Test Report

No.: SHHL1912504473IF Date: JAN. 02, 2020 Page: 1 of 28

BESTWAY (HONGKONG) INTERNATIONAL LTD.
SUITE 713, 7/FLOOR, EAST WING, TSIM SHA TSUI CENTRE, 66 MODY ROAD, KOWLOON, HONGKONG

Sample Description	: MAT
Style/ Item No.	: 43421
	**********
Sample Receiving Date	: DEC. 12, 2019
Testing Period	: DEC. 12, 2019 TO JAN. 02, 2020
Testing Location	: 3HD BUILDING, LANE 3999, XIUPU RD., PUDONG DISTRICT, SHANGHAI, CHINA
Test Performed	: SELECTED TEST(S) AS REQUESTED BY APPLICANT
Test Requested	: 1. EN ISO 25649-1:2017 FLOATING LEISURE ARTICLES FOR USE ON AND IN THE WATER PART 1: CLASSIFICATION, MATERIALS, GENERAL REQUIREMENTS AND TEST METHODS 2. EN ISO 25649-2:2017 FLOATING LEISURE ARTICLES FOR USE ON AND IN THE WATER PART 2: CONSUMER INFORMATION 3. EN ISO 25649-3:2017 FLOATING LEISURE ARTICLES FOR USE ON AND IN THE WATER PART 3: ADDITIONAL SPECIFIC SAFETY REQUIREMENTS AND TEST METHODS FOR CLASS A DEVICES

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. Testing Center Hardlines
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Test Result(s) : FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)

Conclusion : THE SUBMITTED SAMPLE MET THE TEST REQUIREMENT.

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Yomoro Gu
Authorized Signatory

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Test Conducted:

1. EN ISO 25649-1:2017 Floating leisure articles for use on and in the water Part 1: Classification, materials, general requirements and test methods

2. EN ISO 25649-2:2017 Floating leisure articles for use on and in the water Part 2: Consumer information

3. EN ISO 25649-3:2017 Floating leisure articles for use on and in the water Part 3: Additional specific safety requirements and test methods for Class A devices

Device Classification: Class A, Case D

	Sample Description	Sample Size
Test sample	Woman Mat	2 pieces
Referenced sample	Man Mat	2 pieces

Clause	Test Method/Requirement	Result	Rating
1. EN ISO 25649-1:2017			
5 General safety requirements and test methods related to all classes			
5.1 General	Floating leisure articles for use on and in the water shall be designed in a way that they are safe und usable for persons of a minimum age of 36 months and above, also in deep water where the user is out of its standing depth. Via adequate labelling, it shall be made clear to the consumer and user that these articles are intended for swimmers only, that they do not provide protection against drowning and that they are in no case PPE (Personal Protective Equipment). These basic requirements are deemed to be met if a product complies with the relevant parts of this series of standards. ISO 25649-3 to ISO 25649-7 may include deviations and exclusions from the above.	/	Pass
5.2 Body entrapment			
5.2.1 General			
5.2.1.1 Introduction	Floating leisure articles shall not have accessible design features that may cause body entrapment. 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	/	Pass

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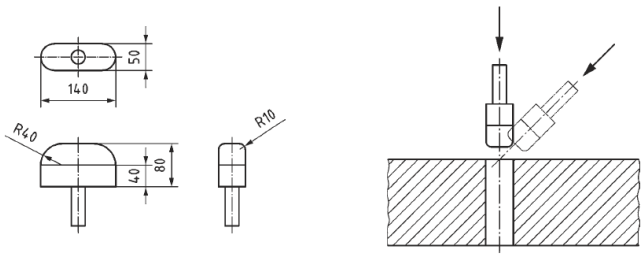
Clause	Test Method/Requirement	Result	Rating
	Annex B. They include features providing fixed interior spaces and such with flexible interior components/spaces and thus variable dimensions. Design features likely to cause entrapment may be arranged in the plane but also in 3-dimensional structures providing 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.		
5.2.1.2 Accessibility	Design features accessible to the test person in any stable floating position the product can take on the water.	/	Pass
5.2.1.3 Product categorization regarding age group and body weight of user/test persons/torso templates	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.	Adult use only Age group: 14+ Body weight: Max. 90 kg	Pass
5.2.2 Requirements on body entrapment	All design features of a floating leisure article as e.g. gaps, openings, slots etc. which allow the initial ingress of 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. Dimensions in millimetres  a) Dimensions of probe b) Application of probe Figure 1 — Foot probe	Not allow the initial ingress of the foot probe	N/A

