

## Test- report

No. IWQ MBL 732 1676/1

**Client:** HÅG asa  
P.O. Box 5055 Majorstua  
  
0301 Oslo  
Norwegen

**Object:** Visitor's swivel chair „H05“  
(2 samples supplied by the client)

**Order:** Safety test following E DIN EN 1728  
and DIN EN 13 761

### Findings:

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

Functional dimensions, workmanship regarding DIN VDE 1000, ed. 03.1979 and DIN 31 001, ed. 04.1983, resp. DIN EN 292, Part 1, ed. 11.1991 and Part 2, ed. 06.1995, DIN EN 294, ed. 08.1992, DIN EN 349, ed. 06.1993 as well as stability to DIN EN 1022, ed. 01.1997, static and dynamic load. The tests were carried out following E DIN EN 1728, ed. 04.1995, and the requirements are laid out in DIN EN 13761, ed. 12.2002.

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

The following pages contain technical data and detailed test conditions and requirements.

Note: The visitor's swivel chair does not to be marked as an office work chair.

Nuremberg, 18.12.02  
IWQ / hy / ra/ bed

LGA - PRODUCTS Division  
Institute for Product Testing  
and Quality Control

Competence Center IWQ MBL

  
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Test technician

  
Franz Rackl

The test report consists of 7 pages.

## Test results

### Object

Article:	Visitor's swivel chair model, „H05“
Type/Model:	"5372" and "5472"
Number of samples:	each 1
delivered:	24.10.2002
delivered by:	HAG

### Scope of tests

General examination

Safety test following E DIN EN 1728, ed. 04.1995, with regard to DIN EN 13761, ed. 12.2002 and DIN EN 1022, ed. 01.1997

Functional dimensions

Workmanship

Stability

Corrosion test

Dynamic load test

Static load test

### 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 uncertainty

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 uncertainty is  $< 5 \%$ .

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## General examination

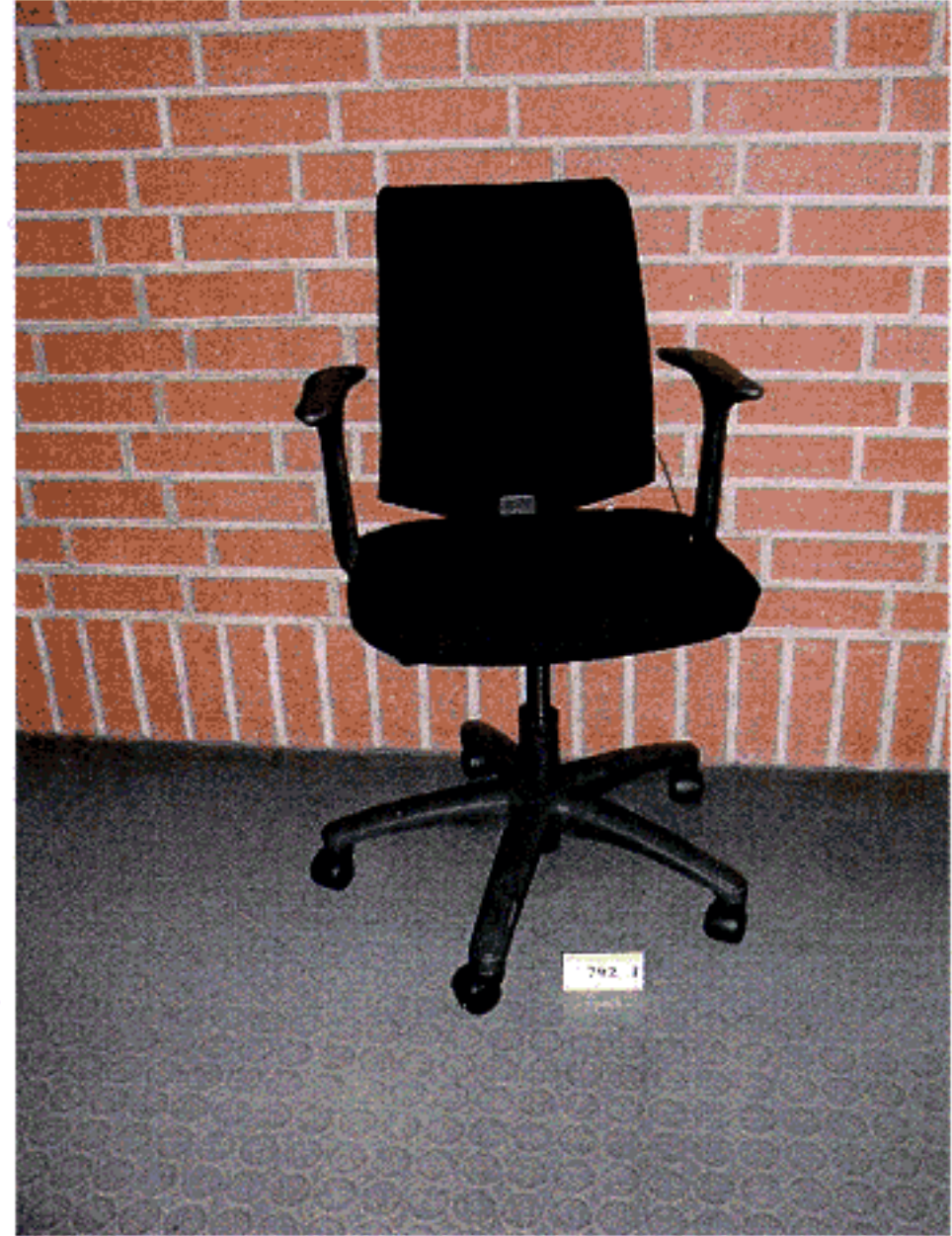
### Overall dimensions (mm)

