

No.: SDHL1905009204FT

Date: Aug.20, 2019

NOROP AS BREDMYRA 4, N-1739 BORGENHAUGEN, NORWAY

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description	:	OFFICE CHAIRS
Item No.	:	K116899, K116900, K116901, K116902, K116903, K116904, K116905,
		K116906, K116907, K116908, K116939, K116940, K116941, K116942,
		K116943, K116944, K116945, K116946, K116947, K116948
Country of Destination	:	NORWAY, SWEDEN, DENMARK
Other Info	:	W/ARMRESTS, W/HEADREST
Sample Receiving Date	:	May 30, 2019
Sample 1 st Resubmission Date	:	Aug.08, 2019
Sample 2 nd Resubmission Date	:	Aug.16, 2019
Test Performing Date	:	May 30, 2019 to Aug.20, 2019

Test Result Summary

Test(s) Requested	Result(s)
EN 1335-1:2000/AC:2002 (Type A)	PASS
EN 1335-2: 2018, excluding information for use.	PASS

Summary:

1. For further details, please refer to the following page(s).

Signed for and on behalf of Shunde Branch SGS-CSTC Co., Ltd.

Bill Wang Approved signatory







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TESTS AND RESULTS

Part I. Test Conducted:

EN 1335-1:2000/AC:2002 Office furniture – office working chair – Part 1: dimensions –determination of dimensions

Basis of dimensions:

The dimensions in this standard are based on the conflicting requirements of anthropometric measurements, mechanical design, subjective preference and other factors. In general, they should be suitable for people between 1510 mm and 1920 mm in body height. People with body height outside this range may need furniture of different dimensions or a footrest. Due to the variation in population heights in different countries, there will be a variation in the percentage of the office population which the dimensions will accommodate in each country.

General Test Condition:

The following test program was conducted in a laboratory environment maintained at 15°C to 25°C and 50%±5 RH. The sample was individually tested after conditioning in the test environment for at least 24 hours prior to conducting the test.

The complete detailed procedures may be found in the referenced specification and are only summarized herein. Unless otherwise specified, the tests are carried out in the following order on the same sample.

No. of Sample:

1 piece (Sample 1). For more sample information and pictures, please refer to the following page.

Office Working Chair Type: Type A. For classification of type, please refer to Annex A.

Dimension Requirements								
Test Items			Туре А				Test Results & Rating	
		Adjustability	(–) Allow.	Min.	Max.	(+) Allow.	rest results & rating	
	SEAT							
Seat height	а	Adjustable Adjustable range	yes no	420 100	510 +	yes yes	PASS	
Seat depth	b	Non-adjustable Adjustable Adjustable range	yes no	no 400 50	no 420 +	yes yes	PASS	
Depth of seat surface	С	/	no	380	+	yes	PASS	
Seat width	d	/	no	400	+	yes	PASS	
Inclination of seat surface	е	Non-adjustable Adjustable Adjustable range	yes no	no -2º 6º	no -7º +	yes yes	PASS	
			BACK RE	ST				
Height of the back supporting point "S" above	f	Non-adjustable Adjustable Adjustable range	yes no	no 170 50	no 220 +	yes yes	PASS	
Height of the back pad -Adjustable -Non-Adjustable	g	/	no no	220 260	++	yes yes	PASS	



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				Тур	e A	Test Results & Rating	
Test Items		Adjustability	(–) Allow.	Min.	Max.		(+) Allow.
Height of the upper edge the backrest above the seat surface	h	/	no	360	+	yes	PASS
Backrest width	i	/	no	360	+	yes	PASS
Horizontal radius of the backrest	k	/	no	400	+	yes	PASS
Backrest inclination	Ι	Adjustable range	no	15°	+	yes	PASS
			ARM RE	ST			
Length of armrest	n	/	no	200	+	yes	PASS
Width of the armrest	0	/	no	40	+	yes	PASS
Height of armrest above the seat	р	Non-adjustable Adjustable	no yes	200 200	250 250	no yes	PASS
Distance from the front of the armrests to the front edge of the seat surface	q	/	no	100	+	yes	PASS
Clear Width Between The Armrest	r	/	no	460	510	no	PASS
UNDERFRAME							
Maximum offset of the underframe (Anti-stumbling- dimension)	s	/	yes	+	365	no	PASS
Stability dimension	t	/	no	195	+	yes	PASS

