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Test Report

Number: GZHH00551024

Date: Jul 15, 2024

Sample Description:

Two (2) pieces of submitted sample said to be :

Item Name	:	**Office Chair**
Item No.	:	**LN18**
Date Sample Received	:	Jun 14, 2024 & Jul 12, 2024
Testing Period	:	Jun 14, 2024 to Jul 12, 2024




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Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

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To be continued

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Test Report Number: GZHH00551024

Conclusion:

Tested samples	Standard	Result
Submitted samples	EN 1335-1:2020 + A1:2022 Specification for Office Furniture – Office Work Chair – Part 1: Dimensions – Determination of Dimensions - Excluding clause 9: information for use	Pass
	EN 1335-2:2018 - Office Furniture – Office Work Chair – Part 2: Safety Requirements - Excluding clause 6: information for use	Pass

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Remark: All test results stated in the report are quoted from the test report number GZHH00546768 dated on Jul 12, 2024.

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Authorized by:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch, Hardlines

Victor T.J. Wang
General Manager

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1 Dimensions of Office Chair

With reference to EN 1335-1:2020 + A1:2022 – Specification for Office Furniture – Office Work Chair – Part 1: Dimensions – Determination of Dimensions, all dimensions of the submitted chair were measured in the as-received stage and then was classified in dimensional requirements in Table 2 and clause 8.

Number of sample tested: One (1) piece.

Type of chair: Type B (After measuring the dimensions in Standard EN 1335-1:2020 + A1:2022, the submitted chair was classified as Type B office chair)

Overall dimensions: 720 mm W x 727 mm D x 1096~1192 mm H.

Weight: 16.2 kg

Base radius: 345 mm

Initial check: No visible damage was found.

Executive summary:

Clause	Test item / Requirements	Result
1	Scope	--
2	Normative references	--
3	Terms and definitions	--
4	Definitions of measurements	--
5	Measurement conditions	--
6	Test equipment including CMD	--
7	Measurement methods and procedures The chair shall be set up as specified in ISO 24496:2017, 6.2.1. The CMD shall be placed in the chair as specified in ISO 24496:2017, 6.2.2 and 6.2.3. The chair dimensions shall be determined in the sequence specified in Table 1.	P (See remark 1 and 2)
8	Dimensional requirements The dimensions of Types Ax, A, B and C office work chairs shall be as specified in Tables 2 and 3.	P (See remark 1 and 2)
9	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) the Type of chair (Type Ax, Type A, Type B or Type C); b) information regarding the intended use; c) instructions for operating the adjusting mechanisms; d) assembly instructions, where applicable; e) instructions for the care and maintenance of the chair; f) if the chair is fitted with castors, Information on the choice of castors in relation to the floor surface; g) the statement: "Warning! Only trained personnel may replace or repair components for height adjustment of seating furniture with energy storage."	See note 1
10	Test report	--

Abbreviation: P = Pass

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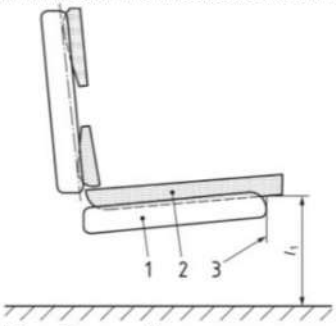
Remark 1: Dimension measurement

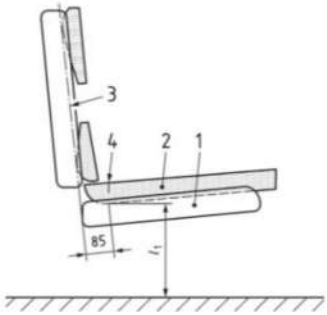
With reference to ISO 24496: 2017 - Office furniture - Office chairs – Methods for the determination of dimensions, the submitted sample was subjected to the following tests:

Number of sample tested: One (1) piece.

Executive summary:

Test item		Result
Before measuring: 1. Relock the vertical member at 90° in the CMD. 2. Remove the CMD from the chair. 3. If independently adjustable, the lumbar protrusion shall be set to its minimum depth. If independently adjustable, the lumbar height shall be set at the approximate midpoint of the lumbar zone. Adjust the seat and backrest so that they are in their most horizontal position that is not rotated clockwise of the horizontal and vertical positions, respectively. All other components, including seat and backrest, except the lumbar height / depth shall be set to their maximum positions. Moving the backrest may move the lumbar away from the midpoint of the lumbar zone; this is acceptable.		
a	Seat height and sitting height Method: Clause 6.3.3.1 & 6.3.3.2 of ISO 24496: 2017: The seat height shall be measured with the seat in its most horizontal position that is not rotated clockwise of the horizontal. Measure the seat height as the vertical distance from the underside of the CMD to the floor on a measuring scale placed through the seat height slot of the CMD at the front of the seat. Measure the sitting height by measuring the height of the top of the CMD buttocks pad at the sitting height point marked on the buttocks pad to the floor, and then subtract 60 mm from the measurement to obtain the sitting height value.	P





Requirement:

	(-) allow.	Min.	Max.	(+) allow.	Minimum range
Type A_x	yes	400	540	yes	160
Type A	yes	400	520	yes	130
Type B	yes	420	510	yes	100
Type C	yes	430	480	yes	80
Remark: 1. 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.					