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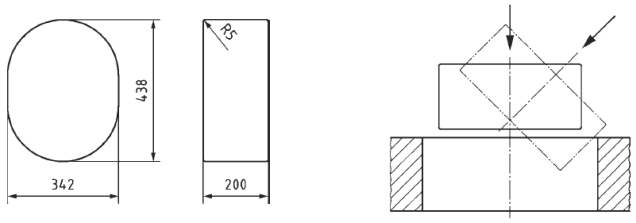
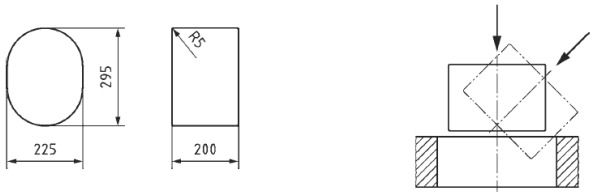
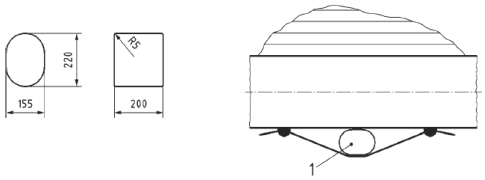
Clause	Test Method/Requirement	Result	Rating
	Dimensions in millimetres  a) Dimensions of probe b) Application of probe Figure 2 — Adult torso probe Dimensions in millimetres  a) Dimensions of probe b) Application of probe Figure 3 — Child torso probe, 10 years of age		
5.2.4 Depths of gaps and openings	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.	For adult use Depth: 14 mm	Pass
5.3 Torso entrapment on safety line with regard to children			
5.3.1 Requirements	The child torso probe shall pass through the opening between safety line and the hull of the device at any position under the force of its own weight. Dimensions in millimetres  Key 1 child's torso probe, 3 years of age Figure 4 — Child torso probe	No safety line	N/A
5.4 Accessible protruding parts causing entanglement			

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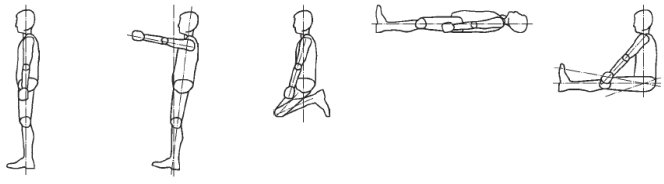
<table>
<tr><th>Clause</th><th>Test Method/Requirement</th><th>Result</th><th>Rating</th></tr>
<tr><td>5.4.1
Requirements</td><td>To prevent the user from entanglement when unintentionally sliding out or from a device, there shall be no hazardous protrusions.
The test rope shall slip of any part of the device that protrudes in the area where the user intentionally and foreseeably interacts with the product.
It shall be checked whether the test rope disengages under any circumstances, such as capsize, slip off, protruding part breakage, etc.</td><td>/</td><td>Pass</td></tr>
<tr><td colspan="4">5.5 Human subject testing</td></tr>
<tr><td>5.5.2 Test panel</td><td>Test subject 1 shall always be one time in the total number of adult male test subjects. If more than one test subject shall act, the rest shall be a mix of sex in accordance with Table 2.

Table 2 — Test panel
<table>
<tr><th>Test subjects</th><th>Sex</th><th>Age years</th><th>Body weight kg</th><th>Body size cm</th><th>Number of subjects</th><th>Mix[b]</th><th>Child/adult equivalence</th></tr>
<tr><td>Subject 1</td><td>male</td><td>>18</td><td>≥90</td><td>≥180</td><td rowspan="4">according to manufacturer's instructions</td><td>1 time</td><td rowspan="4">2 children = 1 adult</td></tr>
<tr><td>Subject 2</td><td>male</td><td>>18</td><td>70 – 80</td><td>≥170</td><td>50/50</td></tr>
<tr><td>Subject 3</td><td>female</td><td>>18</td><td>65 – 70</td><td>≥160</td><td>50/50</td></tr>
<tr><td>Subject 4[a]</td><td>female</td><td>>18</td><td>40 – 45</td><td><150</td><td>—</td></tr>
</table>
[a] 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 (5th percentile).
[b] If a device is classified for an unequal number of adult users, subject 1 shall constitute the majority.

 
a) Posture 1 b) Posture 1.1 c) Posture 2 d) Posture 3 e) Posture 4
Figure 6 — Basic test postures of human test subjects</td><td>Max. load of the product (kg): 90

