

Testreport

No Q MBL N 938 1677e

Reported to:

HÅG asa

7366 RØROS

Norway

Object:

Visitor's chair model range "HÅG Sideways" models 9730, 9740 (skid base chair, stackable)

models 9732, 9742 (conference swivel chair) (4 sample supplied by the manufacturer)

Order:

Safety test following DIN EN 13 761 and DIN EN 1728,

as well as DIN 68 878 for of the GS-Label

Findings:

The test contained the following safety technical criteria according to the Equipment and Product Safety Act:

Functional dimensions, workmanship, stability, as well as static and dynamic load. The tests for contractual use were carried out following DIN EN 13761, ed. 12. 2002 in connection with DIN EN 1728, ed. 08.2004, as well as DIN 68 878 part 1, ed. 01.1987 (tilt-fall-test with 80 000 cycles total).

Strength and stability showed no failure and meet the requirements for contractual use.

Technical data and details of the test are on the following pages.

Note:

In connection with the signed outline agreement the permission to use the GS-Label is given.

Nürnberg, 11/08/2008, modiefied 14/08/2008

Q MBL N hy/ra/şe

LGA QualiTest GmbH Furniture Test Institute

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Test Results

Object

Article:

Visitor's chairs model range "HÅG Sideways"

Model:

models 9730, 9740 (skid base chair, stackable)

models 9732, 9742 (conference swivel chair)

Number of samples:

4

Delivered:

09.07. and 15.07.2008

Reg. No.:

Reg. 645-1/2 und 660-1/2

Delivered by:

HÅG asa

Scope of tests

General examination

Safety test following DIN EN 1728, ed. 08.2004, in connection with DIN EN 13 761, ed. 12.2002, DIN EN 1335, part 2 and part 3, ed. 08.2002 and DIN EN 1022, ed. 09.2005, DIN 68 878, part 1, ed. 01.1987 tilt-fall-test 80 000 cycles for contractual use.

Functional dimensions

Workmanship

Stability

Corrosion test

Dynamic test

Static test

PAH-risk analysis

Applicability of test results

The test results refer solely to the samples tested. The digital pictures shown in this report are for additional information only and are not part of this report.

Measurement incertainty

Unless otherwise stated all dimensions are measured to an accuracy according to DIN 7168-g for old constructions resp. DIN ISO 2768 part 1 "c" for new constructions. For all other physical values the measurement incertainty is < 5 %. The test has been carried out at standard climate 23 °C/50 % r.h.



General examination

Dimensions (mm)

 models
 9730
 9740

 Overall height:
 860 mm
 860 mm

 Overall widht:
 595 mm
 595 mm

 Overall depth:
 645 mm
 645 mm

 Weight:
 10,0 kg
 10,4 kg

Brief description of the sample

- Skid bas visitor's chair with tilt action, stackable
- Skid frame made of round steel rod
 Ø 12 mm, multiple bended, fixed on two
 pivot points each, with four glides
- Plain bearings made of plasic (POM), as well as shaped steel clambing plate with four mounting screws M6 x 50 mm fixed to the seat shell
- Seat and backrest incl. armrest bow made of plastic (PP) from comp. Plastunion
- Backrest lattice shaped, optional with fully upholsery



























Dimensions (mm)

 models
 9732
 9742

 Overall height:
 830 mm
 830 mm

 Overall widht:
 530 mm
 530 mm

 Overall depth:
 685 mm
 685 mm

 Weight:
 10,1 kg
 10,4 kg

Brief description of the sample

- -Visitor's swivel chairs with tilt action
- Swivel column not height adjustable from SUSPA
 - Type 17 04-19 DIN 4550-4 04 08 /1 outer diameter of the bearing tube of the gas spring 28 mm.
- Seat and backrest incl. armrest bow made of plastic (PP) from comp. Plasunion
- Backrest lattice shaped, optional with fully upholstery
- Chair base with four beams made of alu die-casting
- Denomination: 1 N 126162 AL 4250
- 4 glides made of plastic, at the end of the base beams



















	Q MBL N 938	Q MBL N 938 1677e	
Inspection Characteristic/Requirement	Results	+ passed - failed ./. n. a.	
Technical tests			
Functional dimensions (mm) (DIN EN 13 761 Pkt. 4)	Requirement met		
Seat height: a 400 to 500 mm (measured with template as in DIN EN 1335 - 1)	458 (skid base) 452 (swivel chair)	+	
Seat depth: b 380 to 470 mm (measured 230 mm above the loaded seat)	460/470	+	
Seat width: d mind. 400 mm	490	+	
Distance between arm rests r mind. 460 mm	./.	./.	
Maximum offset of the s 365f)	395	./.	
Stability dimension t 195 min.	288	+	
Workmanship	Requirement met		
- Corners and edges shall have no burrs and shall be cut off or rounded (haptic test);		+	
- Chairs made of wood shall be free of quality reducing knots, insect bites, rotting and dulls		./.	
- All metal parts visible during intended use shall be corrosion resistant		+	
- Chemical tests (PAHs)		+	

¹⁾ Note: The accessibility and the sellection of the materials show no suspition concerning a PAH-risk (see dokument ZEK 01.01-08 of ZLS).



