



API LAB TESTING LTD

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TEST REPORT

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Date: 15-Dec-11

Attention: Mr. Lv

Yisure Industry & Trade Co.,Ltd
No.218 Cangchu Road,Jiangbei District city, Ningbo Zhejiang

Buyer :

Description : Garden kneeler
Dimensions: DxWxH :
Folded: 28 x 59 x 12 cm
Unfolded: 28 x 59 x 49 cm
Tube dia.: 20.0 mm
Weight: 2.6 kg

Reception Date : 06-Dec-11

Reference : 674667

Supplier:

Supplier reference: BZ101

Inspection:

PO:

Test started on : 06-Dec-11

Test ended on : 08-Dec-11

Sample tested as received

Test requested : EN 581 - 1 : 2006 : Outdoor Furniture : General safety

EN 581 - 2 : 2009 : Outdoor Furniture : Chair

Extension: Retest of ATNB002308



Conclusion

Furniture category : Camping

This product complies with the requirements of the EN 581-1:2006.

This product complies with the requirements of the EN 581-2:2009.

Remark : The instructions for use shall be provided in the language(s) of the country where the products are sold. Results taken from ATNB002308 except clause 5.2 of EN 581-1.

Boris LALYMAN
API LAB TESTING MANAGER



EN 581 - 1 : 2006

OUTDOOR FURNITURE -- SEATING AND TABLES FOR CAMPING, DOMESTIC AND CONTRACT USE PART 1 : GENERAL SAFETY REQUIREMENTS

Safety requirements for the design

5.1: Edges and corners

PASS

For seating, the edges and corners of the seat, back rest and arm rests which are directly in contact with the user when seating, lying or reclining shall be rounded or chamfered.

For table tops the edges and corners which are directly in contact with the user shall rounded or chamfered.

All other edges and corners of the seating and tables, accessible during use shall be free from burrs and/or sharp edges.

5.2:Externally accessible openings

PASS

Tubular components, holes and gaps accessible during use shall be covered if a 7mm or 12 mm probe can be pushed into them in any direction with a maximum force of 30 N to a depth of more than 10 mm and cannot be pulled out again in the reverse direction by a maximum force of 30 N.

Bottom of tubular legs shall be capped or plugged.

5.3: Externally accessible shear and squeeze points on movable parts

PASS

There shall be no accessible shear and squeeze points created by parts of the furniture operated by powered mechanisms.

There shall be no accessible shear and squeeze points created by loads applied during normal use.

For Seating, the loads applied during normal use in EN 581 - 2 for seating and for tables in EN 581 -3.

Shear and squeeze points are not acceptable if a hazard is created by the weight of the user during normal movements and actions.

Comments:



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EN 581 - 2 : 2009

OUTDOOR FURNITURE -- SEATING AND TABLES FOR CAMPING, DOMESTIC AND CONTRACT USE PART 2 : MECHANICAL SAFETY REQUIREMENT AND TEST METHODS FOR SEATING

6.2 Requirements

6.2.1: General safety requirements

PASS

The general safety requirements of the EN 581 - 1 shall be fulfilled.

6.2.2: Stability requirements

PASS

The stability requirements specified in EN 1022 shall be fulfilled.

6.2.3: Mechanical safety requirements

PASS

The requirements are fulfilled during and after testing

- a) There are no fractures of any joint, member or component;
- b) There is no loosening of joints intended to be rigid
- c) The seating fulfils its function after removal of the test loads.

7 Instructions

SEE COMMENT

7.1 General

Instructions for use shall be provided in the language(s) of the country where the chairs are sold. These instructions shall be headed "IMPORTANT, RETAIN FOR FUTURE REFERENCE : READ CAREFULLY" in letter no less than 5 mm high.

These instructions shall include at least the following;

- a) name and address of the producer (manufacturer or supplier);
- b) information regarding maintenance;
- c) conditions for use of the product (camping, domestic or contract)

7.2 Marking for mobile lounge

All mobile loungers not intended to be lifted and moved under the load specified in table B1 shall be marked with a pictogram as an example shown in figure 1 of the EN 581- 2 : 2009



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Test sequence and test parameters

Seat and back static load test

PASS

Seat force: camping (1100), domestic (1600), contract (2000).
force being applied for 10 x 10 seconds (+2 s) + 1 x 30 minutes (+- 10 s)
Back force : domestic (410 N) , contract (560 N).
force being applied for 10 x 10 seconds (+2 s) + 1 x 30 minutes (+- 10 s)

Seat front edge static load test

PASS

Seat force camping (1100), domestic (1300), contract (1300).
force being applied for 10 x 10 seconds (+2 s) + 1 x 30 minutes (+- 10 s)

Seat and back fatigue test for seating

PASS

Cycles camping (12500), domestic (25000), contract (50000)
Seat force camping (1000), domestic (1000), contract (1000).
Back bending moment camping (75 Nm) domestic (100 Nm) , contract (100 Nm).

Fatigue test on back rest mechanism

N.A

Cycles camping (5000), domestic (10000), contract (20000)
Seat load camping (100 kg), domestic (100 kg), contract (100 kg).
Force camping (190 N), domestic (250 N), contract (250 N)
Back bending moment camping (75 Nm) domestic (100 Nm) , contract (100 Nm).

Arm downward static load test

N.A

Vertical force : domestic (700 N), contract (900 N)

Arm fatigue test

N.A

Cycles : camping (5000), domestic (10000), contract (30000)
Force: 400N

Leg forward static load test

PASS

Seat load camping (75 kg), domestic (75 kg), contract (100 kg) Horizontal force
camping (250 N), domestic (300 N), contract (400 N).

PASS

Leg sideways static load test

Seat load camping (75 kg), domestic (75 kg), contract (100 kg) Horizontal force
camping (250 N), domestic (300 N), contract (300 N).

Seat impact test

PASS

25kg impactor dropped 10 times on the seat.



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API LAB TESTING LTD
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Phone :
Fax :

Foot rail static test for high seating

Vertical force domestic (1000 N), contract (1200 N).

Forward stability

When tested the seat shall not overturn

Rearward stability

When tested the seat shall not overturn

Sideways stability

When tested the seat shall not overturn

25-29 Kok Cheung street,
Tai Kok Tsui, Hong Kong

Comments

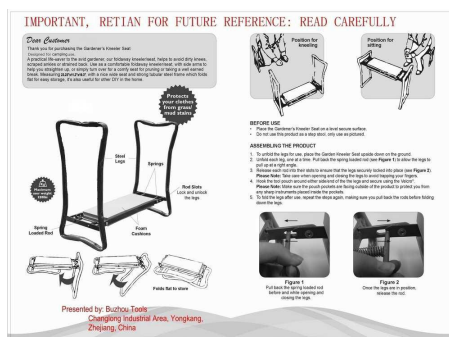
INSTRUCTION FOR USE : The instructions are only in English version and should be in the language of the destination country.



Front view



Side view



Marking

END OF REPORT