

Prüfbericht-Nr.: Test Report No.:	50042466 001	Auftrags-Nr.: Order No.:	154143100	Seite 1 von 8 Page 1 of 8
Kunden-Referenz-Nr.: Client Reference No.:	N/A	Auftragsdatum: Order date:	06.01.2016	
Auftraggeber: Client:	Bestway Inflatables & Material Corp. No. 3065 Cao An Road, Shanghai 201812, P.R. China			
Prüfgegenstand: Test item:	107cm (42") pool ladder			
Bezeichnung / Typ-Nr.: Identification / Type No.:	#58330			
Auftrags-Inhalt: Order content:	Test report required by client			
Prüfgrundlage: Test specification:	EN 16582-1:2015 Domestic swimming pools Part 1: General requirements including safety and test methods			
Wareneingangsdatum: Date of receipt:	29.12.2015			
Prüfmuster-Nr.: Test sample No.:	A000301354-001~002			
Prüfzeitraum: Testing period:	06.01.2016 - 19.01.2016			
Ort der Prüfung: Place of testing:	Shanghai			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von / tested by:		kontrolliert von / reviewed by:		
26.05.2016	Luke Xu / PE	26.05.2016	Yiliang Gu / Reviewer	
Datum Date	Name / Stellung Name / Position	Unterschrift Signature	Datum Date	Name / Stellung Name / Position
		Unterschrift Signature		
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				

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Liste der verwendeten Prüfmittel
List of used test equipment

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Produktbeschreibung
Product description

1	Produktdetails <i>Product details</i>	107cm (42") pool ladder
2	Maße / Gewicht <i>Dimensions / Weight</i>	1.27m x 0.66m x 1.39m / 7.6kg
3	Verwendete Materialien <i>Used materials</i>	Steel, plastic



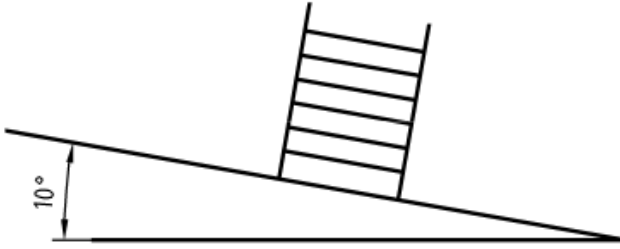
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Absatz <i>Clause</i>	EN 16582-1:2015 <i>Anforderungen - Prüfungen / Requirements - Tests</i>	Messergebnisse - Bemerkungen <i>Measuring results - Remarks</i>	Bewertung <i>Evaluation</i>
1	Scope	Swimming pool ladder.	P
2	Normative references	Informative.	P
3	Terms and definition	Informative.	P
4	General requirements and test methods		
4.1	General	Not applicable.	N/A
4.2	Tolerances	Informative.	P
4.3	Water leakage	Not applicable.	N/A
4.4	Minimum performance requirements for structural materials		
4.4.1	General	Not applicable.	N/A
4.4.2	Specific requirements and testing for corrosion resistance	Not worse than Ri 3 Rating.	P
4.4.3	Osmosis resistance of composites and polymers	Not applicable.	N/A
4.4.4	Wood	No wooden parts.	N/A
4.5	Injury risks		
4.5.1	Small elements, edges and corners	Found satisfactory.	P
4.5.2	Permissible openings		
4.5.2.1	Principle	Found satisfactory.	P
4.5.2.2	Finger and toe entrapment	Found satisfactory.	P
4.5.2.3	Head and neck entrapment	Found satisfactory.	P
4.5.2.4	Other body entrapment	Found satisfactory.	P
4.6	Accessibility		
4.6.1	General	Not applicable.	N/A
4.6.2	Secure access to the swimming pool	Not applicable.	N/A
5	Requirements and test methods for means of access		
5.1	General	Secured ladder.	P
5.2	Slip resistance	Tested satisfactory.	P
5.3	Crushing and entrapment hazards	See data table.	P
5.4	Ladders		
5.4.1	Dimensions The dimensional requirements relating to ladders are given in Table 6 and in Figure 6, Figure 7, Figure 8a and Figure 8b.	Ladder without platform, see Figure 6. Measurement see data table	P

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5.4.2	Load-bearing strength Apply a minimum force of 1500 N vertically to the center of the most unfavourable tread for 5 min. Then apply the same force at successively to the centre of the platform, if one exists. The test shall be performed over a surface area of 100 mm x 100 mm. No permanent deformation greater than 1% in relation to the length measured between the stiles shall be observed. Take the measurement within the minute following removal of the force NOTE For means of access with or without a platform and not attached to the wall, the load test should be performed on a rigid plate.	1500N applied on the top tread for 5 min. Measured distance between stiles: 330mm Max permanent deformation after test: 2.75mm $2.75/330 = 0.8\% < 1\%$	P
5.4.3	Test for lateral stability of removable ladders Place the ladder on a plane inclined by 10° in relation to the horizontal, according to Figure 9.  On completion of this test, the ladder shall not tip over. This test does not apply to embedded or fixed ladders.	Did not tip over.	P
5.4.4	Specific requirements for secured access points to enter the pool		
5.4.4.1	General	Secured ladder. Ladder front legs are removed in secured position.	P
5.4.4.2	Ladders with lifting access	Not applicable.	N/A
5.4.4.3	Ladders with retractable access	Not applicable.	N/A
5.4.4.4	Means of access to the deck (ladder or stairs)	Not applicable.	N/A

