

<b>STN</b>	<b>Nafukovacie člny</b> <b>Časť 3: Člny s dĺžkou trupu menšou ako 8 m</b> <b>s výkonom motora 15 kW a viac</b> <b>(ISO 6185-3: 2024)</b>	<b>STN</b> <b>EN ISO 6185-3</b>  32 8622
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Inflatable boats - Part 3: Boats with a length of the hull less than 8 m with a motor power rating of 15 kW and greater (ISO 6185-3:2024)

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/24

Obsahuje: EN ISO 6185-3:2024, ISO 6185-3:2024

Oznámením tejto normy sa ruší  
STN EN ISO 6185-3 (32 8622) z mája 2019

**138847**

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Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2024  
Slovenská technická norma a technická normalizačná informácia je chránená zákonom č. 60/2018 Z. z. o technickej normalizácii v znení neskorších predpisov.

EUROPEAN STANDARD

EN ISO 6185-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2024

ICS 47.080

Supersedes EN ISO 6185-3:2018

English Version

## Inflatable boats - Part 3: Boats with a length of the hull less than 8 m with a motor power rating of 15 kW and greater (ISO 6185-3:2024)

Bateaux pneumatiques - Partie 3: Bateaux d'une longueur de coque inférieure à 8 m et d'une puissance moteur assignée supérieure ou égale à 15 kW (ISO 6185-3:2024)

Aufblasbare Boote - Teil 3: Boote mit einer Rumpflänge unter 8 m mit einer Motorleistung von mindestens 15 kW (ISO 6185-3:2024)

This European Standard was approved by CEN on 13 March 2024.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPÄISCHES KOMITEE FÜR NORMUNG

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**EN ISO 6185-3:2024 (E)**

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## **European foreword**

This document (EN ISO 6185-3:2024) has been prepared by Technical Committee ISO/TC 188 "Small craft" in collaboration with Technical Committee CEN/TC 464 "Small Craft" the secretariat of which is held by SIS.

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 November 2024, and conflicting national standards shall be withdrawn at the latest by November 2024.

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 ISO 6185-3:2018.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

Any feedback and questions on this document should be directed to the users' national standards body/national committee. A complete listing of these bodies can be found on the CEN website.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

## **Endorsement notice**

The text of ISO 6185-3:2024 has been approved by CEN as EN ISO 6185-3:2024 without any modification.

**EN ISO 6185-3:2024 (E)****Annex ZA**  
(informative)**Relationship between this European Standard and the essential requirements of Directive 2013/53/EU**

This European Standard has been prepared under a Commission's standardization request M/542/C(2015) 8736 final to provide one voluntary means of conforming to essential requirements of Directive 2013/53/EU.

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZA.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

**Table ZA.1 — Correspondence between this European Standard and Annex I and II of Directive 2013/53/EU**

<b>Essential Requirements of Directive 2013/53/EU</b>	<b>Clause(s)/sub-clause(s) of this EN</b>	<b>Remarks/Notes</b>
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Annex I.A.3.8 Escape	-	

Essential Requirements of Directive 2013/53/EU	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
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**WARNING 1** — Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

**WARNING 2** — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

**EN ISO 6185-3:2024 (E)****Table ZA.2 — Applicable Standards to confer presumption of conformity as described in this Annex ZA**

<b>Column 1 Reference in Clause 2</b>	<b>Column 2 International Standard Edition</b>	<b>Column 3 Title</b>	<b>Column 4 Corresponding European Standard Edition</b>
ISO 1817	ISO 1817:2022	Rubber, vulcanized or thermoplastic — Determination of the effect of liquids	For applicable standard edition see Column 2
ISO 2411	ISO 2411:2017	Rubber- or plastics-coated fabrics — Determination of coating adhesion	EN ISO 2411:2017
ISO 3011	ISO 3011:2021	Rubber- or plastics-coated fabrics — Determination of resistance to ozone cracking under static conditions	For applicable standard edition see Column 2
ISO 4674-1	ISO 4674-1:2016	Rubber- or plastics-coated fabrics — Determination of tear resistance — Part 1: Constant rate of tear methods	EN ISO 4674-1:2016
ISO 4675	ISO 4675:2017	Rubber- or plastics-coated fabrics — Low-temperature bend test	For applicable standard edition see Column 2
ISO 7840	ISO 7840:2021	Small craft — Fire-resistant fuel hoses	EN ISO 7840:2021
ISO 8099-1	ISO 8099-1:2018	Small craft — Waste systems — Part 1: Waste water retention	EN ISO 8099-1:2018
ISO 8099-2	ISO 8099-2:2020	Small craft — Waste systems — Part 2: Sewage treatment systems	EN ISO 8099-2:2021
ISO 8469	ISO 8469:2021	Small craft - Non-fire-resistant fuel hoses	EN ISO 8469:2021
ISO 8847	ISO 8847:2021	Small craft — Steering gear — Cable over pulley systems	EN ISO 8847:2021
ISO 8848	ISO 8848:2022	Small craft — Remote mechanical steering systems	EN ISO 8848:2022
ISO 9093	ISO 9093:2020	Small craft — Seacocks and through-hull fittings	EN ISO 9093:2021
ISO 9094	ISO 9094:2022	Small craft — Fire protection	EN ISO 9094:2022
ISO 10087	ISO 10087:2022	Small craft — Craft identification — Coding	EN ISO 10087:2022

