



Test report 16-9158

Article: Neolite

Wood chell, wood legs

Test requested by: Jan Jismyr

Material AB Tranås Sweden



Tests are carried out according to standard:

EN 16139:2013, test severity level 1

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 25th of May 2016

Daniel Landberg

(Approved by)

Susanne Norling

(Tested by)

Item description

Date of

- manufacture: 160425- arrival: 160506

- test: 160512 - 160524

Materials, construction

Seat and backrest: Form pressed veneer

Armrest: -

Under frame: Formpressed wood lamell

Dimensions (mm)

Total width: 510 Sitting height: 450 Total depth: 525 Seat width: 440 Total height: 800 Seat depth: 400 Seat height: 470 **Height of armrest:** Weight (kg): Distance between 4,8kg

armrests:

Test conditions

Laboratory $(20 \pm 5)^{\circ}$ C Within limits during test

atmosphere:

Test description EN 16139:2013 Annex B (informative)

The table below shows the type of use that might be expected from furniture in relation to two test severities.

Test severity	Type of Use	Application				
L1	General use	Areas in which seating is usually intended for mixed use (short-time and for a period of several hours, light to heavy load). Example of end-use: All kind of applications in office buildings, showrooms, public halls, function rooms, cafés, restaurants, canteens, banks, bars.				
L2	Extreme use	Areas in which seating is occasionally or repeatedly subject to extremely high loads due to their specific types of use or doe to improper use. Examples of end-use: Night -clubs, police stations, transport terminals, sport changing rooms, prisons, barracks (non-controlled areas).				

It should be noted that some end uses may be covered by more than one requirement depending on the severity of the expected use.

This applies particularly to furniture in nursing homes and public areas in hospitals. These types of furniture are subject to test severity L1. But for seating fulfilling the requirements "Seating which may be moved when occupied", the test "Vertical upwards static load on arm rests" in accordance with Table 1 (Test 7) should be carried out with test severity L2.

Test and method			Requirements	Test results	Pass/Fail or N/A
SAFETY EN 16139:2013		4			
General		4.1			
Accessible corners		a)	shall be rounded or chamfered	No remarks	Pass
Edges of seat, back and arm which are in contact with the when sitting in the seating		b)	shall be rounded or chamfered	No remarks	Pass
Edges of handles		c)	shall be rounded or chamfered in the direction of the force applied		N/A
All other edges accessible du	ıring use	d)	no rough surfaces, burrs or sharp edges	No remarks	Pass
End of hollow components		e)	closed or capped	-	N/A
Movable and adjustable parts designed so			injures and inadvertent operations shall be avoided	-	N/A
Adjustable/connection parts			no chance to come loose	-	N/A
Lubricated parts			not accessible	-	N/A
Shear and squeeze points		4.2			
Shear and squeeze points wheter setting up and folding	nen	4.2.1	acceptable only during setting up and folding	-	N/A
Shear and squeeze points created by 4.2 parts of the seating operated by powered mechanisms		4.2.2	not acceptable	-	N/A
Shear and squeeze points during 4.2 normal use		4.2.3	not acceptable	-	N/A
STABILITY		4.3			
Swivelling chair		4.3.2			
Front edge overbalancing,	27 kg		no overturning	-	N/A
Forward Vertical force	600 N		horizontal min. 20 N no overturning	-	N/A
Sideways without armrests Vertical force	600 N		horizontal min. 20 N no overturning	-	N/A
Sideways with armrests Vertical force on seat Vertical force on armrest	250 N 350 N		horizontal min. 20 N no overturning	-	N/A

Test and method			Requirements	Test results	Pass/Fail or N/A
Rearwards overbalancing					
Chairs without backrest incli Vertical force Horizontal force backrest	nation 600 N 192 N		no overturning	-	N/A
Chair with backrest inclination Load x 10 kg	n 11 discs		no overturning	-	N/A
Forwards overturning for sea footrest Vertical force on the footrest			horizontal min. 20 N no overturning	-	N/A
Non swivelling chairs	4.	3.3			
Forward Vertical force	600 N		horizontal min. 20 N no overturning	85N	Pass
Sideways without arm rests Vertical force	600 N		horizontal min. 20 N no overturning	93N	Pass
Sideways with arm rests Vertical force on seat Vertical force on armrest	250 N 350 N		horizontal min. 20 N no overturning	-	N/A
Rearward Vertical force	600 N		horizontal min.157 N no overturning	215N	Pass
Forwards overturning for sea footrest Vertical force on the footrest	J		horizontal min. 20 N no overturning	-	N/A
Rolling resistance of the u	nloaded 4.	4			
Rolling resistance			≥ 12 N	-	N/A
Castors			of the same type	-	N/A

EN 16139: 2013 5. Safety, strength and durability requirements

These safety, strength and durability requirements are fulfilled when during and after testing:

- a) There are no fractures of any member, joint or component;
- b) There are no loosening of joints intended to be rigid;
- c) No major structural element is significantly deformed;
- d) The chair fulfils its functions after removal of the test loads.