Annex A: Classification of office work chair type

Type A, B and C are all required to have adjustable seat height and backrest inclination. They may also have any other adjustment features listed in Table A.1.

- **Type A.** In addition to the above, a type A chair is required adjustable seat depth, seat surface inclination, (at least 6°, and a height of backrest supporting point ("S") above the seat surface. The minimum seat height is required to be 400 mm with a minimum adjustment range of 120 mm.
- Type B. A type B chair has specified dimensions which are the same as those specified for a type A chair except that it is required to have a minimum seat height of 420 mm with a minimum adjustment range of 100 mm.
- **Type C.** A type C chair has specified dimensions which are similar to type A and B chairs except that limits to adjustment range and maximum dimensions are not frequently specified. The minimum seat height is 420 mm with a minimum adjustment range of 80 mm. This is to accommodate chairs with bulky upholstery.



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Part II. Test Conducted:

EN 1335-2: 2018, excluding information for use.

No. of Sample:

1 piece (Sample 1). For more sample information and pictures, please refer to the following page.

Test and Requirements	Test Results				
4 Safety requirements					
4.1 General					
The chair shall be so designed as to minimise the risk of injury to the user.					
All parts of the chair with which the user comes into contact during intended use, shall					
be so designed that physical injury and damage to property are avoided.					
These requirements are fulfilled when:					
a) the edges of the seat, back rest and arm rests which are in contact with the user					
when sitting in the chair are rounded with minimum 2 mm radius;					
b) the edges of handles are rounded or chamfered in the direction of the force applied;	PASS				
c) all other edges and corners are free from burrs and rounded or chamfered;					
d) the ends of accessible hollow components are closed or capped.					
Movable and adjustable parts shall be designed so that injuries and inadvertent					
operation are avoided.					
It shall be possible to operate the adjusting devices from sitting position in the chair.					
It shall not be possible for any load bearing part of the chair to come loose					
unintentionally.					
4.2 Shear and squeeze points					
4.2.1 Shear and squeeze points under influence of powered mechanisms					
There shall be no accessible shear and squeeze points created by parts of the chair	PASS				
operated by powered mechanisms, i.e. springs, gas lifts and motorized systems.					
4.2.2 Shear and squeeze points during use					
There shall be no accessible shear and squeeze points created by loads applied during					
normal use.	PASS				
Shear and squeeze points are not acceptable if there is a risk of injury created by the	FA33				
weight of the user during normal movements and actions, e.g. manipulating levers and					
crank handles.					
4.3 Sequence of testing					
All applicable tests shall be carried out on the same sample.					
The chair shall be tested for stability according to EN 1022:2018, 7.3 and in the order of					
The chair shall be tested for strength and durability according to EN 1728:2012, Clause 7	7 and in the order of				
Table 2.					
With the exception of the armrest downward static load test - central test, which shall be performed before and					
after the stability test according to Table 1, the chair shall be tested for stability after the	strength and durability				
tests according to Table 2.					

4.4 Stability tests and requirements

When tested according to Table 1, the seating shall not overturn.