<b>Column 1 Reference in Clause 2</b>	<b>Column 2 International Standard Edition</b>	<b>Column 3 Title</b>	<b>Column 4 Corresponding European Standard Edition</b>
		system	
ISO 10088	ISO 10088:2022	Small craft — Permanently installed fuel systems	EN ISO 10088:2023
ISO 10239	ISO 10239:2014	Small craft — Navigation lights — Installation, placement and visibility	EN ISO 10239:2017
ISO 10592	ISO 10592:1994	Small craft — Remote hydraulic steering systems	EN ISO 10592:2017
ISO 11105	ISO 11105:2020	Small craft — Ventilation of petrol engine and/or petrol tank compartments	EN ISO 11105:2020
ISO 11591	ISO 11591:2020 ISO 11591:2020/A1:2022	Small craft — Field of vision from the steering position	EN ISO 11591:2020 EN ISO 11591:2020/A1:2023
ISO 11592-1	ISO 11592-1:2016	Small craft — Determination of maximum propulsion power rating using manoeuvring speed — Part 1: craft with a length of hull less than 8 m	EN ISO 11592-1:2016
ISO 11812	ISO 11812:2001	Small craft — Watertight cockpits and quick-draining cockpits	EN ISO 11812:2018
ISO 12215-1	ISO 12215-1:2000	Small craft — Hull construction and scantlings — Part 1: Materials: Thermosetting resins, glass-fibre reinforcement, reference laminate	EN ISO 12215-1:2018
ISO 12215-2	ISO 12215-2:2002	Hull construction and scantlings — Part 2: Materials: Core materials for sandwich construction, embedded materials	EN ISO 12215-2:2002
ISO 12215-3	ISO 12215-3:2002	Small craft — Hull construction and scantlings — Part 3: Materials: Steel, aluminium alloys, wood, other materials	EN ISO 12215-3:2018
ISO 12215-5	ISO 12215-5:2019	Small craft — Hull construction and scantlings — Part 5: Design pressures for monohulls, design stresses, scantlings	EN ISO 12215-5:2019



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<b>Column 1 Reference in Clause 2</b>	<b>Column 2 International Standard Edition</b>	<b>Column 3 Title</b>	<b>Column 4 Corresponding European Standard Edition</b>
		determination	
ISO 12216	ISO 12216:2020 ISO 12216:2020/A1:2022	Small craft — Windows, portlights, hatches, deadlights and doors — Strength and watertightness requirements	EN ISO 12216:2022 EN ISO 12216:2022/A1:2022 EN ISO 12216:2022/A11:2023
ISO 12217-1:2022	ISO 12217-1:2022	Small craft — Stability and buoyancy assessment and categorization — Part 1: Non-sailing boats of hull length greater than or equal to 6 m	Not yet available For applicable standard edition see Column 2
ISO 13297	ISO 13297:2020 ISO 13297:2020/Amd 1:2022	Small craft — Electrical systems — Alternating and direct current installations	EN ISO 13297:2021 EN ISO 13297:2021/A1:2022 EN ISO 13297:2021/A11:2023
ISO 13929	ISO 13929:2001	Small craft — Steering gear — Geared link systems	EN ISO 13929:2017
ISO 14945	ISO 14945:2021	Small craft - Builder's plate	EN ISO 14945:2021
ISO 14946	ISO 14946:2021	Small craft — Maximum load capacity	EN ISO 14946:2021
ISO 15084	ISO 15084:2003	Small craft — Anchoring, mooring and towing — Strong points	EN ISO 15084:2018
ISO 15085:2003/Amd 2:2017	ISO 15085:2003 ISO 15085:2003/Amd 2:2017	Small craft - Man-overboard prevention and recovery	EN ISO 15085:2003 EN ISO 15085:2003/A2:2018
ISO 16315	ISO 16315:2016	Small craft — Electric propulsion system	EN ISO 16315:2016
ISO 21487	ISO 21487:2012 ISO 21487:2012/A2:2015	Small craft — Permanently installed petrol and diesel fuel tanks	EN ISO 21487:2018
ISO 23411	ISO 23411:2020	Small craft — Steering wheels	EN ISO 23411:2021
ISO 25197	ISO 25197:2012 ISO 25197/A1:2014	Small craft — Electrical/electronic control systems for steering, shift and throttle	EN ISO 25197:2018

