



Test and Verification Center

15-8302 **Test report**

Article: Office work chair 6234

Test requested by: Kinnarps AB, SE- 521 88 Sweden



Tests are carried out according to standard: EN 1335-1:2000, 1335-2 and -3:2009 type A chair

Discrepancies: None

Result and The sample submitted for test fulfils the requirements in

observations: above mentioned standards.

Tolerance: Where not especially specified, the stated test result has a tolerance value within

> directions for each standard. For example: Mass <+/- 0,5 %, Force <+/- 5%, Linear measure, unloaded furniture +/- 1mm, Linear measure, loaded seating furniture +/- 2

mm.

All measurements are in mm unless stated otherwise. Where not especially specified, Measurement uncertainty:

the measurement uncertainty is from a general point of view within the above

tolerance values.

For the following items the measurement uncertainty is outside the standard

tolerance range;

+/- 14 mm on dimensional measurements acc to item 6.10 +/- 10 mm on dimensional measurements acc to item 6.6 +/- 8 mm on dimensional measurements acc to item 6.12 +/- 6 mm or less on dimensional measurements in general

+/- 4° on angle measurements

+/- 6 N on stability measurements on upholstered chairs +/- 3 N on stability measurements on non-upholstered chairs

Report: This report relates to sample submitted for test and no other. The report may not be

reproduced other than in full, except with the prior written approval of the issuing

laboratory.

Kinnarp datum 1st of June, 2015

Susanne Norling (Approved by)

Magnus Carlsson (Tested by)

Item description:

Date of manufacture: 2015-04-21

Date of arrival: 2015-04-22

Date of test: 2015-04-24/2015-06-01

Overall dimensions: Width 635 mm, deep 635 mm, height 910 mm

Weight: 19,1 kg

Materials, construction:

Seat and backrest Upholstered

Armrests PU gel filling covered with PU foil

Under frame Five winged star base in plastic, castors Ø65 mm for hard floor, braked

unloaded.

Test conditions:

Laboratory atmosphere $(20 \pm 5)^{\circ}$ C



Our no	Test a	nd method	Requirements	Test results	Pass/Fail or N/A	
1.	DIMENSION type A	EN 1335-1:2000				
1.1	Seat height "a"	adjustable min min adjustment range	6.1	400-510 mm 120 mm	395-525 mm 130 mm	Pass
1.2	Seat depth "b"	adjustable min min adjustment range	6.2	400-420 mm 50 mm	400-470 mm 70 mm	Pass
1.3	Depth of the seat surfa "c"	ace min depth	6.3	380 mm	475 mm	Pass
1.4	Seat width "d"	min width	6.4	400 mm	450 mm	Pass
1.5	Inclination of seat "e"	min range min adjustment range	6.5	-2°7° 6°	+6,7°(-)-10,2° 16,9°	Pass
1.6	Backrest height to sup	porting point S min range min adjustment range	6.6	170-220 mm 50 mm	160-250 mm	Pass
1.7.	Height of the back pace "g"	adjustable min non adjustable	6.7	220 mm 260 mm	450 mm	Pass
1.8	Height of the upper ed	ge of backrest above seat min height	6.8	360 mm	515-605 mm	Pass
1.9	Width of backrest "I"	min width	6.9	360 mm	425 mm	Pass
1.10	Horizontal radius of ba	ackrest min radius, concave form	6.10	r 400	R 550	Pass
1.11	Backrest inclination "I"	min adjustment range	6.11	15°	19,4°	Pass
1.12	Length of armrests "n"	min length	6.12	200 mm	255 mm	Pass
1.13	Width of armrests "o"	min width	6.13	40 mm	80-110 mm	Pass
1.14	Height of armrests about "p"	ove seat adjustable min non adjustable between	6.14	200-250 mm 200-250 mm	200-300 mm -	Pass