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Test and Requirements	Test Results
 EN 1022: 2018, 7.3.3 Corner stability test This test is only applicable on seating where it is possible to apply the stability loading pad at the specified position. Where features such as arms prevent the loading pad from being applied at the specified position, the test is not applicable. Position the seating on the floor surface with two adjacent supporting points on the front, or base restrained by stops. The loading point shall be defined as the point 60 mm from the edge of the load bearing structure on a line that passes through the seat loading point and the intersection of lines parallel to the transverse and median planes, projected from the most forward point of the load bearing structure and the side edges of the load bearing structure of the seat at the widest point on the seat at, or in front of, the transverse plane. For seating with a single seat apply a force of 300 N vertically by means of the loading pad acting at the loading point X. For seating with multiple seats apply a force of 300 N at the loading point X on one outside seating position. 	PASS
 EX 1022: 2018, 7.3.1 Forwards overbalancing, all seating Position the seating on the floor surface with two adjacent supporting points on the front or base restrained by stops. Apply a force of 600 N vertically (for multiple sitting places to a maximum of 2 places, simultaneously) by means of the loading pad acting at those points 60 mm behind the front edge of the load bearing structure most likely to result in overturning. At each loaded position apply a force of 20 N for at least 5 s horizontally outwards along a horizontal line extended forward from the point where the base of the loading pad meets the upper surface of the seat. For items of seating with a leg rest attached to the structure of the item, and where the leg rest is designed to support the weight of the user, the test procedure shall be repeated with the leg rest fully extended and the force of 600 N vertically by means of the loading pad acting at the point on the centre line of the leg rest 60 mm behind the front edge of the load bearing structure. For items of seating with a leg rest not designed to support the weight of the user the test is not applicable to the leg rest. 	PASS
 EN 1022: 2018, 7.3.2 Forwards overturning for seating with footrest For seating with foot rests of tubular construction, or where the foot rest depth is less than 120 mm, repeat the procedure in 7.3.1 applying the vertical force of 1100 N for swivelling seats and 600 N for all other seating respectively at the most onerous point along the centre line of the tube, or the middle of the foot rest surface, by any suitable means. For all other seating with foot rests apply the vertical force of 600 N at the most onerous point 60 mm from the edge of the foot rest by means of the local loading pad. For foot rests apply a force of 20 N horizontally outwards along a horizontal line extended forward from the point where the base of the loading pad meets the upper surface of the foot rest. 	N/A

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Test and Requirements	Test Results
<i>EN 1022: 2018, 7.3.4 Sideways overbalancing, all seating without arms</i> This test is applicable to all seating where the top edge of the seat on the transverse plane is 50 mm or less above the height of the loaded seat loading point. The transverse plane shall pass through the seat loading point. Position the seating on the floor surface with two adjacent supporting points on one side, or base restrained by stops. Apply a force of 600 N vertically by means of the loading pad at a point 60 mm behind the edge of the load bearing structure on the side nearest the stopped feet and on the transverse plane of the seat. In the transverse plane, apply a sideways force of 20 N horizontally outwards along a line from the point where the base of the loading pad meets the upper surface of the seat.	N/A
 EN 1022: 2018, 7.3.5 Sideways overturning, all other seating 7.3.5.1 General This test is applicable to all seating with arms, or where the top edge of the seat on the transverse plane is more than 50 mm above the height of the seat loading point (A). 7.3.5.2 Seating with arm rests Position the seating on the floor surface with two adjacent supporting points on one side, or base restrained by stops. Apply a force of 250 N vertically by means of any suitable device, at a point 100 mm to the side of the fore and aft centre line of the seat which is nearest the stopped feet and on the transverse plane. Apply a force of 350 N vertically by any suitable device, at a position on the centre line of the arm up to a maximum 40 mm inwards from the outside edge of the arm structure at the intersection of the arm rest and the transverse plane, but not less than 40 mm from the front or rear edge of the arm structure. If the transverse plane. Apply a horizontal force of 20 N outwards, and perpendicular to the line joining the stopped feet, for at least 5s, at the upper surface of the seat or arm rest in line with the vertical force of 350 N and on the side with stopped feet. 	PASS



