

Test Report No.: AJHL2211005167FT Date: JAN 03, 2023 Page: 1 of 10

### ANJI GUYOU FURNITURE CO., LTD

BAISHUIWAN INDUSTRY ZONE, TIANHUANGPING TOWN, ANJI COUNTY, HUZHOU, ZHEJIANG, CHINA

The following sample(s) was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion. Results apply to the sample as received.

to the cample de received.	
Sample Description	CHAIR
Style / Item No.	T-7104
Supplier Name	ANJI GUYOU FURNITURE CO., LTD
Manufacturer Name	ANJI GUYOU FURNITURE CO., LTD
Country of Origin	CHINA
Sample Receiving Date	NOV 29, 2022
Sample Re-submitted Date	DEC 06, 2022
Test Performing Date	NOV 29, 2022 TO JAN 03, 2023

Test Result Summary		
Test(s) Requested	Result(s)	
EN 1335-1:2020+A1:2022 (Type C)	PASS	
EN 1335-2:2018 Excluding Clause 6 information for use	PASS	

#### Remark:

- 1. This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.
- 2. For further details, please refer to the following page(s).

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



David Fan Approved Signatory





**Test Report** No.: AJHL2211005167FT Date: JAN 03, 2023 Page: 2 of 10

Test Conducted: EN 1335-1:2020+A1:2022 Office furniture- Office work chair- Part 1: Dimensions - Determination of dimensions

Test Result (Chair type C):

Test Item	Test Requirement	Result
Seat height and sitting height [a]	Adjustable: min. ≤430mm, max. ≥480mm Adjustment range: ≥80mm	PASS
Depth of the seat [b]	Adjustable: min. ≤425mm Adjustment range: no requirement	PASS
	Fixed: ≥425mm	17.00
Height of lumbar support [f]	Adjustable: min. ≤170mm, max. ≥300mm Adjustment range: no requirement	NA
	Fixed: 170mm - 300 mm	10.0
Maximum distance from the backrest to the front of the armrests [q]	≤400mm	PASS
Hip breadth clearance when armrests are in widest position [r]	≥460mm	PASS
Clear distance between armrest pads [z]	Adjustable: min. ≤460mm, max. ≥510mm Adjustment range: no requirement	PASS
	Fixed: ≥460mm	1 700
Height of armrests [p]	Adjustable: min. ≤200mm, max. ≥250mm Adjustment range: no requirement	PASS
	Non-adjustable: 200mm - 250 mm	17.00
Seat pad width [d]	≥400mm	PASS
Seat pad depth [c]	≥380mm	PASS
Backrest height [h]	≥360mm	PASS
Backrest width [j]	≥360mm	PASS
Radius of backrest [k]	≥400mm	PASS
Armrest length [n]	≥150mm	PASS
Armrest width [o]	≥40mm	PASS



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx.addention is Grawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document advised that information contained hereon reflects the Company's findings at the time of its intervition only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificates, please contact us at telephone:(86-755) 8307



**Test Report** No.: AJHL2211005167FT Date: JAN 03, 2023 Page: 3 of 10

Test Item	Test Requirement	
Offset of the underframe [s]	≤415mm	PASS
Angle between seat and back [γ]	≥90°	PASS
Backrest inclination range [/]	No requirement	NA
Seat pad angle [e]	Adjustable: ≤-2° Adjustment range: Min. 5°	PASS
	Fixed: +2°7°	PASS
Height of neck rest or head rest [x]	Adjustable: ≥590mm Adjustment range: no requirement	PASS
	Fixed: ≥590mm	FASS

#### Remark:

1. NA = Not applicable





**Test Report** No.: AJHL2211005167FT Date: JAN 03, 2023 Page: 4 of 10

Test Conducted: EN 1335-2:2018 Office furniture- Office work chair- Part 2: Safety requirements

#### **Test Result:**

Test Item	Test Method & Test Requirement	Test Result
Safety requirements	(EN 1335-2:2018, 4)	
General (EN 1335-2:2018, 4.1)	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;  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.	PASS
Shear and squeeze p	oints (EN 1335-2:2018, 4.2)	
Shear and squeeze points under influence of powered mechanisms (EN 1335-2:2018, 4.2.1)	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.	PASS
Shear and squeeze points during use (EN 1335-2:2018, 4.2.2)	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.	PASS