Column 1 Reference in Clause 2	Column 2 International Standard Edition	Column 3 Title	Column 4 Corresponding European Standard Edition
EN 314-2	N/A	Plywood - Bonding quality - Part 2: Requirements	EN 314-2:1993

The documents listed in the Column 1 of Table ZA.2, in whole or in part, are normatively referenced in this document and are indispensable for its application. The achievement of the presumption of conformity is subject to the application of the edition of Standards as listed in Column 4 or, if no European Standard Edition exists, the International Standard Edition given in Column 2 of Table ZA.2.

**WARNING 1** — Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

**WARNING 2** — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.



# International Standard

**ISO 6185-3**

## Inflatable boats —

Part 3:

**Boats with a length of the hull less than 8 m with a motor power rating of 15 kW and greater**

*Bateaux pneumatiques —*

*Partie 3: Bateaux d'une longueur de coque inférieure à 8 m et d'une puissance moteur assignée supérieure ou égale à 15 kW*

**Third edition  
2024-04**

**ISO 6185-3:2024(en)****COPYRIGHT PROTECTED DOCUMENT**

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Published in Switzerland

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## ISO 6185-3:2024(en)

### Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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 document 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](http://www.iso.org/directives)).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at [www.iso.org/patents](http://www.iso.org/patents). ISO shall not be held responsible for identifying any or all such patent rights.

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This document was prepared by Technical Committee ISO/TC 188, *Small craft*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 464, *Small Craft*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 6185-3:2014), which has been technically revised.

The main changes are as follows:

- Type VII and VIII boats now distinguished only by design category, not by power;
- definitions updated to reflect current practice;
- Type VIII (category) boats are permitted a greater range of heel angle to achieve the minimum required righting moment;
- to reflect the increase in power and speed, in-water performance tests may be conducted at less than full power and in smaller waves;
- crew are recommended not to sit on tubes when operating at high-speed or in waves higher than 2 m, regardless of their design category;
- addition of requirements for design and testing of lifting points.

A list of all parts in the ISO 6185 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## ISO 6185-3:2024(en)

### Introduction

The ISO 6185 series is subdivided into four parts as shown below. It excludes:

- boats with a tube consisting of a single buoyancy chamber;
- boats < 1 800 N buoyancy;
- boats made from unsupported materials > 12 kN inflated buoyancy and powered by engines > 4,5 kW.

It is not applicable to:

- aquatic toys;
- inflatable liferafts.

ISO 6185-1:

- Type I Boats with  $L_H < 8$  m propelled exclusively by manual means.
- Type II Powered boats with  $L_H < 8$  m with a power  $\leq 4,5$  kW.
- Type III Canoes and kayaks with  $L_H < 8$  m.
- Type IV Sail boats with  $L_H < 8$  m with a sail area  $\leq 6$  m<sup>2</sup>.

ISO 6185-2:

- Type V Powered boats with  $L_H < 8$  m with power  $4,5$  kW  $< P \leq 15$  kW
- Type VI Sail boats with  $L_H < 8$  m with sail area  $> 6$  m<sup>2</sup>.

This document (ISO 6185-3):

- Type VII Powered boats with  $L_H < 8$  m in design category C or D with power  $\geq 15$  kW.
- Type VIII Powered boats with  $L_H < 8$  m in design category B with power  $\geq 15$  kW.

ISO 6185-4:

- Type IX Powered boats (design categories C and D) with  $8$  m  $< L_H \leq 24$  m with power  $\geq 15$  kW.
- Type X Powered boats (design category B) with  $8$  m  $< L_H \leq 24$  m with power  $\geq 75$  kW.