Height: 830 - 970  
Width: 560  
Depth: 580

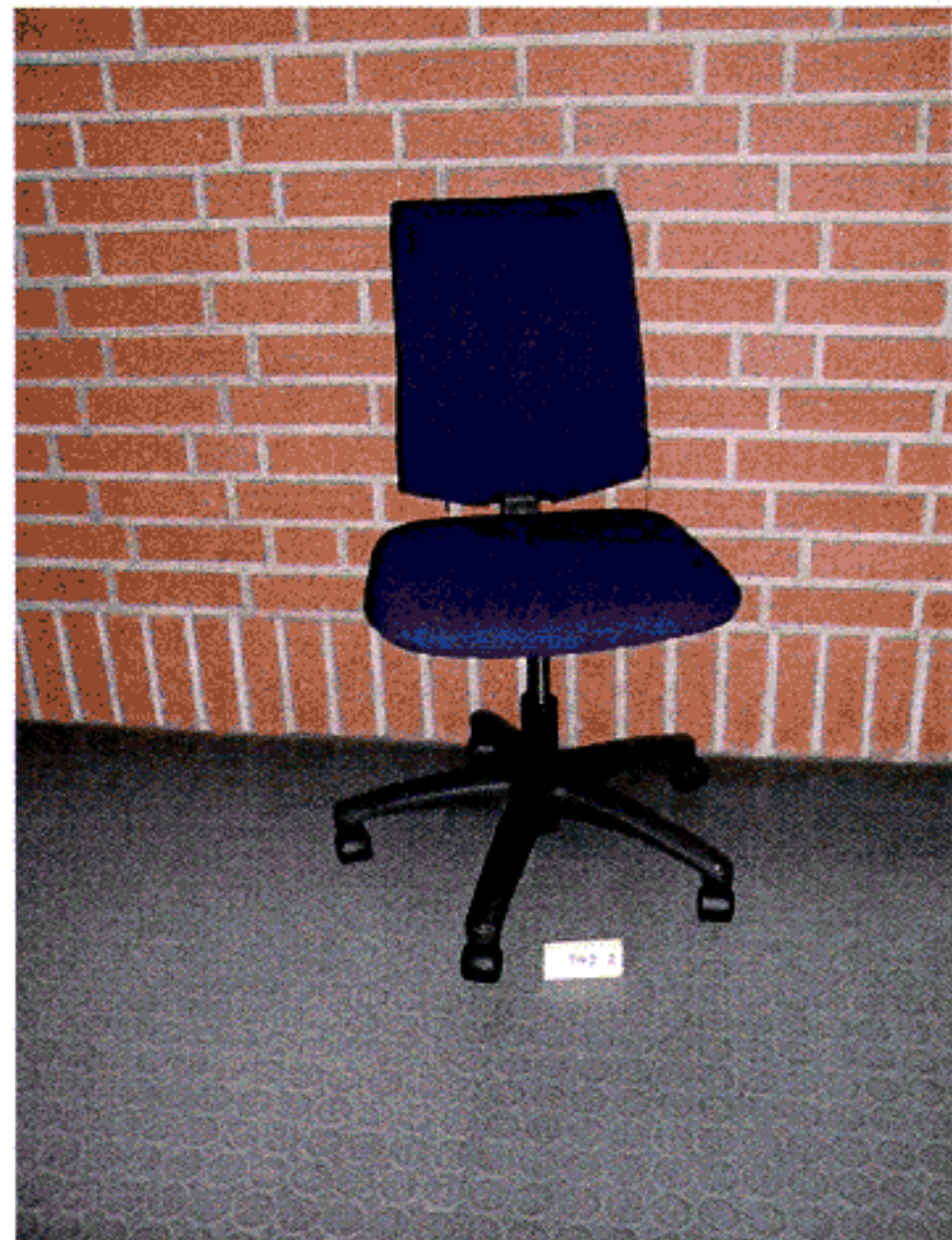
Weight: 9,0 kg

### Brief description of the sample

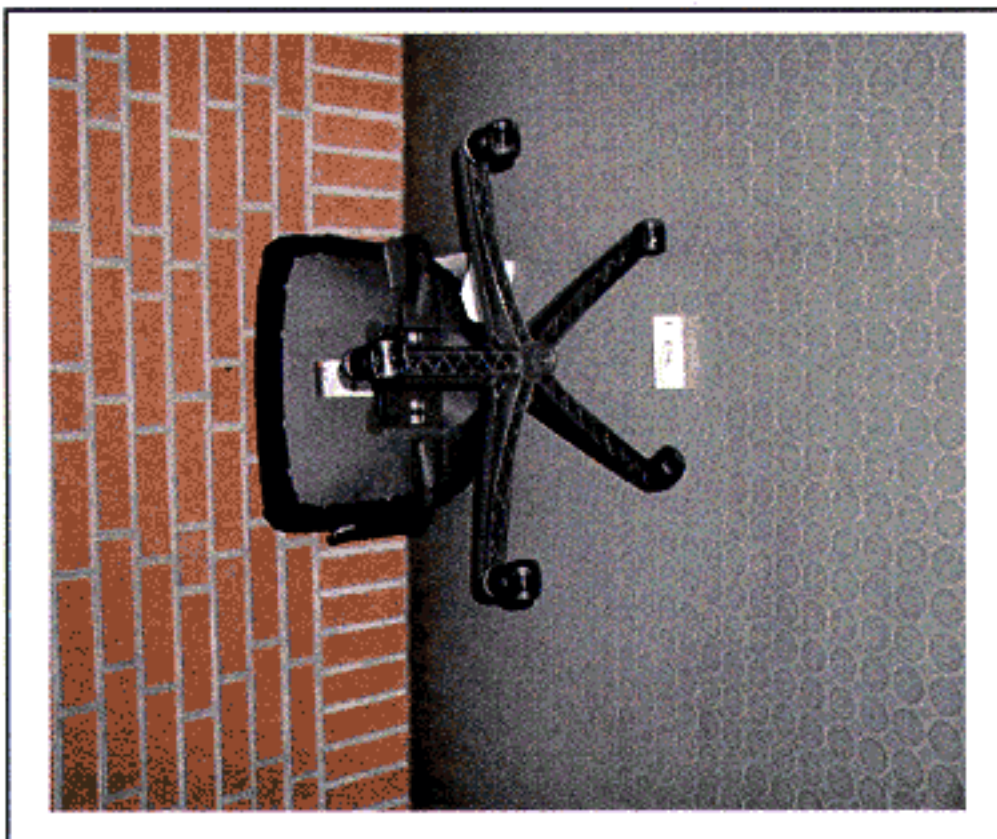
- Seat height adjustable by means of gas spring from SUSPA  
Type 17 - 04-26 DIN 4550-4 06 02  
Outer diameter of the bearing tube of the gas spring 28 mm.
- Seat mechanism with tilt action
- Seat and back padded and upholstered
- Armrests made of plastic (PA6GF), inserted and screwed (M8x35) at the seat.
- Chair base made of plastic (PAGF)
- 5 break unloaded twin wheel casters  
Type H for textile floor covering
- Marking on casters: GR
- Caster manufacturer: Guy Raymond