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Test and Requirements	Test Results
EN 1022: 2018, 7.3.6 Rearwards overturning all seating with back rests	
The test is not applicable to seating that has adjustable back rest inclination that	
cannot be locked in position.	
For seating that has an adjustable back rest inclination that can be locked in position, it	
shall be locked in the most upright position. When an independent lumbar adjustment	
is fitted it shall be set in the most adverse configuration.	
Position the seating on the floor surface with the rear legs, two adjacent supporting points on the back, or base restrained by stops.	
Apply a vertical force of 600N to the seat by means of the loading pad at the seat loading point (A).	PASS
Apply the force F ₂ horizontally in a rearward direction to the back of the seating at the	
back loading point, B, or at the top edge of the back rest, whichever is the lower.	
When the seating has more than one sitting place, carry out the procedure on two most	
adverse sitting places simultaneously.	
If the back rest pad is pivoting around a horizontal axis above the height of the seat	
and is free to move, the horizontal force shall be applied on the axis. If the back rest is	
height adjustable, the axis shall be set as close as possible to 300 mm above the seat	
loading point (A).	
EN 1022: 2018, 7.4.2 Tilting chairs	
The test method applies to all values of $\theta \ge 10^\circ$ and values of γ between 90° and 170°.	
If the seating has a locking system it shall be disabled.	PASS
Load the seat with the 13 loading discs so that the discs are firmly settled against the	FA35
back rest. If the height of the stack of discs exceeds the height of the back rest, or if	
support is needed, prevent the discs from sliding off by the use of the support.	
4.5 Structural safety requirements	
The structural safety requirements are met when the requirements according to 5.2 are f	ulfilled.
5.2 Requirements	
The strength and durability requirements are fulfilled when, after testing in accordance w	ith Table 2:
a) there are no fractures of any member, joint or component;	
b) there is no loosening of joints intended to be rigid; and	
c) the chair fulfils its functions after removal of the test loads.	1
EN 1728: 2012, 7.3 Combined seat and back static load test	
Prevent the chair from moving rearwards by placing stops behind two adjacent	
supporting points at the rear of the chair.	
Chairs with a locking device(s) for seat and/or back rest angle movements shall be	
tested first with the device(s) locked for half of the cycles and then with the device(s)	
unlocked for the other half of the cycles. For the first half of the cycles the back rest	PASS
shall be in the upright position.	
Apply a vertical force of 1600 N through the seat loading pad at point A. Keep the seat	
loaded and apply a force of 560 N through the centre of the back loading pad at point	
B. When fully loaded the force shall act at $(90 \pm 10)^\circ$ to the back rest plane. If the chair	
tends to overturn, reduce the back rest force and report the actual force. Remove the	
back force and then the seat force. Repeat the test for 10 cycles.	
EN 1728: 2012, 7.4 Seat front edge static load test	DAGG
Position the smaller seat loading pad at loading point F or J. Apply a vertical downward	PASS
force of 1600 N for 10 cycles through the centre of the loading pad.	



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Test and Requiremen	nts				Test Results
EN 1728: 2012, 7.8 Fc					
Apply the specified dov	wnward force t	o the sea	at at the seat loading	point.	
Apply a vertical force of	of 1300 N by m	eans of t	he local loading pad	for 10 cycles acting	
80 mm from front edge	e of the load be	earing str	ucture of the foot res	st at those points	N/A
most likely to cause fai	ilure. For round	d cross s	ection ring shaped for	potrests, the force	IN/A
shall be applied throug	h the centre of	f the ring	cross section.		
If the seating tends to	overturn, incre	ase the l	bad on seat to a mag	gnitude that just	
prevents overturning a					
EN 1728: 2012, 7.9 Se					
The upper part of the c					
midway between two a	idjacent suppo	rting poir	nts of the base with	stops against these	
supporting points.					
The seat load shall be					
C, and using the small					
force shall be applied a	at an angle of ((90 ± 10)	° to the back rest wh	en fully loaded using	
the back loading pad.		_			
All chairs shall be teste					
Chairs with a locking d					
tested in step 2, first w					
device(s) unlocked for					
back rest shall be in th set free to move.					
One cycle shall consist					
loading point(s).	(s) at the respective				
Each step shall be con	nnleted hefore	aoina to	the next		PASS
First the seat force sha	crest force is applied				
If the back rest pad is p					
and is free to move, the					
adjustable, the axis sha					
axis cannot be adjuste					
, moment.	,	,	I I	J	
Ī	Step	Force	Number of cycles		
	A	1500	120000		
	С	1200	80000		
	В	320 1200	20000		
	J E	320	20000		
	F	1200	20000		
	H	320			
	D	1100	20000		
	G	1100			

