

Report No.: 148646-1



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Page 1 of 1 Jjoh/jnas/hbs Order no.: 148646 No. of appendices: 3

Item:

Model:

R.U.M.

Type:	Chair						
Length:	530 mm	Width:	440 mm	Height:	925 mm		
Weight:	7.81 kg						
Materials:	Plastic, metal						

Sampling:

The test material was sampled by the client and received at the Danish Technological In-

stitute 23-08-2022.

Method:

EN 1729-1:2015/AC:2016 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 25-08-2022 to 25-11-2022.

Result:

Model R.U.M. fulfils the requirements in EN 1729-1:2015/AC:2016 and

EN 1729-2:2012+A1:2015

It fulfils the requirements of size marks 6 and 7.

Individual results appear from Appendices 1 and 2.

Storage:

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

Terms:

Accredited testing was carried out in compliance with international requirements (EN/ISO/IEC 17025:2005) and in compliance with Danish Technological Institute's General Terms and Conditions regarding Commissioned Work accepted by Danish Technological Institute. The test results apply to the tested products only. This report may be

quoted in extract only if the laboratory has granted its written consent.

Date/place:

25-11-2022, Danish Technological Institute, Wood and Biomaterials, Taastrup

Signature:

Test responsible

Co-signatory





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Initials jjoh/jnas/hbs

Testing of Model: R.U.M.

EN 1729-1:2015/AC:2016 - Table A.1

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
h ₈ Seat height ± 10	210	260	310	350	380	430	460	510
Measured							460	510
t ₄ Effective seat depth ± 15 mm (0-2) - ± 25 mm (3-7)	-	-	-	300	340	380	420	460
Measured							435	435
b₃ Seat width	210	240	280	320	340	360	380	400
Measured							425	425
x Distance between Point S and back of seat pad (max.)	-	-	-	30	30	50	50	50
Measured							42	42
h ₇ Backrest height (min.)	100	100	100	100	100	100	100	100
Measured							230	230
b ₄ Width of backrest (min.)	-	-	-	260	270	300	330	360
Measured							410	410
r ₂ Horizontal radius of backrest (min.)	-	-	-	300	300	300	300	300
Measured							>300	>300

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Initials jjoh/jnas/hbs

Testing of Model: R.U.M.

Size mark	0	1	2	3	4	5	6	7
Colour code	White	Orange	Violet	Yellow	Red	Green	Blue	Brown
α Inclination of seat	=	-	-	-5° to +7°				
Measured							0°	0°
γ Angle between seat and backrest	-	-	-	95° to 110°				
Measured							106°	106°
p Height of armrest above seat -20 to +10	-	-	-	170	190	210	230	250
Measured							N/A	N/A
r Width between arms				360-410	390-440	420-470	460-510	510-570
Measured							N/A	N/A
q Distance from backrest to front edge of armrest (max.)	-	-	-	-	225	250	275	300
Measured							N/A	N/A
o Width of armrest (min.)	-	-	-	-	20	20	20	20
Measured							N/A	N/A
n Length of armrest (min)	-	-	-	-	80	80	80	80
Measured							N/A	N/A



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Initials jjoh/jnas/hbs

Testing of Model: R.U.M.

Table F.2 Point S Range for Size Mark

It fulfils the requirements of size marks: 6 and 7

	Result
Buttock zone meets the requirement	Passed
Lumbar support	Passed



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Initials: Jjoh/jnas/hbs

Test of Model: R.U.M.

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/ Applied: 400 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 1728-2:2012 6.27.3	5	Drop height: 600 mm	Passed
5.3.11 Foot rest durability	EN 1728-2:2012, 6.21	50.000	Max. 1000 N	N/A
5.3.12 Armrest, vertical static load	EN 1728-2:2012, 6.11 or EN 1335- 3:2009, 7.2.3 or EN 1728:2012, 6.11	50.000	Max. 1000 N	N/A
5. Marking	EN 1729-1:2015			N/A
6. Instructions	EN 1729-1:2015			N/A
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N/A – Not applicable Passed – Not tested

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Initials: Jjoh/jnas/hbs

Test of Model: R.U.M.

Photos