Model 5472



Model 5372



Prüfkriterium / Anforderung	Ergebnis	+ positiv - negativ ./.entfällt
<b>IWQ MBL 732 1676/1</b>		
<b>Technical tests</b>		
<b>Functional dimensions (mm)</b> (EN 13761 P. 4)		
Seat height            a        400 to 500 mm (measured with template to EN 1335 - 1)	Requirements met  375 - 471	+
Seat depth:            b        380 to 470 mm (measured 230 mm above loaded seat)	416	+
Seat width:            d        min. 400 mm	425	+
Distance between armrests	463	+
<b>Workmanship</b>		
- Accessible corners and edges without burrs; cut off or rounded (haptic test);	Requirements met	+
- wooden chairs shall not have depreciating knots, insect bites, rotting and tree edges		./.
- all visible parts during normal use made of metal shall be corrosion resistant		+
<b>Rolling resistance</b> DIN EN 1335-3, cl. 6.1		
	Requirement met Type "H" 18 N	+



Prüfkriterium / Anforderung	Ergebnis	+ positiv - negativ ./entfällt
<p><b>Static and dynamic strength test</b> (EN 1728)</p> <p><b>Test conditions</b></p> <p>6.2.1 Static load of seat and back 10 cycles Seat load 1600 N, Back rest load 560 N, reduced to 410 N</p> <p>6.2.2 Static load of seat, 80 mm behind the front edge 10 cycles Seat load 1300 N,</p> <p>6.5 Static horizontal load of arm rests and head rest 10 cycles Load 400 N</p> <p>6.6 Vertical downward load of arm rests 10 cycles Load 700 N</p> <p>6.15 Seat impact test Drop height 180 mm 10 cycles</p> <p>6.7 Combined seat and back durability test Load 1000 N/330 N 100 000 cycles</p> <p>6.8 Seat front edge durability test 1000 N 50 000 cycles</p> <p><b>Requirements</b></p> <p>No fractures or deformations may occur that could affect the safe use of the chair.</p>	<p>IWQ MBL 732 1676/1</p> <p>Requirements met</p>	<p>+</p> <p>+</p> <p>+</p> <p>+</p> <p>+</p> <p>+</p> <p>+</p> <p>+</p> <p>+</p>

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Prüfkriterium / Anforderung

Ergebnis

+ positiv  
- negativ  
./entfällt

**User's information**

(EN 1335-2 cl. 5)

Information how to operate the unit  
Information on the type of chair and how to operate the adjustment settings.  
Information on the use of the adjustment device  
Information on care & maintenance  
Information on seat- and back rest adjustments  
For chairs provided with seats adjustable in height by energy storage elements an additional information is required that only trained personnel may replace or repair the energy storage elements.  
Information as to the type of castors with respect to the flooring

Requirements met

+  
  
+  
+  
+  
+  
+  
  
+

**Marking of the chair**

(DIN 4551 cl.. 8)

Name or label of manufacturer  
Type designation  
Year of construction

Requirements met

+  
+  
+

**Marking of gas spring**

(DIN 4550 cl. 7)

Manufacturer  
Type designation  
Classification  
Date of production - week/year

Requirements met

+  
+  
+  
+