

# No.SDHL2107013607FT

Date: Nov 11, 2021

Page 1 of 16

METTA LIMITED LIABILITY COMPANY

450019, RUSSIA, RESPUBLIKA BASHKORTOSTAN, UFA, DEREVENSKAYA PEREPRAVA STREET, 17B

Sample Description	: OFFICE CHAIR
Style No.	: OPERATOR, TASK CHAIR
Item No.	: METTA CHAIR SERIES
Manufacturer	: METTA LIMITED LIABILITY COMPANY
Country of Origin	: RUSSIAN FEDERATION

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

Sample Receiving Date	: Jul 27, 2021
Sample 1 <sup>st</sup> Resubmission Date	: Sep 17, 2021
Sample 2 <sup>nd</sup> Resubmission Date	: Oct 29, 2021
Test Performing Date	: Jul 29, 2021 to Nov 05, 2021
Test Performed	: Selected test(s) as requested by applicant

# **Test Result Summary**

No.	Test(s) Requested	Result(s)	Comments									
1	EN 1335-1:2020, Type C	PASS	/									
2	EN 1335-2:2018, excluding information for use	PASS	/									
For fu	urther details, please refer to the following page(s)											

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

Bill Wang Authorized Signatory





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### No.SDHL2107013607FT

Date: Nov 11, 2021

Page 2 of 16

# Part 1. Test Conducted:

EN 1335-1:2020 Office furniture – office work chair – Part 1: Dimensions – Determination of dimensions

Test Ambient Conditions	Requirements	Actual
Temperature	15 °C to 25 °C	20.0 °C
Humidity	/	50 %

#### Sample information:

No. of sample:	1 pc. (Sample 1)
Overall size:	725 mm D x 740 mm W x (1050~1165) mm H
Weight:	16.90 kg
_	

Work Chair Type: Type C

#### Work Chair Functions:

Seat height:	Adjustable	Seat depth	Fixed
Seat pad angle:	Adjustable	Back height:	Fixed
Back angle:	Adjustable	Lumbar support:	Adjustable
Armrest:	Fixed	Neck/head rest:	Without
Foot support:	Without		

#### **Decision Rule for Measurement Uncertainty:**

The decision rule to judge if a result is compliant is when the measured value is within the requirement (i.e. less than or equal to an upper limit, greater than or equal to a lower limit), without taking into consideration the measurement uncertainty.

Dimension	Sep.		Req	uiremer	nts	Record	Results	
	Seh.	Туре	Ах	Α	В	С	Record	Results
<b>Dimension Requirem</b>	ents						Dimension	in millimetres
а	8 9	Allow (-)	yes	yes	yes	yes	Min. a= 400	
	9	Min	400	400	420	430		
Seat height and		Max	540	520	510	480		
sitting height	14	Allow (+)	yes	yes	yes	yes	Max. a= 510	PASS
(See footnote "a", "b" & "x")	15	Min. range	160	130	100	80	Range= 110	

Footnote:

a. For tall office work chairs the seat height is determined as the vertical distance measured at the front of the seat, from the loaded seat to the floor or top of the foot support. The foot support shall have a minimum diameter of 20 mm or be flat.

b. For type Ax only, the range can be achieved e.g. by using a telescopic gas cylinder or by providing more than one gas cylinder.

x. Sitting height is only applicable for chairs with seat pad angles less than 0 (rearwards slope).



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### No.SDHL2107013607FT

### Date: Nov 11, 2021

Page 3 of 16

Dimension	Son		Req	uireme	nts		Record	Results
Dimension	Sep.	Туре	Ax	Α	В	С	Record	Results
	10	Allow (-)	yes	yes	yes	yes	Min. b= /	
b		Min	380	425	425	425		
		Max	430	450	445	-		NA
Adjustable depth of the seat	16	Allow (+)	yes	yes	yes	yes	Max. b= /	
		Min. range	70	70	50	-	Range = /	
		Allow (-)			no	no		
b		Min			425	425		
	10	Max	no	no	485	-	b = 446	PASS
Fixed depth of the seat	10	Allow (+)		110	no	yes	-	1,000
		Min. range			fixed	fixed		
f	2	Allow (-)	yes	yes	yes	yes	Min. f = 170	
		Min	170	170	170	170		_
	1	Max	300	300	300	300		PASS
Adjustable height of lumbar support		Allow (+)	yes	yes	yes	yes	Max. f = 260	
	3	Min. range	70	70	50	-	Range = 90	
		Allow (-)			no	no no		
f		Min			170	170	ļ	
	1	Max	no	no	300	300	f = /	NA
Fixed height of lumbar support		Allow (+)			no	no		
		Min. range			-	-		
q		Allow (-)	yes	yes	yes	yes		
Max. distance from		Min	-	-	-	-		
the backrest to the	12	Max	200	300	350	400	Max. q = 319	PASS
front the armrests		Allow (+)	no	no	no	no		
(See footnote "c")		Min. range	-	-	-	-		

