

Ningbo Hopfung Leisure Products Co., Ltd
Xiaodong Industry Zone Yuyao
China

TEST REPORT
No. **ATNB072413**
Issue Date: **30/01/2019**

Contact: Nicole

PRODUCT INFORMATION



Description: Swing Chair
Customer Reference: SW012
Supplier: Ningbo Hopfung Leisure Products Co., Ltd
Supplier Reference:
Reception Date: 21/01/2019
Test Started On: 22/01/2019
Test Ended On: 30/01/2019
Nature: Compliance



RESULTS

TEST REQUEST	TEST RESULT
General Product Safety Directive (GPSD) 2001/95/EC  EN 581-1 : 2017 - OUTDOOR FURNITURE : GENERAL SAFETY	PASS
General safety tests  EN 581-2 : 2015 / AC : 2016 - OUTDOOR FURNITURE : ARMCHAIR - DOMESTIC	PASS



Comments

Test level: Domestic

REMARK : The markings were not evaluated as per customer's request.

Pierre Flament
Lab Operation Manager



EN 581-1 : 2017 - OUTDOOR FURNITURE : GENERAL SAFETY

Title	Conclusion
5.1 General TEST METHOD: <i>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.</i> <i>This applies to:</i> -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 than 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.	PASS
5.2 Tubular components TEST METHOD: 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. These requirements shall be assessed using the test probes.	PASS
5.3 Shear and squeeze points	PASS
5.3.1 Shear and squeeze points when setting up and folding TEST METHOD 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.	PASS
5.3.2 Shear and squeeze points under the influence of powered mechanisms TEST METHOD 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. This requirement shall be assessed using the test probes.	NOT APPLICABLE
5.3.3 Shear and squeeze points during use TEST METHOD 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. This requirement shall be assessed using the test probes. 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. 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. 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.	PASS

EN 581-2 : 2015 / AC : 2016 - OUTDOOR FURNITURE : ARMCHAIR - DOMESTIC

Analysis #:	NB19036241
Overall Dimensions DxWxH (cm)	120 x 210 x 167
Weight (kg)	38.0

Title	Conclusion
-------	------------

Title	Conclusion
7 Safety, strength and durability requirements for other seating	PASS
7.1 General <i>Before and after the strength, durability and stability tests are carried out, the requirements of EN 581- 1 shall be fulfilled.</i>	PASS
7.2 Stability, strength and durability	PASS
7.2.1 Test sequence and parameters <i>The seating shall be tested following the order listed in Table 2 of EN 581-2</i>	PASS
Seat static load and back static load test TEST METHOD: <i>In reference to EN 1728:2012 cl. 6.4</i> <i>Seat load: Camping 1100N, Domestic 1600N, Contract 2000N</i> <i>Load applied on seat not being tested: 750N</i> <i>Backrest load: Camping Null, Domestic 410N, Contract 560N</i> <i>Minimum force F2 (back): Camping Null, Domestic 360N, Contract 500N</i> <i>Cycles: 10 + 1 Additional cycle 30 min ± 10 s</i>	PASS
Seat front edge static load TEST METHOD: <i>In reference to EN 1728:2012 cl. 6.5</i> <i>Force: Camping 1100N, Domestic 1300N, Contract 1300N</i> <i>Seat load: 750N</i> <i>Cycles: 10</i>	PASS
Combined Seat and back durability test TEST METHOD: <i>In reference to EN 1728:2012 cl. 6.17</i> <i>Seat load: 1000N</i> <i>Backrest load: Camping 250N, Domestic 333N, Contract 333N</i> <i>Minimum force F4 (back): Camping 220N, Domestic 300N, Contract 300N</i> <i>Cycles: Camping 12500, Domestic 25000, Contract 50000</i>	PASS
Durability test on seating with a multi-position back rest TEST METHOD: <i>In reference to EN 1728:2012 cl. 6.19</i> <i>Seat load: 750N</i> <i>Specified force: Camping 190N, Domestic 250N, Contract 250N</i> <i>Cycles: Camping 5000, Domestic 10000, Contract 20000</i>	NOT APPLICABLE
Arm rest static load test TEST METHOD: <i>In reference to EN 1728:2012 cl. 6.11</i> <i>Vertical force: Camping Null, Domestic 700N, Contract 900N</i> <i>Cycles: 10</i>	PASS

