UJUVVAHENDID VABA AJA VEETMISEKS VEE PEAL JA VEES. OSA 5: SPETSIAALSED LISAOHUTUSNÕUDED JA -KATSEMEETODID C KLASSI SEADMETELE

Floating leisure articles for use on and in the water -Part 5: Additional specific safety requirements and test methods for Class C devices (ISO 25649-5:2017)



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 25649-5:2017 sisaldab Euroopa standardi EN ISO 25649-5:2017 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 25649-5:2017 consists of the English text of the European standard EN ISO 25649-5:2017.			
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EUROPEAN STANDARD

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English Version

Floating leisure articles for use on and in the water - Part 5: Additional specific safety requirements and test methods for Class C devices (ISO 25649-5:2017)

Articles de loisirs flottants à utiliser sur ou dans l'eau-Partie 5: Exigences de sécurité et méthodes d'essai complémentaires propres aux dispositifs de Classe C (ISO 25649-5:2017) Schwimmende Freizeitartikel zum Gebrauch auf und im Wasser - Teil 5: Zusätzliche besondere sicherheitstechnische Anforderungen und Prüfverfahren für Artikel der Klasse C (ISO 25649-5:2017)

This European Standard was approved by CEN on 24 June 2017.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

European foreword

This document (EN ISO 25649-5:2017) has been prepared by Technical Committee ISO/TC 83 "Sports and other recreational facilities and equipment" in collaboration with Technical Committee CEN/TC 136 "Sports, playground and other recreational facilities and equipment" the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2018, and conflicting national standards shall be withdrawn at the latest by April 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 15649-5:2009.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 25649-5:2017 has been approved by CEN as EN ISO 25649-5:2017 without any modification.

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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ISO 25649-5 was prepared by the European Committee Standardization (CEN) Technical Committee CEN/TC 136, *Sports, playground and other recreational facilities and equipment,* in collaboration with ISO Technical Committee TC 83, *Sports and other recreational facilities and equipment,* in accordance with the agreement on technical cooperation between ISO and CEN (Vienna Agreement).

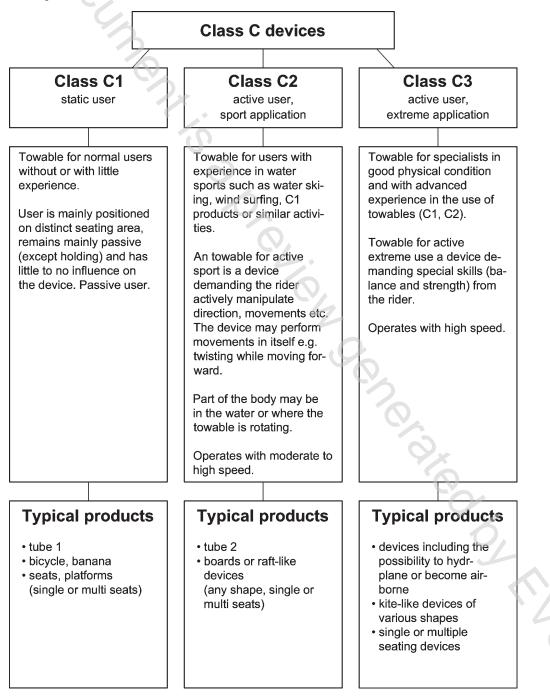
A list of all the parts in the ISO 25649-series can be found on the ISO website.

Introduction

The majority of technical requirements below is derived from the overriding property of the products to provide high speed rides when towed by fast motorboats. Thus space per person and means to hold tight reliably and comfortably and without entrapment or entanglement is an important subject. Safety requirements concerning the towing rope form another content of the document.

Safety and performance of the products are tested by practical tests under all conditions and manoeuvers, including the issue of a quick release in case of an emergency as well as residual buoyancy.

Comprehensive consumer information, including a set of non-verbal communication gestures complete the requirement profile of this document.



Risk assessment for entire Part 5 is shown in Table 1.

Table 1 — Introductory risk analysis

Class	Typical products	Place of usage	Function; range of usage; target/age group	Type of movement/ propulsion	Position of user in regard to the equipment, elevation above water	Pre- dictable misuse	Partial risk related to water envi- ronment	Final risk	Protection aims standard/regulation
C (C1, C2, C3)	Tube riders with interior holding facility and closed cockpit; raft riders; board riders; banana riders (all to be towed by motor boats)	Sea shore/ close to shore; lakes, rivers; large space for ac- tion is needed	Adolescents; adults; children accompanied by adults (minimum age group)	High speed movement; devices towed by motor boats; other means of propulsion	Users are sitting on or inside the device; elevation from water level about maximum 60 cm sitting height; kneeling, lying; standing	Use by non-swimmers; no use of PFD; excessive speed; improper load distribution/ seating position; close vicinity to other users; overload; inadmissible number of passengers	Collision of persons in the case of capsizing; fall from the device; device turning; catapulting out of the device; impact through device; nose dipping; sudden stop; crash down of kite type towables; rupture of the towing rope; entrapment/entanglement; nose dive; use of rumps	DROWN- ING	Age limits; warning notes; quick release; gripping; escape in case of danger; residual buoyancy; use of PFD; length, strength and elasticity of rope; reliability of quick release, user qualifications and capabilities
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Floating leisure articles for use on and in the water —

Part 5:

Additional specific safety requirements and test methods for Class C devices

1 Scope

This document is applicable for CLASS C classified floating leisure articles for use on and in water according to ISO 25649-1 regardless of whether the buoyancy is achieved by inflation or inherent buoyant material.

This document is to be applied with ISO 25649-1 and ISO 25649-2.

NOTE 1 Typical products forming class C (see <u>Annex B</u>):

- tube riders towable with interior holding facility and closed cockpit;
- raft riders towable:
- board riders towable:
- banana type towable.

NOTE 2 Typical places for application:

- distant from bathing areas and other frequented water surfaces, wide empty spaces, dedicated racetracks (parcours);
- no to little waves;
- no strong currents.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

ISO 25649-2, Floating leisure articles for use on or in the water — Part 2: Consumer information

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 25649-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at http://www.iso.org/obp
- IEC Electropedia: available at http://www.electropedia.org/