

# TEST REPORT

Report No. AL2105268401EN

Approved date: May. 17, 2021

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**Client** XINDAO B.V.**Address** P.O. BOX 3082, 2280 GB, RIJSWIJK, THE NETHERLANDS**The following submitted sample(s) was/were identified by/on behalf of the client as****Sample Name** Foldable beach lounge chair**Model No.** P453.11

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**Summary****Date Received** May. 5, 2021**Test Period** May. 5, 2021 to May. 14, 2021**Test Request** As specified by client, the test of the sample is as follows:**Conclusion**

1. Mechanical safety test for camping use
  - EN 581-1:2017 Outdoor furniture – Seating and tables for camping, domestic and contract use – Part 1: General safety requirements PASS
  - 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 (Excluding clause 8: Instruction for use) PASS
2. Regulation (EC) No. 1907/2006 (REACH regulation), Annex XVII
  - Entry 63: Lead and its compounds PASS
3. Free and hydrolysed formaldehyde content See Test Result

**For more information about the test, please refer to the following pages.**Compiled By He hai yingChecked By Zhu ZhengfengApproved by Jiang He  
Signed for and on behalf ofShanghai Lelangtek Testing Technology Co., Ltd. (2<sup>nd</sup> Floor, Building 4, No. 158, Jinfeng Road, Pudong District, Shanghai, China)

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**Sample Photo(s)**

Lelangtek authenticated the photo on original report only

**Test Component description**

- 1 Red fabric
- 2 Grey fabric
- 3 Black coating

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## Test Result

### 1. Mechanical safety test for camping use

Test specification: EN 581-1:2017, EN 581-2:2015/AC:2016, EN 1022:2018, EN 1728: 2012

<b>1.1 EN 581-1:2017 Outdoor furniture – Seating and tables for camping, domestic and contract use</b>			
<b>– Part 1: General safety requirements</b>			
<b>5</b>	<b>Safety requirements</b>	<b>Measuring results - Remarks</b>	<b>Evaluation</b>
5.1	General	--	PASS
5.2	Tubular components	--	PASS
5.3	Shear and squeeze points		
5.3.1	Shear and squeeze points when erecting, adjusting and folding away	--	PASS
5.3.2	Shear and squeeze points under the influence of powered mechanisms	--	N/A
5.3.3	Shear and squeeze points during use	--	PASS
<b>1.2 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</b>			
<b>Sample description:</b>			
<b>Overall dimensions (mm):H x W x D: 385/425 x 515 x 1600/1400mm</b>			
<b>Weight (kg):1.21</b>			
<b>Type of furniture: Camping Use</b>			
<b>1</b>	<b>Scope</b>		
<b>2</b>	<b>Normative references</b>		
<b>3</b>	<b>Terms and definitions</b>		
<b>4</b>	<b>Testing</b>		
<b>5</b>	<b>Test equipment</b>		
<b>6</b>	<b>Safety, strength and durability requirements for loungers</b>		
<b>6.1</b>	Before and after the strength, durability and stability tests are carried out, the EN 581-1 requirements shall be fulfilled	Refer to result(s) of EN 581-1	PASS
<b>6.2</b>	Stability, strength and durability	--	/
<b>6.2.1</b>	Testing sequence and parameters	Refer to Table 1	/
<b>6.2.2</b>	Requirements	Refer below clause(s)	/
/	1. Seat and back static load test (EN 1728:2012, 8.2)	--	PASS