c. The distance q shall be measured when the minimum usable armrest area template, 150 mm x 50 mm (Type Ax and Type A) or 150 mm x 40 mm (Type B and Type C), are parallel to the median plane of the seat.



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### No.SDHL2107013607FT

# Date: Nov 11, 2021

Page 4 of 16

Dimension	Sep.	Requirements					Record	Results
Dimension	Sep.	Туре	Ax	Α	В	С	Record	Results
r		Allow (-)	no	no	no	no		
Hip breadth		Min	480	480	460	460		
clearance when	25	Max	-	-	-	-	Min. r = 470	PASS
armrests are in widest position	25	Allow (+)	yes	yes	yes	yes		FAGO
(See footnote "d")		Min. range	-	-	-	-		
Z		Allow (-)	yes	yes	yes	yes	Min. z = /	
Adjustable clear		Min	410	410	460	460		NA
distance between	26	Max	510	510	510	510		
armrest pads	20	Allow (+)	yes	yes	yes	yes	Max. z = /	
(See footnote "d" & "e")		Min. range	-	-	-	-		
Z		Allow (-)			no	no		
Fixed clear distance		Min			460	460		
between armrest	26	Max	<b>n</b> 0	no	510	510	Min. z = 510	PASS
pads	20	Allow (+)	no	no	yes	$\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i$	FAOD	
(See footnote "d" & "e")		Min. range						

#### Footnote:

d. The gap shall be retained across the height adjustment range of the armrests for functional fit. e. The clear distance 'z' shall be measured when the minimum usable armrest area templates, 150 mm x 50 mm (Type Ax and Type A) or 150 mm x 40 mm (Type B and Type C), are parallel to the median plane of the seat.

0000			-	-			1	
	13	Allow (-)	yes	yes	yes	yes	Min. p = /	
р		Min	200	200	225	200		
		Max	290	290	250	250		NA
Height of armrests adjustable	18	Allow (+)	yes	yes	yes	yes	Max. p = /	INA
		Min. range	100	100	50	-	Range = /	
		Allow (-)			no	no		
р		Min			225	200		PASS
	13	Max	no	no	275	250	Min. p = 248	
Height of armrests not adjustable	13	Allow (+)	no	no	no	no		
		Min. range			-	-		



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#### No.SDHL2107013607FT

### Date: Nov 11, 2021

Page 5 of 16

Dimension	Sep.		Req	uiremei	nts	Record	Results	
Dimension	Sep.	Туре	Ax	Α	В	С	Record	Results
		Allow (-)	no	no	no	no		
d		Min	400	400	400	400		
ŭ	19	Max	-	-	-	-	Min. d = 470	PASS
Seat pad width	10	Allow (+)	yes	yes	yes	yes		17,00
		Min. range	-	-	-	-		
		Allow (-)	no	no	no	no		
с		Min	380	400	400	400		
C	20	Max	-	-	-	-	Min. c = 490	PASS
Seat pad depth	20	Allow (+)	yes	yes	yes	yes		17,00
		Min. range	-	-	-	-		
	11	Allow (-)	no	no	no	no	Min. h = 661	
h		Min	360	360	360	360		PASS
		Max	-	-	-	-	Max. h = 661	
Backrest height	17	Allow (+)	yes	yes	yes	yes		
		Min. range	-	-	-	-		
		Allow (-)	no	no	no	no		
j		Min	360	360	360	360		
J	21	Max	-	-	-	-	Min. j = 460	PASS
Backrest width	21	Allow (+)	yes	yes	yes	yes	iviii. j = 400	17,00
		Min. range	-	-	-	-		
		Allow (-)	no	no	no	no		
le le		Min	400	400	400	400	]	
k	22	Max	-	-	-	-	Min. k = 1200	PASS
Radius of backrest	22	Allow (+)	yes	yes	yes	yes	K = 1200	PA55
		Min. range	-	-	-	-		



