

Test Report

Report No.: 751390-1



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Subject: Model: Gate Student 4 Legs

Type:	Chair				
Length:	570 mm	Width:	460 mm	Height:	840 mm
Weight	4 kg				
Materials:	Plastic shell, ø16 mm metal tubes				

Sampling: The test material was sampled by the client and received at the Danish Technological Institute 28-03-2017.

Method: **EN 1729-1:2015** Furniture – Chairs and tables for educational institutions - Part 1: Functional dimensions. Measured according to table A.1.

EN 1729-2:2012+A1:2015 Furniture – Chairs and tables for educational institutions - Part 2: Safety requirements and test methods. Loading according to EN 1729-2:2012+A1:2015 highest level.

Period: The testing was carried out from 29-03-2017 to 26-04-2017.

Result: Model Gate Student 4 Legs fulfils the requirements in EN 1729-1:2015, Table A.1 and the requirements in EN 1729-2:+A1:2015.

Individual results appear from Appendices 1 and 2.


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

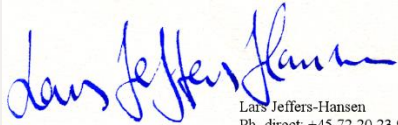
Terms: The accredited test was carried out according to DANAK's general conditions see www.danak.dk and according to the General Terms and Conditions regarding Commissioned Work Accepted by the Danish Technological Institute, which apply at the time of signing the agreement. The test is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

Date/place: 07-06-2017, Danish Technological Institute, Wood Technology, Taastrup

Signature: Test responsible

Co-signatory


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Testing of Model:

EN 1729-1:2015 – Table A.1 - Chair

Size mark	0	1	2	3	4	5	6	7
Colour code	White	Orange	Violet	Yellow	Red	Green	Blue	Brown
Popliteal range (without 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
h₈ Seat height ± 10	210	260	310	350	380	430	460	510
Measured							468	
t₄ Effective seat depth ± 15 mm (0-2) ± 25 mm (3-7)	-	-	-	300	340	380	420	460
Measured							415	
b₃ Seat width	210	240	280	320	340	360	380	400
Measured							425	
x Distance between Point S and back of seat pad (max.)	-	-	-	30	30	50	50	50
Measured							N/A	
h₇ Backrest height (min.)	100	100	100	100	100	100	100	100
Measured							380	
b₄- Width of backrest (min.)	-	-	-	260	270	300	330	360
Measured							402	
r₂ Horizontal radius of backrest (min.)	-	-	-	300	300	300	300	300
Measured							>300	
α Inclination of seat (min.)	-	-	-	-5° to +7°	-5° to +7°	-5° to +7°	-5° to +7°	-5° to +7°

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Testing of Model:

Size mark	0	1	2	3	4	5	6	7
Colour code	White	Orange	Violet	Yellow	Red	Green	Blue	Brown
Measured							1,8°	
γ Angle between seat and backrest	-	-	-	95° to 110°	95° to 110°	95° to 110°	95° to 110°	95° to 110°
Measured							104°	
p Height of armrest above seat -20 to +10	-	-	-	170	190	210	230	250
Measured							N/A	
r Width between arms	-	-	-	360-410	390-440	420-470	460-510	510-570
Measured							N/A	
q Distance from backrest to front edge of armrest (max.)	-	-	-	-	225	250	275	300
Measured							N/A	
o Width of armrest (min.)	-	-	-	-	20	20	20	20
Measured							N/A	
n Length of armrest (min)	-	-	-	-	80	80	80	80
Measured							N/A	

Table F.2 Point S Range for Size Mark

Size mark	0	1	2	3	4	5	6	7
Colour code	White	Orange	Violet	Yellow	Red	Green	Blue	Brown
S-point	N/A	N/A	N/A	160-210	170-220	180-230	190-240	200-250
Measured							206	

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Testing of Model:

C. Determination of Point S and whether Buttock Zone and Lumbar Support Requirements are met

	Result
Buttock zone meets the requirement	Passed
Lumbar support	Passed

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Loading according to EN 1729-2:2012+A1:2015

Testing	Test Method	Cycles	Loading	Result
5 Testing of chairs				
5.2.2 Forward stability	EN 1022:2005 6.2 or 8.2		Seat: 600 N Horizontal: 20 N	Passed
5.2.3.1 Sideways stability for chairs without armrests	EN 1022:2005 6.4 or 8.2		Seat: 600 N Horizontal: 20 N	Passed
5.2.3.2 Sideways stability for chairs with armrests	EN 1022:2005 6.4, 8.2		Seat: 600 N Horizontal: 20 N	N/A
5.2.4 Rearwards stability	EN 1022:2005 6.6 or 8.5		Seat: 600 N Back: 180 N	Passed
5.2.5 Chairs with backrest inclination	EN 1335-3:2009, 7.17			N/A
5.3.2 Seat and back static load	EN 1728:2012, 6.4	10	Seat: 2000 N Back: Max 700 N	Passed
5.3.3 Seat and back durability	EN 1728:2012 6.17	100.000	Seat: 1250 N Back: 300 N	Passed
5.3.4 Seat front edge durability	EN 1728:2012 6.18	50.000	Vertical: 800 N	Passed
5.3.5 Sideways static load	EN 1728:2012 6.16	10	Vertical: Max. 1600 N Horizontal: Max 600 N	Passed
5.3.6 Forward static load	EN 1728:2012 6.15	10	Vertical: Max. 1600 N Horizontal: Max 600 N	Passed
5.3.7 Seat impact	EN 1728:2012 6.24	10	Drop height: Max. 300 mm	Passed
5.3.8 Back impact	EN 1728:2012 6.25	10	Drop height: Max. 620 mm	Passed
5.3.9 Static load of foot rail	EN 1728:2012 6.8	10	Vertical: max. 1300 N	N/A
5.3.10 Drop test	EN 1728:2012 6.27.3	5	Drop height: 600 mm	Passed
5.3.11 Foot rest durability	EN 1728:2012, 6.21	50.000	Max. 1000 N	N/A
5.3.12 Armrest vertical static load	EN 1728:2012, 6.11 or EN 1335-3:2009, 7.2.3	50.000	Max. 1000 N	N/A
5. Marking	EN 1729-1:2015			Passed
6. Instructions	EN 1729-1:2015			Passed

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Photo