Number of users:
Adult: 1
Child: 0</td><td>/</td></tr>
<tr><td colspan="4">5.6 Design working pressure</td></tr>
<tr><td>5.6.1
Requirements</td><td>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 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</td><td>Recommended working pressure:
0.03 bar</td><td>Pass</td></tr>
</table>

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Clause	Test Method/Requirement	Result	Rating
	operator's instruction booklet, which will enable a sufficiently close estimate to be made. The working pressure shall be consistently expressed in bars.		
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 break or result in any impairment in air tightness or water integrity when apply a load of 500 N, maintain for 1 min.	/	N/A
5.8 Towing device			
5.8.1 Requirements	If not otherwise stated in the specific parts, floating articles shall be equipped with means to attach a towing rope in case of an emergency. This means shall withstand a horizontal pulling force of 1 kN in any direction loaded progressively and maintained for 15 min, without any damage to the fitting and the entire structure. Not applicable if the device is marked with safety information symbol "pool use only" according to ISO 25649-2.	/	N/A
5.9 Valves and valve adapters			
5.9.1 Requirements	Inflating and/or deflating valves shall be made of corrosion-resistant materials, shall be compatible with the material of the hull and shall not be capable of damaging the device. EN 16051-1 gives examples how to achieve compatibility valves and inflating devices geometry. They should meet the requirements specified in EN 16051-1. In general, valves shall a) not inconvenience the persons in the device in their predetermined seating positions, b) not interfere with the operation of the device, and c) not be damaged or torn off by moveable components of the device construction. All valves shall enable airtight sealing by manual operation, independent of their sealing or non-return valve. For the buoyancy system, valves with a non-return device in accordance with EN 16051-1 should be used. NOTE A specific European Standard dealing with compatibility of valves and valve adapters is currently under development. Each filling valve shall enable a controlled pressure reduction.	See Remark 1	Pass

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Clause	Test Method/Requirement	Result	Rating
5.9.3 Numbering of air chambers	If the sequence of air chamber inflation is relevant for function or safety of the product, the correct inflation sequence shall be indicated by numbers in close proximity to the valves.	/	Pass
5.10 Edges, corners and points			
5.10.1 Requirements	All devices shall be of a design such that they cannot cause harm to the user. Edges and corners of hard and rigid materials shall be chamfered or rounded. Round edges or corners shall have a minimum radius of 1 mm and where a chamfer is part of the design, it shall be of (45° ± 5) mm and at least 1 mm in width. There shall be no barbs or other sharp points or features.	/	Pass
5.11 Shearing and crushing points			
5.11.1 Requirements	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. 【Folding and sliding mechanisms, clause 4.10.1 d): The space between moving elements shall also allow a 12mm diameter rod to be inserted if it allows a 5mm diameter rod to be inserted. Driving mechanisms, clause 4.10.2: Driving mechanisms shall be enclosed in such a way that they do not expose accessible hazardous sharp edges or hazardous sharp points or otherwise present a hazard of crushing the fingers or other parts of body】 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.	No shearing or crushing points	N/A
5.12 Strength of the hull and test conditions			
5.12.1 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) ℃, unless specified otherwise.	/	Pass

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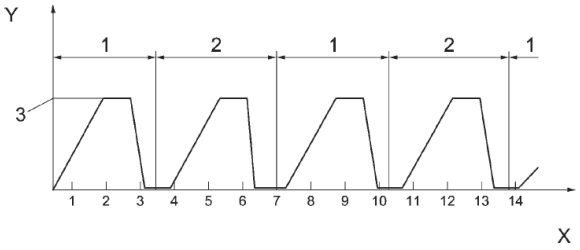
Clause	Test Method/Requirement	Result	Rating
5.12.2 Pressure test			
5.12.2.1 Combined cycle pressure/static load test for devices manufactured from unsupported material	Inflate all chambers of the device to the design working pressure as instructed by the manufacturer on the product or in the instructions 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.  **Key** X time, min Y pressure, bar 1 chamber 1 2 chamber 2 3 design working pressure **Figure 7 — Cyclic pressure test for buoyancy chambers (unsupported materials)** In direct succession to this cyclic pressure test the product shall be put on an even rigid floor and loaded statically with the weight of the designated user(s) for the duration of 20 min.	Design working pressure: 0.03 bar Test load: 90 kg	Pass