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#### No.SDHL2107013607FT

# Date: Nov 11, 2021

Page 6 of 16

Dimension	Sep.		Req	uiremeı	nts	Record	Results	
Dimonolon	ocp.	Туре	Ах	Α	В	С	Record	Nesuits
		Allow (-)	no	no	no	no		
n		Min	150	150	150	150		
	23	Max	-	-	-	-	Min. n = 286	PASS
Armrest length		Allow (+)	yes	yes	yes	yes		
		Min. range	-	-	-	-		
		Allow (-)	no	no	no	no		
о		Min	50	50	40	40		
Ū	24	Max	-	-	-	-	Min. o = 50	PASS
Armrest width		Allow (+)	yes	yes	yes	yes		
		Min. range	-	-	-	-		
		Allow (-)	yes	yes	yes	yes		PASS
s		Min	-	-	-	-	Max. s = 370	
	27	Max	415	415	415	415		
Offset of the underframe	21	Allow (+)	no	no	no	no		
		Min. range	-	-	-	-		
Angle Requirements	r	1		r			Angl	e in degrees
Ŷ		Allow (-)	no	no	no	no		
		Min	90	90	90	90		
Angle between seat	4	Max	-	-	-	-	y = 90.20	PASS
and back		Allow (+)	yes	yes	yes	yes		
(See footnote "a")		Min. range	-	-	-	-		
Footnote: a. As long as it is poss requirement is fulfilled.	ible to a	chieve an	angle o	f minimu	ım 90° b	etween	seat pad and backrest	the
I		Allow (-) Min	NA' -	N4' -	NA' -			
Backrest inclination range	5	Max Allow (+) Min.	Min. 15°	Min. 15°	Min. 15°	-	Range = 31.90	NA
		range						