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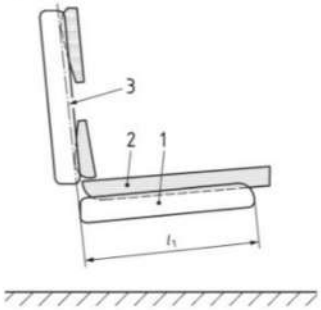
<table>
<tr><th colspan="2">Test item</th><th>Result</th></tr>
<tr><td></td><td>2. For type Ax only, the range can be achieved. e.g. by using a telescopic gas cylinder or by providing more than one gas cylinder.</td><td></td></tr>
<tr><td>b</td><td>Adjustable depth of the seat

Method: Clause 6.3.2.3 of ISO 24496: 2017:
Read the seat depth from the measuring scale on the top of the buttocks pad. Adjusting the seat inclination or angle of backrest does not constitute seat depth adjustment.
 

Requirement:
<table>
<tr><th></th><th>(-) allow.</th><th>Min.</th><th>Max.</th><th>(+) allow.</th><th>Minimum range</th></tr>
<tr><td>Type A_x</td><td>yes</td><td>380</td><td>430</td><td>yes</td><td>70</td></tr>
<tr><td>Type A</td><td>yes</td><td>425</td><td>450</td><td>yes</td><td>70</td></tr>
<tr><td>Type B</td><td>yes</td><td>425</td><td>445</td><td>yes</td><td>50</td></tr>
<tr><td>Type C</td><td>yes</td><td>425</td><td>--</td><td>yes</td><td>--</td></tr>
</table></td><td>NA</td></tr>
<tr><td></td><td>Fixed depth of the seat

Method: Clause 6.3.2.3 of ISO 24496: 2017:
Same as above.

Requirement:
<table>
<tr><th></th><th>(-) allow.</th><th>Min.</th><th>Max.</th><th>(+) allow.</th><th>Minimum range</th></tr>
<tr><td>Type A_x</td><td colspan="5">no</td></tr>
<tr><td>Type A</td><td colspan="5">no</td></tr>
<tr><td>Type B</td><td>no</td><td>425</td><td>485</td><td>no</td><td>fixed</td></tr>
<tr><td>Type C</td><td>no</td><td>425</td><td>--</td><td>yes</td><td>fixed</td></tr>
</table></td><td>P</td></tr>
</table>

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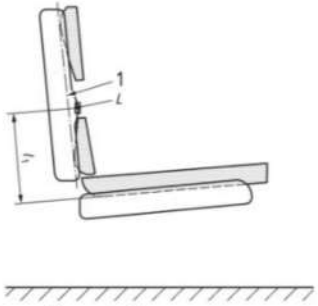
<table>
<tr><th></th><th>Test item</th><th>Result</th></tr>
<tr><td>f</td><td>Adjustable height of lumbar support

Method: Clause 6.3.1.1 of ISO 24496: 2017:
Maximum vertical height: When available, make the various backrest and lumbar adjustments such that the lumbar support is at the greatest height that can be attained. If the backrest is to be adjusted, move the CMD vertical member to its 90° position and lock it. After the adjustments are complete, release the lock, let it settle into place, then relock it. Reapply the force of 3.5±0.5N to the vertically stacked segments.
If only one segment is at a horizontal protrusion, record the dimension of the top of the segment as maximum lumbar height.
If more than one segment is at a maximum horizontal protrusion, record the dimension of the top of the highest segment as maximum lumbar height.
Maximum vertical height: Set the lumbar support at the least height and reply the lowest measurement.
Range: Calculate the difference between the maximum and minimum height measurements and record the difference as the lumbar support adjustment range.
 

Requirement:
<table>
<tr><td></td><td>(-) allow.</td><td>Min.</td><td>Max.</td><td>(+) allow.</td><td>Minimum range</td></tr>
<tr><td>Type A_x</td><td>yes</td><td>170</td><td>300</td><td>yes</td><td>Minimum 70 within the rage</td></tr>
<tr><td>Type A</td><td>yes</td><td>170</td><td>300</td><td>yes</td><td>Minimum 70 within the rage</td></tr>
<tr><td>Type B</td><td>yes</td><td>170</td><td>300</td><td>yes</td><td>Minimum 50 within the rage</td></tr>
<tr><td>Type C</td><td>yes</td><td>170</td><td>300</td><td>yes</td><td>--</td></tr>
</table></td><td>NA</td></tr>
<tr><td></td><td>Fixed height of lumbar support

Method: Clause 6.3.1.1 of ISO 24496: 2017:
Same as above.

