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NORWAY

## Testing of Pony saddle stool

(1 appendix)

### Summary

Pony saddle stool meet the requirements for strength and security according to EN 1335-2:2009 and EN 1335-3:2009.

### 1 Introduction

On behalf of Nordic Comfort Products A/S, a Pony saddle stool has been tested at SP in accordance with EN 1335:2009 Office furniture - Office work chair - Part 2: Safety requirements and Part 3: Test methods.

### 2 Test specimen



**Figure 1 Pony saddle stool**

Frame:	Five-winged swivel base in steel, gas spring
Seat:	Moulded wood board, upholstery in flexible foam and leatherette, tiltable 10°
Castors:	Ø50 mm
Footrest	In steel tube Ø20 mm, adjustable in height
Seat height:	Adjustable 620 - 870 mm
Stability-dimension:	225 mm according to EN 1335-1:2000 clause 6.18
Other info:	Mass 10,3 kg

The test specimen was selected by the customer and arrived at SP 2014-05-26.

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### 3 Test methods and test procedure

The test was carried out according to EN 1335:2009 Office furniture - Office work chair - Part 2: Safety requirements and Part 3: Test methods.

The test was carried out in a climate of 23±2°C and 50 ±5% relative humidity. The test methods are explained in table 1 – 3.

The test was carried out 2014-08-12 – 2014- 09-29.

### 4 Results

**Table 1**

1.	General requirements	EN 1335-2	Result
1.1	Distance between accessible movable parts shall be either ≤ 8 mm or ≥ 25 mm in any position during movement	4.1 a	Passed
1.2	Accessible corners shall be rounded with minimum 2 mm radius	4.1 b	Passed
1.3	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	4.1 c	Passed
1.4	Edges of handles shall be rounded with minimum 2 mm radius in the direction of the force applied	4.1 d	Passed
1.5	All other edges shall be free from burrs and shall be rounded or chamfered	4.1 e	Passed
1.6	Ends of accessible hollow components shall be closed or capped	4.1 f	N/A
1.7	Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided.	4.1.2	Passed
1.8	It shall be possible to operate the adjusting devices from sitting position in the chair	4.1.2	Passed
1.9	Load bearing parts shall not come loose unintentionally	4.1.3	Passed
1.10	All parts which are lubricated to assist sliding (greasing, lubricating, etc.) shall be designed to protect users from lubricant stains when in normal use	4.1.4	Passed
1.11	Information for use	5.	Not assessed

**Table 2**

2.	Strength, durability (safety)	EN 1335-3	Cycles	Load	Result
2.1	Seat front edge - Static load test	7.2.1	10	1600 N	Passed
2.2	Seat and back – Static load test	7.2.2	10	Seat: 1600 N Back: 560 N	Passed N/A
2.3	Foot rest – Static load test	7.2.6	10	1300 N	Passed

2.	Strength, durability (safety)	EN 1335-3	Cycles	Load	Result
2.4	Seat and back - Position A	7.3.1	120 000	1500N	Passed
2.5	Seat and back - Position C-B	7.3.1	80 000	Seat: 1200 N Back: 320 N	Passed N/A
2.6	Seat and back - Position J-E	7.3.1	20 000	Seat: 1200 N Back: 320 N	Passed N/A
2.7	Seat and back - Position F-H	7.3.1	20 000	Seat: 1200 N Back: 320 N	Passed N/A
2.8	Seat and back - Position D-G	7.3.1	20 000	1100 N	Passed
2.9	Armrests – Fatigue testing	7.3.2	60 000	400 N	N/A
2.10	Armrests – Vertical static load (Before stability test)	7.3.3	5	750 N	N/A
2.11	Armrests – Vertical static load (After stability test)		5	900 N	N/A
2.12	Rolling resistance $\geq 12$ N	7.4			Not tested <sup>1</sup>

<sup>1</sup>The manufacturer offers castors with different rolling resistance depending on the type of flooring

**Table 3**

3.	Stability	EN 1335-3	Result
3.1	Front edge overturning.	7.1.1	Passed
3.2	Forwards overturning.	7.1.2	Passed
3.3	Forwards overturning for chairs with footrest	7.1.3	Passed
3.4	Sideways overturning for chairs without arm rests	7.1.4	Passed
3.5	Sideways overturning for chairs with arm rests	7.1.5	N/A
3.6	Rearwards overturning for chairs without back rest inclination	7.1.6	N/A
3.7	Rearwards overturning for chairs with adjustable back rest inclination	7.1.7	N/A

## 5 Conclusion

At the end of the test, the tested piece did not exhibit any faults, fractures or other damage judged to affect its safety and functions when used in accordance with EN 1335:2009. Rolling resistance according to EN 1335-3 clause 7.4 was not tested (see table 2).

The test results apply solely to the specimen tested.

### **SP Technical Research Institute of Sweden Wood Technology**

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### **Appendix**

1. Pictures (1 page)

## Appendix 1

### Pictures



**Figure 1 Front view**



**Figure 2 Side view**



**Figure 3 View from behind**



**Figure 4 Saddle, underneath**



**Figure 5 Swivel base, underneath**