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#### No.SDHL2107013607FT

### Date: Nov 11, 2021

Page 7 of 16

Image eImage Allow (-)Allow yes <th>Dimension</th> <th>Son</th> <th colspan="4">Requirements</th> <th>Decend</th> <th>Deselle</th>	Dimension	Son	Requirements				Decend	Deselle		
e Min6 Min(-) 0yesyesyesyesyesmin.e = -25.70Seat pad angle 	Dimension	Sep.	Туре	Ax	Α	В	С	Record	Results	
eMin00-2		6		yes	yes	yes	yes	Min. e = -25.70		
Seat pad angle adjustable $Max$ Allow (C)PASS $Min.$ $Min.$ $in - in -$	e	-	Min	0	0	-2	-2			
Seat pad angle adjustableAllow rangeyesyesyesyesyesyeseAllow (-) Min. rangeeAllow (-) Min. range7Min. Max (+)55555ge7Min. Min. range7Min. Min. range55555ge6Allow (+)e6Allow (+)footnote: b. The adjustment range shall include the specified seat pad angleDimensions of neck rests and headrests (Informative)kAllow (-)nononononoFootnote: b. The adjustment range shall include the specified seat pad angle.Dimension in millimetresMin neck rest or head rest28Allow Min (-)nononono-k28Allow (-)NAHeight of fixed neck rest or head rest28Max Min. (-)NAMin. (+)NAMin. (+)kAllow (-)			Max	-	-	-	-		5400	
ImageMin. rangeImageImageImageImageImageeAllow (1) Min. range55555Range = 19.90PASS(See footnote "b")Min. rangeMin. (+)ImageImageImageImageImageImageImagee6Allow (+) (1)7Min. rangeImageImageImageImageImageImageImageImageImagee6Allow (I) (I)Image<		7		yes	yes	yes	yes	Max. e = -5.80	PASS	
e Min. adjustment range $(\cdot)$ Max Allow $(+)$ $(\cdot)$ Min. range55557Range = 19.90PASSea (See footnote "b")Allow (+) Min. range55555Range = 19.90PASSea (See footnote "b")Allow (+) Min. rangenonononono $(-)$ $+22 +22$ $-55 -77$ nononoeAllow (+) (+)nonono $(-)$ $+22 +22$ $-55 -77$ nononoFootnote: b. The adjustment range shall include the specified seat pad angle.Dimension in millimetresDimensions of neck rests and headrests (Informative)Dimension in millimetreskAllow (+)nonononokAllow (+)nonononokAllow (+)nonononokAllow (+)nonononokAllow (+)nonononokAllow (+)nonononokAllow (+)nonononokAllow (+)nonononokAllow (+)nonononokAllow (+)nonononokAllow (+)nonononokAllow (+)nonononokMin.<				-	-	-	-			
Min. adjustment range7 $\overline{Min}$ Max Allow $(+)$ 55555Range = 19.90PASSe6 $\overline{Min.}$ rangeMin. range7 $\overline{Min.}$ range5555588899e6 $\overline{Allow}$ $(-)$ $\overline{Min.}$ rangenonononono $\overline{ho}$ $+2 + 2$ $-5 - 7$ $\overline{no}$ $\overline{no}$ $\overline{no}$ $+2 + 2$ $-5 - 7$ $\overline{no}$ $\overline{no}$ $\overline{no}$ $ \overline{no}$ $\overline{no}$ $\overline{no}$ $\overline{no}$ $\overline{no}$ $\overline{no}$ $\overline{no}$ $\overline{no}$ $\overline{no}$ $\overline{no}$ $\overline{no}$ $\overline{no}$ $n$	e		Allow							
Min. adjustment range7Max Allow (+)55555Range = 19.90PASS(See footnote "b")Min. rangeMin. rangenonono $  -$	C C									
range (See footnote "b")7Allow (+) Min. range3333333Nalle = 19.50PASS(See footnote "b")Min. rangeAllow (-) Max (-)nonono $-1$	Min. adjustment	7			-	-	_	Dana 40.00		
(See footnote "b") = Min. range = Min. ran		1	Allow	5	5	5	5	Range = 19.90	PASS	
erangenononoeAllow (-) Min rangenononoSeat pad angle fixed6Allow (+) Min. rangenononoFootnote: b. The adjustment range shall include the specified seat pad angle.nononoFootnote: b. The adjustment range shall include the specified seat pad angle.Dimension in millimetresKAllow (+)nonononoKAllow (-)nonononoKAllow (-)nononononoKAllow (-)nononononoKAllow (-)nononononoKAllow (-)nonononoMin. $x = /$ KAllow (+)yesyesyesyesMex740KAllow (+)yesyesyesMinKAllow (+)nononoMinKAllow (+)nononoMinKAllow (+)nonoMinKMinKMinKMinKMinKMinK </td <td></td> <td></td> <td>(+)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			(+)							
eAllow (-) Min Allow (+)nononoSeat pad angle fixed6 $Allow(+)Min.rangenonohoo+2e = /NAFootnote:b. The adjustment range shall include the specified seat pad angle.Dimensions of neck rests and headrests (Informative)xAllow(+)NononononoKAllow(+)nonononononoKAllow(-)nononononononoKAllow(+)yesyesyesyesyesyesKAllow(+)nonononononoMin550550590590590Max. x = /NAKAllow(+)nonononononoKAllow(+)nonononononoMin.28Min.(-)NAMax. x = /NAKAllow(+)nononononoKAllow(+)nonononononoMin.28Min.NAMin. x = /NAMin.28Min.NononononoKNAMin.NANAMin. x = /NA$	(See footnote "b")		Min.							
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No.SDHL2107013607FT

Date: Nov 11, 2021

Page 8 of 16

# Part 2. Test Conducted:

EN 1335-2:2018 Office furniture - Office work chair - Part 2: Safety requirements, excluding information for use.

#### No. of Sample:

1 pc (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;	
<li>b) the edges of handles are rounded or chamfered in the direction of the force applied;</li>	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	
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	r and in the order of
Table 2.	norformed before and
With the exception of the armrest downward static load test – central test, which shall be	
after the stability test according to Table 1, the chair shall be tested for stability after the s	sirengin 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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#### No.SDHL2107013607FT

Date: Nov 11, 2021

Page 9 of 16

Test and Requirements	Test Results
<ul> <li>EN 1022: 2018, 7.3.3 Corner stability test</li> <li>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.</li> <li>Position the seating on the floor surface with two adjacent supporting points on the front, or base restrained by stops.</li> <li>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.</li> <li>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.</li> </ul>	PASS
<ul> <li>EN 1022: 2018, 7.3.1 Forwards overbalancing, all seating</li> <li>Position the seating on the floor surface with two adjacent supporting points on the front or base restrained by stops.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ul>	PASS
<b>EN 1022: 2018, 7.3.2 Forwards overturning for seating with footrest</b> 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.	NA