# **Test Report**

Test Item	Test Method & Test Requirement	Test Result
	quirements (EN 1335-2:2018, 4.4)	
Corner stability (EN 1022:2018, 7.3.3)	to Table 1, the seating shall not overturn.  This test is only applicable on seating possible to apply the loading pad at the specified position.  Define the loading point 60 mm from the edge of the load bearing structure on a line as specified at the corner. Apply a force F <sub>1</sub> of 300 N vertically at the loading point for (5±2) s. For seating with multiple seats apply the force F <sub>1</sub> at the loading point on one outside seating position.	NA
Forwards overturning (EN 1022:2018, 7.3.1)	Apply a force F <sub>1</sub> of 600 N (for seating with multiple seats apply two forces simultaneously) vertically at the point on the centre line of the seat 60 mm behind the front edge of the load bearing structure. Apply a force F <sub>2</sub> of 20 N horizontally outwards from the point each vertical load contacts the seat surface for (5±2) s. For seating with a leg rest to support the weight of the user, repeat the test procedure on the leg rest with the leg rest fully extended.	PASS
Forward overturning for chairs with footrests (EN 1022:2018, 7.3.2)	For seating with tubular foot rests or the foot rest depth is less than 120 mm, apply the vertical force $F_1$ of 1100 N at the most onerous point along the tube centre line or the middle of the foot rest surface. For all other seating with foot rests apply the vertical force $F_1$ of 1100 N at the most onerous point 60 mm from the edge of the foot rest.  Apply a force $F_2$ of 20 N horizontally outwards from the point the vertical load contacts the foot rest surface for (5±2) s.	NA
Sideways overturning for chairs without arm rests (EN 1022:2018, 7.3.4)	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.  Apply a force F <sub>1</sub> of 600 N vertically at a point 60 mm behind the edge of the load bearing structure on the side nearest the stopped feet and on the seat transverse plane. In the transverse plane, apply a sideways force F <sub>2</sub> of 20 N horizontally outwards from the point the vertical load contacts the seat surface for (5±2) s.	NA
Sideways overturning for chairs with arm rests (EN 1022:2018, 7.3.5.1 & 7.3.5.2)	This test is applicable to all seating with arms on the transverse plane is more than 50 mm above the seat loading point. Apply a force $F_1$ of 250 N vertically at a point 100 mm to the seat median plane nearest the stopped feet and on the transverse plane. Apply a force $F_2$ of 350 N vertically at a position on the centre line of the arm up to a maximum 40 mm inwards from the outside edge of arm structure on the transverse plane, but not less than 40 mm from the front or rear edge of the arm structure. If the transverse plane does not intersect with arm rest, apply force $F_2$ at 40 mm from the front or rear of the arm structure nearest the transverse plane. Apply a horizontal force $F_3$ 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 $F_2$ .	PASS

No.: AJHL2211005167FT

Date: JAN 03, 2023

Page: 5 of 10





**Test Report** No.: AJHL2211005167FT Date: JAN 03, 2023 Page: 6 of 10

Test Item	Test Method & Test Requirement	Test Result
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)	The test is not applicable to seating that has adjustable back rest inclination that cannot be locked in position. Apply a vertical force $F_1$ of 600N to the seat at seat loading point. Apply the force $F_2$ ( $F_2$ = 0.2857(1000-H) N, H = Height of loaded seat above the floor, in mm) for (5±2) s horizontally rearwards to the seating back at back loading point B, or at the top edge of back rest, whichever is the lower. When the seating has more than one sitting place, apply the procedure on two most adverse sitting places simultaneously.	PASS
Rearwards overturning for chairs with back rest inclination (EN 1022:2018, 7.4.2)	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 13 loading discs so that the discs are firmly settled against the back rest.	PASS
The strength and dural a) there are no fracture b) there is no loosening	ty (EN 1335-2:2018, 5)  bility requirements are fulfilled when, after testing in accordance with Takes of any member, joint or component;  g of joints intended to be rigid; and  nctions after removal of the test loads.	able 2:
Combined seat and back static load test (EN 1728:2012, 7.3)	Apply a vertical force $F_1$ of 1600N at point "A". Keep the seat loaded and apply a force $F_2$ of 560N at point "B". When fully loaded the force shall act at $90^{\circ} \pm 10^{\circ}$ to the back rest plane. Remove the back force and then the seat force. Repeat the operation for 10 cycles.	PASS
Seat front edge static load test (EN 1728:2012, 7.4)	Position the smaller seat loading pad at loading point F or J. Apply a vertical downward force of 1600N through the centre of the loading pad. Repeat the operation for 10 cycles.	PASS
Foot rest static load test (EN 1728:2012, 7.8)	Apply a downward force of 1300N to the seat at the seat loading point. Apply a vertical force 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, apply the force 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 operation for 10 cycles.	NA



