

TEST REPORT

REPORT NO.: YST2206060138RR

Applicant : Heemskerk Enterprise

Address : Woerden, Breeveld 9 3445BA The Netherlands

Report on the submitted sample said to be:

Sample name : Inflatable tank

Model : Inflatable tank

Trade Name : N/A

Manufacturer : Henan Junwen Trading Co., Ltd

Address: Riyuehui Building, Xihuan Road, Longting District, Kaifeng, Henan,

China

Sample received date : Jun.06, 2022

Testing period : Jun.06, 2022 to Jun.10, 2022

TEST REQUESTED	RESULT
EN ISO 25649-1:2017 Part 1: Classification, materials, general requirements and test methods	PASS
EN ISO 25649-2:2017 Part 2: Consumer information	PASS
EN ISO 25649-3:2017 Part 3:Additional specific safety requirements and test methods for Class A devices	PASS

****** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) ******

Prepared by(Engineer):	Ler Chem	_
Approved by(Manager) :	WASTONE TO BE	
Approved by (manager).		_

	equirements and test methods		
5	General safety requirements and test methods re	lated to all classes	
5.1	General		
5.2.1.1	Introduction		
	Floating leisure articles shall not have accessible design features that may cause bodyentrapment. This requirement is deemed to be met if the following requirements are met and the specified test procedures prove that body entrapment does not occur. Design features i.e. gaps, openings, slots etc. are categorised in design types A to E as shown in Annex A and Annex B. They include features providing fixed interior spaces and such with flexible interior components/spaces and thus variable dimensions. Design features likely to cause entrapment may be arranged in the plane but also in 3-dimensional structures providing considerable height as e.g. ladder structures, labyrinths or body enclosing structures. Testing should be undertaken according to the instructions laid out in this document.		Ρ
5.212	Accessibility		
<u> </u>	Design features accessible to the test person in any stable floating position the product can take on the water.		Р
5.2.1.3	Product categorization regarding age group and	body weight of user/test	
	persons/torso templates		
5214	Products shall be labelled with regard to their intended user groups according to ISO 25649-2. With regard to body entrapment floating leisure articles are to be distinguished in two sizes only: child use and adult use: Child use includes age group 3 years to 10 years of age/body weight 18 kg to 45 kg respectively. Products for combined child /adult use or adult use only include all other user groups. According to these user groups the relevant foot and torso probes or the test persons shall be applied for testing.		Р
5.2.1.4	Probes		
5.2.1.4.1	Foot probe, child		
	Test probe (see Figure 1), 3 years, 5th percentile (smallest foot dimension).		Р
5.2.1.4.2	Torso probes, adult and child		
5.2.1.4.3	Test subjects		
	Test subject representing the child of 10 years of age: test subject No. 4 according to Table 2. Test subject representing the adult: test subject No. 1 according to Table 2.	higher than 600 mm	Р
5.2.2	Requirements on body entrapment	-	
	When tested in accordance with 5.2.3 all design features of a floating leisure article as e.g.gaps, openings, slots etc. which allow the initial ingress of		Р



Shenzhen YES Testing Technology Co., Ltd. REPORT NO.: YST2206060138RR the foot probe according to 5.2.1.4.1 shall prove that they subsequently allow the free passage of either the appropriate (see 5.2.1.3) test probe (adult/child) according to 5.2.1.4.2 or the relevant test subject according to 5.2.1.4.3. For design features likely to cause body entrapment see categorization of types of openings in Annex B. 5.2.3 Test procedure In general testing shall be performed with the probes(child/adult) as specified in 5.2.1.4 which is in cases where the design features likely to cause entrapment allow a simple dimensional check i.e. a pass or not-pass assessment of the template(s). The appropriate test probe shall be applied vertically and pushed into the gaps openings etc. with a force of 100 N. In special cases where body entrapment depends on the flexibility of body enclosing components or where the arrangement of such hazardous design features is too complicated for a simple dimensional check testing shall be done by the appropriate test subject. The procedure shall be an in-water test and shall Р include access to the hazardous feature in any stable floating position the product can take. Subject tests shall include the following sub sequences: a) appropriate test person is intentionally getting access into the potential entrapment design feature with the intent to pass through; b) head first access, feet first access; c) it shall be checked whether the process of intentionally and actively accessing the feature of entrapment turns itself into an opening movement and thus release of the test person (see Annex B). 5.2.4 Depths of gaps and openings Openings, gaps, slots etc. are considered as not causing body entrapment if they have a restriction in depth which prevents the user from getting too deep into it. This depth shall not allow an entry of the foot probe according to 5.2.1.4.1 of more than 30 cm for products intended for adult use only and not more as 20 cm for products intended for child use or combined adult and child use. 5.2.5 Method of measuring a) The foot probe is put into the potential entrapment design feature in any direction but not more than at an angle from vertical to 45°. The force applied to the foot probe is 100 N max. Р b) When the probe is blocked the depth of entry from the first contact point to the depth, which is reached after the application of 100 N shall be measured along the virtual line of entry. 5.3 Torso entrapment on safety line with regard to children 5.3.1

Requirements



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	The child torso probe as shown in Figure 4 shall pass through the opening between safety line and the hull of the device at any position under the force of its own weight.		Р
5.3.2	Test method		
	Put probe for torso entrapment horizontally into the gap between safety line and hull of the inflated structure. Check whether the probe becomes trapped. Test probe, 3 years, 95th percentile (biggest torso dimension, material: pine wood or similar).		Р
5.4	Accessible protruding parts causing entangleme	nt	
5.4.1	Requirements		
	To prevent the user from entanglement when unintentionally sliding out or from a device, there shall be no hazardous protrusions. The test rope shall slip of any part of the device that protrudes in the area where the user intentionally and foreseeably interacts with the product.		Р
5.4.2	Test method		
	A loop of the test rope of 8 mm diameter plaited polyester rope as shown in Figure 5 shall be put around the protruding part. The pulling direction in relation to the protruding part shall be vertically to the centre line of this part. With the product in the position to simulate its intended use, apply a pulling force of 180 N either vertically downwards or in a downward direction most likely to cause failure. It		Р
	shall be checked whether the test rope disengages under any circumstances, such as capsize, slip off,		
5.5	shall be checked whether the test rope disengages under any circumstances, such as capsize, slip off, protruding part breakage, etc.		
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	shall be checked whether the test rope disengages under any circumstances, such as capsize, slip off, protruding part breakage, etc. Human subject testing General Testing for all specific parts of ISO 25649 depends highly on testing with human test subjects. Due to the very nature, diversity and disparity of the products concerned instrumental testing by using apparatuses, devices, etc. is not recommended. Also the use of rigid loads and distinct load application points should be replaced by positioning human test subjects. Thisapproachis appropriate to adapt to the flexibility and irregularity of the products. Therefore the determination and selection of an adequate test panel is of utmost importance. The same applies consequently for the assessment panel. Standard Model Cases how to determine and select test panels exist and can be		Р
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Shenzhen YES Testing Technology Co., Ltd. REPORT NO.: YST2206060138RR three independent technical experts experienced in assessing floating leisure articles. The assessment Ρ panel directs the test subjects to take positions and to perform according to the standard's test specifications and pass/fail criteria. The responsible test house staff shall provide measures to avoid any accident during testing. 5.5.4 Positioning and posture of test subjects for testing floating stability (if applicable) Each test subject shall be positioned: — on the intended position if there are distinct seats, sitting or laying areas or other positions for the user: on the position most likely to cause failure if free movement of users is possible; - with the back leaned to the outer wall if the device provides a clear inner area surrounded by a wall. The posture to be adopted shall be selected from the standard test postures as specified in 5.5.5 and stipulated in detail by ISO 25649-3 to ISO 25649-7. If there are various postures likely to be applied in practical use, the one most likely to cause failure shall be selected from the test postures (see 5.5.5) and applied for testing. Basic test postures 5.5.5 NOTE1 Posture1: upright standing, arms sideways to mid body, body centre line vertical, head upright. Posture 1.1 upright standing, arms/hands holding a grab handle, body centre line slightly lent back (7°), feet on surface or climbing fitting. Posture 2 kneeling position, torso rests on lower leg, arms/hands on upper legs, body centre line Ρ vertical, head upright. Posture 3 lying position, entire body stretched out horizontally, feet, legs, torso, arms head on resting surface. Posture 4 sitting position, legs stretched out or bent, hands on knees, torso centre line vertical, head up right. NOTE2 For test positions and variations of these basic test postures according to product design,