Title	Conclusion
<p>Arm rest durability test</p> <p>i TEST METHOD:</p> <p><i>In reference to EN 1728:2012 cl. 6.20</i></p> <p><i>Force: 400N</i></p> <p><i>Cycles: Camping 5000, Domestic 10000, Contract 30000</i></p>	PASS
<p>Leg forward static load test</p> <p>i TEST METHOD:</p> <p><i>In reference to EN 1728:2012 cl. 6.15</i></p> <p><i>Seat load: Camping 750N, Domestic 1000N, Contract 1000N</i></p> <p><i>Horizontal specified force: Camping 250N, Domestic 300N, Contract 400N</i></p> <p><i>Minimum specified force: Camping 150N, Domestic 175N, Contract 250N</i></p> <p><i>Cycles: 10</i></p>	PASS
<p>Leg sideways static load test</p> <p>i TEST METHOD:</p> <p><i>In reference to EN 1728:2012 cl. 6.16</i></p> <p><i>Seat load: Camping 750N, Domestic 1000N, Contract 1000N</i></p> <p><i>Horizontal specified force: Camping 250N, Domestic 300N, Contract 300N</i></p> <p><i>Minimum specified force: Camping 150N, Domestic 175N, Contract 200N</i></p> <p><i>Cycles: 10</i></p>	PASS
<p>Seat impact test</p> <p>i TEST METHOD:</p> <p><i>In reference to EN 1728:2012 cl. 8.8</i></p> <p><i>Drop height: Camping 140mm, Domestic 180mm, Contract 240mm</i></p> <p><i>Cycles: 10</i></p>	PASS
<p>Foot rest static test</p> <p>i TEST METHOD:</p> <p><i>In reference to EN 1728:2012 cl. 6.8</i></p> <p><i>Vertical force: Camping Null, Domestic 1000N, Contract 1200N</i></p> <p><i>Cycles: 10</i></p>	NOT APPLICABLE
<p>Forward stability</p> <p>i TEST METHOD:</p> <p><i>In reference to EN 1022. When tested the seat shall not overturn.</i></p>	PASS
<p>Rearward stability</p> <p>i TEST METHOD:</p> <p><i>In reference to EN 1022. When tested the seat shall not overturn.</i></p>	PASS
<p>Sideways stability</p> <p>i TEST METHOD:</p> <p><i>In reference to EN 1022. When tested the seat shall not overturn.</i></p>	PASS

Title	Conclusion
-------	------------

8.1 General

Comment:

❶ Instruction for use shall be provided in the language(s) of the country where the seating are sold.

These instructions shall be headed "IMPORTANT, RETAIN FOR FUTURE REFERENCE:READ CAREFULLY" in letters no less than 5 mm high, unless if the following information are permanently marked on the product.

It shall contain at least the following details:

a) name and address of the manufacturer/supplier/retailer;

b) conditions for use of the product (domestic, camping or contract).

If applicable:

c) assembly instructions;

d) instructions for the care and maintenance of the seating;

e) if the seating is fitted with seat height adjustments with energy accumulators, an additional note is required pointing out that only trained personnel may replace or repair seat height adjustment components with energy accumulators.

NOT REQUESTED



Front view



Side view



Back view

Version: 1

END OF REPORT

API LAB TESTING LTD

Unit F-G, 22/F, Golden Bear Industrial Centre,
66-82 Chai Wan Kok Street Tsuen Wan, New Territories, Hong Kong
Phone :+852-3719 8624 - email :apilabtesting@api-hk.com

This report is intended for your exclusive use. Any copy of the report to or for any other person or entity, or use of our name or trademark is permitted with our written permission. Our report is limited to the test sample identified herein. Sample are tested as received. The results set forth in this report are not necessarily indicative or representative of the statistical quality or characteristics of the lot from which a test sample was taken or any similar or identical product.

