Test Report No.: 64.190.24.1665.01-00
Dated: 2024-09-05

Sample Submission:	The samples were submitted and identified.
Product Name:	Office chair
Order No.:	/
Identification/Style No.:	1026H
Manufacturer:	/
Country of Origin:	/
Buyer:	/
Export to:	/
Receipt Date of Sample:	2024-07-18, 2024-08-16
Date of Testing:	From 2024-07-18 to 2024-08-22
Test Result:	Refer to the data listed in following pages

Test Specification(s) or Test Item(s):	**Conclusions:**
1. EN 1335-1:2020+A1:2022 Office furniture—Office work chair—Part 1: Dimensions—Determination of dimensions (Excluding Clause 'p')	**Pass**
2. EN 1335-2:2018 Office furniture—Office work chair—Part 2: Safety requirements Clause 4.4	**Pass**

Hardline Laboratory

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Tested By: Knight Li

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Test Engineer

Reviewed By: Adam Hou

Adam Hou
Designated Reviewer

Note:

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(2) The results relate only to the Items tested.

(3) The test report shall not be reproduced except in full, without the written approval of the laboratory.

Description of the test subject:

1	**Product Description**	Office chair
2	**Dimensions / Weight** **H x W x D (mm)/ (kg)**	1176~1286 x 715 x 695 mm / 11.1kg
3	**Intended use**	Office use

Front view	Side view
	
Back view	**Bottom view**
	

Sample preparation: the sample was stored in indoor ambient conditions for 24h

Test condition: 23°C 53%RH

Test Results:

1. **EN 1335-1:2020+A1:2022 Office furniture—Office work chair—Part 1: Dimensions—Determination of dimensions**

Clause	Requirement -Test	Measuring result- Remark	Verdict
7	**Measurement methods and procedures** The chair shall be set up as specified in ISO 24496:2021, 6.2.1. The CMD shall be placed in the chair as specified in ISO 24496:2021, 6.2.2 and 6.2.3 The chair dimensions shall be determined in the sequence specified in Table 1.		
8	**Dimensional requirements**	Dimension measured was based on Type C data	/
Table 2—Dimensional requirements			
a	Seat height and sitting height	Seat height: 429~522mm Sitting height: 411~509mm	P
b	Adjustable depth of the seat	Fixed seat	N/A
	Fixed depth of the seat	454mm	P
f	Adjustable height of lumbar support	210~260mm	P
	Fixed height of lumbar support	Adjustable lumbar support	N/A
q	Maximum distance from the backrest to the front of the armrests	384mm	P
r	Hip breadth clearance when armrests are in widest position	502mm	P
z	Adjustable clear distance between armrest	Fixed armrest	N/A
	Fixed clear distance between armrest	494mm	P
p	Height of armrests adjustable	228~309mm	Data only
	Height of armrests not adjustable	Adjustable armrest	N/A
d	Seat pad width	502mm	P
c	Seat pad depth	433mm	P
h	Backrest height	602mm	P
j	Backrest width	422mm	P
k	Radius of backrest	903mm	P
n	Armrest length	239mm	P
o	Armrest width	83mm	P
s	Offset of the underframe	380mm	P
Table 3—Angle requirements			
γ	Angle between seat and back	90.45~96.8°	P
l	Backrest inclination range	25.45°	P
e	Seat pad angle adjustable	-1.05°~-20.15°	P
	Minimum adjustment range	19.1°	P
	Seat pad angle fixed	-1.05°	P
Annex C	**Dimensions for neck rests and headrests**		
x	Height of adjustable neck rest or head rest	Fixed neck rest or head rest	N/A
	Height of fixed neck rest or head rest	703mm	P

Table 2—Dimensional requirements

Table 2 — Dimensional requirements

Dimensions in millimetres

Dimensions in millimetres

		Type Ax					Type A					Type B					Type C				
		Allow (-)	Min.	Max.	Allow (+)	Minimum range	Allow (-)	Min.	max.	Allow (+)	Minimum range	Allow (-)	min.	max.	Allow (+)	Minimum range	Allow (-)	min.	max.	Allow (+)	Minimum range
a[ab]	Seat height and sitting height [c]	yes	400	540	yes	160	yes	400	520	yes	130	yes	420	510	yes	100	yes	430	480	yes	80
b	Adjustable depth of the seat	yes	380	430	yes	70	yes	425	450	yes	70	yes	425	445	yes	50	yes	425	-	yes	-
	Fixed depth of the seat	no					no					no	425	485	no	fixed	no	425	-	yes	fixed
f	Adjustable height of lumbar support	yes	170	300	yes	Minimum 70 within the range	yes	170	300	yes	Minimum 70 within the range	yes	170	300	yes	Minimum 50 within the range	yes	170	300	yes	-
	Fixed height of lumbar support	no					no					no	170	300	no	-	no	170	300	no	-
q [d]	Maximum distance from the backrest to the front of the armrests	yes	-	200	no	-	yes	-	300	no	-	yes	-	350	no	-	yes	-	400	no	-

		Type Ax					Type A					Type B					Type C				
		Allow (-)	Min.	Max.	Allow (+)	Minimum range	Allow (-)	Min.	max.	Allow (+)	Minimum range	Allow (-)	min.	max.	Allow (+)	Minimum range	Allow (-)	min.	max.	Allow (+)	Minimum range
r[e]	Hip breadth clearance when armrests are in widest position	no	480	-	yes	-	no	480	-	yes	-	no	460	-	yes	-	no	460	-	yes	-
z[ef]	Adjustable clear distance between armrest pads	yes	410	510	yes	-	yes	410	510	yes	-	yes	460	510	yes	-	yes	460	510	yes	-
	Fixed clear distance between armrest pads	no					no					no	460	510	no	-	no	460	-	yes	-
p	Height of armrests adjustable	yes	200	290	yes	100	yes	200	290	yes	100	yes	225	250	yes	50	yes	200	250	yes	-
	Height of armrests not adjustable	no					no					no	225	275	no	-	no	200	250	no	-

