

SAFEGUARDS

CONSUMER GOODS AND RETAIL

TOYS & JUVENILE PRODUCTS

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EUROPEAN STANDARDS EN15649 HARMONIZED UNDER DIRECTIVE 2001/95/EC

On 18 July 2013, the references of standards series [EN 15649 \(parts 1-7\)](#) for floating leisure articles for use on and in the water were published in the official Journal of the European Union. The standards EN 15649 are harmonized under the directive 2001/95/EC general safety requirement and will enter into force on 7 August 2013.

EN15649 specifies safety requirements and testing methods related to materials, safety, and performance for floating leisure articles for use on and in water. The scope of EN 15649 covers floating leisure articles for persons of a minimum age of 36 months & above, and used in deep water where the user is out of its standing depth.

Floating leisure articles are classified as class A, B, C, D and E devices in EN15649 as described in the table below.



CLASS	DESCRIPTION/STRUCTURAL DESIGN CRITERIA	TYPICAL PRODUCTS
A	Floating leisure articles intended for quasi-static positional use on the water and position of user upon the buoyant structure.	Floating islands, rafts, giant rings Ride on articles such as floating seats, sit on paddle wheel seat, sit on paddle cylinder, water seesaw.
B	Floating leisure articles intended for quasi-static use but position of user inside a buoyant structure around the user's body (relatively tight fit).	Swim seat (intended for children over 3 years of age), rings with interior seat segments, big rafts, boards, giant tubes. (excluding swim seat & ring with buoyant aids for swimming under EN13138).
C	Floating leisure articles for dynamic use, i.e. application at high speed.	Towable tube, bicycles, seats.
D	Floating leisure articles for passive (resting, relaxing on flat surface) but mainly active use i.e. climbing, jumping (greater than 1 m), swinging, rotating and any related activity.	Water trampolines, inflatable climbing structures on the water, inflatable slides, bouncing platforms.
E	Inflatable boats with buoyancy less than 1 800 N and an overall length of more than 1,2 m.	Inflatable boats for rowing or paddling of near oval shape with or without transom, Canoes and kayaks.

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In EN 15649 (parts 1-7), below requirements are concerned:

- Entrapment hazard for foot/leg, head/neck and torso
- Entanglement hazard
- Human subject testing, such as floating stability
- Design working pressure
- Load bearing
- Towing device
- Valves and valve adapters
- Edges, corners and points
- Shearing and crushing points
- Strength of the hull and test conditions
- Pressure test for inflatables (cyclic pressure test, overpressure test)
- Heat test
- Air tightness test for inflatables
- Buckles and other fixings
- Chemical requirement for material (such as resistance to mineral oil, resistance to chlorinated salt water)
- Physical requirement for material (resistance to cold/ heat, resistance to puncturing)
- Mechanical requirements (resistance to puncturing, adhesion of coating)
- Durability of warning and marking
- Consumer information

The EN15649 series consists of seven parts. For all floating leisure articles, the requirements of EN 15649-1 and EN15649-2 have to be met. The other parts of the standard – EN 15649-3/4/5/6/7 are only for applicable for specific product classes as described below.

NO.	STANDARD	TITLE	SCOPE
1	EN15649-1:2009 +A1:2012	Part 1: Classification, materials, general requirements and test methods	For all floating leisure articles (including class A, B, C, D and E devices)
2	EN15649-2:2009 +A1:2012	Part 2: Consumer information	For all floating leisure articles (including class A, B, C, D and E devices)
3	EN15649-3:2009 +A1:2012	Part 3: Additional specific safety requirements and test methods for Class A	For Class A devices only
4	EN15649-4:2009 +A1:2012	Part 4: Additional specific safety requirements and test methods for Class B devices	For Class B devices only
5	EN15649-5:2009	Part 5: Additional specific safety requirements and test methods for Class C devices	For Class C devices only
6	EN15649-6:2009	Part 6: Additional specific safety requirements and test methods for Class D devices	For Class D devices only
7	EN15649-7:2009	Part 7: Additional specific safety requirements and test methods for Class E devices	For Class E devices only

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