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Test and Requirements			Test Results
EN 1728: 2012, 7.10 Arm r	est durability		
Place the chair on the test fl	por with stops against the outside of t	he legs, feet or	
castors. The test forces shal	I be applied simultaneously on each a	arm rest, at the point	
most likely to cause failure, I	out not less than 100 mm from the fro	nt or rear edge of the	
arm rest length and through	the centre of the width of the arm res	t, but not more than	
100 mm from the inner edge	of the arm rest.		
Using the arm rest durability	test apparatus, adjust the apparatus	so that with no load	PASS
applied to arm rests the ang	le of load application arms is $(10 \pm 1)^{\circ}$	to the vertical and	
the distance between the low			
loading devices is (600 ± 10) mm. With the apparatus set as abov	e, apply the load of	
400 N for 60000 cycles to be	oth arm rests simultaneously for seating	ng with only one	
seating position and to one a	arm rest only for seating with multiple	seating positions.	
EN 1728: 2012, 7.5 Arm res	st downward static load test – cent	ral	
The arm rests shall be loade	d vertically with 750 N before the stal	pility tests and 900 N	
after the stability test respec	tively, by means of the local loading p	ads for 5 cycles. The	
loading points shall be at the	e mid point of the arm rest length and	centred side to side.	PASS
In the case of an arm rest w	nich is not horizontal, or which is curv	ed, the length is	
	ne 20 mm below the highest point of	the arm rest.	
Apply the force to both arm			
5.3 Rolling resistance test			
5	nall be carried out after the stability (a	ccording to Table 1)	
	urability tests (according to Table 2).		
	tested for rolling resistance according	to EN 1728:2012,	
6.30 and shall fulfil the follow			
a) the castors shall be of i			
b) the rolling resistance sh			PASS
	g resistance of the unloaded chair		17100
	the test floor and shall be pushed or		
	A speed of (50 ± 5) mm/s shall be m		
-	ce shall be applied at a height of (200	\pm 50) mm above the	
test surface.			
	sh or to pull the chair over the distanc	e from 250 mm to	
500 mm as the rolling resista 6 Information for use	ance.		
	available in the language of the count	ry in which the	
	he end user. It shall contain at least th		
a) information regarding the		ie renowing details.	
b) information regarding p			
	the adjusting mechanisms;		N/R
	and maintenance of the chair;		1 1/1 1
/	ith seat height adjustments with energy	w accumulators that	
	nay replace or repair seat height adju		
with energy accumulate			
0,	ce of castors in relation to the floor su	rface.	
Annex A			
Tests in shuded in Table A 4		for to ation of the ation of the	a ala ala

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Tests included in Table A.1 are not safety tests but may be useful for testing functions of the chair. If the functional tests listed in Table A.1 of Annex A (informative) are carried out, they can be carried out on a separated sample.