	see ISO 25649-3 to ISO 25649-7, Classes A to D.	
5.6	Design working pressure	
5.6.1	Requirements	
	The recommended working pressures (if	
	applicable) shall be specified by the manufacturer	
	for each main buoyancy chamber of the fully	
	inflated device. These pressures shall be indicated	
	on the device and in the operator's instruction	
	manual (see ISO 25649-2). If for any reason	
	working pressure is not given, inflate until full shape	
	and functionality is achieved. Where relevant, the	
	sequence of inflation shall be numbered next to the	
	chamber's inflation valves.In order that the user	P
	may ascertain that the specified working pressure	
	has been reached, the manufacturer shall provide	
	appropriate equipment or a pressure gauge for this	
	purpose.Alternatively, instructions shall be included	
	in the operator's instruction booklet, which will	
	enable a sufficiently close estimate to be made.	
	The working pressure shall be consistently	
	expressed in bars.	
5.6.2	Test method	
	Visual examination by the test panel.	Р
5.7	Load bearing components	
5.7.1	Requirements	
	If not otherwise stated in the specific parts all load bearing fittings, e.g. lifting and carrying handles, fittings for safety ropes, etc. shall be compatible with the material of the hull itself and shall not, when loaded as described in 5.7.2, break or result in any impairment in air tightness or water integrity.	Р
5.7.2	Towing device	
	Any cordage used for test purposes shall have a diameter of 8 mm. Progressively apply a load of 500N to all the earing components in any direction. Maintain it during 1 min.	Р
5.8	Load bearing components	•
5.8.1	Requirements	
	If not otherwise stated in the specific parts all load bearing fittings, e.g. lifting and carrying handles, fittings forsafety ropes, etc. shall be compatible with the material of the hull itself and shall not, when loaded as describedin 5.8.2, break or result in any	Р



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Floating articles not specifically excluding the use by children shall meet the requirements regarding parts moving against each other as specified in EN 71-1:2005, 4.10.1 d) and 4.10.2. Floating articles for adult use only shall have no accessible shearing and/or crushing points. Shearing and crushing points exist if the distance between two rigid movable parts is less than 25 mm. If access to shearing and crushing points is prevented by covers, none of the remaining openings shall allow a 5 mm cylindric probe to be inserted. Not applicable for oars and oar-locks. Test method Testing shall be by measurement and tactile		Р
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assessment		Р
Shearing and crushing points		
Requirements		
If applicable, the device shall remain airtight after each of the tests below (see 5.12.2 to 5.12.5). All tests shall be performed at a temperature of (20 ± 3) °C, unless specified otherwise.		Р
	ces manufactured from unsupporte	∌ d
working pressure as instructed by the manufacturer on the product or in the instructions but not less than 0,03 bar or, if no working pressure is given for test purposes a pressure of 0,06 bar is valid and keep the device inflated for 12 h. This test procedure shall be applied alternately to at least two adjoining inflated chambers (chamber 1, chamber 2) in turn as required in Figure 7 and shall comprise 50 inflation/deflation cycles. a) Inflate chamber 1 to a pressure of 1,1 times the design working pressure and keep it for the specified time. b) Deflate chamber 1 to zero pressure and inflate chamber 2 to 1,1 times of the design working pressure and keep it for the specified time. c) Repeat this process for 75 times (pressure tolerance: +10 % to -0 % of applied test pressure) Test the air tightness of all inflated air chambers in		Р
	orced or fabric covered material	
Inflate each compartment of the device to 1,5 times the manufacturer's design working pressure for 30 min. If no design working pressure is given, a pressure of 0,06 bar is valid. For Class D devices, a pressure of only 1,2 times the design pressure applies. No damage or rupture shall occur and the device shall be tested for air tightness as described in 5.12.5. NOTE Flocked film materials do not fall under the category of being "reinforced".		Р
	If applicable, the device shall remain airtight after each of the tests below (see 5.12.2 to 5.12.5). All tests shall be performed at a temperature of (20 ± 3) °C, unless specified otherwise. Pressure test Combined cycle pressure/static load test for device material Inflate all chambers of the device to the design working pressure as instructed by the manufacturer on the product or in the instructions but not less than 0,03 bar or, if no working pressure is given for test purposes a pressure of 0,06 bar is valid and keep the device inflated for 12 h. This test procedure shall be applied alternately to at least two adjoining inflated chambers (chamber 1, chamber 2) in turn as required in Figure 7 and shall comprise 50 inflation/deflation cycles. a) Inflate chamber 1 to a pressure of 1,1 times the design working pressure and keep it for the specified time. b) Deflate chamber 1 to zero pressure and inflate chamber 2 to 1,1 times of the design working pressure and keep it for the specified time. c) Repeat this process for 75 times (pressure tolerance: +10 % to -0 % of applied test pressure) Test the air tightness of all inflated air chambers in accordance with paper strip test in 5.12.4. Overpressure test for inflatables made from reinfold Inflate each compartment of the device to 1,5 times the manufacturer's design working pressure is given, a pressure of 0,06 bar is valid. For Class D devices, a pressure of only 1,2 times the design pressure applies. No damage or rupture shall occur and the device shall be tested for air tightness as described in 5.12.5. NOTE Flocked film materials do not fall under the	If applicable, the device shall remain airtight after each of the tests below (see 5.12.2 to 5.12.5). All tests shall be performed at a temperature of (20 ± 3) °C, unless specified otherwise. Pressure test Combined cycle pressure/static load test for devices manufactured from unsupporte material Inflate all chambers of the device to the design working pressure as instructed by the manufacturer on the product or in the instructions but not less than 0,03 bar or, if no working pressure is given for test purposes a pressure of 0,06 bar is valid and keep the device inflated for 12 h. This test procedure shall be applied alternately to at least two adjoining inflated chambers (chamber 1, chamber 2) in turn as required in Figure 7 and shall comprise 50 inflation/deflation cycles. a) Inflate chamber 1 to a pressure of 1,1 times the design working pressure and keep it for the specified time. b) Deflate chamber 1 to zero pressure and inflate chamber 2 to 1,1 times of the design working pressure and keep it for the specified time. c) Repeat this process for 75 times (pressure tolerance: +10 % to -0 % of applied test pressure) Test the air tightness of all inflated air chambers in accordance with paper strip test in 5.12.4. Overpressure test for inflatables made from reinforced or fabric covered material Inflate each compartment of the device to 1,5 times the manufacturer's design working pressure is given, a pressure of 0,06 bar is valid. For Class D devices, a pressure of only 1,2 times the design pressure applies. No damage or rupture shall occur and the device shall be tested for air tightness as described in 5.12.5. NOTE Flocked film materials do not fall under the category of being "reinforced".



