

Test- report

Nr. Q MBL 938 2045e

Reported to: BMA-ERGONOMICS BV
Schoenerweg 4
8042 PJ Zwolle
Netherlands

Object: Office work chair model "Axia Focus"
(7 samples + 1 seat mechanism
supplied by the manufacturer)

Order: Test to British Standard 5459 Part 2, ed. 2000

Findings:

The office work chair model "Axia Focus" was tested in accordance with the guidelines laid out in British Standard BS 5459 Part 2, ed. 2000.

The test methods and requirements of this standard are for users up to a weight of 150 kg and a daily use of up to 24 hours.

In summary it can be stated, that the office work chair model range "Axia Focus" meets the requirements of British Standard BS 5459 : Part 2.

The following pages contain technical data and details of the test.

Nuremberg, 2009-02-17
Q MBL N hy/ra/pi

LGA QualiTest GmbH
Furniture Test Institute


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Test Results

Object

Article: Office work chair (with and without armrests)

Article no.: "Axia Focus"

Number of samples: 7 + 1 seat mechanism

Samples

Delivered by: BMA-ERGONOMICS BV

Delivered: 23.09. and 05.12.2008

Reg. No.: 887/1-7 und 1174

Scope of tests

General examination

Technical test in accordance with BS 5459 : 2000

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 STABILUS
- Denomination of gas spring: Stab O Mat DIN 4550-4 9226 WA 400 N 154 08 R8,
- Seat mechanism made of aluminum die cast with synchronous action variable blockable by means of a Bloc O Lift gas spring
- Initial tension adjustable by means of rotation knob
- Sliding seat shell made of plastic (PP) adjustable in 8 positions
- Separate backrest inclination variable adjustable by hand lever and a Bloc O Lift gas spring
- Lumbar support variable adjustable in height
- Arm rests bearer adjustable in height and in clear width by butterfly screw
- Armrest pad adjustable in width and hinged
- Base made of aluminum die cast (AL G350)
- 5 brake unloaded twin wheel swivel castors type "H" and "W"
- Lettering of castors: Move 60
- Castor manufacturer: Gross + Froelich



Photo with armrests



Photo without armrests



Requirements to BS 5459, ed. 2000
Summary of tests and results

Clause	Test description	Test parameters	Title
A.5.1	Fore-and-aft safety	Seat load V_1 1.400 N Back load H_1 400 N Front edge load V_2 1.400 N max. number of cycles 500.000	pass
A.5.2	Seat impact	Drop height 350 mm	pass
A.5.3	Back impact	Drop height 330 mm Angle 48°	pass
A.5.4	Drop	Drop height 450 mm	pass
A.5.5	Side-to-side safety	Load 1.200 N max. number of cycles 250.000	pass
A.6.2.1 A.6.2.2 A:6.4	Forward overturning Sideways overturning Rearward overturning	Load 600 N; 20 N Load 350 N; 250 N; 20 N 13 discs	pass
A.6.3.2	Accidental rearward Overturning	See clause A.6.3.2	pass
A7.2	Arm sideway static load	Horizontal force 600 N	pass
A7.3	Arm downward static load	Vertical force 1.200 N	pass
A.7.4	Arm impact	Angle 48°	pass
A.7.5	Chair swivelling	Vertical force 1.200 N Cycles 100.000	pass
A.7.6	Seat height adjustment	Vertical force 1.200 N, 10000 Cycles	pass
A.7.9	Locking device fatigue	Back load H_1 400 N Cycles 500.000	pass

