NORWEGIAN ACCREDITATION TEST 275

Test Report

Test Report No.	2023-12-12-001	Page 1(6) Rev. 00

Customer	Flokk AS Drammensveien 145 0277 Oslo, Norway		
Customer contact	Flokk Design v/ Christian Eide Lodgaard		
Test item	HÅG Capisco 8106		
Serial No.	2410001971		
Order No.	5111000749-1		
Date of receipt.	2024-01-30		
Testing commenced / finished	2024-02-01 / 2024-02-07		
Performing Laboratory.	Flokk AS, Sundveien 201 7374 Røros, Norway +47 72 40 72 00		
Accredited by.	Norsk Akkreditering Postboks 155 Bedriftssenter 2001 Lillestrøm +47 64 84 86 00	Accreditation No.: Accreditation valid from: Accreditation valid to:	Test 275 2013-04-18 2028-02-10
Tested according to.	EN 1335-1:2020 + A1:2022		
Test result.	**The test item did pass the test specification(s) as a type Ax and A chair.**		

Tested by:			**Approved by:**		
23-May-24	System Test Engineer	DocuSigned by: Ida Røisi A93CEAAF40B4402...	23-May-24	QHSE Manager	DocuSigned by: 769B22E80DC1488...
Date	**Name Position**	**Sign.**	**Date**	**Name Position**	**Sign.**

Additional information.
The test results refer only to the sample tested.
The temperature during testing has been within the specified range 15°- 25° Celsius.

Decision rules employed by the laboratory, unless inherent in the requested specification or standard:
Chair measurements. A result is compliant when the measured value is within the requirement (i.e. less or equal to an upper limit, greater or equal to a lower limit), without taking into consideration the measurement uncertainty.
Stability, strength and durability. A result is compliant when the measured value including the expanded measurement uncertainty is within the requirement (i.e. less or equal to an upper limit, greater or equal to a lower limit).

Customer complaints: If you somehow are dissatisfied with the way Test 275 has performed the task, please register this in TQM as case type "Customer claim" under process level "Testlab". Alternatively send an e-mail to: Testlab.roros@flokk.com

Abbreviations		
	P	**=Passed**
	F	**=Failed**
	NA	**=Not applicable**
	NT	**=Not tested**

Estimated uncertainty of measurement		
Measurement	**Description**	**Uncertainty U (mm)**
a	Seat height / Sitting height	<5 / ---
b	Adjustable depth of the seat	<10
f	Adjustable height of lumbar support	<20
f	Adjustable height of lumbar support (mechanical travel)	<5
q	Maximum distance from the backrest to the front of the armrests	<20
r	Hip breadth clearance when armrests are in widest position	<10
z	Adjustable clear distance between armrest pads	<20
p	Height of armrests adjustable	<10
d	Seat pad width	<5
c	Seat pad depth	<10
h	Backrest height	<10
j	Backrest width	<5
k	Radius of backrest	NA
n	Armrest length	<5
o	Armrest width	<5
s	Offset of the underframe	<5
γ	Angle between seat and back	<4 [°]
l	Backrest inclination range	<2 [°]
e	Seat pad angle adjustable	<3 [°]

Estimated uncertainty of measurement		
Measurement	**Description**	**Uncertainty U (N)**
7.3.3	Corner stability test (EN 1022:2018)	4
7.3.1	Forwards overturning / Forwards overturning rigid seating (EN 1022:2018)	3 / 1
7.3.4	Sideways overturning for chairs without armrests (EN 1022:2018)	3
7.3.5.2	Sideways overturning for chairs with armrests (EN 1022:2018)	2
7.3.5.3	Sideways overturning for seating with raised side edges (EN 1022:2018)	1
7.3.6	Rearwards overturning for chairs without back rest inclination and for chairs with backrest inclination that can be locked (EN 1022:2018)	4
7.4.2	Rearwards overturning for chairs with back rest inclination (EN 1022:2018)	7
All relevant	All load cells used during mechanical testing (EN 1728:2012)	<12
6.30	Rolling resistance of the unloaded chair (EN 1728:2012)	1

The given expanded uncertainty U, is the result of the multiplication of the standard uncertainty u, and coverage factor k=2, which for a normal distribution equals to a probability of ≈ 95%.

Brief description of the test item upon receipt.

HÅG Capisco 8106

Office chair, fully upholstered. Backrest height, seat depth and height adjustment. Fixed seat/back angle, lockable seat, tilt tension adjustment. Locking mechanism for front tilt.

