

Test Report

Number: GZHH00591150

Applicant: CHANGSHA SUNAIR HOME FURNISHINGS CO.,LTD
NO.65, EAST OF YUTANG ROAD, INDUSTRIAL
PARK, JINYU VILLAGE, HUILONGPU TOWN,
NINGXIANG COUNTY, CHANGSHA CITY, HUNAN
PROVINCE, CHINA

Date: Apr 24, 2025

Attn: MR. LI

Sample Description:

One (1) piece of submitted sample said to be :

Item Name : **Relaxation Chair**

Item No. : **833RC1D**

Date Sample Received : Apr 15, 2025

Testing Period : Apr 15, 2025 to Apr 23, 2025



To be continued

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Tests conducted:

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

Conclusion:

Tested Sample
Submitted sample

Standard
EN 581-1: 2017 Outdoor Furniture – Seating and
Tables for Camping, Domestic and Contract Use –
Part 1: General Safety Requirements

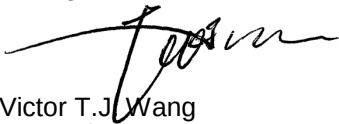
Result
Pass

EN 581-2: 2015/AC: 2016 Outdoors Furniture –
Seating and Tables for Camping, Domestic and
Contract Use – Part 2: Mechanical Safety
Requirements and Test Methods for Seating
(Test level: Contract use)

Pass
(See note 1)

Authorized by:

For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch, Hardlines


Victor T.J. Wang
General Manager



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Tests Conducted

1 General Safety Requirements for Outdoor Furniture

Test standard: EN 581-1: 2017, Outdoor Furniture - Seating and Tables for Camping, Domestic and Contract Use - Part 1: General Safety Requirements.

Number of samples tested: One (1) piece.

Dimensions: 686 mm W x 830 mm D x 800 mm H.

Weight: 5.6 kg.

Initial inspection: No any damage was found.

Executive Summary:

Clause	Requirement	Result
5.1 General	In order to avoid physical injury when the product is in its intended position of use, all edges and corners shall be rounded, chamfered or otherwise protected. This applies to: ---Seating: Edges of the seat, back rest and arm rests and any part of the bottom surface of the seat at a distance less than 120 mm from any edge, where a finger can commonly access; ---Tables: Table tops, any part of the underside of the top surface at a distance less 500 mm from any edge below the table, where a knee and/or an arm can commonly access. All other parts shall be free from burrs, sharp edges and sharp points. Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided. It shall not be possible for any load bearing part of the furniture to come loose unintentionally. All parts which are lubricated to assist sliding shall be designed to protect users from lubricant stains when in normal use.	P
5.2 Tubular components	There shall be no accessible holes in the ends of tubular components with a diameter between 7 mm to 12 mm and with a depth more or equal to 10 mm. The bottom of tubular legs in contact with the floor shall be closed or capped, however, holes in them are allowed as long as they are not between 7 and 12 mm.	P



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Clause	Requirement	Result
5.3 Shear and squeeze points		
5.3.1 Shear and squeeze points when erecting, adjusting and folding away	Unless 5.3.2 or 5.3.3 are applicable, shear and squeeze points that are created only during erecting, adjusting or folding away are acceptable providing the user can be assumed to be in control of his/her movements and to be able to cease applying the force immediately on experiencing pain.	NA
5.3.2 Shear and squeeze points under the influence of powered mechanisms	There shall be no accessible shear and squeeze points created by parts of the furniture operated by powered mechanisms, e.g. mechanical springs and gas lifts.	NA
5.3.3 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. attempting to move the seating by lifting the seat or by adjusting the backrest. For loungers, the loads applied during normal use are the loads used for the following mechanical tests in Table 1 of EN 581-2:2015: — Test 2: Additional seat and leg rest static load; — Test 3: Seat and back durability; — Test 4: Additional seat durability; — Test 5: Durability on back rest mechanism. For other seating, the loads applied during normal use are the loads used for the following mechanical tests in Table 2 of EN 581-2:2015: — Test 2: Seat front edge static; — Test 3: Combined seat and back durability; — Test 4: Durability test on seating with a multi-position back. For tables, the loads applied during normal use are the loads used for the following mechanical tests in Table 1 of EN 581-3:2017: — Test 1: Vertical static load on main surface; — Test 4: Vertical static load on ancillary surface; — Test 5: Horizontal durability test.	P

