

TEST REPORT

Number: 12 - 6989
Date: 2012-10-16
Article: Sofa Monolog



Test requested by: Jan Jismyr, Materia AB, Tranås , Sweden

Tests are carried out according to standard: EN 15373:2007, test severity 2

Tolerance: Where not especially specified, the stated test result has a tolerance value within directions for each standard.

Measurement uncertainty: Where not especially specified, the measurement uncertainty is from a general point of view within the above tolerance values.

For example: Mass $\pm 0,5\%$, Force $\pm 5\%$, Linear measure, unloaded furniture $\pm 1\text{mm}$, Linear measure, loaded seating furniture $\pm 2\text{mm}$.

Measurement: All measurements are in mm unless stated otherwise

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

Discrepancies: None

Kinnarp 16th of August 2012

KINNARPS AB
Product test facilities



Tomas Ekström
(Approved by)



Susanne Norling
(Tested by)

Item description:	
Date of manufacture:	120903
Date of arrival:	120913
Date of test:	121001 - 121016
<u>Materials, construction:</u>	
Seat /under frame, armrests and backrest	Plywood, 15mm top and bottoms, 12 mm sides. 18mm thick foam on seat Upholstered 2 backrest pillows
Connection	Steel angel bracket connected under seat.
Support to floor	Seating - plastic feet 120x120x30 Armrest and backrest - plastic feet 120x140x30
<u>Test conditions:</u>	
Laboratory atmosphere	(20 ± 5)°C Within limits during test

Test description:	EN 15373:2007 Annex C	
The table below shows the type of use that might be expected from furniture in relation to three test severities.		
Test severity	Type of Use	Application
1	light	hotel bedroom, church, libraries
2	general	general hotel, café, restaurant, public hall, banks, bars, meeting rooms
3	severe	night-club, police station, transport terminals, hospital, public areas, casino, homes for the elderly, sports changing rooms, prisons, barracks

Dimension description:	1) No requirements only for information		
Overall dimensions	width	1420 mm	
	deep	890 mm	
	height	650 mm	
Weight		62 kg	
Seat height		380 mm	
Sitting height	EN 1335-1	6.1	330 mm
Seat depth		6.2	700 mm (measured without backrest pillows)
Seat width		6.4	1040 mm
Height of arm rest above the seat		6.14	320 mm

Our no	Test and method	Requirements	Test results	Pass/Fail or N/A
1	SAFETY EN 15373:2007			
1.1	Edges of seat, back and arm rests, which are in contact with the user when sitting in the seating	5.1 shall be rounded or chamfered	No remarks	Pass
1.2	All other edges accessible during use shall be free from burrs and/or sharp edges	no rough surfaces, burrs or sharp edges	No remarks	Pass
1.3	End of hollow components	closed or capped	-	N/A
1.4	Movable and adjustable parts designed so	injures and inadvertent operations shall be avoided	-	N/A
1.5	Lubricated parts	not accessible	-	N/A
1.6	Adjustable/connection parts	no chance to come loose	No remarks	Pass
1.7	Shear and squeeze points when setting up and folding	5.2.1 acceptable only during setting up and folding	No remarks	Pass
1.8	Shear and squeeze points created by parts of the seating operated by powered mechanisms	5.2.2 not acceptable	-	N/A
1.9	Shear and squeeze points during normal use	5.2.3 not acceptable	No remarks	Pass
1.10	Safety distances accessible moving parts	3.3.3 ≥ 18 or ≤ 7 mm	-	N/A
2	SAFETY AND STABILITY EN 15373:2007 5.3			
2.1	Swivelling chair	5.3.2	-	N/A
2.2	Non swivelling chairs			
2.2.1	Forward force Vertical force 600 N	5.3.3 horizontal min. 20 N no overturning	>20N	Pass
2.2.2	Sideways without arm rests Vertical force 600 N	horizontal min. 20 N no overturning	-	N/A
2.2.3	Sideways with arm rests Vertical force on seat 250 N Vertical force on armrest 350 N	horizontal min. 20 N no overturning	>20N	Pass
2.2.4	Rearward Vertical force 600 N	horizontal min. 191N no overturning	>200N	Pass
2.2.5	Forwards overturning for seating with footrest Vertical force on the footrest 600 N	horizontal min. 20 N no overturning	-	N/A
3	Rolling resistance of the unloaded chair		-	N/A

Our no	Test and method	Requirements 2)	Test results	Pass/Fail or N/A
4	STRENGTH AND DURABILITY EN 15373:2007 table 1			
4.1	Seat and back static load	10 times vertical force horizontal force	1600 N 560 N	No remarks Pass
4.2	Seat front edge static load	10 times vertical force	1600 N	No remarks Pass
4.3	Vertical static load on back.	10 times Annex A.2 vertical force seat load	600 N 1300 N	No remarks Pass
4.4	Foot rail / foot rest and leg rest static load	10 times force	1300 N	- N/A
4.5	Arm sideways static load between armrests	10 times horizontal force	600 N	No remarks Pass
4.6	Arm downwards static load	10 times vertical force	900 N	No remarks Pass
4.7	Vertical upwards static load on armrests	10 times Annex A.1	Seat load 1000 N or lift stack	- N/A
4.8	Seat and back fatigue	vertical force horizontal force	100 000 c 1000 N 300 N	No remarks Pass
4.9	Seat front edge fatigue	vertical force	50 000 c 1000 N	No remarks Pass
4.10	Arm fatigue	force	50 000 c 400 N	No remarks Pass
4.11	Leg rest fatigue	force	50 000 c 1000 N	- N/A
4.12	Foot rail fatigue	force Annex A.5	50 000 c 1000 N	- N/A
4.13	Leg forward static load	10 times force seat load	500 N 1300 N	- N/A
4.14	Leg sideways static load test	10 times force seat load	490 N 1300 N	- N/A

Our no	Test and method	Requirements 2)	Test results	Pass/Fail or N/A
4.15	Diagonal static base load 10 times force	500 N	No remarks	Pass
4.16	Seat impact 10 times drop height	240 mm	No remarks	Pass
4.17	Back impact pendulum 10 times height of fall	330 mm/48°	No remarks	Pass
4.18	Arm impact pendulum 10 times height of fall	330 mm/48°	No remarks	Pass
4.19	Drop test (multiple seating) 2 x 5 times drop height	300 mm	No remarks	Pass
4.20	Auxiliary writing surface static load 10 times force Annex A.3	300 N	-	N/A
4.21	Auxiliary writing surface fatigue force Annex A.4	20 000 c 150 N	-	N/A
4.22	Drop test for stacking chairs 10 times drop height Annex B.1	150 mm	-	N/A
4.23	Backward fall test 5 times Annex B.2		-	N/A
4.24	Drop test from the height of a table height 5 times / 2 different legs Annex B.3	600 mm	-	N/A
4.25	Fall against floor (chair) level 4 10 times ISO 7173 Non stackable chair Stackable chair	300 mm 600 mm	-	N/A

Remarks, comments

1) Certain dimensions measured according to EN 1335-1 are reported only as information.

2) Requirements

No fractures of any member, joint or component.
No loosening of joints intended to be rigid
The chair fulfils its functions after removal of the test loads
The seating fulfils the stability requirements

End of report