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Clause	Test Method/Requirement	Result	Rating
5.12.2.2 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 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".	/	N/A
5.12.3 Heat test (not applicable to Class D devices)	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) ℃, for a period of 6 h. On completion of the test period, 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.	Design working pressure: 0.03 bar	Pass
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 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.	No overlapping	Pass

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Clause	Test Method/Requirement	Result	Rating
5.12.5 Air tightness test for inflatables made from 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 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 ℃. The atmospheric pressure difference between the start of the test and the test readings shall not exceed ±1 %. For each rise or fall by 1 ℃ in ambient temperature, an allowance of 0,004 bar may be respectively subtracted from, or added to, the recorded device pressure.	/	N/A
5.13 Buckles and other fixings			
5.13.1 Requirements	If buckles or other detachable fastening devices are used as parts of the entire device in order to attach or connect functional parts or components, they shall require at least two simultaneous actions for their release or opening in order to prevent unintended opening. Where one of the two sequences of buckle opening relies on pressure, it shall be necessary to apply a force of at least 50 N on this release mechanism.	/	N/A
6 Material requirements and test methods			
6.1 General			
6.1.1 Requirements	All materials used in floating leisure articles shall be visually clean and free from contamination. They shall be selected 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 6.2.2) and storage in cold and hot conditions (see 6.3) shall be carried out prior to all other tests.	/	Pass

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Clause	Test Method/Requirement	Result	Rating
6.2 Chemical requirements for materials making up the hull, unsupported or reinforced			
6.2.1 General	In house or outside test confirmation may be allowed to verify compliance.	/	Pass
6.2.2 Resistance to mineral oil			
6.2.2.1 Requirements	After the contact during a period of (22 ± 0,25) h the change in mass per unit area shall not exceed 100 g/m^2.	Change of mass (g/m^2): -17.01	Pass
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.	Change of mass (g/m^2): 9.63	Pass
6.3 Physical requirements			
6.3.1 Resistance to cold			
6.3.1.1 Requirements	After an exposure for 4 h and the treatment, there shall be no signs of cracking when the test sample is examined under a magnification of ×10.	No cracking	Pass
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.	No blocking nor damage	Pass
6.4 Mechanical requirements of unsupported hull materials			
6.4.1 General	Unless otherwise specified, the standard environmental conditions for the tests shall be a temperature of (20 ± 2) ℃ and a relative humidity of (65 ± 5) %. NOTE See specific requirements in ISO 25649-3 to ISO 25649-7.	/	/
6.4.2 Resistance to puncturing			
6.4.2.1 Requirements	Air filled buoyancy chambers shall remain air tight after resistance to puncturing test.	/	Pass
6.5 Mechanical requirements for reinforced hull materials			
6.5.2 Adhesion of coatings (if applicable)			
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 unintentional separation 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.	/	N/A
6.6 Other materials			
6.6.1 Wood			
6.6.1.1 Requirements	The exposed types of timber and plywood 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	No wood	N/A

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Clause	Test Method/Requirement	Result	Rating
	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.		
6.6.2 Metal and synthetic material parts			
6.6.2.1 Requirements	Materials used shall be of a type, strength and finish, suitable for the intended purpose of the components and compatible with the marine environment.	/	Pass
6.7 Threads			
6.7.1 Requirements	To sew load bearing components, only threads manufactured from synthetic materials whose properties correspond to polyester or polyamide fibres shall be used.	No thread	N/A
7 Durability of warnings and markings			
7.1 Resistance to perspiration			
7.1.1 Requirements	The change in colour of the warnings and markings shall be 3 or better on the grey scale.	See Result 1	Pass
7.2 Resistance to chlorinated salt water			
7.2.1 Colour fastness	The change in colour of the warnings and markings shall be 3 or better on the grey scale according to EN 20105-A03.	See Result 1	Pass
7.3 Adhesion of markings			
7.3.1 Requirements	The markings shall not be damaged and shall remain legible in all details when assessed by the assessment panel. The requirements do not apply where the warnings or markings are embossed onto or moulded into the device.	See Result 1	Pass
7.4 Provision of repair means	Each floating leisure article shall be supplied with a repair kit, together with instructions for use, suitable for repairing small punctures of limited extent.	/	Pass
2. EN ISO 25649-2:2017			
4 Consumer information			

