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Nordic Comfort Products AS  
Box 3  
NO-8640 Hemnesberget  
NORWAY

## Testing of seating furniture according to EN 1729-2:2012+A1:2016

(3 appendices)

<b>Customer:</b>	Nordic Comfort Products AS
<b>Test object/ID:</b>	School chair/Samba Swivel
<b>Test method:</b>	EN 1729-2:2012+A1:2016 Furniture - Chairs and tables for educational institutions – Part 2: Safety requirements and test methods. Size 7
<b>Scope:</b>	Complete test
<b>Date of test:</b>	2021-04-12 – 2021-05-10
<b>Test result:</b>	The tested object passed the test
<b>Reservation:</b>	The test results in this report apply solely to the specimen tested
<b>Test environment:</b>	23 ± 2°C and 50 ± 5% relative humidity
<b>Measurement uncertainty:</b>	Decision rule according to EN ISO IEC 17025:2018 clause 3.7: No account is taken of measurement uncertainty when reporting numerical results

### RISE Research Institutes of Sweden AB Department Building and Real Estate - Technical Wood Assessment

Performed by

Examined by

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### Appendices

1. Test result (2 pages)
2. Test object (1 page)
3. Pictures (1 page)

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Appendix 1

**Test result**

Abbreviations: N/A = Not applicable  
N/T = Not tested

Table 1

1.	General requirements	EN 1729	Req. fulfilled
1.1	<p>In order to minimise the risk of personal injury or damage to clothing, the following requirements apply:</p> <ul style="list-style-type: none"> <li>- Edges of the seat, back rest and arm rests, which are in contact with the user when sitting in the chair shall be rounded with a minimum 2 mm radius or chamfer.</li> <li>- Edges of the handles shall be rounded with a minimum 2 mm radius in the direction of the force applied.</li> <li>- All other edges and corners with which the user may come into contact with during normal use shall be smooth, rounded or chamfered and shall have no burrs.</li> <li>- Distance between accessible moving parts operated by powered mechanisms, e.g., gas lifts, shall always be either &lt; 8 mm or <math>\geq</math> 25 mm.</li> <li>- With the exception of setting up or folding tables and chairs, there shall be no accessible gaps &gt; 8 mm and &lt; 25 mm created during normal movements and actions.</li> <li>- Adjustment controls shall not operate inadvertently or accidentally.</li> <li>- Open ends and feet of tubular components shall be capped or otherwise closed.</li> <li>- Parts shall not be detachable without the use of an appropriate tool.</li> <li>- Parts which are lubricated shall be covered in order to avoid staining.</li> <li>- Chairs shall not overturn when tested as specified in table 2.</li> <li>- Chairs shall show no structural failure which can affect safety when tested for strength and durability as specified in table 3 and they shall still fulfil their function. For overload tests there shall be no visible fracture or breakage.</li> </ul>	4 a-n	Pass

Appendix 1

Table 2

2.	Stability	EN 1729	Req. fulfilled
2.1	Forwards stability Requirement $\geq 20$ N	5.2.2	Pass 28 N
2.2	Sideways stability of chairs without armrests Requirement $\geq 20$ N	5.2.3.1	Pass 104 N
2.3	Sideways stability of chairs with armrests Requirement $\geq 20$ N	5.2.3.2	N/A
2.4	Rearwards stability Requirement $\geq 180$ N	5.2.4	Pass 185 N
2.5	Rearwards stability, chairs with backrest inclination Requirement =13 discs	5.2.5	N/A
2.6	Forwards stability for seating with footrest Requirement $\geq 20$ N	5.2.1	N/A

Table 3

3.	Strength, durability	EN 1729	Cycles	Load size 7	Req. fulfilled
3.1	Seat and back static load test	5.3.2	10	Seat: 2000 N Back:700	Pass
3.2	Seat and back fatigue test	5.3.3	100 000	Seat: 1250 N Back: 300 N	Pass
3.3	Seat front edge fatigue test	5.3.4	50 000	800 N	Pass
3.4	Leg sideways static load test	5.3.5	10	Under frame: 600 N Seat:1600 N	Pass
3.5	Leg forward static load test	5.3.6	10	Under frame: 600 N Seat: 1600 N	Pass
3.6	Seat impact test	5.3.7	10	Drop height 300 mm	Pass
3.7	Back impact test	5.3.8	10	Drop height 620 mm	Pass
3.8	Foot rail static load test	5.3.9	10	1300N	N/A
3.9	Drop test	5.3.10	5	Drop height 600 mm	Pass
3.10	Foot rail fatigue test	5.3.11	50 000	1000N	N/A
3.11	Armrest vertical static load test	5.3.12	10	600N Overload 900N	N/A

## Appendix 2

**Test object**

Test object/ID: School chair/Samba Swivel

**Dimensions**

Width: 43 cm (seat)  
Height: 90.5 cm (adjusted in highest position)  
Seat height: 40 - 53 cm  
Stability dimension:  
(EN 1335-1:2000) 220 mm  
Mass: 6.8 kg

**Components**

Base: 5-winged in plastic  
Seat shell: Plastic  
Castors: Ø50 mm

Sampling: The test object was selected by the customer  
Date of arrival at  
RISE test laboratory: Chair: 2020-12-04  
Base: 2021-03-23  
Observed defects before testing: No defects

Appendix 3

**Pictures**



Figure 1



Figure 2



Figure 3



Figure 4