

Nordic Comfort Products A/S
P.O. Box 3
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NORGE

Testing of office work chairs according to EN 1335-2, -3 (3 appendices)

Customer:	Nordic Comfort Products A/S
Test object/ID:	Office work chair/R20 Pro
Test method:	EN 1335-2:2009 Office furniture - Office work chair - Part 2: Safety requirements EN 1335-3:2009 Office furniture - Office work chair - Part 3: Test methods
Scope:	Complete test
Date of test:	2016-01-26 – 2016-05-02
Test result:	The tested object passed the test Information of use has not been assessed
Reservation:	The test results in this report apply only to the particular Equipment Under Test (EUT)
Test environment:	23 ± 2°C and 50 ± 5% relative humidity
Additional information:	

SP Technical Research Institute of Sweden Sustainable Built Environment - Wood Technological Assessment

Performed by

Examined by

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Appendices

1. Test result (2 pages)
2. Description of 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 1335-2	Result
1.1	<p>Distance between accessible movable parts shall be either ≤ 8 mm or ≥ 25 mm in any position during movement</p> <p>Accessible corners shall be rounded with minimum 2 mm radius</p> <p>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 minimum 2 mm radius</p> <p>Edges of handles shall be rounded with minimum 2 mm radius in the direction of the force applied</p> <p>All other edges shall be free from burrs and shall be rounded or chamfered</p> <p>Ends of accessible hollow components shall be closed or capped</p> <p>Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided</p> <p>It shall be possible to operate the adjusting devices from sitting position in the chair</p> <p>Load bearing parts shall not come loose unintentionally</p> <p>All parts which are lubricated to assist sliding (greasing, lubricating, etc.) shall be designed to protect users from lubricant stains when in normal use</p>	4.1	Pass
1.2	Information for use	5	Not assessed

Table 2

2.	Stability	EN 1335-3	Result
2.1	Front edge overturning	7.1.1	Pass
2.2	Forwards overturning	7.1.2	Pass
2.3	Forwards overturning for chairs with footrest	7.1.3	N/A
2.4	Sideways overturning for chairs without arm rests	7.1.4	N/A
2.5	Sideways overturning for chairs with arm rests	7.1.5	Pass
2.6	Rearwards overturning	7.1.6	Pass
2.7	Rearwards overturning for chairs with adjustable back rest inclination	7.1.7	Pass

Appendix 1

Table 3

3.	Strength, durability (safety)	EN 1335-3	Cycles	Load EN 1335-2	Result
3.1	Seat front edge - Static load test	7.2.1	10	1600 N	Pass
3.2	Seat and back – Static load test	7.2.2	10	Seat: 1600 N Back: 560 N	Pass
3.3	Foot rest – Static load test	7.2.6	10	1300 N	N/A
3.4	Seat and back - Position A	7.3.1	120 000	1500 N	Pass
3.5	Seat and back - Position C-B	7.3.1	80 000	Seat: 1200 N Back: 320 N	Pass
3.6	Seat and back - Position J-E	7.3.1	20 000	Seat: 1200 N Back: 320 N	Pass
3.7	Seat and back - Position F-H	7.3.1	20 000	Seat: 1200 N Back: 320 N	Pass
3.8	Seat and back - Position D-G	7.3.1	20 000	1100 N	Pass
3.9	Armrests – Fatigue testing	7.3.2	60 000	400 N	Pass
3.10	Armrests – Vertical static load (Before stability test)	7.3.3	5	750 N	Pass
3.11	Armrests – Vertical static load (After stability test)		5	900 N	Pass
3.12	Rolling resistance	7.4		≥ 12 N	Pass

Table 4

4	Functional tests	EN 1335-3	Cycles	Load	Result
4.1	Armrests – Vertical static load (front edge)	7.2.4	5	450 N	Pass
4.2	Armrests – Horizontal static load	7.2.5	10	400 N	Pass
4.3	Swivel test	7.3.3	120 000	Pos. A 60 kg Pos. B 35 kg	Pass
4.4	Foot rests – Fatigue test	7.3.4	50 000	900 N	N/A
4.5	Castor and chair base durability	7.3.5	36 000	Pos. A 110 kg	Pass

Appendix 2

Description of test object

Test object/ID: Office work chair/R20 Pro

Dimensions

Seat height: 400 – 525 mm

Mass: 23.2 kg

Components

Base: 5 winged swivel base in plastic

Seat: Moulded plywood and flexible foam

Backrest: Moulded plastic and flexible foam

Armrest: Flat bar 55x6 mm, tray in plastic

Castors: Ø50 mm

Functions:

Seat: Tilttable , adjustable in depth and height

Backrest: Tilttable and adjustable in height

Armrests: Adjustable in height, depth and width

Sampling: The test object was selected by the customer

Date of arrival at
SP test laboratory: 2015-12-28

Observed defects before testing: No defects

Appendix 3

Pictures



Figure 1



Figure 2



Figure 3



Figure 4