

Test- report

Nr. **Q MBL 939 1916**

Reported to: Backapp AS
Grenseveien 26
1929 Auli
Norway

Object: Alternativ seating for office use "Backapp Office"
(1 sample supplied by the manufacturer)

Order: Safety test (assumption of the GS-Label)

Findings:

The alternativ seating for office use "Backapp Office" has been tested for strength, durability and stability. The test were carried out following DIN EN 1335, part 1, part 2 and part 3, ed. 08.2002, following DIN 68 877, ed. 07.1981 and to DIN 4550, ed. 12.2004 considering the state of art of safety technique under consideration of the GPSD.

The alternativ seating for office use "Backapp Office" **meets** the set requirements in accordance with the GPSG (EU-Directive 2001/95/EG).


When delivering the "backapp office" in Germany it must be marked according to the DIN 4550 (see page 6).

Nuremberg, 2009-11-25
Q MBL N hy/bir/pi

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Test Results

Object

Article:	alternativ seating for office use
Model:	"Backapp Office"
Number of samples:	1
Samples	
Delivered by:	Backapp
Delivered:	11.09.2009
ID-No.:	10026294
Acompaning documents:	Description for assembly and instructions for use

Scope of tests

General examination

Technical tests

- Dimensions to DIN EN 1335-1
- Safety Requirements to DIN EN 1335-2
- Durability seat centre to DIN EN 1335-3
- Alternating bending load on seat and back to DIN EN 1335-3
- Alternating bending load on footring following DIN 68 877
- Stability to DIN EN 1335-3
- Base test static to ANSI/BIFMA X5.1
- Instruction Manual to DIN EN 1335-2
- Marking of the chair to DIN 4551
- Marking of the Gas cylinder to DIN 4550

Applied standards

DIN EN 1335-1, ed. 08.2002	Office work chair – Part 1: Dimensions
DIN EN 1335-2, ed. 08.2002	Office work chair – Part 2: Safety requirements
DIN EN 1335-3, ed. 08.2002	Office work chair – Part 3: Safety test methods
DIN 68 877, ed. 07.1981	Swiveling work chair – Safety requirements, testing
DIN 4550, ed. 12.2004	Self-supporting energized devices for the height adjustment of office work chairs; Safety requirements, testing
ANSI/BIFMA X5.1, ed. 2002	General-Purpose Office Chairs - Tests

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 %.

The test has been carried out at standard climate 23 °C/50 % r.h.

General examination

Brief description of the samples

- Seat height adjustable by means of gas spring from Suspa
- Denomination of gas spring: Suspa DIN 4550 Klasse 3 Type 17-04-19, 06 08 /I
- Seat mechanism made of alu cast with steel lever for the gaslift release, from Suspa, fixed with 4 screws 6.0 x 30 mm
- Seat made of plastic, padded and upholstered with fabric
- Red balance adjustment ball DRYFLEX 600800 (thermoplastic polymere)
- Base made of a hard plastic ring with a black soft plastic tube glued underneath; the gaslift housing is mounted to the hard plastic ring by 5 steel struts \varnothing 10 mm via 2 torx screws each strut 5.0 x 19 mm
- Weight: 7.1 kg

Photos



Photo1: Backapp office - full view



Photo 3: Backapp office – footring view from underneath



Photo 4: Backapp office - view from underneath



Photo2: Backapp office - rear view

Technical Test

Dimensions following EN 1335-1 - Office work chairs Backapp office

Denomination/code letter	nominal size (mm) (type B)	actual size (mm)	
Seat height ^{a)} adjustment range	a ≤ 420 to ≥ 510 100 min.	545 - 722 177	+1) +
Seat depth	c 380 min.	375	+2)
Seat width	d 400 min.	470	+
Max. span of the base ^{e)}	s 365 max	605	+3)
Stability dimension	t 195 min.	605	+3)

Remark 1: due to its function as alternativ seating device acceptable; max. hight without load = 845 mm

Remark 2: due to the shape of the seat as saddle type acceptable

Remark 3: due to the ring as foot resting device and because of the lack of castors acceptable

a) The limits of the minimum adjustable range consider work heights of min 680 mm to 780 mm. Some users need a foot rest.

e) When castors are used the requirement is: 415 mm.



Photo 4: Backapp office – footring



Photo 5: Backapp office –turnable plasticball for adjusting the balancing effect with marking indicated



Photo 6: Downward durability




Photo 7: Side-to-side test - seat




Photo 8: Side-to-side on footring

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Test Requirements	Results	+ positive - negative ./ not applicable
<p>Safety *) (EN 1335-2 cl. 4.1 and DIN 68 877)</p> <p>Edges and corners, shearing and crushing points Adjustment devices Joints Soiling Footring slip resistant</p> <p>Seat (EN 1335-3 cl. 7 and 8)</p> <p>Durability test seat centre (see photo 6) Alternate bending load - lateral (see photo 7)</p> <p>Footbase (following EN 1335-3 and DIN 68 877)</p> <p>Alternate bending load - lateral (see photo 8)</p> <p>Stability (EN 1335-3 cl. 5)</p> <p>Forwards overturning Sideways overturning Rearward overturning</p> <p>Footbase (ANSI/BIFMA X5.1, cl. 7)</p> <p>Test load with 2 x 11 120 N each 1 minute</p>	<p>Requirements met</p> <p>Requirements met</p> <p>1500 N, 120 000 cycles 1100 N, 20 000 cycles</p> <p>1100 N, 20 000 cycles</p> <p>Requirements met</p>  <p>Photo 9: Testing the footbase</p>	<p></p> <p>+</p> <p>+</p> <p>+</p> <p>+</p> <p>+</p> <p></p> <p></p> <p></p> <p></p> <p></p> <p>+</p> <p>+</p> <p>+</p> <p>+</p>

* unless otherwise specified the specifications as laid down in the relevant standards shall apply.

Test Requirements	Results	+ positive - negative ./ not applicable
User's information (EN 1335-2 cl. 5) <ul style="list-style-type: none"> 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 balancing 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 1) (see remark 3)	+ + ./
Marking of the chair (DIN 4551 cl.. 8) <ul style="list-style-type: none"> Name or label of manufacturer Type designation Year of construction (volunteerly) Warning hint concerning gas spring repairs in accordance with DIN 4550, cl. 9 	Requirements met 2) identification possible (see remark 3)	+ + -
Marking of gas spring (DIN 4550 cl. 7) <ul style="list-style-type: none"> Manufacturer Type designation Classification Date of production - week/year 	Requirements met Suspa Type 17-04-19 DIN 4550-4 06 08 /I	+ + + +
		
Photo 10: Marking of the backapp under the seat		

Note 1) The check of the mounting instructions/ user's information does not include a full check in the sense of the DIN EN 62 079. Note 2) According to the statement of the orderer when delivering the backapp in Germany they will be marked as required. Note 3) The warning concerning works at the gasspring will be available when delivering in Germany. It will read: "Achtung! Austausch und Arbeiten im Bereich des Sitzhöhenverstellendes nur durch eingewiesenes Personal." For other countries this requirement does not apply but is recommended.
* unless otherwise specified the specifications as laid down in the relevant standards shall apply.