- Seat, adjustable in height and depth. Height adjustable by means of gas cylinder from Stabilus
- Backrest, adjustable in height
- Seat inclination with adjustable tension. Lockable
- Fixed angle between seat and backrest. (backrest inclination follow seat)
- Gaslift 200 mm + optional gaslifts 150 mm and 265 mm for enhanced seat height range.
- Aluminium 5-star footbase, type G3
- Castors 50mm, hard type (H), brake unloaded. Optional soft castors (type "W") Manufacturer Emilsider




Remarks:

Standard: EN 1335-1:2020 – Dimensions – Determination of dimensions

Classification according to the type classes following EN 1335-1:2020

Dimension	Dimension description	Type Ax / (Type A)[1]				Measured	Result
		Allow (-)	Min.	Max.	Allow (+)		
a [abc]	Seat height	Yes	400	540 (520)	Yes	**400 - 641** **400 - 538**	P[2]
	Minimum range	No	160 (130)	-		**241** **138**	
b	Adjustable depth of the seat	Yes	380 (425)	430 (450)	Yes	**375 – 468** **375 - 468**	P
	Minimum range	No	70	-	Yes	**92**	
f	Adjustable height of lumbar support	Yes	170	300	Yes	**180 – 277**	P
	Minimum range within the requirement	No	70	-	Yes	**97**	
q [d]	Maximum distance from the backrest to the front of the armrests	Yes	-	200 (300)	No	**NA**	
r [e]	Hip breadth clearance when armrests are in widest position	No	480	-	Yes	**NA**	
z [ef]	Adjustable clear distance between armrest pads	Yes	410	510	Yes	**NA**	
p	Height of armrests adjustable	Yes	200	290		**NA**	
	Minimum range	No	100	-	Yes		
d	Seat pad width	No	400	-	Yes	**498**	P
c	Seat pad depth	No	380	-	Yes	**402**	P
h	Backrest height	No	360	-	Yes	**444 – 502**	P
j	Backrest width	No	360	-	Yes	**605**	P
k	Radius of backrest	No	400	-	Yes	**>400**	P
n	Armrest length	No	150	-	Yes	**NA**	
o	Armrest width	No	50	-	Yes	**NA**	
s	Offset of the underframe	Yes	-	415	No	**388**	P
γ [g]	Angle between seat and back	No	90°	-	Yes	**97°-99°**	P
l	Backrest inclination range	No	15°	-	Yes	**26°**	P
e [h]	Seat pad angle adjustable	Yes	0°	-	Yes	**-17° - 3°**	P
	Minimum adjustment range	No	5°	-	Yes	**20°**	P

For adjustable functions, the minimum and maximum values shall be obtained, with the exception of dimension f, "adjustable height of lumbar support".

a) For tall office work chairs the seat height is determined as the vertical distance measured at the front of the seat, from the loaded seat to the floor or top of the foot support. The foot support shall have a minimum diameter of 20 mm or be flat.
b) For Type Ax only, the range can be achieved e.g. by using a telescopic gas cylinder or by providing more than one gas cylinder.
c) Sitting height is only applicable for chairs with seat pad angles less than 0 (rearwards slope).
d) The distance q shall be measured when the minimum usable armrest area template, 150 mm x 50 mm (Type Ax and Type A) or 150 mm x 40 mm (Type B and Type C), are parallel to the median plane (see clause 3.9 in the standard) of the seat.
e) The gap shall be retained across the height adjustment range of the armrests for functional fit.
f) The clear distance 'z' shall be measured when the minimum usable armrest area templates, 150 mm x 50 mm (Type Ax and Type A) or 150 mm x 40 mm (Type B and Type C), are parallel to the median plane of the seat.
g) As long as it is possible to achieve an angle of minimum 90° between seat pad and backrest, the requirement is fulfilled.
h) The adjustment range shall include the specified seat pad angle.
- No requirement specified.

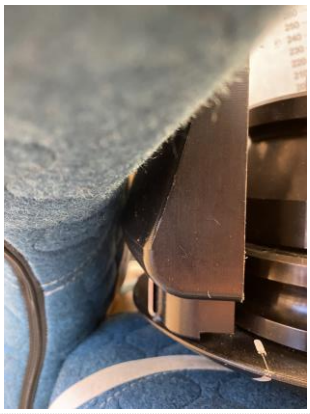
Remarks.

1) Requirements for type A that deviates from type Ax requirements are dimensions a, b, and q. Type A requirements in parentheses.

2) Full seat height range for compliance to type Ax is obtained by using two gaslifts, providing 400-539mm and 460-641mm accordingly. Compliance to type A is obtained using the lowest gaslift only. In addition a third gaslift is tested, providing 555-804mm.

End of test report

Annex 1 – Photo documentation



Annex 2 – User guide.