Requirement:
<table>
<tr><td></td><td>(-) allow.</td><td>Min.</td><td>Max.</td><td>(+) allow.</td><td>Minimum range</td></tr>
<tr><td>Type A_x</td><td colspan="5">no</td></tr>
<tr><td>Type A</td><td colspan="5">no</td></tr>
<tr><td>Type B</td><td>no</td><td>170</td><td>300</td><td>no</td><td>--</td></tr>
<tr><td>Type C</td><td>no</td><td>170</td><td>300</td><td>no</td><td>--</td></tr>
</table></td><td>P</td></tr>
<tr><td>q</td><td>Maximum distance from the backrest to the front of the armrests

Method: Clause 6.3.2.5 of ISO 24496: 2017:</td><td>P</td></tr>
</table>

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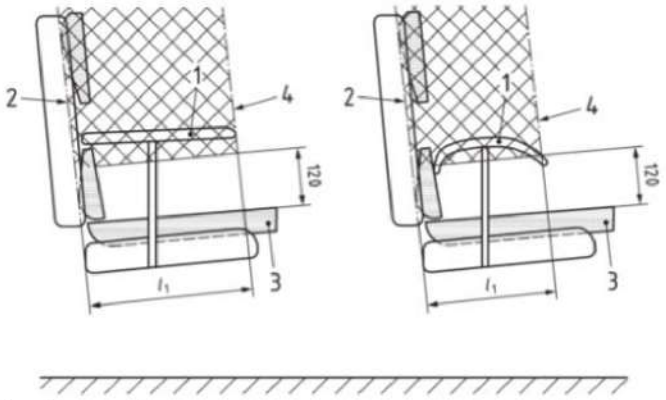
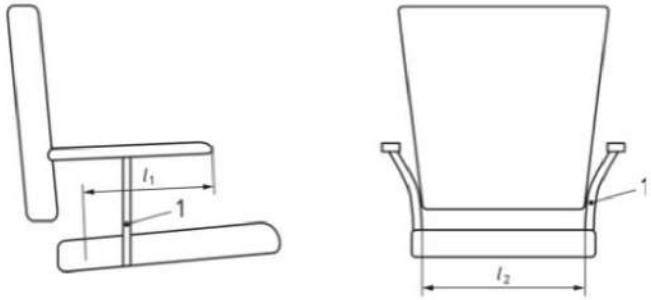
	Test item	Result
	Place a bar across the armrest at front edges. If the front edges of the armrest are less than 120 mm above the top surface of the loaded CMD buttocks pad, then place the bar at the front part of the armrest that is at the 120 mm high point. Measure the horizontal distance between the bar and the front part of vertical member of the CMD and add 180 mm.  Requirement: (-) allow. / Min. / Max. / (+) allow. / Minimum range Type A_x: yes / -- / 200 / no / -- Type A: yes / -- / 300 / no / -- Type B: yes / -- / 350 / no / -- Type C: yes / -- / 400 / no / --	
r	Hip breadth clearance when armrests are in widest position Method: Clause 6.3.4.8 of ISO 24496: 2017: Adjust the armrests to their widest possible position. Measure the minimum width between the armrest assembly from 85 mm forward of the backrest line to the front edge of the armrest above the top of the seat surface.  Requirement: (-) allow. / Min. / Max. / (+) allow. / Minimum range Type A_x: no / 480 / -- / yes / -- Type A: no / 480 / -- / yes / -- Type B: no / 460 / -- / yes / -- Type C: no / 460 / -- / yes / --	P

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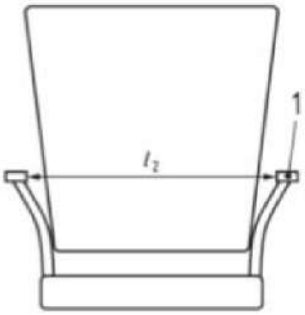
<table>
<tr><th></th><th>Test item</th><th>Result</th></tr>
<tr><td>z</td><td>Adjustable clear distance between armrest pads

Method: Clause 6.3.4.9 of ISO 24496: 2017:
Adjust the armrests to their widest possible position and then to their narrowest possible position. Measure and record the smallest horizontal distance between the armrests in each position from the rear of the seat width zone forward to the front edge of the seat within the measurement zone 5 mm down from the top of the armrest.

Requirement:
<table>
<tr><th></th><th>(-) allow.</th><th>Min.</th><th>Max.</th><th>(+) allow.</th><th>Minimum range</th></tr>
<tr><td>Type A_x</td><td>yes</td><td>410</td><td>510</td><td>yes</td><td>--</td></tr>
<tr><td>Type A</td><td>yes</td><td>410</td><td>510</td><td>yes</td><td>--</td></tr>
<tr><td>Type B</td><td>yes</td><td>460</td><td>510</td><td>yes</td><td>--</td></tr>
<tr><td>Type C</td><td>yes</td><td>460</td><td>510</td><td>yes</td><td>--</td></tr>
</table></td><td>NA</td></tr>
<tr><td></td><td>Fixed clear distance between armrest pads

Method: Clause 6.3.4.9 of ISO 24496: 2017:
Same as above.