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/	2. Additional seat and leg rest static load test (EN 1728:2012, 8.3)	--	N/A
/	3. Seat and back durability test (EN 1728:2012, 8.4.1)	--	PASS
/	4. Additional seat durability test (EN 1728:2012, 8.4.2)	--	PASS
/	5. Durability test on back rest mechanism (EN 1728:2012, 8.5)	--	PASS
/	6. Arm rest static load test (EN 1728:2012, 8.6)	--	N/A
/	7. Arm rest durability test (EN 1728:2012, 8.7)	--	N/A
/	8. Impact test (EN 1728:2012, 8.8)	--	PASS
/	9. Lifting test for mobile loungers (EN 1728:2012, 8.9)	--	N/A
/	10. Forward stability (Annex 1.2):	--	N/A
/	11. Rearward stability, upright (EN 1022:2005, 6.6):	--	PASS
/	Rearward stability, reclined (EN 1022:2005, 7.5):	--	PASS
/	12. Sideways stability (Annex 1.1):	--	N/A
<b>7</b>	<b>Safety, strength and durability requirements for other seating</b>		
<b>8</b>	<b>Instruction for use</b>		
8.1	<p><b>General</b></p> <p>Instruction for use shall be provided in the language(s) of the country where the seating are sold. These instructions shall be headed</p> <p>"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.</p> <p>It shall contain at least the following details:</p> <ul style="list-style-type: none"> <li>a) name and address of the manufacturer/supplier/retailer;</li> <li>b) conditions for use of the product (domestic, camping or contract).</li> </ul> <p>If applicable:</p> <ul style="list-style-type: none"> <li>c) assembly instructions;</li> <li>d) instructions for the care and maintenance of the seating;</li> <li>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</li> </ul>	--	N/T

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8.2	<b>Marking for loungers</b> Loungers equipped with wheels, but not intended to be lifted and moved with a person in it shall be permanently marked with the pictogram as shown in Figure 2. The smallest dimension of the pictogram shall not be less than 25 mm. <div data-bbox="513 600 772 797" data-label="Image"> </div>	--	N/A
9	<b>Test report</b>		
/	<b>Annex A</b> (normative) <b>Forward and sideways stability tests for loungers</b>		
/	<b>Annex B</b> (informative) <b>Purchase Information (Guideline)</b> To allow the consumer to select a product that will be suitable for the intended use prior to purchase, purchase information should be available without the need to open any package. This should include: <ul style="list-style-type: none"> <li>- identification of the product;</li> <li>- product characteristics such as dimensions, storage information, maintenance.;</li> <li>- conditions for use of the product (camping, domestic or contract).</li> </ul>	--	/

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**Table 1 — Test sequence and test parameters for loungers**

Test	References	Test parameters			
			Camping	Domestic	Contract
1. Seat and back static load test <sup>a</sup>	EN 1728:2012, 8.2	Specified seat load, N	1 100	1 600	2 000
		Specified backrest load, N	-	410	560
		Minimum specified force F2 (back), N	-	360	500
		Cycles	10	10	10
		Additional cycle 30 min ± 10 s	1	1	1
2. Additional seat and leg rest static load test	EN 1728:2012, 8.3	Seat load on loading point, N	750	750	750
		Force applied on D-E point, N	600	900	900
		Cycles	10	10	10
		Additional cycle 30 min ± 10 s	1	1	1
3. Seat and back durability test	EN 1728:2012, 8.4.1	Specified seat load, N	750	1 000	1 000
		Specified backrest load, N	250	333	333
		Minimum specified force F4 (back), N	220	300	300
		Cycles	12 500	25 000	50 000
4. Additional seat durability test	EN 1728:2012, 8.4.2	Specified force, N	750	1 000	1 000
		Cycles	5 000	10 000	20 000
5. Durability test on back rest mechanism	EN 1728:2012, 8.5	Specified force, N	190	250	250
		Seat load, N	1 000	1 000	1 000
		Cycles	5 000	10 000	20 000
6. Arm rest static load test	EN 1728:2012, 8.6	Vertical specified Force, N	-	700	900 <sup>b</sup>
		Cycles	10	10	10
7. Arm rest durability test	EN 1728:2012, 8.7	Specified force, N	400	400	400
		Cycles	5 000	10 000	30 000
8. Impact test	EN 1728:2012, 8.8	Drop height, mm	140	180	240
		Cycles	10	10	10
9. Lifting test for mobile loungers	EN 1728:2012, 8.9	Load, N	1 000	1 000	1 000
		Cycles	500	1 000	2 000
10. Forward stability <sup>c,d</sup>	A.1.2				
11. Rearward stability <sup>c</sup>	EN 1022:2005, 6.6 for upright position and 7.5 for most reclined position				
12. Sideways stability <sup>c,d</sup>	A.1.1				
<sup>a</sup> If seat and back are of one piece of flexible material (e.g. textile), only the tests on seat shall be carried out.					
<sup>b</sup> If armrest is less than 15 mm wide, carry out test with 700 N.					
<sup>c</sup> In the case of seating which might not fulfil the stability requirements before carrying out any tests, the applicable stability tests may be carried out before starting the sequence of tests specified in this table.					
<sup>d</sup> This test is not applicable for seating with a seat height < 200 mm and a mass < 5 kg. The height shall be determined by measuring from the floor to the upper seating area on the geometrical centre of the unloaded seat.					