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		Type Ax					Type A					Type B					Type C				
		Allow (-)	Min.	Max.	Allow (+)	Minimum range	Allow (-)	Min.	max.	Allow (+)	Minimum range	Allow (-)	min.	max.	Allow (+)	Minimum range	Allow (-)	min.	max.	Allow (+)	Minimum range
d	Seat pad width	no	400	-	yes	-	no	400	-	yes	-	no	400	-	yes	-	no	400	-	yes	-
c	Seat pad depth	no	380	-	yes	-	no	380	-	yes	-	no	380	-	yes	-	no	380	-	yes	-
h	Backrest height	no	360	-	yes	-	no	360	-	yes	-	no	360	-	yes	-	no	360	-	yes	-
j	Backrest width	no	360	-	yes	-	no	360	-	yes	-	no	360	-	yes	-	no	360	-	yes	-
k	Radius of backrest	no	400	-	yes	-	no	400	-	yes	-	no	400	-	yes	-	no	400	-	yes	-
n	Armrest length	no	150	-	yes	-	no	150	-	yes	-	no	150	-	yes	-	no	150	-	yes	-
o	Armrest width	no	50	-	yes	-	no	50	-	yes	-	no	40	-	yes	-	no	40	-	yes	-
s	Offset of the underframe	yes	-	415	no	-	yes	-	415	no	-	yes	-	415	no	-	yes	-	415	no	-

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	Type Ax					Type A					Type B					Type C				
	Allow (-)	Min.	Max.	Allow (+)	Minimum range	Allow (-)	Min.	max.	Allow (+)	Minimum range	Allow (-)	min.	max.	Allow (+)	Minimum range	Allow (-)	min.	max.	Allow (+)	Minimum range

[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

[c] Sitting height is only applicable for chairs with seat pad angles less than 0° (rearwards slope).

[d] 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 (see 3.9) of the seat.

[e] The gap shall be retained across the height adjustment range of the armrests for functional fit.

[f] 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.

A1

Table 3—Angle requirements

Table 3 — Angle requirements

Dimensions in degrees

		Type Ax					Type A					Type B					Type C				
		Allow (-)	min	max	Allow (+)	Minimum range	Allow (-)	min	max	Allow (+)	Minimum range	Allow (-)	min	max	Allow (+)	Minimum range	Allow (-)	min	max	Allow (+)	Minimum range
γ^a	Angle between seat and back	no	90	-	yes	-	no	90	-	yes	-	no	90	-	yes	-	no	90	-	yes	-
l	Backrest inclination range	Minimum 15 degrees					Minimum 15 degrees					Minimum 15 degrees									
e^b	Seat pad angle adjustable	yes	0	-	Yes	-	yes	0	-	Yes	-	yes	−2	-	Yes	-	Yes	−2	-	Yes	-
	Minimum adjustment range	5					5					5					5				
	Seat pad angle fixed	no					no					no	+2	− 5	no	-	no	+2	−7	no	-

a As long as it is possible to achieve an angle of minimum 90° between seat pad and backrest, the requirement is fulfilled.

b The adjustment range shall include the specified seat pad angle.

Table C.1 — dimensions for neck rests and headrests

Dimensions in millimetres

		Type Ax					Type A					Type B					Type C				
		Allow (-)	min	max	Allow (+)	Minimum range	Allow (-)	min	max	Allow (+)	Minimum range	Allow (-)	min	max	Allow (+)	Minimum range	Allow (-)	min	max	Allow (+)	Minimum range
x	Height of adjustable neck rest or head rest	no	550	740	yes	-	no	550	740	yes	-	no	590	-	yes	-	no	590	-	yes	-
	Height of fixed neck rest or head rest	no					no					no	590	-	yes	-	no	590	-	yes	-

2. EN 1335-2:2018 Office furniture—Office work chair—Part 2: Safety requirements

Clause	Requirement -Test	Measuring result- Remark	Verdict
4.4	**Stability tests and requirements** When tested according to the below test clause, the seating shall not overturn	See the below sub-clause	P
4.4.1	Corner stability (EN 1022:2018, 7.3.3)	Fulfilled	P
4.4.2	Forward overturning (EN 1022:2018, 7.3.1)	Fulfilled	P
4.4.3	Forward overturning for chair with footrests (EN 1022:2018, 7.3.2)	No footrests	N/A
4.4.4	Sideways overturning for chairs without armrests (EN 1022:2018, 7.3.4)	With armrests	N/A
4.4.5	Sideways overturning for chairs with armrests (EN 1022:2018, 7.3.5.1 and 7.3.5.2)	Fulfilled	P
4.4.6	Rearwards overturning for chairs without back rest inclination and for chairs with adjustable backrest inclination that can be locked (EN 1022:2018, 7.3.6)	Fulfilled	P
4.4.7	Rearwards overturning for chairs with back rest inclination (EN 1022:2018, 7.4)	Fulfilled	P

Remark:

1. Abbreviation: P=Pass; F=Fail; N/A=Not Applicable; N/T=Not Tested; N/R=Not Requested.
2. All the tests were based on the submitted sample.
3. Specific requirement of test report as per clause 7.8.3 of CNAS-CL01-2018 or other accreditation scheme, such as: remark of subcontract information or on-site testing information.

Disclaimer Measurement Uncertainty:
Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties.
Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements.
By taking measurement uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL.

-End of Test Report-