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Clause	Test Method/Requirement	Result	Rating
4.1 General	Floatable leisure articles shall be accompanied by adequate product information. This information shall serve the purpose of:	/	Pass
	— information before buying (point of sale information);	/	Pass
	— information for preparing the product for use;	/	Pass
	— information relating to the use of the product;	/	Pass
	— information concerning maintenance, storage and repair.	/	Pass
	Supplementary safety information symbols and safety signs as given in Clause 6 may be used to substitute the text and to inform the user about all relevant information related to safety, use, sizing, etc.	/	Pass
	The supplementary safety information symbol related to fatal risks shall be presented in a combination of this symbol and explanatory text. This applies for the symbol “No protection against drowning” (see Figure 1). **Figure 1 — No protection against drowning**	/	Pass
4.2 Consumer information at point of sale (information before buying)			
4.2.1 General	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.	/	Pass
	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.	/	Pass
	As means of conveying this information in a unified and comprehensible way, the supplementary safety information symbol and safety sign as specified in Clause 6 shall be applied.	/	Pass
	When necessary, supplementary safety information symbol and safety sign shall be supplemented by plain text.	/	Pass
	The order of supplementary safety information symbols shall follow a coherent approach following the logic of buying and use.	/	Pass
	The supplementary safety information symbols and the safety sign shall be grouped together as specified in 6.2.	/	Pass
4.2.2 General	The general information is the following:	/	Pass

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Clause	Test Method/Requirement	Result	Rating
information to be provided	— Name and address of supplier;	/	Pass
	— Type of device, designation;	/	Pass
	— Picture or diagram showing the rough shape of the inflatable and its main dimensions;	/	Pass
	— Number of this document.	/	Pass
4.3 Information related to preparation for use	Information for installation and preparing for use shall be given in the instructions for use. In cases of simple design and use, it may be printed on the product.	/	Pass
4.4 Information related to maintenance, repair and storage	Information on maintenance, repair and storage shall be given in the instructions for use.	/	Pass
5 Requirements related to printing			
5.1 General	Printing containing information shall be in contrast to its background.	/	Pass
	Supplementary safety information symbols and general safety signs shall be printed as shown in Clause 6.	/	Pass
5.2 Durability of printings on the product	Printings of all information on the product shall comply with the durability requirements given in ISO 25649-1:2017, Clause 7.	See Result 1	Pass
5.3 Language and letter size for plain text information on the product			
5.3.1 Requirements	Markings shall be printed or embossed in upper case, 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.	/	Pass
	Colour may vary but shall always be in contrast or relief to the background and be legible.	/	Pass
	Plain text information shall be given in the language of the country of sale.	/	Pass
6 Product safety label			
6.1 General	Supplementary safety information symbols and general safety signs on the product or in the accompanying information material shall be in accordance with the layout as presented in Figure 1 to Figure 37.	/	Pass
6.2 Supplementary safety information symbol			
6.2.1 Supplementary safety information symbols related to warnings	The supplementary safety information symbols below (allocation of the supplementary safety information symbol, see 6.7) shall be headed by the warning action sign in Figure 35.	/	Pass

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Clause	Test Method/Requirement	Result	Rating
6.2.2 Supplementary safety information symbols related to prohibition	The supplementary safety information symbols below (allocation of the supplementary safety information symbol see 6.7) shall be headed by the prohibition sign in Figure 37.	/	Pass
6.2.3 Supplementary safety information symbols related to mandatory instruction	The supplementary safety information symbols below (for allocation of the supplementary safety information symbol, see 6.7) shall be preceded by the mandatory action sign in Figure 36.	/	Pass
6.3 Safety sign	Figure 35 — General warning sign Figure 36 — General mandatory action sign Figure 37 — General prohibition sign	/	Pass
6.4 Position of supplementary safety information symbol and safety sign	Supplementary safety information symbols expressing warnings shall be arrayed in a separate group and shall be visible during use of the product.	/	Pass
	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.	/	Pass
	For those floating leisure articles providing more than one position of use (e.g. air mattresses), the graphical symbols or other means of consumer information shall be placed on the intended upper side of use.	/	N/A
	This group of supplementary safety information symbol and safety sign should be arranged as shown in Annex A.	/	Pass
	The supplementary safety information symbol shall be placed below or beside the safety sign.	/	Pass

