of Trade and Industry.

The requirements to be met by accredited laboratories are laid down in the "Danish Agency for Trade and Industry's ("Erhvervsfremme Styrelsens") Statutory Order on accreditation of laboratories to perform testing etc. and GLP inspection. The statutory order refers to other documents, where the criteria for accreditation are specified further.

The standards DS/EN ISO/IEC 17025 "General requirements for the competence of testing and calibration laboratories" and DS/EN 45002 "General criteria for the assessment of testing laboratories" describe fundamental criteria for accreditation. DANAK uses guidance documents to clarify the requirements in the standards, where this is considered to be necessary. These will mainly be drawn up by the "European co-operation of Accreditation (EA)" or the "International Laboratory Accreditation Co-operation (ILAC)" with the purpose of obtaining uniform criteria for accreditation. In addition, DANAK draws up Technical Regulations with specific requirements for accreditation that are not contained in the standards.

In order for a laboratory to be accredited it is, among other things, required:

- that the laboratory and its personnel are not subject to any commercial, financial or other pressures, which might influence their technical judgement

- that the laboratory operates a documented quality system
- that the laboratory has at its disposal all items of equipment, facilities and premises required for correct performance of the service that it is accredited to perform
- that the laboratory management and personnel have technical competence and practical experience in performing the service that they are accredited to perform
- that the laboratory has procedures for traceability and uncertainty calculations
- that accredited testing or calibration is performed in accordance with fully validated and documented methods
- that the laboratory keeps records, which contain sufficient information to permit repetition of the accredited test or calibration
- that the laboratory is subject to surveillance by DANAK on a regular basis
- that the laboratory shall take out an insurance, which covers liability in connection with the performance of accredited services

Reports carrying DANAK's logo are used, when reporting accredited services and show that these have been performed in accordance with the rules for accreditation.