	Inspection Characteristic/Requirement	Results		+ passed - failed ./. n. a.
(Corrosion test	Requirements me	et	
7	Test condition			
7	Test to DIN EN ISO 6270 part 2, ed. 09.2005			
5	Stability	Requirements mo	et	
7	Fest conditions Fest to DIN EN 1022, ed. 09.2005/1335, ed. 08.2002 Filting to the front Load 60 kg + 20 N	skid base chair 50 N without gl.	swivel chair >100 N	r
7	Filting to the side without armrests - Load 60 kg + 20 N Filting to the side with armrests Load 25 kg / 35 kg + 20 N	>100 N 27N.	>100 N 21 N	
s s H	Filting to the rear. Seat load 60 kg kid base chair: Backrest load 154.8 N (Seat height 458 mm) wivel chair: Backrest load 156.6 N (Seat height 452 mm) Front edge overturning to DIN EN 1335, part 3, cl. 5.1 Load >27 kg	250 N up to 50 kg only so	240 N wivel chair	
	Requirements No overturning under test load according to DIN EN 13761 and DIN EN 1335, cl. 5			+
To be the same of				



Inspection Characteristic/Requirement

Results

+ passed - failed ./. n. a

Test of static and dynamic strength For four legged chairs

Tilt-fall-test following DIN 68 878, part 1, ed. 01.1987

Test conditions

Height of the tilted legs: 30 mm Test frequency: 10 min⁻¹

Proof load forwards and rearwards: 850 N Proof load to the left and right: 425 N

Point of entry above the loaded seat: 300 mm

Number of cycles each test sequence: 20 000*)

Requirements

No fractures or significant deformation, that affects the safe use of the chair, may occur

*) increased number of cycles for chairs for contractual use

Static test of the backrest

Test conditions

Seat load:

850 N

Back load static

90° to the inclination:

750 N

Point of entry above the

loaded seat:

300 mm

Period of the stress:

10 min

Requirements

No fractures or significant deformation, that affects the safe use of the chair, may occur

Requirements met





Requirements met



-



Inspection Characteristic/Requirement	Results	+ passed - failed ./. n. a.
of static and dynamic strength	Requirements met	
mbering to DIN EN 1728:2004)		i
Conditions		
Static load of seat and back		+
10 cycles		
Seat load 1.600 N,		
Back load 560 N, reduced to 410 N	A STATE OF THE PARTY OF THE PAR	
2 Static load of seat front edge		+
Seat load 1.300 N,		
Horizontal static load test		+
of the armrests		
10 cycles; load 400 N		
Vertical static load test	A	+
of the armrests		
10 cycles; load 700 N		
Combined seat and back fatigue test		+
100 000 cycles, load 1000 N/300 N	OFF	
Seat front edge fatigue test		+
50 000 cycles, load 1000 N		
Arm fatigue test		+
30 000 cycles, load 400 N	Marie Constant	
Leg forward static load test		./.
10 cycles, load 500 N		
Leg sideways static load test		./.
10 cycles, load 400 N		
	of static and dynamic strength le 1 Inbering to DIN EN 1728:2004) Conditions Static load of seat and back 10 cycles Seat load 1.600 N, Back load 560 N, reduced to 410 N Static load of seat front edge 10 cycles Seat load 1.300 N, Horizontal static load test of the armrests 10 cycles; load 400 N Vertical static load test of the armrests 10 cycles; load 700 N Combined seat and back fatigue test 100 000 cycles, load 1000 N/300 N Seat front edge fatigue test 50 000 cycles, load 1000 N Arm fatigue test 30 000 cycles, load 400 N Leg forward static load test 10 cycles, load 500 N Leg sideways static load test	of static and dynamic strength le 1 Inbering to DIN EN 1728:2004) Conditions Static load of seat and back 10 cycles Seat load 1.600 N, Back load 560 N, reduced to 410 N Static load of seat front edge 10 cycles Seat load 1.300 N, Horizontal static load test of the armrests 10 cycles; load 400 N Vertical static load test of the armrests 10 cycles; load 700 N Combined seat and back fatigue test 100 000 cycles, load 1000 N/300 N Seat front edge fatigue test 50 000 cycles, load 1000 N Arm fatigue test 30 000 cycles, load 400 N Leg forward static load test 10 cycles, load 500 N Leg sideways static load test



Inspection Characteristic/Requir	ement	Results	+ passed - failed ./. n. a.
6.15 Seat impact test Drop height 180 mm 10 cycles Requirements No fracture or deformation that interfere was afe use of the chair may occur	with		+
User's information Each chair shall be accompanied by informing the language of the country in which it delivered to the end user. It shall contain at least the following detains. Information about the intended use	will be	Requirements met 1)	+
Information on care&maintenance			+
Marking Name or label of manufacturer to GPSG § 5 Abs. 1 b Type designation to GPSG § 5 Abs. 1 b Year of construction	HAG Sideways 9742 0801064751 FM60999 3/0001237729-1000	Requirements met	+
Marking of gas spring (DIN 4550 cl. 7)	O6G608	Requirements met	
Manufacturer		Suspa	+
Type designation		Type 17 - 04-19	+
Classification Date of production - week/year		DIN 4550-4 11 07 /1	+
,,,our		11 0//1	

1)Standard fitting when selling

A risk analysis to GPSD was carried out. The check does not include a full check in the sense of the DIN EN 62 079.