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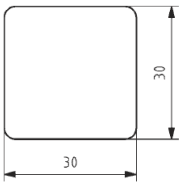
Clause	Test Method/Requirement	Result	Rating
	Figure 1 and Figure 20 shall be placed separately on the product. Figure 1 — No protection against drowning If relevant, number the sequences of chamber inflation by 1 or 2 times. Figure 20 — Swimmers only	/	Pass
6.5 Colour of supplementary safety information symbols and safety sign	Colour of safety signs (see 6.3) shall be in accordance with ISO 3864-2.	/	Pass
	The supplementary safety information symbols shall be in black and white.	/	Pass
	Supplementary safety information symbols and safety sign for foam products may be embossed.	/	N/A
6.6 Size of supplementary safety information symbol and safety sign	The size of supplementary safety information symbols and safety signs on the product shall be at least 30 mm × 30 mm minimum (for supplementary safety information symbol see Figure 38).  Figure 38 — Sizing of supplementary safety information symbol	/	Pass
	The size of the supplementary safety information symbols and safety signs shall however correlate to the size of the product.	/	Pass
	For the graphical symbol in the supplementary safety information symbol, all available space shall be used.	/	Pass
6.7 Allocation of the supplementary safety information symbols	The safety sign (see Figures 35, 36 and 37) categorize the 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.	/	Pass
	Additional safety information shall be given if needed. It shall be visible and legible on the packaging and/or product.	/	Pass

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Clause	Test Method/Requirement	Result	Rating
7 Instructions			
7.1 General	Instructions shall be supplied in (a) suitable language(s) and in simple terms, sufficient to enable the user to correctly assemble, inflate and prepare the device for use afloat.	/	Pass
	If relevant, guidance shall also be given on drying, storage and servicing of the inflatable.	/	Pass
7.2 Safety information	All safety information shall be provided in the instructions.	/	Pass
	Full explanations related to the supplementary safety information symbol and general safety signs shall be given.	/	Pass
	There shall be explanations emphasizing the dangers of not following the operator's instructions.	/	Pass
	A safety warning shall be included regarding the dangers associated with uneven distribution of persons or loads.	/	Pass
8 Mislabelling	Safety warning and other information contained in this document shall anticipate the foreseeable misuse of the relevant product. If for example a product is clearly recognizable for use in open water requirements related to this application shall not be bypassed by mislabelling it "Pool use only" (see Figure 32). Figure 32 — Pool use only	/	Pass
3. EN ISO 25649-3:2017			
4 Safety requirements and test methods			
4.1 General	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: — design; — sizing; — materials; — strength; — performance;	/	Pass

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Clause	Test Method/Requirement	Result	Rating
	— 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.		
4.2 Design, sizing, admissible number of users and maximum load capacity			
4.2.1 General	Devices shall be marked according to their size and/or number of permitted users and maximum load capacity.	/	Pass
4.2.2 Sizing			
4.2.2.1 Requirements	If a specific size/body weight correlation between user and device is relevant, the marking shall be in accordance with the range of body weights.	/	N/A
	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.	/	N/A
4.2.3 A1-products, space per person and admissible number of users			
4.2.3.1 Requirements	A1-products shall be labelled with regard to the intended posture — lying/sitting — of the user(s) and the maximum permissible number of users.	A2 product	N/A
	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.	A2 product	N/A
	The minimum space for a sitting user shall correspond to the template (adult/child) as specified in ISO 25649-1:2017, A.1.2.	A2 product	N/A

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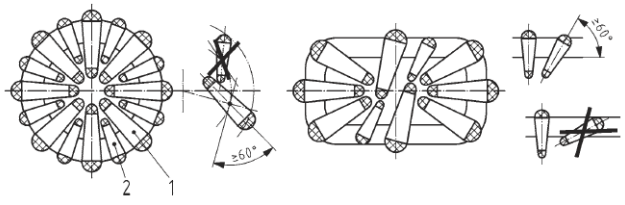
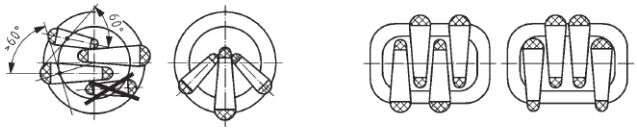
Clause	Test Method/Requirement	Result	Rating
	The angle between centre line of the template and tangential of a possible back rest, board wall, etc. shall be greater than 60° (see Figure 1).  a) A1, "Big raft": 3,8 m in diameter/4,8 m × 2,8 m  b) A1, "Small raft": 2,5 m in diameter/3 m × 2 m Key 1 template space per person, adult 2 template Space per person, child Figure 1 — Available space per person, determination of number of users	A2 product	N/A
	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.	A2 product	N/A
4.2.4 A2-products, space per person and admissible number of users			
4.2.4.1 Requirements	A-2 products shall provide distinct seat(s) or sitting areas or recognizable space where the user is to be positioned in the intended posture.	/	Pass
	Seats, etc. of ride-on devices shall be equipped with at least one grab handle for each permissible user.	/	N/A
	If the device implies sitting in line of more than one user, the sitting space for each user shall be at least a length of:	For one adult only	N/A
	— Child = 30 cm if the legs hang down;	For one adult only	N/A
	— Child = 60 cm if the thighs follow the seat surface.	For one adult only	N/A
	— Adult = 35 cm if the legs hang down;	For one adult only	N/A
	— Adult = 70 cm if the thighs follow the seat surface.	For one adult only	N/A
4.3 In water performance			
4.3.1 Amount of buoyancy and stable floating position			