Test and	Requir	rements	Test	Pass/Fail	
Test and	metnoa	Level 1	Level 2	results	or N/A
STRENGTH AND DURABI	LITY				
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Seat and back static load	10 times vertical force horizontal force	1 600 N 560 N (min. force 410)	2 000 N 700 N (min. force 410)	No remarks	Pass
Seat front edge static load	10 times vertical force	1 300 N	1 600 N	No remarks	Pass
Vertical static load on back.	10 times vertical force seat load	600 N 1300 N	900 N 1800 N	No remarks	Pass
Foot rail / foot rest and leg rest static load	10 times force	1 300 N	1 600 N	-	N/A
Arm sideways static load between armrests	10 times horizontal force	400 N	900 N	-	N/A
Arm downwards static load	5 times vertical force	750 N	900 N	-	N/A
Vertical upwards static load on armrests	10 times	Seat load 250 N or lift stack	Seat load 1 200 N	-	N/A
Seat and back fatigue	Cycles vertical force horizontal force	100 000 c 1 000 N 300 N	200 000c 1 000 N 300 N	No remarks	Pass
Seat front edge fatigue	Cycles vertical force	50 000 c 800 N	100 000c 800 N	No remarks	Pass
Arm fatigue	Cycles force	30 000 c 400 N	60 000c 400 N	-	N/A
Foot rest/foot rail fatigue	Cycles force	50 000 c 1000 N	1 00 000c 1000 N	-	N/A
Leg forward static load If the item tends to overturn, reduce the force to a magnitude that just prevents overturning	10 times force seat load	500 N 1 000 N	620 N 1 800 N	No remarks	Pass
Leg sideways static load If the item tends to overturn, reduce the force to a magnitude that just prevents overturning	10 times force seat load	400 N 1 000 N	760 N 1 800 N	No remarks	Pass
Seat impact test	10 times Drop height	240 mm	300 mm	No remarks	Pass

	Requirements		Test	Pass/Fail	
Test and	Level 1	Level 2	results	or N/A	
Back impact test (test for heavy chair)	10 times Height of fall	210mm/38°	330 mm/48°	-	N/A
Arm impact test	10 times Height of fall	210mm/38°	330 mm/48°	-	N/A
Drop test (multiple seating)	2x5 times Drop height	Not applicable	450mm	-	N/A
Auxiliary writing surface Static load test	10 times Force	300 N	300 N	-	N/A
Auxiliary writing surface fatigue	Cycles Force	10 000c 150 N	20 000c 150 N	-	N/A
Additional test for specifi EN 16139:2013 Annex A.1					
Drop test for stacking seating	10 times Drop height	150 mm	200 mm	-	N/A
Backward fall test (test for light chair)	Times	5	5	No remarks	Pass
Drop test from the height of a table10 times (5 times on one front leg and 5 times on one rear leg)	Drop height	600 mm	600 mm	-	N/A
Dimension requirements for office visitor chairs In accordance with EN 1335-1:2000 EN 16139:2013 Annex C (Informative)					
Seat height [a] Fixed Adjustable	C.2.1	Between 400mm and 500mm Minimum range 420-480 mm		450	Pass
Seat depth [b]	C.2.2	Between 380mr	m and 470mm	400	Pass
Seat Width [d]	C.2.3	Min 400 mm		440	Pass
Distance between arm rests [r] C.2.4		Min 460 mm		-	N/A

EN 16139:2013 7. Information for use

Information for use shall be available in the language of the country in which it will be delivered to the end user. It shall contain at least the following details:

- a) Information regarding the intended use (see Annex B);
- b) If the chair is fitted with adjusting mechanisms: instruction for operating the adjusting mechanism;
- c) Assembly instructions, where applicable;
- d) Instruction for the care and maintenance of the chair;
- e) If the seating is fitted with castors: information on the choice of castors in relation to the floor surface.

End of report