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	Assemble the device in accordance with the		
	manufacturer's instructions and inflate it to a		
	pressure of 1,1 times the design working pressure.		
	If no working pressure is given, a pressure of 0,06		
	bar shall be used. When assembled, place the		
	device in a heat chamber, set at (60 ± 2) °C, for a		
	period of 6 h. On completion of the test period,		P
	remove the device from the heat chamber and		
	allow to cool down to ambient temperature. Test		
	·		
	the air tightness of the device in accordance with		
	the relevant test specified in 5.12.5 for devices		
	manufactured from reinforced material or 5.12.4 for		
	devices manufactured from unsupported material.		
5.12.4	Air tightness test for inflatables made from unsupported material		
	The air tightness is measured indirectly as		
	shrinkage of the material. Test all chambers for		
	buoyancy individually with all adjacent chambers		
	deflated. Inflate the chamber to be tested for		
	buoyancy to a pressure of 1,1 times the		
	manufacturer's design working pressure. If no		
	working pressure is given, a pressure of 0,06 bar is		Р
	valid. Immediately stick a strip of paper,		
	approximately 100 mm long, at its ends onto the		
	outer surface of the air chamber in a circumferential		
	direction. Cut the strip in half horizontally. Following		
	a test period of 2 h, there shall be no overlapping of		
	the two cut ends.		
5.12.5	Air tightness test for inflatables made from		
J. 12.3	reinforced or fabric covered material		
	Support or insulate the device from the floor and do		
	not expose it to any air currant and direct sunlight.		
	Inflate the device (all air chambers) for 30 min to a		
	pressure that is 20 % in excess of the		
	manufacturer's design working pressure if indicated		
	in order to pre-stretch the device. Then reset the		
	pressures to the design working pressure for a		
	further period of 30 min in order to stabilize		
	conditions. Reset the pressures to the design		
	working pressure and record the ambient		
	temperature and atmospheric pressure. Following a		
	test period of 24 h, the pressure drop shall not be		Р
	greater than 20 % in any air chamber. Record the		
	final ambient temperature and atmospheric		
	pressure. The temperature difference between the		
	start of the test and the end of the test shall not		
	exceed ±3 °C. The atmospheric pressure difference		
	1		
	between the start of the test and the test readings		
	shall not exceed ±1 %. For each rise or fall by 1°C		
	shall not exceed ±1 %. For each rise or fall by 1°C in ambient temperature, an allowance of 0,004 bar		
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	shall not exceed ±1 %. For each rise or fall by 1°C in ambient temperature, an allowance of 0,004 bar		



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5.13	Buckles and other fixings		
5.13.1	Requirements		
	If applicable, the device shall remain airtight after each of the tests below (see $5.13.2$ to $5.13.5$). All tests shall be performed at a temperature of (20 \pm 3) °C, unless specified otherwise.		Р
5.13.2	Test methods		
	Verification shall be executed by the test panel. In case of a locking system based on pressure, testing shall be done in accordance with EN 13138-3:2014, Annex E.		
6	Material requirements and test methods		<u> </u>
6.1	General		
6.1.1			
0.1.1	Requirements		
	All materials used in floating leisure articles shall be visually clean and free from contamination. They shall beselected by the manufacturer according to the stresses that are resulting from the intended service conditions and the requirements set out for shape, dimension, maximum load, etc. The use under normal conditions shall not materially impair their performance and they shall meet all the requirements specified in Clause 6 and Clause 7. To avoid rotting, all fibre materials shall not be made from natural fibres like cotton. For conditioning, the test procedure related to immersion in chlorinated salt water (see 6.2.3) and storage in cold and hot conditions (see 6.3) shall be carried out prior to all other tests.		Р
6.1.2	Test method		
	Visual inspection and manufacturer's certificate on request.		Р
6.2	Chemical requirements for materials making up the	ne hull, unsupported or reinforced	
6.2.1	General		
	In house or outside test confirmation may be allowed to verify compliance.		Р
6.2.2	Resistance to mineral oil		
6.2.2.1	Requirements		
	After the contact during a period of $(22 \pm 0,25)h$ the change in mass per unit area shall not exceed 100 g/c		Р
6.2.2.2	Test method		
	Carry out the test on the external side of the material in contact with the ambient environment as specified in ISO 1817 but with a sample size of 100 mm x 100 mm or a disc of 100 mm diameter by using normal mineral oil for diesel engines at a temperature of (40 ± 1) °C.		Р
6.2.3	Resistance to chlorinated salt water		
6.2.3.1	Water absorption		
	After the contact during a period of minimum 36 h the change in mass per unit area shall not exceed 100 g/m ²		Р
6.2.3.2	Test method		
	Carry out the test on the external side of the material in contact with the ambient environment as	-	Р



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	specified in ISO 1817 by using salt water composed of distilled water and 30 g of sodium chloride per litre at a temperature of (40 ± 1) °C.		
6.3	Physical requirements		
6.3.1	Resistance to cold		
6.3.1.1	Requirements		
0.0.1.1	After an exposure for 4 h and the following		
	treatment, there shall be no signs of cracking when the test sample is examined under a magnification of ×10.		Р
6.3.1.2	Test method		
	In accordance with ISO 4675, a sample with a size of (100 · 250) mm shall be kept in a suitable cooling chamber at a temperature of – 5°C. Then the sample shall be folded through 180° and kept under a weight of 5 kg for another 10 min in the cooling chamber. After removal the sample is examined for fractures or cracking.		Р
6.3.2	Resistance to heat		
6.3.2.1	Requirements		
	The test sample shall give neither evidence of blocking nor show damages of the surface after unfolding when the sample is examined under a magnification of 5 x.		Р
6.3.2.2	Test method		
	A test piece with a size of $(100 \cdot 250)$ mm shall be folded at its centre line, with the external sides laid together, and stored for 2 h in a heating chamber at a temperature of (60 ± 2) °C under a load of 50 N/50 cm ² . After removal from the heating chamber the sample is allowed to cool down for 2h under standard atmosphere, then unfolded and examined for blocking or surface damages.		Р
6.4	Mechanical requirements of unsupported hull ma	terials	I
6.4.1	General		
	Unless otherwise specified, the standard environmental conditions for the tests shall be a temperature of (20 ± 2) °C and a relative humidity of (65 ± 5) %.		Р
6.4.2	Resistance to puncturing		•
6.4.2.1	Requirements		
	Air filled buoyancy chambers shall remain air tight when tested according to the procedure given in 6.4.2.2.		Р
6.4.2.2	Test method		•
	Apply a force of 5 N to any part of the external surface of the device when inflated to the designed working pressure or until full shape and functionality is achieved if no working pressure is given through a steel needle tip with a radius of 0,5 mm. Apply the force gradually over a period of 5 s. Maintain the force for further 5 s. Upon completion of the procedure, submerge the device or the tested part of it in a bath of cold water and examine for leakage of air.		Р
6.5	Mechanical requirements for reinforced hull mate	rials	
6.5.1	General		



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	Specific requirements according to ISO 25649-3 to ISO 25649-7 apply.	Р
6.5.2	Adhesion of coatings (if applicable)	I.
6.5.2.1	Requirements	
	Where the hull of a floating leisure article consists of coated reinforcing materials (e.g. cloths), the adhesion between the coating and the substrate (base cloth) shall be sufficiently strong, so as to exclude any unintentionalseparation of the coating from the substrate during the intended use of the floating leisure article. The separating force between the coating and the reinforcing material shall be at least 20 N/cm ² .	Р
6.5.2.2	Test method	
	Carry out the test according to EN ISO 2411.	Р
6.6	Other materials	
6.6.1	Wood	N
6.6.1.1	Requirements	N
	The exposed types of timber and ply wood used shall be suitable for the application and the marine environment and shall be given weatherproof protection, such as paint, varnish or preservative, when exposed to the marine environment. All plywood used shall incorporate hardwoods for both internal and external veneers and the bonding adhesive shall be waterproof and boil-proof. The timber used shall be seasoned and free from sapwood, decay, insect attack, splits and other imperfections likely to adversely affect the performance of the material. The timber shall be generally free from knots but an occasional sound intergrown knot is acceptable. Adjoining edges and/or surfaces, including any end-grain, shall be effectively sealed. The legal regulations of the country or region of application shall be met. For the European region the selection of preservatives, relevant regulations shall be considered. Restrictions on the marketing and use of certain dangerous substances and preparations are addressed in the European Directive 76/769/EEC and its amendments, e.g. the restriction of organostannic compounds for crafts.	N
6.6.1.2	Test method	N
	Verification through visual examination by test	N
6.6.2	panel. Metal and synthetic material parts	N
6.6.2.1	Requirements	N
J.U.E. 1	Materials used shall be of a type, strength and finish, suitable for the intended purpose of the components and compatible with the marine environment.	N
6.6.2.2	Testing	N
	Visual inspection and/or manufacturer's certificate	N
C 7	on request.	1.4
6.7	Threads	
6.7.1	Requirements	1
	To sew load bearing components, only threads manufactured from synthetic materials whose	Р



	properties correspond to polyester or polyamide	
	fibres shall be used.	
6.7.2	Test method	
	Visual inspection and/or manufacturer's certificate on request.	Р

