

Scandinavian Business Seating Holding
Box 294
571 23 NÄSSJÖ
Sweden

Testing of RH Visit chair

Summary

RH Visit chair meet the requirements for strength and security according to EN 13761:2002.

1 Introduction

On behalf of Scandinavian Business Seating Holding, a RH Visit chair has been tested at SP in accordance with EN 13761:2002 Office furniture - Visitors chairs.

2 Test specimen



Figure 1 RH Visit

Frame: Steel tube Ø18 mm, flat iron 4x25x210 mm
Fastening plate in flat iron 4x200x200 mm
Seat /back: Moulded wooden board
Upholstery: Flexible foam
Functions: Suspension (rocking) by rubber bushings

The test specimen was selected by the customer and arrived at SP 2012-11-05 and additional incoming delivery 2013-04-16.

SP Technical Research Institute of Sweden

Postal address
SP
Box 857
SE-501 15 BORÅS
Sweden

Office location
Västeråsen
Brinellgatan 4
SE-504 62 BORÅS

Phone / Fax / E-mail
+46 10 516 50 00
+46 33 13 55 02
info@sp.se

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3 Test methods and test procedure

The test was carried out according to:

- EN 13761:2002 Office furniture - Visitors chairs
- EN 1022 Domestic furniture – Seating – Determination of stability

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 2012-12-10 – 2013-01-09 and 2013-05-23.

4 Results

The result is reported in table 1- 5.

Table 1

1.	General requirements	EN 13761	Results
1.1	Safety distance of accessible movable parts shall be either ≤ 8 mm or ≥ 25 mm in any position during movement;	5.1.1	√
1.2	Accessible corners are rounded with minimum 2 mm radius	5.1.1	√
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	5.1.1	√
1.4	Edges of handles shall be rounded with minimum 2 mm radius in the direction of the force applied	5.1.1	-
1.5	All other edges are free from burrs and rounded or chamfered	5.1.1	√
1.6	Ends of hollow components shall be closed or capped	5.1.1	√

Table 2

2.	Dimensions	Requirements	EN 13761	Results
2.1	Fixed seat height	400 – 500 mm	4.1.1	440 mm
2.2	Adjustable seat height:	420 – 480 mm	4.1.1	-
2.3	Seat depth:	380 – 470 mm	4.1.2	450 mm
2.4	Seat width:	≥ 400 mm	4.1.3	415 mm
2.5	Distance between arm rests	≥ 460 mm	4.1.4	-

Table 3

3.	Rolling resistance	EN 1335	Results
3.1	Castors type H ≥ 15 N,		N/a
3.2	Castors type W ≥ 12 N		N/a
3.3	All castor shall be of identical construction		N/a

Table 4

4.	Stability	EN 1022 / EN 1335	Results
4.	The seating shall not overturn. The stability requirements shall be fulfilled before and after the tests specified in table 3 – Strength, durability.		√

Table 5

5.	Strength, durability	EN 1728	Cycles	Loading	Results
5.1	Seat and back static load test.	6.2.1	10	Seat: 1600 N Back: 560 N	√
5.2	Seat front edge static load test.	6.2.2	10	1300 N	√
5.3	Additional seat and back static load test for tilting chairs, reclining chairs and loungers.	6.3		Loads according to formulas in SS-EN 1728	-
5.4	Foot rail/foot rest and leg rest static load test.	6.4	10	1000 N	-
5.5	Arm sideways static load test.	6.5	10	400 N	-
5.6	Arm downwards static load test.	6.6	10	700 N	-
5.7	Seat and back fatigue test.	6.7	100 000	Seat: 1000N Back: 300N	√
5.8	Additional seat and back fatigue test for tilting chairs, reclining chairs and loungers.	6.9	100 000	Loads according to formulas in SS-EN 1728	-
5.9	Seat front edge fatigue test.	6.8	50 000	1000 N	√
5.10	Arm fatigue test.	6.10	30 000	400 N	-
5.11	Leg forward static load test.	6.12	10	Seat: 1000N Under frame: 500N	√
5.12	Leg sideways static load test.	6.13	10	Seat: 1000N Under frame: 400N	√
5.13	Seat impact test.	6.15	10	Drop height 180 mm	√

- √ The test has been completed without any remarks
- ⊗ The requirement is not fulfilled
- Test is not relevant / not tested

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 13761:2002.

The test results apply solely to the specimen tested.

SP Technical Research Institute of Sweden Wood Technology

Performed by

Examined by

Bengt-Åke Andersson

Hans Eriksson