

Test report **16-8900**

Article: Work chair 5282M

Test requested by: Kinnarps AB



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

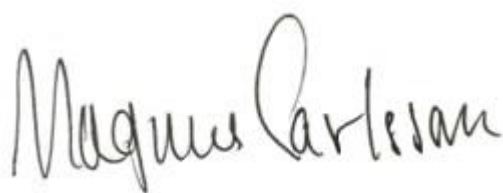
Discrepancies: None

Result and observations: The sample submitted for test fulfils the requirements in above mentioned standards.

Measurement: Detailed information about measurement uncertainty is provided on request by Kinnarps Test and Verification Center.

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 8th of September 2016



Magnus Carlsson
(Approved by)



Susanne Norling
(Tested by)

Item description:		
Date of manufacture:	160120	
Date of arrival:	160122	
Date of test:	160622 - 160908	
Overall dimensions (min):	Width 650 mm, deep 625 mm, height 980 mm	
Weight:	15,6kg	
<u>Materials, construction:</u>		
Seat	Steel frame with Nozag moulded into foam	
Backrest	Steel frame with Mesh fabric	
Armrests	Plastic, adjustable	
Under frame	Five winged star base, plastic	
<u>Test conditions:</u>		
Laboratory atmosphere	(20 ± 5)° C	Within limits during test

Test and method			Requirements	Test results	Pass/Fail or N/A
DIMENSION type A		EN 1335-1:2000			
Seat height "a"	adjustable min min adjustment range	6.1	400-510 mm 120 mm	395 – 525 130	Pass
Seat depth "b"	adjustable min min adjustment range	6.2	400-420 mm 50 mm	390 – 440 50	Pass
Depth of the seat surface "c"	min depth	6.3	380 mm	440	Pass
Seat width "d"	min width	6.4	400 mm	440	Pass
Inclination of seat "e"	min range min adjustment range	6.5	-2° - -7° 6°	-2° - -15,2° 13,2°	Pass
Backrest height to supporting point S "f"	min range min adjustment range	6.6	170-220 mm 50 mm	155 – 220 50mm	Pass
Height of the back pad "g"	adjustable min non adjustable	6.7	220 mm 260 mm	670	Pass
Height of the upper edge of backrest above seat "h"	min height	6.8	360 mm	590 – 660	Pass
Width of backrest "i"	min width	6.9	360 mm	400	Pass
Horizontal radius of backrest "k"	min radius, concave form	6.10	r 400	r 650	Pass
Backrest inclination "l"	min adjustment range	6.11	15°	16°	Pass
Length of armrests "n"	min length	6.12	200 mm	230	Pass
Width of armrests "o"	min width	6.13	40 mm	70	Pass
Height of armrests above seat "p"	adjustable min non adjustable between	6.14	200-250 mm 200-250 mm	195 - 295	Pass

Test and method		Requirements	Test results	Pass/Fail or N/A
Distance from front of armrests to front edge of seat surface (in point A) "q" min distance	6.15	100 mm	225	Pass
Clear width between armrests "r" between	6.16	460-510 mm	415 - 525	Pass
Maximal offset of the under frame "s" max size with castors	6.17	415 mm	345	Pass
Stability dimension "t" min size	6.18	195 mm	235	Pass
SAFETY EN 1335-2:2009				
Safety distance accessible moving parts	4.1.1	≤ 8 mm or ≥ 25 mm	No remarks	Pass
Edge/corner round-edged/radius min radius	4.1.1	2 mm	No remarks	Pass
All other edges	4.1.1	no rough surfaces, burrs or sharp edges	No remarks	Pass
End of hollow components	4.1.1	closed or capped	-	N/A
Components/assembly parts	4.1.2	injures and inadvertent operations are avoided	No remarks	Pass
Adjusting devices	4.1.2	manipulate from sitting pos	No remarks	Pass
Adjustable/connection parts	4.1.3	no chance to come loose	No remarks	Pass
Part with consistent grease	4.1.4	not accessible	No remarks	Pass
Support to floor	4.4	identical constructions	No remarks	Pass
User information	5	Intended use, adjustment, ergonomic, upkeep, type of wheel	No remarks	Pass
Branding on chair or information in instruction for use	5	expert shall handle gas spring change/repair	No remarks	Pass

Test and method	Requirements	Test results	Pass/Fail or N/A
SAFETY, STABILITY EN 1335-2 and -3 :2009			
Front edge overturning 27 kg	7.1.1 not overbalance	>30KG	Pass
Forwards overturning 600N	7.1.2 not overbalance with horizontal force 20N	60N	Pass
Forward overturning for chair with foot rest 1100N	7.1.3 not overbalance with horizontal force 20N	-	N/A
Sideways overturning for chair without armrests Vertical seat 600N	7.1.4 not overbalance with horizontal force 20N	-	N/A
Sideways overturning for chair with armrests Vertical seat 250N Vertical armrest 350N	7.1.5 not overbalance with horizontal force 20N	32N	Pass
Rearwards overturning Chairs without backrest inclination Vertical seat 600N Horizontal backrest 192N	7.1.6 not overbalance	213N	Pass
Rearwards overturning Chair with backrest inclination Load with 13 discs á 10 kg	7.1.7 not overbalance	>13 discs	Pass
SAFETY, DURABILITY EN 1335-3:2009			
Seat front edge static load 1600N 10 times	No damage or fracture	No remarks	Pass
Combined seat and back static load test 1600N 10 times 560N		No remarks	Pass
Foot rest static load test 1300N 10 times		-	N/A

Test and method			Requirements	Test results	Pass/Fail or N/A
Seat and back durability			7.3.1	No damage or fracture	
Loading point A	1500N	120 000 c		No remarks	Pass
Loading point C	1200N	80 000 c		No remarks	Pass
Loading point B	320N	80 000 c			
Loading point J	1200N	20 000 c		No remarks	Pass
Loading point E	320N	20 000 c			
Loading point F	1200N	20 000 c		No remarks	Pass
Loading point H	320N	20 000 c			
Loading point D and G (alternating)	1100N	20 000 c		No remarks	Pass
Armrest fatigue 10° outwards from vertical			7.3.2	No remarks	Pass
	400N	60 000 c			
Armrest downward static load - central			7.2.3	No remarks	Pass
Before stability test					
	750N	5 times/arm			
Armrest downward static load - central				No remarks	Pass
After stability test					
	900N	5 times/arm			
Rolling resistance of unloaded chair			7.4	≥ 12N	No remarks
FUNCTIONAL TESTS EN 1335-3:2009			Annex C	No damage or fracture	
Armrest downward static load – front			7.2.4	No remarks	Pass
	450N	5 times/arm			
Armrest sideway static load test			7.2.5	No remarks	Pass
	400N	10 times			
Swivel test			7.3.3	No remarks	Pass
	60 kg/35 kg	120 000 c			
Foot rest durability			7.3.4	-	N/A
	900N	50 000 c			
Castor and chair base durability			7.3.5	No remarks	Pass
	110 kg	36 000 c			
Remarks, comments					

End of report