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printe overleaf, available on requests or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions.apx">https://www.sgs.com/en/Terms-and-Conditions</a> for electronic Pormat document subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com/en/Terms-and-Conditions/Terms--Document.asp.">https://www.sgs.com/en/Terms-and-Conditions/Terms--Document.asp.</a> Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document. Attention is drawn to the subject of the desired from the desired



**Test Report** No.: AJHL2211005167FT Date: JAN 03, 2023 Page: 7 of 10

Test Item		Test Method & T	est Requirem	ent	Test Result
Seat and back durability	be applied loaded. Al Chairs wit movemen half of the half of the free to mo If the back to move, the adjustable above poil loaded.	oad shall be applied verification angle of $90^{\circ}\pm10^{\circ}$ at an angle of $90^{\circ}\pm10^{\circ}$ l chairs shall be tested to he a locking device for sets shall be tested in step cycles and then with the cycles. In steps 3, 4 and eve.  A rest pad is pivoting arowhe horizontal force shall be, the axis shall be set as not "A". If the axis cannot to produce the same ber	o to the back roo steps 1 to 5. eat and/or back o 2 first with the device unlock of 5 the mechal und a horizont be applied on s close as possibe adjusted to	est when fully  a rest angle be device locked for ked for the other nism shall be set  al axis and is free the axis. If height sible to 300 mm be 300 mm, adjust	PASS
(EN 1728:2012, 7.9)	Step	Loading point	Force (N)	Number of cycles	
	1	Α	1500	120000	
	2	C B	1200 320	80000	
	3	J E	1200 320	20000	
	4	F H	1200 320	20000	
	5	D and G (alternating)	1100	20000	
Armrests durability (EN 1728:2012, 7.10)	Apply the force of 400N 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. Apply the force to both arm rests simultaneously for seating with only one seating position and to one arm rest only for seating with multiple seating positions.  Repeat the test for 60000 cycles.			PASS	
Armrest downward static load test – central (EN 1728:2012, 7.5)	Apply the force to both arm rests simultaneously and vertically at the middle point of the arm rest length and centred side to side. 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.  Test force (N): 750 Number of cycles: 5  Test force (N): 900 Number of cycles: 5			PASS	





**Test Report** No.: AJHL2211005167FT Date: JAN 03, 2023 Page: 8 of 10

Test Item	Test Method & Test Requirement	Test Result
Rolling resistance tes		
Rolling resistance test and requirements (EN 1335-2:2018, 5.3)	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 $\geq 12$ N. 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.	PASS
Information for use (E	EN 1335-2:2018, 6)	
Information for use (EN 1335-2:2018, 6)	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.	NT
Functional tests (EN1	335-2:2018, Annex A)	
Arm rest downward static load test – front (EN 1728:2012, 7.6)	Apply the force of 450N to both arm rests simultaneously and vertically acting at 75 mm from the front edge and centred side to side. Repeat the operation for 5 cycles.	PASS
Arm rest sideways static load test (EN 1728:2012, 7.7)	Apply an outward force of 400N to one arm rest or to each arm rest of the unit simultaneously at the points along the arm rest most likely to cause failure, but not less than 100 mm from the end of the arm rest structure. Repeat the operation for 10 cycles.	PASS
Swivel test (EN 1728:2012, 7.11)	(EN 1728:2012, loading point A with a mass M <sub>1</sub> of 60kg and in loading point C with a	



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printe overleaf, available on requested or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions.argo-read-conditions.argo-read-



**Test Report** No.: AJHL2211005167FT Date: JAN 03, 2023 Page: 9 of 10

Test Item	Test Method & Test Requirement	Test Result
Foot rest durability (EN 1728:2012, 7.12)	Apply the specified downward force of 900N to the seat at the seat loading point. Apply a vertical force 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 operation for 50000 cycles.	NA
Castor and chair base durability (EN 1728:2012, 7.13)	Not apply to chairs with castors which are braked when the chair is loaded.  The chair shall be placed on a rotating table so that the rotating axis of the chair coincides with the rotating axis of the table. Load the seat in point A with M <sub>1</sub> 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 are not prevented. The castors shall be left free to swivel, the table shall be rotated with a rate of 6 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. Repeat the operation for 36000 cycles.	PASS

#### Remark:

1. NA = Not applicable; NT = Not tested





**Test Report** No.: AJHL2211005167FT Date: JAN 03, 2023 Page: 10 of 10

## **Photo Appendix**









SGS authenticate the photo on original report only

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