Abbreviation: P = Pass; N = Not Applicable

Note: all test results are only valid for the samples being tested.

Table 1 — Classification and criteria to distinguish floating leisure articles from aquatic toys

Class	Description/Structural design criteria	Not an aquatic toy because:
A ^b	Floating leisure articles intended for quasi-static	largest uninflated dimension ^a exceeds 1,2m
	Positional use on the water and position of user	when uninflated, due to size product is a risk
	upon the buoyant structure. Single and collective	to be blown into open waters and/or provokes
	use, mainly passive.Nor mally no mechanical	use in deep water, and/or
	means of propulsion, but possible.	labelling includes adult use; and/or
	Devices maybe of design that provides floating	 product is labelled not to be a toy; and/or
	stability others do not and have to be balanced by	use of product depends on deepwater or
	the user.	use in deepwater is foreseeable; and/or
	minimum length overall(uninflated, flat) =1,2m	product includes a body opening inside a
	minimum age above 36 months.	circumferential buoyancy system around the
		user's body and thus a serious entrapment risk.
B^b	Floating leisure articles intended for quasistatic	 largest uninfiated dimension^a exceeds 1, 2m;
	use but position of user inside a buoyant structure	and / or
	around the user's body(relatively tight fit) .Buoyant	product includes a body opening inside a
	structure fully enclosing or with openings.Devices	circumferental buoyancy system around the
	may provide a body holding system or user is	user's body and thus a serious entrapment
	expected to hold himself by the upper ams and	risk; and / or
	hands.Body holding system miqht be an	product needs for appropriate use a water
	integrated seat, straps or other means of holding	depth beyond user's standing depth; and/or
	regardless of the body posture(sitting, standing,	 product is labelled not to be a toy, and/or
	laying, kneeling etc.) .User's body is more or less	 intended use includes adults(label), and/or
	immersed.Nomally the upper part(chest upwards)	use of product depends on deep water on
	is out of the water. Single or collective / passive or	use in deep water is foreseeable.
	active use.Nomally no mechanical means of	
	propulsion but possible. B2 minimum length: over	
	all(uninfiated, flat) =1,2m.	
	B1: use out of user's standing depth.	
	— minimum age / body weight variable but above	
	36 months / 18kg.	



REPORT NO.: YST2206060138RR Shenzhen YES Testing Technology Co., Ltd. Floating leisure aricle s for dynamic use, i.e. largest uninflated dimension^a exceeds 1.2m application at highspeed. Position of user is upon when uninflated; and/or or inside the buoyant structure. There maybe a — product is to wed by non-manual means and/or cockpit or seat or other means to give hold to the product use exceeds a speed limit of 3km/h; user. The device is to wed behind external means - intended use includes adult users(via of propulsion. Towing rope fixed to device or held labelling); and/or by user. User is required to manage floating - product is labelled not to be a toy, and/or stability and safe course behind the towing —use of product depends on deepwater, or devices. use in deepwater is foreseeable. C1: staticusetowable, static user. C2: activesportusetowable, active user, sport application. C3: activeextremeusetowable, active user, extreme application. use beyond user's standing depth minimum age variable but above 6 years. D_p largest uninfiated dimension^a exceeds 1.2m; Floating leisure articles for passive(resting, relaxing on flat surface) but mainly active use and/or i.e.climbing, jumping(more than 1m), swinging, product includes usability for jumping and rotating and any related activity. No distinct climbing on or to a he iq ht of more than 1,0m, position of user. Single or collective use. No and/or mechanical means of propulsion. Shall be labelling does not include the warming note anchored. according to EN71 concerning supervision and minimum length overall(uninflated, flat) use in shallow water only, and/or labelling includes adult use; and/or use of product depends on deepwater or minimum age variable but above 36 months use in deepwater is foreseeable E^b largest uninfiated dimension^a exceeds 1.2m; Inflatable boats wth buoyancy less than 1800 N and an overall length of more than 1,2m. Single and/or and collective use. Position of user inside the product is equipped or intended for buoyant structure(wide cockpit). Propulsion: mechanical means of propulsion; and/or manually, motor, sail. labelling does not include the warming note — minimum length overall(uninflated, fiat) =1,2m according to EN71 concerning supervision and minimum age variable but above 36 months. use in shallow water only, and/or labelling includes adult use; and/or use of product depends on deep water or use in deep water is foreseeable Except long thin protrusions as e.g. the neck of as wan shaped inflatable.

For typical products, see risk analysis



REPORT NO.: YST2206060138RR

Test probe (see Figure 1), 3 years 5. percentile (smallest foot dimension).

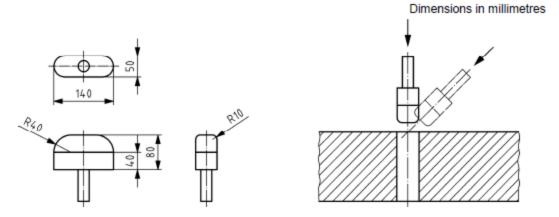


Figure 1 — Foot probe

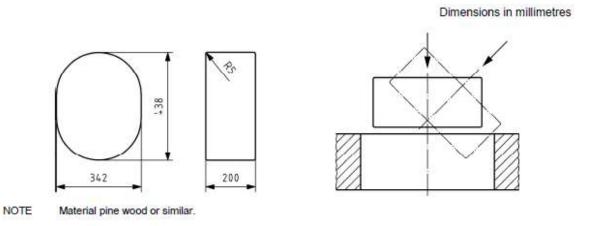


Figure 2 - Adult torso probe

Test probe, 3 years 5 percentile (smallest head dimension, see also EN 14960).