Requirement:
<table>
<tr><th></th><th>(-) allow.</th><th>Min.</th><th>Max.</th><th>(+) allow.</th><th>Minimum range</th></tr>
<tr><td>Type A_x</td><td colspan="5">no</td></tr>
<tr><td>Type A</td><td colspan="5">no</td></tr>
<tr><td>Type B</td><td>no</td><td>460</td><td>510</td><td>yes</td><td>--</td></tr>
<tr><td>Type C</td><td>no</td><td>460</td><td>--</td><td>yes</td><td>--</td></tr>
</table></td><td>P</td></tr>
</table>

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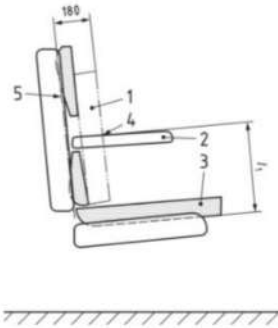
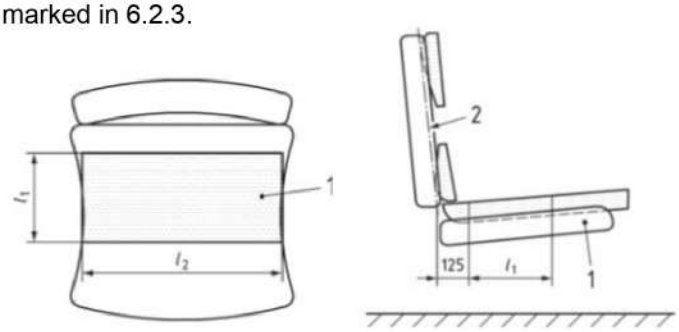
	Test item	Result
p	Height of armrests adjustable Method: Clause 6.3.3.6 of ISO 24496: 2017: Measure the armrest height based on a straight line between the top of the armrests where it crosses the scale on the front of the vertical member of the CMD.  Requirement:	NA

	(-) allow.	Min.	Max.	(+) allow.	Minimum range
Type A_x	yes	200	290	yes	100
Type A	yes	200	290	yes	100
Type B	yes	225	250	yes	50
Type C	yes	200	250	yes	--

	Test item	Result
	Height of armrests not adjustable Method: Clause 6.3.3.6 of ISO 24496: 2017: Same as above. Requirement:	P

	(-) allow.	Min.	Max.	(+) allow.	Minimum range
Type A_x	no				
Type A	no				
Type B	no	225	275	no	--
Type C	no	200	250	no	--

	Test item	Result
d	Seat pad Width Method: Clause 6.3.4.2 of ISO 24496: 2017: Measure the narrowest seat surface width within the seat surface plane width zone, as marked in 6.2.3.  	P

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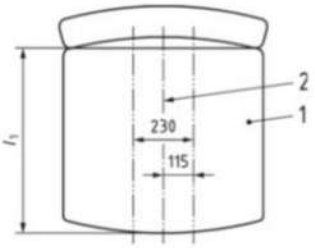
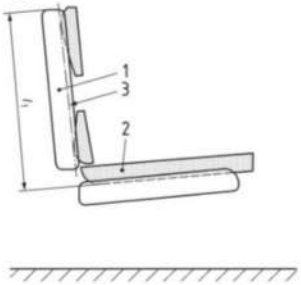
	Test item	Result
	Requirement: (-) allow. / Min. / Max. / (+) allow. / Minimum range Type A_x: no / 400 / -- / yes / -- Type A: no / 400 / -- / yes / -- Type B: no / 400 / -- / yes / -- Type C: no / 400 / -- / yes / --	
c	Seat pad depth Method: Clause 6.3.4.3 of ISO 24496: 2017: Measure the least seat surface depth within the span, 115 mm either side of the median plane.  Requirement: (-) allow. / Min. / Max. / (+) allow. / Minimum range Type A_x: no / 380 / -- / yes / -- Type A: no / 380 / -- / yes / -- Type B: no / 380 / -- / yes / -- Type C: no / 380 / -- / yes / --	P
h	Backrest height Method: Clause 6.3.3.4 of ISO 24496: 2017: Slide the backrest height gauge until it touches the top of the backrest. Read the height of the scale.  Requirement: (-) allow. / Min. / Max. / (+) allow. / Minimum range Type A_x: no / 360 / -- / yes / -- Type A: no / 360 / -- / yes / -- Type B: no / 360 / -- / yes / -- Type C: no / 360 / -- / yes / --	P
j	Backrest width	P

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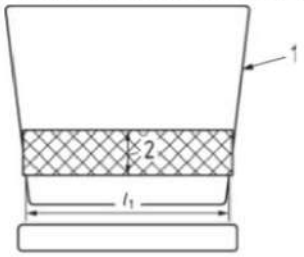
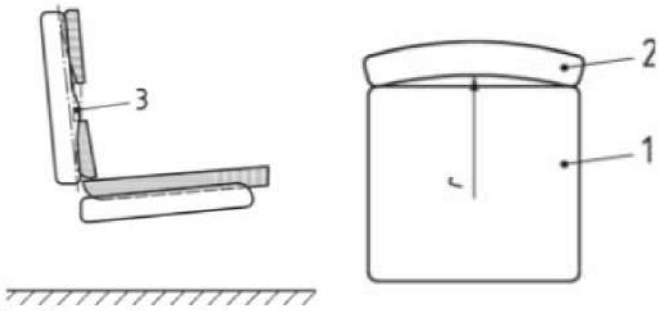
	Test item	Result
	Method: Clause 6.3.4.4 of ISO 24496: 2017: Measure the narrowest backrest width within the lumbar zone.  Requirement:	
k	Radius of backrest Method: Clause 6.3.4.5 of ISO 24496: 2017: Measure the backrest radius of the chair at the lumbar zone. The radius shall be measured through a minimum width of 300 mm and minimum height of 10 mm. If evaluating to a requirements document, a radius template(s) may be used to access the chair to the requirement. Otherwise, measure the radius of the back using any appropriate radius gauge or radius template(s). When measuring the radius, apply enough force to ensure that any textile coverings that cause bridging are formed to the backrest. For mesh materials, the radius measuring device or templates(s) may be narrower if necessary so it does not contact the side structures of the chair.  Requirement:	P