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Clause	Test Method/Requirement	Result	Rating
4.3.1.1 Requirements	All devices (A1, A2) shall provide sufficient buoyancy and adequate buoyancy distribution to bear the weight of the intended number of users.	/	Pass
	Floating devices shall float stable with all test subjects placed on the intended position and posture on the device.	/	Pass
	The design supporting area shall not be flooded, not applicable if the product is designed to provide a supporting area which is intentionally under water.	/	Pass
	Floating leisure articles claiming to provide floating stability (A1) shall additionally meet the test as specified in 4.3.2.2.2.	A2 product	N/A
	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.	A2 product	N/A
	The 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.	/	Pass
4.3.2 Residual buoyancy of devices claiming floating stability (CASES A, B)			
4.3.2.1 General	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 the requirements in 4.3.2.2 are met.	Case D	N/A
4.3.2.2 CASE A, residual buoyancy and stable floating after failure of one air chamber			
4.3.2.2.1 Requirements	A1-devices having a lying/seating area (cockpit) fully or partly surrounded by circumferential inflated chambers (walls) regardless of their shape or form which provide an inner wall height of at least 15 cm when measured from top of the inflated bottom to the top of the inflated wall: a) shall not collapse in a way that the permissible number of users or a single user falls or slides into the water if the air chamber most likely to cause failure is fully deflated;	Case D	N/A
	b) shall allow the permissible number of users to stay safely on the device for at least 10 min;	Case D	N/A
	c) shall retain their function to stay on the device as far as there is an initial function which is relevant with regard to safety (e.g. propulsion to reach the shore).	Case D	N/A
	If the device is made up by several independent components, these requirements apply for each of them.	Case D	N/A
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	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	Case D	N/A

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Clause	Test Method/Requirement	Result	Rating
	when holding onto the device; NOTE Persons are considered to be still on the device 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 without exercising swimming strokes or any other active movements to keep them afloat except holding to the device;	Case D	N/A
	c) there shall be means on the device to grab on for each permissible user;	Case D	N/A
	d) these means shall be available and reachable for each permissible user after immersion.	Case D	N/A
	If the device is made up by several independent components these requirements apply for each of them.	Case D	N/A
4.3.3 Residual buoyancy of floating leisure articles not claiming floating stability (CASES C, D)			
4.3.3.1 CASE C, residual buoyancy			
4.3.3.1.1 Requirements	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;	Case D	N/A
	b) the achievable floating position shall enable the users to keep their airways above water without exercising swimming strokes or any other active movements to keep them afloat except holding to the device;	Case D	N/A
	c) there shall be means on the device to grab on for each permissible user;	Case D	N/A
	d) these means shall be available and reachable for each permissible user after immersion.	Case D	N/A
	If the device is made up by several independent components, this requirement applies for each of them.	Case D	N/A
4.3.3.2 CASE D, residual buoyancy			
4.3.3.2.1 Requirements	A2-products of floating articles for single use only, CASE D designs: a) shall at least provide a residual buoyancy which is sufficient to keep the user when holding on to it after immersion;	/	Pass
	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 swimming strokes or any other active movements to keep them afloat except holding onto the device.	/	Pass