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5.4.5	Other requirements The treads shall not be able to rotate around their axis. Ladders inside the swimming pool shall be equipped with handrails, separated or not from the ladder vertical side supports. Ladders whose legs have an angle of inclination greater than 75° shall be embedded or fixed.	Treads are fixed. Ladder has handrails function. Not applicable.	P
5.5	Bearing points		
5.5.1	Recessed bearing points	Not applicable.	N/A
5.5.2	Raised bearing points		
5.5.2.1	Contour	Not applicable.	N/A
5.5.2.2	Control plane	Not applicable.	N/A
5.5.2.3	Potential bearing area	Not applicable.	N/A
5.5.2.4	Safe surfaces	Not applicable.	N/A
5.5.2.5	Type of raised bearing point	Not applicable.	N/A
5.6	Submerged stairs		
5.6.1	General	Not applicable.	N/A
5.6.2	Built-in stairs	Not applicable.	N/A
5.6.3	Fitted stairs	Not applicable.	N/A
5.7	Handrails	Not applicable.	N/A
6	Instructions for the consumer		
6.1	General principles		
6.2	Self-built/installed pools		
6.2.1	Point-of-purchase information	Not applicable.	N/A
6.2.2	Installation and commissioning manual	Not applicable.	N/A
6.2.3	Operating and maintenance manual	Not applicable.	N/A
6.3	Constructed / installed pools by professionals		
6.3.1	Point-of-purchase information	Not applicable.	N/A
6.3.2	Operating and maintenance manual	Not applicable.	N/A

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6.4	Means of access		
6.4.1	Point-of-purchase information If the means of access is sold alone (not included in the swimming pool kit), the point-of-purchase information specific to the means of access shall indicate at least the following, in order to allow the buyer to make a choice: - the reference to this document; - the type of means of access, e.g.: - secured means of access - unsecured means of access - the commercial name or reference; - illustrations repeating the overall dimensions of the product; - stepping height and width of the wall, if appropriate; - if appropriate, any indication concerning the construction of on-site reinforcement works for installing the means of access; - the warranty period(s) of the means of access. A handrail may be proposed with the means of access in case of use by people with mobility issues.	EN 16582-1 Secured means of access 107cm (42") Pool Ladder 1.27m x 0.66m x 1.39m 107cm (42") wall height and 30cm (11.8") wall width NA 90 days Not necessary.	P
6.4.2	Operating and maintenance manual The operating and maintenance manual of the means of access, if supplied alone, shall contain at least the following information: - the instructions regarding the winterising of the means of access itself; - an indication of the maximum allowable weight - a clarification on the fact that the means of access shall not be used for other purposes; - if appropriate, recommendations concerning the need to monitor bolts and screws, splinters or any sharp edges;	Ok 150kg Ok Ok	P
6.5	Examples illustrating pool sizes	Not applicable.	N/A
7	Safety signage	Not applicable.	N/A

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Absatz	EN 16582-1:2015	Messergebnisse - Bemerkungen	Bewertung
Clause	Anforderungen - Prüfungen / Requirements - Tests	Measuring results - Remarks	Evaluation

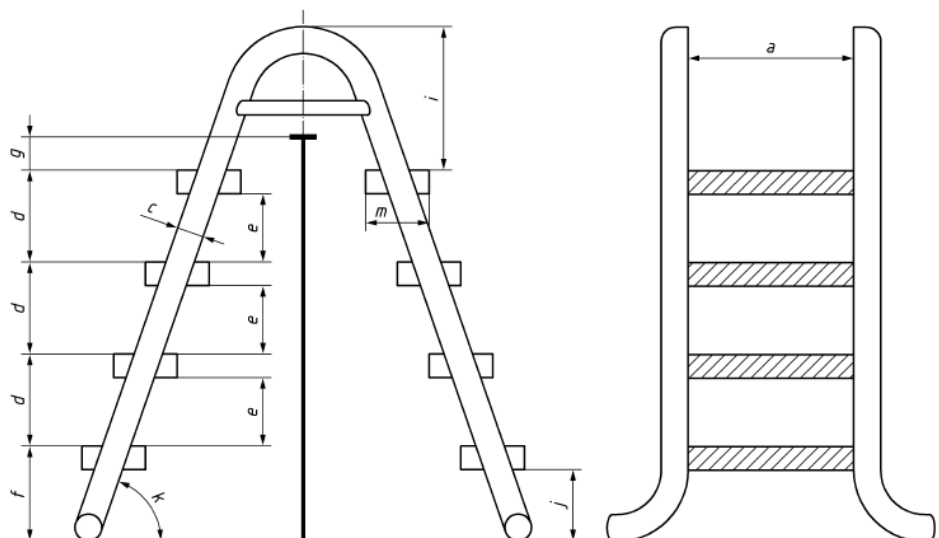


Figure 6 — Means of access without platform

Data table for dimensions

	Dimensions (mm) and angle (°)	Min	Max	Measured	Rating
a	Usable distance between stiles	320	/	330	P
c	Grip (inscribed circle)	Ø25	Ø50	Ø25.3	P
	Grasp	/	60	/	N/A
d	Stepping height between 2 treads		330	300	P
e	Entrapment space between 2 treads	> 45 and < 110 or > 230	/	260	P
f	Height of the 1st tread in relation to the ground, outside of the pool	/	400	343	P
g	Difference between the wall height (including coping) and the height of the last tread for external ladders without platform	/	150	136	P
i	Height of the handrails in relation to the last tread or the platform or the top of the wall (including coping for internal ladders)	400	/	466	P
j	Floor/or lower base distance of the stabiliser – 1st tread inside the pool	> 45 and < 110 or > 230	/	303	P
k	Angle of inclination of the legs in case of:				
	- detachable ladders	60	75	74.6	P
	- fixed ladders (on the inside of the pool)	60	90	/	N/A
	- fixed ladders (on the outside of the pool)	60	80	/	N/A
m	Width of treads	36	/	66	P

- END OF TEST REPORT -