	(-) allow.	Min.	Max.	(+) allow.	Minimum range
Type A_x	no	360	--	yes	--
Type A	no	360	--	yes	--
Type B	no	360	--	yes	--
Type C	no	360	--	yes	--

	(-) allow.	Min.	Max.	(+) allow.	Minimum range
Type A_x	no	400	--	yes	--
Type A	no	400	--	yes	--
Type B	no	400	--	yes	--

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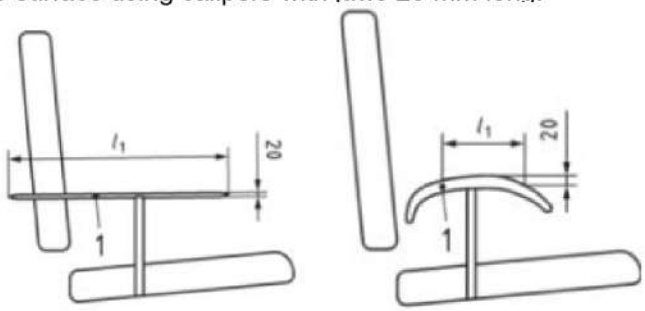
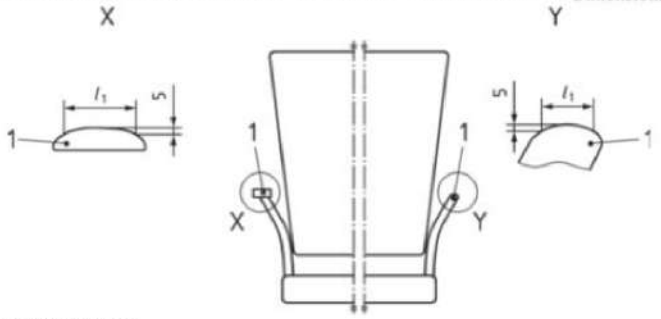
	Test item						Result
	Type C	no	400	--	yes	--	
n	Armrest length Method: Clause 6.3.4.6 of ISO 24496: 2017: With the armrest pad surface in the most horizontal position, measure the greatest length in the fore and aft direction of the armrests horizontally within 20 mm below the top surface using calipers with jaws 20 mm long.  Requirement:							P
		(-) allow.	Min.	Max.	(+) allow.	Minimum range	
	Type A_x	no	150	--	yes	--	
	Type A	no	150	--	yes	--	
	Type B	no	150	--	yes	--	
	Type C	no	150	--	yes	--	
o	Armrest width Method: Clause 6.3.4.7 of ISO 24496: 2017: With the armrest pad surface in the most horizontal position, measure the greatest width in the side to side direction of the armrests horizontally within 5 mm below the top surface using calipers with jaws 5 mm long.  Requirement:							P
		(-) allow.	Min.	Max.	(+) allow.	Minimum range	
	Type A_x	no	50	--	yes	--	
	Type A	no	50	--	yes	--	
	Type B	no	40	--	yes	--	
	Type C	no	40	--	yes	--	
s	Offset of the underframe Method: Clause 6.3.4.10 of ISO 24496: 2017:						P

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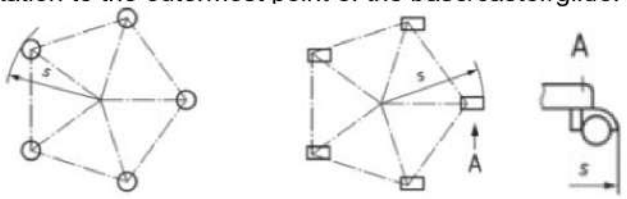
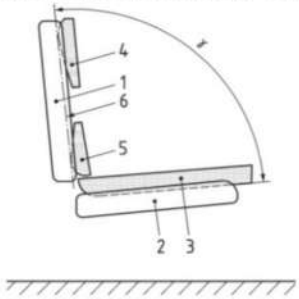
	Test item	Result
	Measure the maximum offset of the underframe as the distance from the axis of chair rotation to the outermost point of the base/castor/glide.  Requirement: (-) allow. / Min. / Max. / (+) allow. / Minimum range Type A_x: yes / -- / 415 / no / -- Type A: yes / -- / 415 / no / -- Type B: yes / -- / 415 / no / -- Type C: yes / -- / 415 / no / --	
y	Angle between seat and back Method: Clause 6.3.1.2 of ISO 24496: 2017: Measure the angle of inclination of the seat and backrest to the horizontal and angle between seat and backrest in the sequence. Before carrying out the measurement, the chair shall be positioned according to 6.2.1. The vertical member of the CMD shall be unlocked. The chair shall be adjusted, by applying whatever force is necessary to bring the chair to its stop, in each of the position. In sequence, to ensure appropriate positioning of the chair for each measurement. Record those measurements required in the applicable standards document. If the adjustment of a chair feature caused another feature measurement to change, that is acceptable.  Requirement: (-) allow. / Min. / Max. / (+) allow. / Minimum range Type A_x: no / 90 / -- / yes / -- Type A: no / 90 / -- / yes / -- Type B: no / 90 / -- / yes / -- Type C: no / 90 / -- / yes / --	P
l	Backrest inclination range Method: Clause 6.3.1.2 of ISO 24496: 2017: Measure the angle of inclination of the seat and backrest to the horizontal and angle between seat and backrest in the sequence. Before carrying out the measurement,	P