Abbreviation: P = Pass; NA = Not Applicable



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Tests Conducted

2 Safety, Strength and Durability Requirements for Other Seatings

With reference to EN 581-2: 2015/AC: 2016 – Outdoor Furniture – Seating and Tables for Camping, Domestic and Contract Use – Part 2: Mechanical Safety Requirements and Test Methods for Seating, the submitted samples were subjected to the following tests:

Number of samples tested: One (1) piece.

Test level: Contract use.

Initial inspection: No any damage was found.

Executive summary:

Clause	Test Items	Verdict
7.1	General	P (See EN 581-1)
7.2.1 (11), 7.2.1 (12), 7.2.1 (13)	Stability (Before strength and fatigue test)	P (See remark 1 & note 2)
7.2.1 (1)	Seat static load and back static load test	P
7.2.1 (2)	Seat front edge static load test	P
7.2.1 (3)	Combined Seat and back durability test	P
7.2.1 (4)	Durability test on seating with a multi-position back rest	NA
7.2.1 (5)	Arm rest static load test	P
7.2.1 (6)	Arm rest durability test	P
7.2.1 (7)	Leg forward static load test	P
7.2.1 (8)	Leg sideways static load test	P
7.2.1 (9)	Seat impact test	P
7.2.1 (10)	Foot rest static test	NA
7.2.1 (11), 7.2.1 (12), 7.2.1 (13)	Stability (After strength and fatigue test)	P (See remark 1 & note 2)
8	Instruction for use	
8.1	General	See note 3
8.2	Marking for mobile loungers	NA

Abbreviation: P = Pass; NA = Not Applicable;



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Tests Conducted

Remark

Please refer to stability tests result for details.

1 Stability of Furniture

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

Executive summary: (Before strength and fatigue test)

Clause	Test Items	Verdict
7.3.1	Forwards overturning	P
7.3.2	Forwards overbalancing for seating with foot rest	NA
7.3.4	Sideways overturning, all seating without arm rests	NA
7.3.5	Sideways overturning, all other seating	
7.3.5.2	Seating with arm rests	P
7.3.5.3	Seating with raised side edges	NA
7.3.6	Rearwards overturning, all seating with back rests	P
7.4	Additional test procedures for seating with reclining back rests	
7.4.2	Tilting seating	NA
7.4.3	Reclining seating with leg rest	NA
7.4.4	Reclining seating without leg rest	NA
7.4.5	Rearwards stability test for rocking chairs	NA

Abbreviation: P = Pass; NA = Not Applicable

Executive Summary: (After strength and fatigue test)

Clause	Test Items	Verdict
7.3.1	Forwards overturning	P
7.3.2	Forwards overbalancing for seating with foot rest	NA
7.3.4	Sideways overturning, all seating without arm rests	NA
7.3.5	Sideways overturning, all other seating	
7.3.5.2	Seating with arm rests	P
7.3.5.3	Seating with raised side edges	NA
7.3.6	Rearwards overturning, all seating with back rests	P
7.4	Additional test procedures for seating with reclining back rests	
7.4.2	Tilting seating	NA
7.4.3	Reclining seating with leg rest	NA
7.4.4	Reclining seating without leg rest	NA
7.4.5	Rearwards stability test for rocking chairs	NA

Abbreviation: NR = Not requested by client



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Note:

1. The strength and durability test refers to test methods of EN 1728:2012/AC: 2013 (D/E/F) – Furniture - Seating - Test methods for the determination of strength and durability.
2. Since EN 581-2:2015/AC:2016 has not been updated, in this report, the forward, rearward and sideways stability test requirements were referenced to EN 1022:2023 according to client's requirements.
3. Only the artwork of the Instructions for use was provided for viewed and the content was correct, but the size of lettering was not verified.

End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) tested. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek Testing Services Shenzhen Limited, Guangzhou Branch.



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