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Clause	Test Method/Requirement	Result	Rating
	If the device is made up by several independent components, this requirement applies for each of them.	/	Pass
4.3.4 Capsizing and escape			
4.3.4.1 Escape from the device (body entrapment, leg/foot entanglement)	In normal foreseeable use and during incidents of sudden capsize none of the users shall become entrapped, entangled or otherwise hindered from complete separation from the device. For this purpose, the standard is focusing on the following known major entrapment risks: — 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.	/	Pass
4.3.5 Grab handles and safety lines (not applicable to air mattresses)			
4.3.5.1 Requirements	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 holding (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.	Case D	N/A
	Safety lines shall be arranged in a way that they can be grabbed from an in-water position and shall not cause entrapment (see 4.3.2.2).	Case D	N/A
	The means of holding shall be provided regardless of the floating stability of the device and shall be reachable also in capsized condition of the device.	Case D	N/A
4.3.6 Re-embarkation from the water in normal use and failure of one air chamber in CASE A1			
4.3.6.1 Requirements	Floating devices shall be so designed that a normal user (test subject) is able to re-embark on the device. Not applicable to A.2 products or borderline products falling under A.2.	A2 product	N/A
4.3.7 Extreme high super structure (wind, drift)			
4.3.7.1 Requirements	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 information symbol “Pool use only” according to ISO 25649-2.	/	N/A
4.3.8 Anchorage			
4.3.8.1 Requirements	If a floating leisure article is equipped with an anchoring device, it shall be capable to hold the device in place up to a pulling force of 500 N.	No anchoring device	N/A
4.3.9 Giant rings with bottom, strength of entire device			
4.3.9.1 General	No part or component of the body holding system or its attachment to the buoyant structure (welding seams) shall break or show any deficiency compromising safety.	/	N/A

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Clause	Test Method/Requirement	Result	Rating
5 Consumer information			
5.1 General	Consumer information (on the packaging, on the product and by means of written instructions for use) shall be in accordance with ISO 25649-2.	/	Pass
5.2 Consumer information on the packaging (point of sale information)	Information on the packaging of Class A products shall — show a picture or dimensional correct drawing of the floating article inside,	/	Pass
	— disclose via the appropriate safety information symbols any warning and restriction related to use and application, and	/	Pass
	— disclose via the appropriate safety information symbols the maximum number of users and the maximum load capacity.	/	Pass
5.3 Consumer information on the product (information related to safe use)	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.	/	Pass
	Safety information symbols related to very serious risks shall be accompanied by the plain text version as specified in ISO 25649-2.	/	Pass
	Very serious risks for Class A products are: — Attention! No protection against drowning! — Swimmers only!	/	Pass
5.4 Consumer information by instructions for use (separate written information)			
5.4.1 General	Instructions of use shall be in accordance with ISO 25649-2.	/	Pass
5.4.2 Safety and product information	Instruction for use shall contain all information 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.	/	Pass
	Safety information symbols shall be explained by their plain text version.	/	Pass
5.4.3 Assembly (if applicable)	Instructions shall enable the user to assemble the floating article correctly and ready for safe use.	/	Pass
5.4.4 Maintenance and repair (if applicable)	Instructions shall enable the user to maintain store and repair the floating article correctly.	/	Pass

Remark:

1. The dimension of the valve is different from the standard, but the function test result is positive.

2. N/A = Not applicable.

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Result 1:

Clause 7.1 Resistance to Perspiration (ISO 105 E04-2013)

Acidic
Change in shade 4-5

Alkaline
Change in shade 4-5

Requirement:
The change in colour of the warnings and markings according to EN 20105-A02 and shall be 3 or better
on the grey scale.

Remarks: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

Clause 7.2 Resistance to Chlorinated Salt Water

Change in shade 4-5

Requirement:
The change in colour of the warnings and markings according to EN 20105-A02 and shall be 3 or better
on the grey scale.

Remarks: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

Clause7.3 Adhesion of markings (ISO 105 X12-2016, 100 cycles)

Dry – Assessment: No damaged and remain legible in all details when assessed by the assessment panel
Wet – Assessment: No damaged and remain legible in all details when assessed by the assessment panel

Requirement: The markings shall not be damaged and shall remain legible in all details when assessed by the assessment panel.

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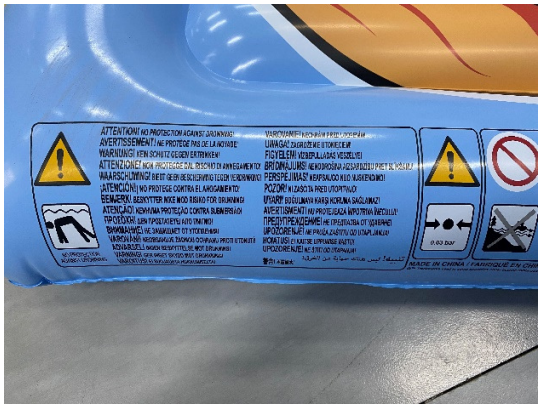
Sample Photo:

Test sample

Referenced sample

Marking on product



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Artwork of instruction manual

Repair patch

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End of Report

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