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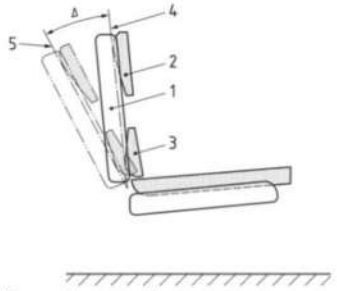
	Test item	Result
	the chair shall be positioned according to 6.2.1. The vertical member of the CMD shall be unlocked. The chair shall be adjusted, by applying whatever force is necessary to bring the chair to its stop, in each of the position. In sequence, to ensure appropriate positioning of the chair for each measurement. Record those measurements required in the applicable standards document. If the adjustment of a chair feature caused another feature measurement to change, that is acceptable.	



Requirement:

	(-) allow.	Min.	Max.	(+) allow.	Minimum range
Type A_x	Minimum 15 degrees				
Type A	Minimum 15 degrees				
Type B	Minimum 15 degrees				
Type C	--				

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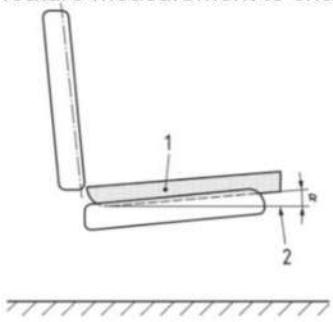
	Test item	Result
e	Seat pad angle adjustable Method: Clause 6.3.1.2 of ISO 24496: 2017: Measure the angle of inclination of the seat and backrest to the horizontal and angle between seat and backrest in the sequence. Before carrying out the measurement, the chair shall be positioned according to 6.2.1. The vertical member of the CMD shall be unlocked. The chair shall be adjusted, by applying whatever force is necessary to bring the chair to its stop, in each of the position. In sequence, to ensure appropriate positioning of the chair for each measurement. Record those measurements required in the applicable standards document. If the adjustment of a chair feature caused another feature measurement to change, that is acceptable.  Requirement:	P

	(-) allow.	Min.	Max.	(+) allow.	Minimum range
Type A_x	yes	0	--	yes	--
Type A	yes	0	--	yes	--
Type B	yes	-2	--	yes	--
Type C	yes	-2	--	yes	--

		Result
	Minimum adjustment range Method: Clause 6.3.1.2 of ISO 24496: 2017: Same as above. Requirement:	P

	(-) allow.	Min.	Max.	(+) allow.	Minimum range
Type A_x	5				
Type A	5				
Type B	5				
Type C	5				

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<table>
<tr><th colspan="2">Test item</th><th>Result</th></tr>
<tr><td></td><td>Seat pad angle fixed

Method: Clause 6.3.1.2 of ISO 24496: 2017:
Same as above.

Requirement:
<table>
<tr><th></th><th>(-) allow.</th><th>Min.</th><th>Max.</th><th>(+) allow.</th><th>Minimum range</th></tr>
<tr><td>Type A_x</td><td colspan="5">no</td></tr>
<tr><td>Type A</td><td colspan="5">no</td></tr>
<tr><td>Type B</td><td>no</td><td>+2</td><td>-5</td><td>No</td><td>--</td></tr>
<tr><td>Type C</td><td>no</td><td>+2</td><td>-7</td><td>no</td><td>--</td></tr>
</table></td><td>NA</td></tr>
</table>

Abbreviation: P = Pass; NA = Not Applicable

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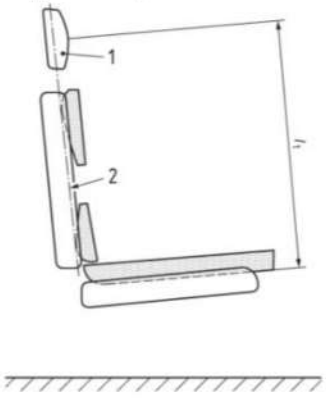
Remark 2: Dimension measurement of neck rests and headrests

With reference to Annex C of EN 1335-1:2020 + A1:2022 - Specification for Office Furniture – Office Work Chair – Part 1: Dimensions – Determination of Dimensions, the submitted sample was subjected to the following tests:

Number of sample tested: One (1) piece.