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### No.SDHL2107013607FT

Date: Nov 11, 2021

Page 10 of 16

Test and Requirements	Test Results
<ul> <li>EN 1022: 2018, 7.3.4 Sideways overbalancing, all seating without arms</li> <li>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.</li> <li>Position the seating on the floor surface with two adjacent supporting points on one side, or base restrained by stops.</li> <li>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.</li> <li>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.</li> </ul>	NA
<ul> <li>EN 1022: 2018, 7.3.5 Sideways overturning, all other seating</li> <li>7.3.5.1 General</li> <li>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).</li> <li>7.3.5.2 Seating with arm rests</li> <li>Position the seating on the floor surface with two adjacent supporting points on one side, or base restrained by stops.</li> <li>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.</li> <li>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.</li> <li>If the transverse plane does not intersect with the arm rest, apply the force of 350 N 40 mm from the point at the front or rear of the arm rest structure that is nearest the transverse plane.</li> <li>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.</li> </ul>	PASS



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### No.SDHL2107013607FT

Page 11 of 16

Test and Requirements	Test Results
<ul> <li><i>EN 1022: 2018, 7.3.6 Rearwards overturning all seating with back rests</i></li> <li>The test is not applicable to seating that has adjustable back rest inclination that cannot be locked in position.</li> <li>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.</li> <li>Position the seating on the floor surface with the rear legs, two adjacent supporting points on the back, or base restrained by stops.</li> <li>Apply a vertical force of 600N to the seat by means of the loading pad at the seat loading point (A).</li> <li>Apply the force F<sub>2</sub> 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.</li> </ul>	PASS
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).	
<b>EN 1022: 2018, 7.4.2 Tilting chairs</b> The test method applies to all values of $\theta \ge 10^{\circ}$ and values of $\gamma$ between 90° and 170°. If the seating has a locking system it shall be disabled. Load the seat with the 13 loading discs so that the discs are firmly settled against the 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.	PASS
<ul> <li>4.5 Structural safety requirements</li> <li>The structural safety requirements are met when the requirements according to 5.2 are f</li> <li>5.2 Requirements</li> <li>The strength and durability requirements are fulfilled when, after testing in accordance w</li> <li>a) there are no fractures of any member, joint or component;</li> <li>b) there is no loosening of joints intended to be rigid; and</li> <li>c) the chair fulfils its functions after removal of the test loads.</li> </ul>	
<b>EN 1728: 2012, 7.3 Combined seat and back static load test</b> 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 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.	PASS
<b>EN 1728: 2012, 7.4 Seat front edge static load test</b> Position the smaller seat loading pad at loading point F or J. Apply a vertical downward force of 1600 N for 10 cycles through the centre of the loading pad.	PASS



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### No.SDHL2107013607FT

Date: Nov 11, 2021

Page 12 of 16

Test and Requirement	nts				Test Results
<b>EN 1728: 2012, 7.8 Fe</b> Apply the specified do Apply a vertical force of 80 mm from front edge most likely to cause fa shall be applied throug If the seating tends to prevents overturning a	NA				
<b>EN 1728: 2012, 7.9 Set </b> The upper part of the original midway between two as supporting points. The seat load shall be C, and using the small force shall be applied the back loading pad. All chairs shall be tested in step 2, first with a locking of tested in step 2, first with device(s) unlocked for back rest shall be in the set free to move. One cycle shall consist loading point(s). Each step shall be consist loading point(s).	eat and back d chair shall be po- adjacent suppor applied vertica ler seat loading at an angle of (9 ed to steps 1 to device(s) for sea vith the device(s) the other half of the other half of the upright position at of the application pivoting around the horizontal for nall be set as clo	<b>urability</b> cositioned rting poir Ily using pad in p $90 \pm 10$ ) <sup>o</sup> 5. at and/or b) locked of the cyc on. In ste tion and going to nd maint I a horize ce shall pose as po	A so that the centre on the seat loading para- positions D, F, G and to the back rest with the seat loading para- positions D, F, G and to the back rest with the back rest angle mo for half of the cycle cles. For the first ha eps 3, 4 and 5 the n removal of the force the next. ained while the bac portal axis above the be applied on the a possible to 300 mm a	stops against these ad in positions A and d J. The back rest hen fully loaded using ovements shall be es and then with the lif of the cycles, the nechanism shall be e(s) at the respective ek rest force is applied. e height of the seat xis. If height above point A. If the	PASS
	DG	1100 1100	20000		