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Test and Requirements	Test Results
EN 1728: 2012, 7.6 Arm rest downward static load test – front The arm rests shall be loaded vertically with 450 N by means of the local loading pads for 5 cycles. The loading points shall be 75 mm from the front edge and centred side to side.	PASS
Apply the force to both arm rests simultaneously. EN 1728: 2012, 7.7 Arm rest sideways static load test For seating with one arm rest, apply an outward force of 400 N to the arm rest at the point along the arm rest most likely to cause failure, but not less than 100 mm from the end of the arm rest structure. Apply the force for 10 cycles using the local loading pad . If the item tends to overturn, apply a load on the side of the seat opposite to the arm rest under test large enough to prevent the item from overturning. For seating with two arm rests, apply an outward force of 400 N to each arm rest of the unit simultaneously at the point along the arm rests most likely to cause failure, but not less than 100 mm from either end of the arm rest structure, (see Figure 13). Apply the force for 10 cycles using the local loading pad. For seating with three or more arm rests, carry out the test on one pair of adjacent arm rests. All different arm rest designs shall be tested.	PASS
EN 1728: 2012, 7.11 Swivel test The base of the chair shall be secured on a rotating table with a test surface so that the rotating axis of the chair coincides with the rotating axis of the table. The upper part of the chair shall be loosely fixed in such a way as not to hinder the rotation of the base. Load the seat in loading point A with 60 kg and in loading point C with 35 kg, or any equivalent loading which will result in the same downwards force and bending moment on the chair. The angle of rotation shall be 360° at a rate of (10 ± 5) cycles/minute. Change direction after each rotation. Repeat the test for 120000 cycles.	PASS
EN 1728: 2012, 7.12 Foot rest durability Apply the specified downward force to the seat at the seat loading point. Apply a vertical force of 900 N by means of the local loading pad acting 80 mm from front edge of the load bearing structure of the foot rest at those points most likely to cause failure. For round cross section ring shaped footrests, the force shall be applied through the centre of the ring cross section. If the seating tends to overturn, increase the load on seat to a magnitude that just prevents overturning and record the load used. Repeat the test for 50000 cycles.	N/A



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Test and Requirements	Test Results
EN 1728: 2012, 7.13 Castor and chair base durability This test does not apply to chairs with castors which are braked when the chair is loaded. The chair shall be placed on a rotating table with a test surface so that the rotating axis of the chair coincides with the rotating axis of the table. Load the seat at point A with the load of 110 kg. The base shall be loosely fixed in such a way that there is no rotation of the base but that the natural movements of the castors during testing are not prevented. The castors shall be left free to swivel and the table shall be rotated with a rate of six cycles per minute. The angle of rotation shall be from 0° to 180° and back. One rotation forward and one rotation backward constitutes one cycle. Alternatively attach the chair to a device that provides a linear movement of (1 000 \pm 250) mm and a test surface. Load the seat at point A with the load of 110 kg. The base shall be loosely fixed in such a way that there is no rotation of the base but that the natural movements of the castors of the castors shall be loosely fixed in such a way that there is no cycle. Alternatively attach the chair to a device that provides a linear movement of (1 000 \pm 250) mm and a test surface. Load the seat at point A with the load of 110 kg. The base shall be loosely fixed in such a way that there is no rotation of the base but that the natural movements of the castors during testing are not prevented. The castors shall be left free to swivel and the device shall move with a rate of six cycles per minute. One movement forward and one movement backward constitutes one cycle. For both alternatives it is recommended to perform the test with a speed as slow as possible with a short break when the device changes direction. Repeat the test for 36000 cycles.	PASS

Remark:

- 1. N/A Not applicable; N/R Not Requested; N/P Not provided.
- 2. According to client's statements, the Item No. as stated on the first page are identical to test sample.
- 3. For the sample information and pictures, please refer to the following page.



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SAMPLE INFORMATION AND PICTURES

Weight: 21.85 kg

Overall Dimensions: 695~915 mm D x 720 mm W x 1030~1430 mm H

Other Dimensions: Upper frame: 540~915 mm D x 680 mm W, base radius: 355 mm.

Sample as Received



End of Report



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