Executive summary:

<table>
<tr><th colspan="2">Test item</th><th>Result</th></tr>
<tr><td>x</td><td>Height of adjustable neck rest or head rest
 

Requirement:
<table>
<tr><th></th><th>(-) allow.</th><th>Min.</th><th>Max.</th><th>(+) allow.</th><th>Minimum range</th></tr>
<tr><td>Type A_x</td><td>no</td><td>550</td><td>740</td><td>yes</td><td>--</td></tr>
<tr><td>Type A</td><td>no</td><td>550</td><td>740</td><td>yes</td><td>--</td></tr>
<tr><td>Type B</td><td>no</td><td>590</td><td>--</td><td>yes</td><td>--</td></tr>
<tr><td>Type C</td><td>no</td><td>590</td><td>--</td><td>yes</td><td>--</td></tr>
</table></td><td>NA</td></tr>
<tr><td></td><td>Height of fixed neck rest or head rest

Requirement:
<table>
<tr><th></th><th>(-) allow.</th><th>Min.</th><th>Max.</th><th>(+) allow.</th><th>Minimum range</th></tr>
<tr><td>Type A_x</td><td colspan="5">no</td></tr>
<tr><td>Type A</td><td colspan="5">no</td></tr>
<tr><td>Type B</td><td>no</td><td>590</td><td>--</td><td>yes</td><td>--</td></tr>
<tr><td>Type C</td><td>no</td><td>590</td><td>--</td><td>yes</td><td>--</td></tr>
</table></td><td>NA</td></tr>
</table>

Abbreviation: P = Pass; NA = Not Applicable

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Note:

1. No Product information was provided for review. It shall contain at least the following details:
Information for use shall be available in the language of the country in which it will be available to the end user. It shall contain at least the following details:
a) the Type of chair (Type Ax, Type A, Type B or Type C);
b) information regarding the intended use;
c) instructions for operating the adjusting mechanisms;
d) assembly instructions, where applicable;
e) instructions for the care and maintenance of the chair;
f) if the chair is fitted with castors, Information on the choice of castors in relation to the floor surface;
g) the statement: “Warning! Only trained personnel may replace or repair components for height adjustment of seating furniture with energy storage.”

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2 Safety Requirements for Office Work Chairs

Test standard: EN 1335-2: 2018 - Office Furniture - Office Work Chair - Part 2: Safety Requirements.

Number of samples tested: Two (2) pieces.

Overall dimensions: 727 mm W x 740 mm D x 1089~1199 mm H.

Weight: 16.0 kg

Base radius: 345 mm

Initial inspection: No damage was found.

Executive summary:

Clause	Test Item / Requirements	Result
1	Scope	
2	Normative references	
3	Terms and definitions	
4	Safety requirements	
4.1	General The chair shall be so designed as to minimize 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; 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.	P
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 operated by powered mechanisms, i.e. springs, gas lifts and motorized systems.	P

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Clause	Test Item / Requirements	Result
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. 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.	P
4.3	Sequence of testing	
4.4	Stability tests and requirements When tested, the seating shall not overturn.	P (See remark 1)
4.5	Structural safety requirements The structural safety requirements are met when the requirements according to 5.2 are fulfilled.	P
5	Strength and durability	
5.1	General	See remark 2
5.2	Requirements The strength and durability requirements are fulfilled when, after testing in accordance with 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.	P (See remark 2)
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: a) The castors shall be of identical construction; b) The rolling resistance shall be ≥ 12 N.	P
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; c) Instruction for operating the adjusting mechanisms; d) Instruction for the care and maintenance of the chair; e) Information for chairs with seat height adjustments with energy accumulators that only trained personnel may replace or repair seat height adjustment components with energy accumulators; f) Information on the choice of castors in relation to the floor surface.	See note 1
7	Test report	
Annex A	Loads, masses and cycles for functional tests – Suggested loads, masses and cycles	P (See remark 3)

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Test Report Number: GZHH00551024

Tests Conducted

Abbreviation: P = Pass

Remark:

1: Stability tests

With reference to EN 1022: 2023 – Furniture – Seating – Determination of Stability, the submitted sample was subjected to the following tests:

Number of sample tested: One (1) piece.

Executive summary: (Before strength and durability test)

Test Item	Test Method	Test Parameters	Result
Corner stability	EN 1022: 2023 clause 7.3.3	Force F1: 300 N; 1 cycle	P
Forward overturning	EN 1022: 2023 clause 7.3.1	Force F1: 600 N; Force F2: 20 N; 1 cycle	P
Forward overturning for chairs with footrests	EN 1022: 2023 clause 7.3.2	Force F1: 1100 N; Force F2: 20 N; 1 cycle	NA
Sideways overturning for chair without arm rests	EN 1022: 2023 clause 7.3.4	Force F1: 600 N; Force F2: 20 N; 1 cycle	NA
Sideways overturning for chairs with arm rests	EN 1022: 2023 clause 7.3.5.1 and 7.3.5.2	Force F1: 250 N; Force F2: 350 N; Force F3: 20 N; 1 cycle	P
Rearwards overturning of chairs without back rest inclination and for chairs with adjustable backrest inclination that can be locked	EN 1022: 2023 clause 7.3.6	Force F1: 600 N; Force F2: 0.2857 x (1000-H) N; 1 cycle Note: H = height of the loaded seat above the floor in millimetres.	P
Rearwards overturning for chairs with back rest inclination	EN 1022: 2023 clause 7.4	Number of Discs: 13; 1 cycle	P