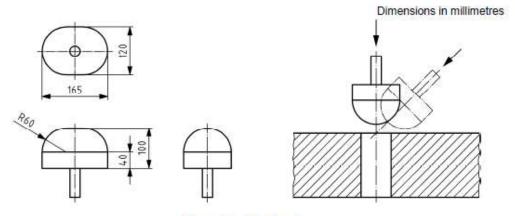
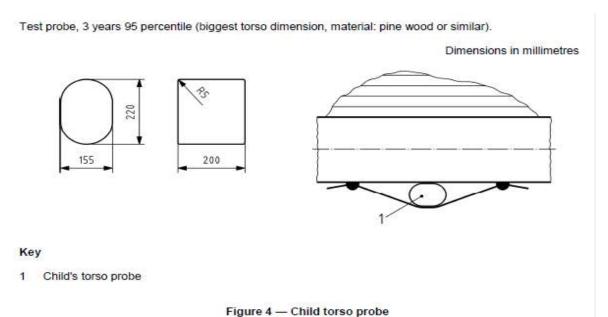


Figure 3 — Head probe

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rigure 4 — Child torso probe

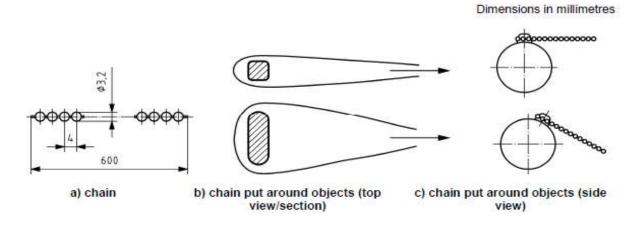


Figure 5 - Ball chain

Table 2 — Test panel

Test subjects	Sex	Age years	Body weight kg	Body size cm	Number of subjects	Mix ^b	Child/adult equivalence
Subject 1	Male	> 18	≧90	≧180	according to	1 times	
Subject 2	Male	> 18	70-80	≧170	manufacturers	50/50	
Subject 3	Female	> 18	65-70	≧160	instructions	50/50	2 children=1 adult
Subject 4 ^a	Female	> 18	40-45	< 150		_	

Test subject 4 represents a child. In order to avoid involvement of children in testing, the child subject is substituted by the statistically smallest adult women(5.percentile).

Test subjects shall be able-bodied and good swimmers. They shall be made familiar with the particularities of the product and the particularities of the inwater test procedures.

b If a device is classified for an unequal nmber of adult users, subject 1 shall constitute the majority.

Shenzhen YES Testing Technology Co., Ltd . REPORT NO.: YST2206060138RR EN25649-2 Part 2: Floating leisure articles for use on and in the water - Consumer information 4 Р Consumer information Р 4.1 General Р This information shall serve the purpose of: - information before buying (point of sale information); - information for preparing the product for use; - information relating to the use of the product; - information concerning maintenance, storage and repair. Ρ Consumer information at point of sale 4.2 (information before buying) 4.2.1 General Ρ Information at point of sale shall be given on the packaging or in a way that it can be noticed by the consumer, e.g. through a transparent cover. It shall include all data relevant for matching consumer needs with the performance characteristics of the product, in particular those related to the rough shape (appearance) and dimensions of the product, user specifications (age groups, body weight, etc. if applicable), load capacity, place of use, performance and relevant safety information. Ρ As means of conveying this information in a unified and comprehensible way, the safety information symbol and safety sign as specified in Clause 6 shall be applied. When necessary, safety information symbol and safety sign shall be supplemented by plain text. The order of safety information symbols shall follow a coherent approach following the logic of buying and use. The safety information symbols and the safety sign shall be grouped together as specified in 6.2. 4.2.2 Р General information to be provided - Name and address of supplier; - Type of device, designation; - Picture or diagram showing the rough shape of the Ρ inflatable and its main dimensions: - Number of this document 4.3 Information related to preparation for use Information for installation and preparing for use shall be

Р

given in the instructions for use. In cases of simple design

and use, it may be printed on the product.



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4.4	Information related to maintenance, repair and storage		Р
	Information on maintenance, repair and storage shall be given in the instructions for use.		Р
5	Requirements related to printing		Р
5.1	General		Р
	Printing containing information shall be in contrast to its		Р
	background. Supplementary safety information symbols		
	and general safety signs shall be printed as shown in		
	Clause 6.		
5.2	Durability of printings on the product		Р
	Printings of all information on the product shall		Р
	comply with the durability requirements given in		
	ISO 25649-1:2017, Clause 7.		
5 0	Language and letter size for plain text information on the	English	Р
5.3	product		
5.3.1	Requirements		Р
	Markings shall be printed or embossed in upper case,		Р
	letter size not less than 5 mm in height for the word		
	"WARNING" and not less than 3 mm in height lower case		
	for the remaining text. Colour may vary but shall always be		
	in contrast or relief to the background and be legible.		
	Plain text information shall be given in the language of the		
	country of sale.		
5.3.2	Testing		Р
	Verification by inspection.		Р
6	Product safety label		Р
6.1	General .		Р
	Safety information symbols and general safety signs on		Р
	the product or in the accompanying information material		
	shall be in accordance with the layout as presented in		
	Figure 1 to Figure 37.		
6.2	Safety information symbol	See product label	Р
6.2.1	Safety information symbols related to warnings		Р
	The safety information symbols below (allocation of the		Р
	safety information symbol, see 6.7) shall be headed		
	by the warning action sign in Figure 35.		
6.2.2	Safety information symbols related to prohibition		Р
	The safety information symbols below (allocation of the		Р
	safety information symbol see 6.7) shall be headed by		
		1	1



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6.2.3	Safety information symbols related to mandatory		Р
0.2.0	instruction		
	The safety information symbols below (for allocation of the		Р
	safety information symbol see 6.7) shall be headed by		
	mandatory action sign in Figure 36.		
6.3	Safety sign		Р
6.4	Position of safety information symbol and safety sign		Р
	Supplementary safety information symbols expressing		
	warnings shall be arrayed in a separate group and shall be		
	visible during use of the product. Graphical symbols or		
	other means of consumer information are deemed visible		
	during use if they are positioned on the top or sides of the		
	product that are above the water surface during use and		
	can therefore be seen when the product is placed in/on		
	the water for intended use. This includes visibility during		
	setup and/or boarding of the product. For those floating		
	leisure articles providing more than one position of use		Б
	(e.g. air mattresses), the graphical symbols or other		Р
	means of consumer information shall be placed on the		
	intended upper side of use. This group of supplementary		
	safety information symbol and safety sign should be		
	arranged as shown in Annex A.The supplementary safety		
	information symbol shall be placed below or beside the		
	safety sign. Examples are given in Figure A.1, Figure A.2		
	and Figure A.3.Figure 1 and Figure 20 shall be placed		
	separately on the product.		
	An example is given in Figure A.4 and Figure A.5.		
6.5	Colour of safety information symbols and safety sign.		Р
	Colour of safety signs (see 6.3) shall be in accordance		Р
	with ISO 3864-2. The safety information symbols shall		
	be in black and white. Safety information symbols and		
	safety sign for foam products may be embossed.		
6.6	Size of safety information symbol and safety sign		Р
	The size of safety information symbols and safety signs on	greater than 30 mm × 30 mm	Р
	the product shall be at least 30 mm × 30 mm minimum (for	minimum	
	safety information symbol see Figure 38).		
6.7	Allocation of the safety information symbols		Р
	The safety sign (see Figures 35, 36 and 37) categorize the		Р
	supplementary safety information symbols in "warnings		



symbols" "mandatory instruction symbols" and "prohibition symbols". The general safety signs in Figures 35, 36 and 37 shall always be used in combination with following relevant supplementary safety information symbol (see Table 1 to 12). NOTE Examples are given in Annex A. The messages specified in Table 1 to 12 represent the mandated safety information with which a floating leisure article and/or the packaging shall be labelled. Additional safety information shall be given if needed. It shall be visible and legible on the packaging and/or product. Tables 1 and 2 are applicable to all classes/sub classes/products.

Table 2 — Supplementary safety information symbols on the product applicable to all classes/sub classes/products

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Figure	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
All class- es/																				
sub class- es/	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	√b	√a
products																				
Figure	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	-	-	-
All class- es/																				
sub class- es/	1	-	-	*	-	-	-	-	-	-	-	-	-	-	1	*	1	-	-	-
products																				

With the exception of: ISO 25649-4, sub class B1, swim seats.

Table 3 — Additional supplementary safety information symbols on the packaging applicable to Class A products

Figure	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Class A1	-	√2	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
Class A2	-	√2	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-
Figure	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	-	-	-
Class A1	-	-	-	-	-	-	-	1	-	-	√b	√b,c	1	√a	-	-	-	-	-	-
Class A2	-	-	-	-	-	-	-	1	-	-	√b	√b,c	1	√a	-	-	-	-	-	-

If symbol 32 is used, symbols 13, 14 and 31 should not be used on the same product, conversely if symbols 13, 14 and 31 are used symbol 32 should not be used on that product.

