

Nordic Comfort Products A/S  
P.O. Box 3  
N-8640 HEMNESBERGET  
NORWAY

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

(3 appendices)

<b>Customer:</b>	Nordic Comfort Products A/S
<b>Test object/ID:</b>	School chair/Rio Z Jr
<b>Test method:</b>	EN 1729-2:2012+A1:2016 Furniture - Chairs and tables for educational institutions – Part 2: Safety requirements and test methods
<b>Scope:</b>	Complete test
<b>Date of test:</b>	2017-07-04 – 2017-07-05
<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>Additional information:</b>	The chair is tested as size 3

### RISE Research Institutes of Sweden AB Building Technology - Wood Technological Assessment

Performed by

Examined by

Bengt-Åke Andersson

Eva Sikander

### Appendices

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

### RISE Research Institutes of Sweden AB

Postal address	Office location	Phone / Fax / E-mail
Box 857	Brinellgatan 4	+46 10 516 50 00
SE-501 15 BORÅS	SE-504 62 BORÅS	+46 33 13 55 02
Sweden		info@ri.se

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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 ≥ 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

<b>2.</b>	<b>Stability</b>	<b>EN 1729</b>	<b>Req. fulfilled</b>
2.1	Forwards stability	5.2.2	Pass
2.2	Sideways stability of chairs without armrests	5.2.3.1	Pass
2.3	Sideways stability of chairs with armrests	5.2.3.2	N/A
2.4	Rearwards stability	5.2.4	Pass
2.5	Forwards stability for seating with footrest	5.2.1	N/A

Table 3

<b>3.</b>	<b>Strength, durability</b>	<b>EN 1729</b>	<b>Cycles</b>	<b>Load size 7</b>	<b>Req. fulfilled</b>
3.1	Seat and back static load test	5.3.2	10	Seat: 1600 N Back: 560 N	Pass
3.2	Leg sideways static load test	5.3.5	10	Under frame: 300 N Seat: 1300 N	Pass
3.3	Leg forward static load test	5.3.6	10	Under frame: 300 N Seat: 1300 N	Pass
3.4	Seat impact test	5.3.7	10	Drop height 240 mm	Pass
3.5	Back impact test	5.3.8	10	Drop height 330 mm	Pass
3.6	Foot rail static load test	5.3.9	10	1000 N	N/A
3.7	Drop test	5.3.10	5	Drop height 600 mm	Pass
3.8	Foot rail fatigue test	5.3.11	50 000	500 N	N/A

## Appendix 2

**Description of test Object**

Test object/ID: School chair/Rio Z Jr

**Dimensions**

Width: 430 mm

Depth: 418 mm

Height: 670 mm

Seat height: 354 mm

Mass: 3.65 kg

**Components**

Frame/legs: Steel tube Ø27 mm

Seat shell: Plastic

Sampling: The test object was selected by the customer

Date of arrival at  
RISE test laboratory: 2017-03-29

Observed defects before testing: No defects

## Appendix 3

**Pictures**

Figure 1



Figure 2

## Appendix 3



Figure 3



Figure 4