Our no	Test and method	Requirements	Test results	Pass/Fail or N/A	
1.15	Distance from front of armrests to front edge of seat surface (in point A) "q" min distance	6.15	100 mm	> 100 mm	Pass
1.16	Clear width between armrests "r" between	6.16	460-510 mm	-	N/A
1.17	Maximal offset of the under frame "s" max size with castors	6.17	415 mm	345 mm	Pass
1.18	Stability dimension "t" min size	6.18	195 mm	235 mm	Pass
2.	SAFETY EN 1335-2:2009				
2.1	Safety distance accessible moving parts	4.1.1	≤ 8 mm or ≥ 25 mm	No remarks	Pass
2.2	Edge/corner round-edged/radius min radius	4.1.1	2 mm	No remarks	Pass
2.3	All other edges	4.1.1	no rough surfaces, burrs or sharp edges	No remarks	Pass
2.4	End of hollow components	4.1.1	closed or capped	-	N/A
2.5	Components/assembly parts		injures and inadvertent operations are avoided	No remarks	Pass
2.6	Adjusting devices		manipulate from sitting position	No remarks	Pass
2.7	Adjustable/connection parts	4.1.3	no chance to come loose	No remarks	Pass
2.8	Part with consistent grease		not accessible	No remarks	Pass
2.9	Support to floor	4.4	identical constructions	No remarks	Pass
2.10	User information		Intended use, adjustment, ergonomic, upkeep, type of wheel	No remarks	Pass
2.11	Branding on chair or information in instruction for use	5	expert shall handle gas spring change/repair	No remarks	Pass

Our no	Test and method	Requirements	Test results	Pass/Fail or N/A	
3.	SAFETY, STABILITY EN 1335-2 and -3 :2009	9			
3.1	Front edge overturning 27 kg	7.1.1	not overbalance	> 27 kg	Pass
3.2	Forwards overturning 600N	7.1.2	not overbalance with horizontal force 20N	> 20 N	Pass
3.3	Forward overturning for chair with foot rest 1100N	7.1.3	not overbalance with horizontal force 20N	-	N/A
3.4	Sideways overturning for chair without armrests Vertical seat 600N	s 7.1.4	not overbalance with horizontal force 20N	-	N/A
3.5	Sideways overturning for chair with armrests Vertical seat 250N Vertical armrest 350N	7.1.5	not overbalance with horizontal force 20N	> 20 N	Pass
3.6	Rearwards overturning Chairs without backrest inclination Vertical seat 600N Horizontal backrest 192N	7.1.6	not overbalance	-	N/A
3.7	Rearwards overturning Chair with backrest inclination Load with 13 discs á 10 kg	7.1.7	not overbalance	> 13 discs	Pass
4.	SAFETY, DURABILITY EN 1335-3:2009	9	No damage or fracture		
4.1	Seat front edge static load 1600N 10 times	7.2.1 s		No damage	Pass
4.2	Combined seat and back static load test 1600N 10 times 560N	7.2.2 s		No damage	Pass
4.3	Foot rest static load test 1300N 10 times	7.2.6 s		-	N/A

Our no	Test a	nd method			Requirements	Test results	Pass/Fail or N/A
4.4	Seat and back durabil	ity		7.3.1	No damage or fracture		
а	Loading point A	1500N	120 000 c			No damage	Pass
b	Loading point C Loading point B	1200N 320N	80 000 c 80 000 c			No damage	Pass
С	Loading point J Loading point E	1200N 320N	20 000 c 20 000 c			No damage	Pass
d	Loading point F Loading point H	1200N 320N	20 000 c 20 000 c			No damage	Pass
е	Loading point D and ((alternating)	€ 1100N	20 000 c			No damage	Pass
4.5	Armrest fatigue 10°ou	itwards from 400N	vertical 60 000 c	7.3.2		No damage	Pass
4.6	Armrest downward static load - central Before stability test			7.2.3		No damage	Pass
4.7	Armrest downward sta After stability test					No damage	Pass
4.8	Rolling resistance of u	900N Inloaded cha	5 times/arm ir	7.4	≥ 12N	No remarks	Pass
5	FUNCTIONAL TESTS	S EN	1335-3:2009	Annex C	No damage or fracture		
5.1	Armrest downward sta	atic load – fro 450N	nt 5 times/arm	7.2.4		No damage	Pass
5.2	Armrest sideway stati	c load test 400N	10 times	7.2.5		No damage	Pass
5.3	Swivel test	60 kg/35 kg	120 000 c	7.3.3		No damage	Pass
5.4	Foot rest durability	900N	50 000 c	7.3.4		No damage	Pass
5.5	Castor and chair base	durability 110 kg	36 000 c	7.3.5		No damage	Pass

Remarks, comments

End of report