**EN 1022:2005 Domestic furniture – Seating – Determination of stability**

6.2	Forwards overbalancing, all seating	--	N/A
6.3	Forwards overturning for seating with footrest	--	N/A
6.4	Sideways overbalancing, all seating without arms	--	N/A
6.5	Sideways overbalancing, all seating with arms	--	N/A
6.6	Rearwards overbalancing, all seating with backs	--	PASS

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7.3	Tilting chairs	--	N/A
7.4	Rocking chairs	--	N/A
7.5	Reclining chairs with footrest	--	PASS
7.7	Reclining chairs without footrest	--	N/A
<b>EN 1022:2018 Furniture – Seating – Determination of stability</b>			
<b>7</b>	<b>Test methods for assessing stability of all seating except loungers</b>	--	N/A
<b>8</b>	<b>Loungers</b>	--	/
<b>8.1</b>	General The stability tests defined in Clause 8 are not applicable to loungers which have both a seat height < 200 mm and a mass < 5 kg. The height shall be determined by measuring from the floor to the upper surface of the seating area at the geometrical centre of the lounge loaded with 600 N applied vertically downward using the loading pad.	--	/
<b>8.2</b>	Requirements When tested according to 8.3, the seating shall not overturn.	--	/
<b>8.3</b>	Test procedures	--	/
<b>8.3.1</b>	Forwards overturning	--	N/A
<b>8.3.2</b>	Sideways overturning	--	N/A
<b>7.3.6</b>	Rearwards overturning all seating with back rests	--	PASS
<b>7.4.3</b>	Reclining seating with leg rest	--	PASS

Note:

- (1) N/A = not applicable, N/T = not tested
- (2) List of used test equipment could be traceable and provided separately upon request.
- (3) Clause(s) with the symbol " / " in the result refers to the result(s) of its sub-clause(s).
- (4) Clause 8 Instruction for use was not evaluated and covered in the report.

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## 2. Free and hydrolysed formaldehyde

Test method: With reference to ISO 14184-1-2011

Instrument: UV-Vis

Test Item	Result(mg/kg)		MDL (mg/kg)
	1	2	
Free and hydrolysed formaldehyde	ND	ND	16

Note:

- (1) mg/kg=ppm=parts per million
- (2) MDL=Method Detection Limit
- (3) ND=Not detected, the test results are below the method detection limit(MDL).

## 3. Annex XVII of European regulation (EC) No. 1907/2006 (REACH) with Amendment(s)--

### Entry 63:Lead and its compounds

Test method: With reference to IEC 62321-5: 2013

Instrument: ICP-OES

Test Item	CAS No.	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
		3		
Lead	7439-92-1	ND	10	500

Note:

- (1) mg/kg = ppm=parts per million,0.1%=1000mg/kg
- (2) MDL = Method detection limit
- (3) ND=Not detected, the test result(s) is/are below the method detection limit(MDL).

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