With the exception of certain products per manufacturer's decision and inherent buoyant materials.

For rings only.

b Either supplementary safety information symbol 31 or 32.

According to manufacturer's decision.

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EN25649-3 Part 3: Floating leisure articles for use on and in the water - Additional specific safety requirements and test methods for Class A devices Safety requirements and test methods Р 4.1 General Р Construction of a floating leisure article shall be such that it corresponds in terms of design, dimensions, safety, strength and durability for its intended use. The requirements set out in this standard were chosen to ensure compliance with these considerations. If inflatable floating leisure articles shall provide buoyancy in several components then requirements apply to all components. Floating leisure articles shall provide residual buoyancy if one air chamber fails. This residual buoyancy shall maintain the safety of the device even if its function is lost. The following safety requirements are therefore related to: Р - design; - sizing; - materials: - strength; - performance; - information. In individual cases, due to the unpredictability, valency and indeterminability of existing and future concrete products, a corresponding choice shall be made. Design and appearance of floating leisure articles shall not change the intended primary function of these floating leisure articles nor introduce a toy play value. Design, sizing, admissible number of users and 4.2 Р maximum load capacity 4.2.1 General Ρ Devices shall be marked according to their size and / or Р number of permitted users and maximum load capacity. Р 4.2.2 Sizina Р 4.2.2.1 Requirements If a specific size/body weight correlation between user and device is relevant, the marking shall be in Р accordance with the range of body weights. The

size/body weights of the user shall be indicated on the



	product by completing the relevant boxes of the	
	appropriate safety information symbol "User's body	
	weight range" as specified in ISO 25649-2.	
4.2.2.2	Test method	
4.2.2.2		P
	Check for correct marking and completion.	Р
4.2.3	A1-products, space per person and admissible number	Р
4004	of users	
4.2.3.1	Requirements	P
	A1-products shall be labelled with regard to the	
	intended posture — lying/sitting — of the user(s)	
	and the maximum permissible number of users. The	
	minimum space for a user in lying posture shall	
	correspond to a flexible template (adult/child) the	
	dimensions of which are specified in ISO 25649-1:2017,	
	A.1.1. The minimum space for a sitting user shall	
	correspond to the template (adult/child) as specified	
	in ISO 25649-1:2017, A.1.2. In cases of combined use	
	(sitting and lying), the template for a lying person shall	
	be applied to determine the available area.	
	Templates may exceed the outer circumference of the	P
	device to a total amount of 30 %. This amount is	•
	divided in 15 % of template length for the head area	
	and 15 % of template length for the leg area (see	
	shaded area of templates in ISO 25649-1:2017, Annex	
	A). The angle between centre line of the template and	
	tangential of a possible back rest, board wall, etc. shall	
	be greater than 60° (see Figure 1). The total amount of	
	users determined by the templates shall not contradict	
	to the load capacity and floating stability of the device.	
	Space requirement using templates is not applicable for	
	ride-on devices where distinct upright seats and/or	
	seating positions are imposed by the device.	
4.2.3.2	Test method	Р
	Testing shall be done by applying the relevant	
	templates as specified in ISO 25649-1:2017, A.1 and	
	shown in Figure 1. Templates shall be stretched out	_
	over the area available to the user without overlapping.	P
	Templates may be arranged to optimize the amount of	
	users and the mix of adults and children without	



	contradicting to the load capacity of the device. Blank	
	areas of templates shall be completely inside the outer	
	circumference. Check by visual inspection for	
	appropriate labelling in accordance with safety	
	information symbols "Number of users, adult/children"	
	and/or "Maximum load capacity" as specified in	
	ISO 25649-2.	
	A2-products, space per person and admissible number	
4.2.4	of users	P
4.2.4.1	Requirements	Р
	A-2 products shall provide distinct seat(s) or sitting	
	areas or recognisable space where the user is to be	
	posi-tioned in the intended posture. Seats, etc. of ride-	
	on devices shall be equipped with at least one grab	
	handle for each permissible user. If the device implies	
	sitting in line of more than one user, the sitting space for	Р
	each user shall be at least a length of:	
	□ Child = 30 cm if the legs hang down;	
	☐ Child = 60 cm if the thighs follow the seat surface.	
	□ Adult = 35 cm if the legs hang down;	
	□ Adult = 70 cm if the thighs follow the seat surface.	
4.2.4.2	Test method	Р
	Visual inspection and measurement.	Р
4.3	In water performance	Р
4.3.1	Amount of buoyancy and stable floating position	Р
4.3.1.1	Requirements	Р
	All devices (A1, A2) shall provide sufficient buoyancy	
	and adequate buoyancy distribution to bear the weight	
	of the intended number of users. Floating devices shall	
	float stable with all test subjects placed on the intended	
	position and posture on the device. The design	
	supporting area shall not be flooded, not applicable if	
	the product is designed to provide a supporting area	Р
	which is intentionally under water. Floating leisure	
	articles claiming to provide floating stability (A1) shall	
	additionally meet the test as specified in 4.3.2.2.2.	
	When loaded with the maximum/minimum number of	
	passengers, the device shall maintain the stable floating	
	position as defined in ISO 25649-1:2017, 3.13.The	
L		



	T		
	capability of stable floating performance or the		
	need for balancing shall be marked on the		
	packaging via the relevant pair-safety information		
	symbol "Device provides floating stability" and		
	"Device requires balancing" as specified in		
	ISO 25649-2.		
4.3.1.2	Test method		Р
	The maximum number of test subjects according to		
	manufacturer's declaration (adults, children) shall be		
	placed within the available area with no part of the body		
	outside the product in a way as shown in Figure 2. If a		-
	device is classified for more than one user, the array of		Р
	all test subjects shall be done by applying the		
	determined postures and positions in a way most likely		
	to cause failure.		
	Residual buoyancy of devices claiming floating stability		
4.3.2	(CASES A, B)		N
4.3.2.1	General		N
	Where buoyancy is not provided by inherently buoyant		
	material, the device shall have a minimum of two		
	separate air chambers distributing the buoyancy so that		N
	the requirements in 4.3.2.2 are met.		
	CASE A, residual buoyancy and stable floating after		
4.3.2.2	failure of one air chamber		N
4.3.2.2.1	Requirements		N
	A1-devices without distinct circumferential air		
	chambers (walls) higher than the available area,		
	CASE B-designs:		
	a) shall at least provide a residual buoyancy which is		
	sufficient to keep all permissible users somehow		
	afloat on the device regardless of their posture on or in		
	the water when holding onto the device;		
	NOTE Persons are considered to be still on the device		N
	even if parts of the available area onto which they		
	can remain is partly flooded, respectively the device		
	takes a crucial floating angle so that these persons get		
	partly into the water.		
	b) the achievable floating position shall enable the		
	users to keep their airways above water level		
	in the state of th	1	