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Test Report Number: GZHH00551024

Tests Conducted

Executive summary: (After strength and durability test)

Test Item	Test Method	Test Parameters	Result
Corner stability	EN 1022: 2023 clause 7.3.3	Force F1: 300 N; 1 cycle	P
Forward overturning	EN 1022: 2023 clause 7.3.1	Force F1: 600 N; Force F2: 20 N; 1 cycle	P
Forward overturning for chairs with footrests	EN 1022: 2023 clause 7.3.2	Force F1: 1100 N; Force F2: 20 N; 1 cycle	NA
Sideways overturning for chair without arm rests	EN 1022: 2023 clause 7.3.4	Force F1: 600 N; Force F2: 20 N; 1 cycle	NA
Sideways overturning for chairs with arm rests	EN 1022: 2023 clause 7.3.5.1 and 7.3.5.2	Force F1: 250 N; Force F2: 350 N; Force F3: 20 N; 1 cycle	P
Rearwards overturning of chairs without back rest inclination and for chairs with adjustable backrest inclination that can be locked	EN 1022: 2023 clause 7.3.6	Force F1: 600 N; Force F2: 0.2857 x (1000-H) N; 1 cycle Note: H = height of the loaded seat above the floor in millimetres.	P
Rearwards overturning for chairs with back rest inclination	EN 1022: 2023 clause 7.4	Number of Discs: 13; 1 cycle	P

Abbreviation: P = Pass; NA = Not Applicable

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2: Strength and durability

With reference to EN 1728: 2012 – Furniture – Seating – Test Methods for the Determination of Strength and durability, the submitted sample was subjected to the following tests.

Number of sample tested: Two (2) piece (s).

Executive summary:

Test Item	Test Method	Test Parameters	Result
Combined seat and back static load test	EN 1728: 2012 clause 7.3	Seat force F1: 1600 N; Back rest force F2: 560 N; 10 cycles	P
Seat front edge static load test	EN 1728: 2012 clause 7.4	Force: 1600 N; 10 cycles	P
Foot rest static load test	EN 1728: 2012 clause 7.8	Force: 1300 N; 10 cycles	NA
Seat and back durability	EN 1728: 2012 clause 7.9	Step 1 – Loading point A: Force: 1500 N; 120000 cycles	P
		Step 2 – Loading point C & B: Force at point C: 1200 N; Force at point B: 320 N; 80000 cycles	P
		Step 3 – Loading point J & E: Force at point J: 1200 N; Force at point E: 320 N; 20000 cycles	P
		Step 4 – Loading point F & H: Force at point F: 1200 N; Force at point H: 320 N; 20000 cycles	P
		Step 5 – Loading point D & G: Force at point D and G: 1100 N; 20000 cycles	P
Armrests durability	EN 1728: 2012 clause 7.10	Force: 400 N; 60000 cycles	P
Armrest downward static load test - central	EN 1728: 2012 clause 7.5	Force: 750 N[a] 5 cycles; Force: 900 N[b] 5 cycles	P
[a] This test shall be carried out before the stability tests [b] This test shall be carried out after the stability tests			

Abbreviation: P = Pass; NA = Not Applicable

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3: Functional tests – Annex A

With reference to EN 1728: 2012 – Furniture – Seating – Test Methods for the Determination of Strength and durability, the submitted sample was subjected to the following tests.

Number of sample tested: One (1) piece.

Test Item	Test Method	Test Parameters	Result
Arm rest downward static load test – front	EN 1728: 2012 clause 7.6	Force：450 N Cycles： 5	P
Arm rest sideways static load test	EN 1728: 2012 clause 7.7	Force：400 N Cycles： 10	P
Swivel test	EN 1728: 2012 clause 7.11	Mass M1 ： 60 kg Mass M2：35 kg Cycles：120 000	P
Foot rest durability	EN 1728: 2012 clause 7.12	Force：400 N Cycles： 10	NA
Castor and chair base durability	EN 1728: 2012 clause 7.13	Mass M1 ： 110 kg Cycles：36 000	P

Abbreviation: P = Pass; NA = Not Applicable

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Test Report Number: GZHH00551024

Tests Conducted

Note:
1. No Product information was provided for review. It shall contain at least the following details:
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;
c) instruction for operating the adjusting mechanisms;
d) instruction for the care and maintenance of the chair;
e) information for chairs with seat height adjustments with energy accumulators that only trained personnel may replace or repair seat height adjustment components with energy accumulators;
g) information on the choice of castors in relation to the floor surface.

2. Since EN 1335-2: 2018 has not been updated, in this report, the corner, forward, rearward and sideways stability test requirements were referenced to EN 1022:2023.

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End of report

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