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### No.SDHL2107013607FT

Date: Nov 11, 2021

Page 13 of 16

Test and Requirements	Test Results
EN 1728: 2012, 7.10 Arm rest durability	
Place the chair on the test floor with stops against the outside of the legs, feet or	
castors. The test forces shall be applied simultaneously on each arm rest, at the point	
most likely to cause failure, but not less than 100 mm from the front or rear edge of the	
arm rest length and through the centre of the width of the arm rest, but not more than	
100 mm from the inner edge of the arm rest.	PASS
Using the arm rest durability test apparatus, adjust the apparatus so that with no load	FA33
applied to arm rests the angle of load application arms is $(10 \pm 1)^{\circ}$ to the vertical and	
the distance between the low friction pivots and the horizontal surface of the arm	
loading devices is $(600 \pm 10)$ mm. With the apparatus set as above, apply the load of	
400 N for 60000 cycles to both arm rests simultaneously for seating with only one	
seating position and to one arm rest only for seating with multiple seating positions.	
EN 1728: 2012, 7.5 Arm rest downward static load test – central	
The arm rests shall be loaded vertically with 750 N before the stability tests and 900 N	
after the stability test respectively, by means of the local loading pads for 5 cycles. The	
loading points shall be at the mid point of the arm rest length and centred side to side.	PASS
In the case of an arm rest which is not horizontal, or which is curved, the length is	
measured in a horizontal plane 20 mm below the highest point of the arm rest.	
Apply the force to both arm rests simultaneously.	
5.3 Rolling resistance test and requirements	
The rolling resistance test shall be carried out after the stability (according to Table 1)	
and after the strength and durability tests (according to Table 2).	
The unloaded chair shall be tested for rolling resistance according to EN 1728:2012,	
6.30 and shall fulfil the following requirements:	
<ul> <li>a) the castors shall be of identical construction;</li> </ul>	
b) the rolling resistance shall be $\geq$ 12 N.	PASS
EN 1728: 2012, 6.30 Rolling resistance of the unloaded chair	1 400
The chair shall be placed on the test floor and shall be pushed or pulled over a	
distance of at least 550 mm. A speed of $(50 \pm 5)$ mm/s shall be maintained over the	
measuring distance. The force shall be applied at a height of $(200 \pm 50)$ mm above the	
test surface.	
Record the force used to push or to pull the chair over the distance from 250 mm to	
500 mm as the rolling resistance.	
6 Information for use	
Information for use shall be available in the language of the country in which the	
product will be available to the end user. It shall contain at least the following details:	
a) information regarding the intended use;	
b) information regarding possible adjustments;	
<ul> <li>c) instruction for operating the adjusting mechanisms;</li> <li>d) instruction for the acro and maintenance of the abair;</li> </ul>	NR
<ul> <li>d) instruction for the care and maintenance of the chair;</li> <li>a) information for chairs with eact being to adjustments with energy accumulators that</li> </ul>	
e) information for chairs with seat height adjustments with energy accumulators that	
only trained personnel may replace or repair seat height adjustment components	
<ul><li>with energy accumulators;</li><li>f) information on the choice of castors in relation to the floor surface.</li></ul>	
<ul> <li>information on the choice of castors in relation to the floor surface.</li> <li>Annex A</li> </ul>	<u> </u>
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	
separated sample.	n se camed out on a



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# No.SDHL2107013607FT

Date: Nov 11, 2021

Page 14 of 16

Test and Requirements	Test Results
<b>EN 1728: 2012, 7.6 Arm rest downward static load test – front</b> 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. Apply the force to both arm rests simultaneously.	PASS
<b>EN 1728: 2012, 7.7</b> 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
<b>EN 1728: 2012, 7.11 Swivel test</b> 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 $(10 \pm 5)$ cycles/minute. Change direction after each rotation. Repeat the test for 120000 cycles.	PASS
<ul> <li>EN 1728: 2012, 7.12 Foot rest durability</li> <li>Apply the specified downward force to the seat at the seat loading point.</li> <li>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.</li> <li>If the seating tends to overturn, increase the load on seat to a magnitude that just prevents overturning and record the load used.</li> <li>Repeat the test for 50000 cycles.</li> </ul>	NA



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# No.SDHL2107013607FT

Date: Nov 11, 2021

Page 15 of 16

Test and Requirements	Test Results
<b>EN 1728: 2012, 7.13 Castor and chair base durability</b> 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 table shall be loosely. 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. NA Not applicable; NR Not Requested.
- 2. For the sample information and pictures, please refer to the following page.



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#### **Test Report** No.SDHL2107013607FT

# Date: Nov 11, 2021

Page 16 of 16

Photo Appendix



Original Sample - View 3

\*\*\*End of Report\*\*\*



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