without exercising swimming strokes or any other active movements to keep them afloat except holding to the device; c) there shall be means on the device to grab on for each permissible user; d) these means shall be available and reachable for each permissible user after immersion. If the device is made up by several independent components these requirements apply for each of them. Testing shall be done in accordance with 4.3.2.3.2. Verification by assessment panel. 4.3.2.2.2 Test method N Load the device with the maximum number of users within the available area. Select test persons in accordance with ISO 25649-1:2017, 5.5. Apply posture 4 as specified in ISO 25649-1:2017, 5.5. or the variation of it [see Figure 2 a) to h) in 4.3.1.2] which corresponds most appropriately to the product design and intended function. If there are no district sitting positions, test subjects shall be positioned within the available area according to 4.3.1.2 and in a way most likely to cause failure (uneven load distribution inside the available area). Deflate the air chamber most likely to cause failure by sudden deflation. Check whether the requirements are met after test subjects have fallen into the water and taken action according to 4.3.2.3.1 a) to d). Verification by assessment panel. 4.3.2.3. CASE B, residual buoyancy and distinct means to hold on after failure of one air chamber A1-devices without distinct circumferential air
device; c) there shall be means on the device to grab on for each permissible user; d) these means shall be available and reachable for each permissible user after immersion. If the device is made up by several independent components these requirements apply for each of them. Testing shall be done in accordance with 4.3.2.3.2. Verification by assessment panel. 4.3.2.2.2 Test method N Load the device with the maximum number of users within the available area. Select test persons in accordance with ISO 25649-1:2017, 5.5. Apply posture 4 as specified in ISO 25649-1:2017, 5.5. for the variation of it [see Figure 2 a) to h) in 4.3.1.2] which corresponds most appropriately to the product design and intended function. If there are no distinct sitting positions, test subjects shall be positioned within the available area according to 4.3.1.2 and in a way most likely to cause failure (uneven load distribution inside the available area). Deflate the air chamber most likely to cause failure by sudden deflation. Check whether the requirements are met after test subjects have fallen into the water and taken action according to 4.3.2.3.1 a) to d). Verification by assessment panel. CASE B, residual buoyancy and distinct means to hold on after failure of one air chamber N Requirements
c) there shall be means on the device to grab on for each permissible user; d) these means shall be available and reachable for each permissible user after immersion. If the device is made up by several independent components these requirements apply for each of them. Testing shall be done in accordance with 4.3.2.3.2. Verification by assessment panel. 4.3.2.2.2 Test method N Load the device with the maximum number of users within the available area. Select test persons in accordance with ISO 25649-1:2017, 5.5. Apply posture 4 as specified in ISO 25649-1:2017, 5.5. 5or the variation of it [see Figure 2 a) to h) in 4.3.1.2] which corresponds most appropriately to the product design and intended function. If there are no distinct sitting positions, test subjects shall be positioned within the available area according to 4.3.1.2 and in a way most likely to cause failure (uneven load distribution inside the available area). Deflate the air chamber most likely to cause failure by sudden deflation. Check whether the requirements are met after test subjects have fallen into the water and taken action according to 4.3.2.3.1 a) to d). Verification by assessment panel. CASE B, residual buoyancy and distinct means to hold on after failure of one air chamber 4.3.2.3. Requirements
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4.3.2.3. CASE B, residual buoyancy and distinct means to hold on after failure of one air chamber 4.3.2.3.1 Requirements N
4.3.2.3. Non after failure of one air chamber N 4.3.2.3.1 Requirements N
on after failure of one air chamber 4.3.2.3.1 Requirements N
A1-devices without distinct circumferential air
chambers (walls) higher than the available area,
CASE B-designs:
a) shall at least provide a residual buoyancy which is
sufficient to keep all permissible users somehow N
afloat on the device regardless of their posture on or in
the water when holding onto the device;
NOTE Persons are considered to be still on the device
i l

	can remain is partly flooded, respectively the device	
	takes a crucial floating angle so that these persons get	
	partly into the water.	
	b) the achievable floating position shall enable the	
	users to keep their airways above water level	
	without exercising swimming strokes or any other active	
	movements to keep them afloat except	
	holding to the device;	
	c) there shall be means on the device to grab on for	
	each permissible user;	
	d) these means shall be available and reachable for	
	each permissible user after immersion.	
	If the device is made up by several independent	
	components these requirements apply for each of them.	
	Testing shall be done in accordance with 4.3.2.3.2.	
	Verification by assessment panel.	
4.3.2.3.2	Test method	N
	Load the device with the maximum number of users	
	within the available area. Select test persons in	
	accordance with manufacturer's declaration	
	regarding permissible users and in accordance with	
	ISO 25649-1:2017, 5.5. Apply posture 4 as specified in	
	ISO 25649-1:2017, 5.5.5 or the variation of it [see	
	Figure 2 a) to h) in 4.3.1.2] which corresponds most	
	appropriately to the product design and intended	
	function. If there are no distinct sitting positions, test	N
	subjects shall be positioned within the available	
	area according to 4.3.1.2 and in a way most likely to	
	cause failure (uneven load distribution inside the	
	available area). Deflate the air chamber most likely to	
	cause failure by sudden deflation. Check whether	
	the requirements are met after test subjects have fallen	
	into the water and taken action according to	
	4.3.2.3.1 a) to d). Verification by assessment panel.	
400	Residual buoyancy of floating leisure articles not	N I
4.3.3	claiming floating stability (CASES C, D)	N
4.3.3.1	CASE C, residual buoyancy	N
4.3.3.1.1	Requirements	N
	A2-products of floating articles for single and collective	

use, CASE C-designs: a) shall at least provide a residual buoyancy which is sufficient to keep all permissible users afloat when holding onto it: b) the achievable floating position shall enable the users to keep their airways above water without exercis-ing swimming strokes or any other active movements to keep them afloat except holding to the dewice; c) there shall be means on the device to grab on for each permissible user; d) these means shall be available and reachable for each permissible user after immersion. If the device is made up by several independent components, this requirement applies for each of them. Testing shall be done in accordance with 4.3.3.1.2. Verification by assessment panel. 4.3.3.1.2 Test method Load the device according to the maximum number of users within the available area. Select test persons in accordance with manufacturer's declaration regarding permissible users and in accordance with ISO 25649-1:2017, 5.5. Apply posture 4 or the variation of it (4a to 4e in 4.3.1.2) which corresponds most appropriately to the product design and intended function. If there are no distinct seats, position test subjects within the available area according to 4.3.1.2 and in a way most likely to cause failure through uneven load distribution inside the available area. Deflate the air chamber most likely to cause failure by sudden deflation. Check whether the requirements are met after test subjects have fallen into the water and taken action according to 4.3.3.1.1 a) to d). Verification by assessment panel. 4.3.3.2 CASE D, residual buoyancy N A2-products of floating articles for single use only, CASE D designs: N			
sufficient to keep all permissible users afloat when holding onto it; b) the achievable floating position shall enable the users to keep their airways above water without exercis-ing swimming strokes or any other active movements to keep them afloat except holding to the device; c) there shall be means on the device to grab on for each permissible user; d) these means shall be available and reachable for each permissible user; if the device is made up by several independent components, this requirement applies for each of them. Testing shall be done in accordance with 4.3.3.1.2. Verification by assessment panel. 4.3.3.1.2 Test method N Load the device according to the maximum number of users within the available area. Select test persons in accordance with manufacturer's declaration regarding permissible users and in accordance with lSO 25649-1:2017, 5.5. Apply posture 4 or the variation of it (4a to 4e in 4.3.1.2) which corresponds most appropriately to the product design and intended function. If there are no distinct seats, position test subjects within the available area according to 4.3.1.2 and in a way most likely to cause failure through uneven load distribution inside the available area. Deflate the air chamber most likely to cause failure by sudden deflation. Check whether the requirements are met after test subjects have failen into the water and taken action according to 4.3.3.1.1 a) to d). Verification by assessment panel. 4.3.3.2. CASE D, residual buoyancy N A2-products of floating articles for single use only,		use, CASE C-designs:	
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4.3.3.2 CASE D, residual buoyancy N 4.3.3.2.1 Requirements N A2-products of floating articles for single use only,		taken action according to 4.3.3.1.1 a) to d).	
4.3.3.2.1 Requirements N A2-products of floating articles for single use only,		Verification by assessment panel.	
A2-products of floating articles for single use only,	4.3.3.2	CASE D, residual buoyancy	N
	4.3.3.2.1	Requirements	N
CASE D designs:		A2-products of floating articles for single use only,	
		CASE D designs:	N
a) shall at least provide a residual buoyancy which is		a) shall at least provide a residual buoyancy which is	



	sufficient to keep the user when holding on to it after	
	immersion;	
	b) it shall be shown that the user is able to grab at least	
	the entire remaining buoyant structure or parts of it	
	in a way enabling him to stay safely afloat with the	
	airways above water level without exercising swim-	
	ming strokes or any other active movements to keep	
	them afloat except holding onto the device. If the device	
	is made up by several independent components, this	
	requirement applies for each of them.	
	Testing shall be done in accordance with 4.3.3.2.2.	
	Verification by assessment panel.	
4.3.3.2.2	Test method	N
	Load the device with the maximum number of users	
	within the available area. Select test persons in	
	accordance with manufacturer's declaration regarding	
	permissible users and in accordance with ISO	
	25649-1:2017, 5.5. Apply posture 4 or the variation of it	
	(4a) to e) in 4.3.1.2) which corresponds most	
	appropriately to the product design and intended	
	function. If there are no distinct seats, position test	
	subjects within the available area according to 4.3.1.2	N
	of the present standard and in a way most likely to	
	cause failure through uneven load distribution inside the	
	available area. Deflate the air chamber most likely to	
	cause failure by sudden deflation. Check whether the	
	requirements are met after test subject has fallen into	
	the water and taken action according to 4.3.3.2.1	
	a) to b).	
	Verification by assessment panel.	
4.3.4	Capsizing and escape	 Р
	Escape from the device (body entrapment, leg/foot	
4.3.4.1	entanglement)	Р
	In case normal foreseeable use and during the incident	
	of a sudden capsize none of the users shall become	
	entrapped, entangled or otherwise hindered from	
	complete separation off the device. For this purpose,	Р
	the standard is focussing on the following known major	
	entrapment risks:	
	ontraphioni noto.	

r			
	- foot/leg entrapment;		
	- head/neck entrapment;		
	- torso entrapment;		
	- entanglement due to protruding parts.		
	There shall be no entrapment/entanglement of the test		
	devices/test probes if they are applied on the product in		
	its normal working position.		
4.4.4.2	Test method for foot/leg entrapment	5.2	Р
4.3.4.3	Test method for torso entrapment	5.3	Р
4.3.4.4	Test method for protruding parts	5.4	Р
	4.3.5 Grab handles and safety lines (not applicable to		Р
4.3.4.5	air mattresses)		
	Grab handles and safety lines (not applicable to air		N
4.3.5	mattresses)		
4.3.5.1	Requirements		N
	Floating leisure articles of CASES A, B and C in 4.3.2.2;		
	4.3.2.3 and 4.3.3.1 shall be fitted with means of hold-ing		
	(grab handles, safety lines, etc.) for each permissible		
	user which are reachable from an on-board position		
	and/or also for persons in the water. Safety lines shall		
	be arranged in a way that they can be grabbed from an		N
	in-water position and shall not cause entrapment (see		
	4.3.2.2). The means of holding shall be provided re-		
	gardless of the floating stability of the device and shall		
	be reachable also in capsized condition of the device.		
	Testing in accordance with 4.3.5.2.		
4.3.5.2	Test method		N
	Visual check during one of the in water tests above.		N.
	Assessment by assessment panel.		N
400	Re-embarkation from the water in normal use and		N.
4.3.6	failure of one air chamber in CASE A1		N
4.3.6.1	Requirements		N
	Floating devices shall be so designed that a normal		
	user (test subject) is able to re-embark on the device.		N
	Testing shall be done in accordance with 4.3.6.2.		
4.3.6.2	Test method		N
	All test subjects of the test panel shall show that it will		
	be possible to climb back onto the device. Assessment		N



	by assessment panel.	
4.3.7	Extreme high super structure (wind, drift)	N
4.3.7.1	Requirements	N
	Floating articles of Class A having a superstructure	
	which exceeds 100 cm above water level shall be	
	restricted to pool use by marking them with the safety	N
	information symbol "Pool use only" according to	
	ISO 25649-2.	
4.3.7.2	Test method	N
	Measure height of super structure of the floating device	
	from floor to which the device is put to top of super-	
	structure and check for safety information symbol if	N
	need be.	
4.3.8	Anchorage	N
4.3.8.1	Requirements	N
	If a floating leisure article is equipped with an anchoring	
	device, it shall be capable to hold the device in place	NI
	up to a pulling force of 500 N. Testing shall be done	N
	according to 4.3.8.2.	
4.3.8.2	Test method	N
	Put the device in water with a depth of preferable (200 ±	
	20) cm. Activate anchoring device according to sup-	
	pliers instructions. Length of anchoring rope shall be 5	
	times the water depth but not shorter than 6 m. For	
	compensating the unnatural smooth surface of the test	
	pool bottom fix a threshold board (preferably a steel	N
	rod) of 3 cm diameter or a board with the dimensions of	IN
	(3 cm × 10 cm × 60 cm) on the pool bottom in a way	
	that it hampers the anchoring bag from slipping.	
	Pool/nature: apply a horizontal pulling force of 500	
	N. Check whether the device stays in position	
	(except the slip through tightening of the anchor cord).	
4.3.9	Giant rings with bottom, strength of entire device	Р
4.3.9.1	General	Р
	When tested in accordance with 4.3.9.2, no part or	
	component of the body holding system or its attachment	Р
	to the buoyant structure (welding seams) shall break or	•
	show any deficiency compromising safety.	



4.3.9.2	Testing giant rings with bottom	Р
	Place the device on an appropriate even surface in a	
	way that the buoyancy structure is completely	
	supported and the body holding system hangs freely	
	downwards inside the opening as shown in Figure 3.	_
	Load the body holding system (bottom) with a dead	P
	weight representing the body mass of the maximum	
	user of the desig-nated body weight range. Load	
	duration: 10 min, ambient temperature 20 °C.	
5	Consumer information	Р
5.1	General	Р
	Consumer information (on the packaging, on the	
	product and by means of written instructions for use)	Р
	shall be in accordance with ISO 25649-2.	
	Consumer information on the packaging (point of sale	
5.2	information)	Р
	Information on the packaging of Class A products shall:	
	- show a picture or dimensional correct drawing of the	
	floating article inside;	
	- disclose via the appropriate safety information	
	symbols any warning and restriction related to use	Р
	and application;	
	- disclose via the appropriate safety information	
	symbols the maximum number of users and the	
	maximum load capacity.	
	Consumer information on the product shall	
	- show via the appropriate safety information	
	symbols all warnings and obligatory instructions	
	related to the safe use of the product. Safety	
	information symbols related to very serious risks shall	
5.3	be accompanied by the plain text version as specified in	Р
	ISO 25649-2.	
	Very serious risks for Class A products are:	
	- Attention! No protection against drowning!	
	- Swimmers only!	
	Consumer information by instructions for use (separate	
5.4	written information)	Р
5.4.1	General	P
J. T. I	Instructions of use shall be in accordance with	Р
	instructions of use shall be in accordance with	F



	ISO 25649-2.		
5.4.2	Safety and product information		Р
	Instruction for use shall contain all information		Р
	provided in 5.1, 5.2 and 5.3. Warnings, obligatory		
	instructions and all restrictions in use shall be explained		
	in a way that they can be understood and perceived by		
	the user. Safety information symbols shall be explained		
	by their plain text version.		
5.4.3	Assembly (if applicable)		Р
	Instructions shall enable the user to assemble the		Б
	floating article correctly and ready for safe use.		P
5.4.4	Maintenance and repair (if applicable)		Р
	Instructions shall enable the user to maintain store and)
	repair the floating article correctly.		Р



Photo Of Sample



Photo 1



Photo 2





Photo 3



Photo 4





Photo 5



Photo 6

***** End Of Report *****