NOTE ISO 6185-4 applies only to rigid inflatable boats with  $8$  m  $< L_H \leq 24$  m. For non-rigid inflatables with a length of hull in this range, this document can be applied.



# Inflatable boats —

## Part 3:

# Boats with a length of the hull less than 8 m with a motor power rating of 15 kW and greater

## 1 Scope

This document specifies the minimum safety characteristics required for the design, materials, manufacture and testing of inflatable boats and rigid inflatable boats with a length of the hull  $L_H$  in accordance with ISO 8666 less than 8 m with a motor power rating of 15 kW and greater.

This document is applicable to the following types of boats intended for use within the operating temperatures of  $-20\text{ °C}$  to  $+60\text{ °C}$ :

- Type VII: Powered boats, fitted with a buoyancy tube on the port and starboard sides, suitable for navigation in conditions of design categories C and D.
- Type VIII: Powered boats, fitted with a buoyancy tube on the port and starboard sides, suitable for navigation in conditions of design category B.

This document excludes single-chambered boats and boats with tubes made from unsupported materials, and does not apply to aquatic toys and inflatable liferafts.

Boats with tubes made from aluminium, roto-moulded polyethylene, fibre reinforced plastic or other rigid materials are excluded from this document.

## 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 1817, *Rubber, vulcanized or thermoplastic — Determination of the effect of liquids*

ISO 2411, *Rubber- or plastics-coated fabrics — Determination of coating adhesion*

ISO 3011, *Rubber- or plastics-coated fabrics — Determination of resistance to ozone cracking under static conditions*

ISO 4674-1, *Rubber- or plastics-coated fabrics — Determination of tear resistance — Part 1: Constant rate of tear methods*

ISO 4675, *Rubber- or plastics-coated fabrics — Low-temperature bend test*

ISO 7840, *Small craft — Fire-resistant fuel hoses*

ISO 8099-1, *Small craft — Waste systems — Part 1: Waste water retention*

ISO 8099-2, *Small craft — Waste systems — Part 2: Sewage treatment systems*

ISO 8469, *Small craft — Non-fire-resistant fuel hoses*

ISO 8847, *Small craft — Steering gear — Cable over pulley systems*

**ISO 6185-3:2024(en)**

- ISO 8848, *Small craft — Remote mechanical steering systems*
- ISO 9093, *Small craft — Seacocks and through-hull fittings*
- ISO 9094, *Small craft — Fire protection*
- ISO 10087, *Small craft — Craft identification — Coding system*
- ISO 10088, *Small craft — Permanently installed fuel systems*
- ISO 10239, *Small craft — Liquefied petroleum gas (LPG) systems*
- ISO 10592, *Small craft — Remote hydraulic steering systems*
- ISO 11105, *Small craft — Ventilation of petrol engine and/or petrol tank compartments*
- ISO 11591, *Small craft — Field of vision from the steering position*
- ISO 11592-1, *Small craft — Determination of maximum propulsion power rating using manoeuvring speed — Part 1: Craft with a length of hull less than 8 m*
- ISO 11812, *Small craft — Watertight or quick-draining recesses and cockpits*
- ISO 12215-1, *Small craft — Hull construction and scantlings — Part 1: Materials: Thermosetting resins, glass-fibre reinforcement, reference laminate*
- ISO 12215-2, *Small craft — Hull construction and scantlings — Part 2: Materials: Core materials for sandwich construction, embedded materials*
- ISO 12215-3, *Small craft — Hull construction and scantlings — Part 3: Materials: Steel, aluminium alloys, wood, other materials*
- ISO 12215-5, *Small craft — Hull construction and scantlings — Part 5: Design pressures for monohulls, design stresses, scantlings determination*
- ISO 12216:2020/Amd 1:2022, *Small craft — Windows, portlights, hatches, deadlights and doors — Strength and watertightness requirements — Amendment 1*
- ISO 12217-1:2022, *Small craft — Stability and buoyancy assessment and categorization — Part 1: Non-sailing boats of hull length greater than or equal to 6 m*
- ISO 13297, *Small craft — Electrical systems — Alternating and direct current installations*
- ISO 13929, *Small craft — Steering gear — Geared link systems*
- ISO 14945, *Small craft — Builder's plate*
- ISO 14946, *Small craft — Maximum load capacity*
- ISO 15084, *Small craft — Anchoring, mooring and towing — Strong points*
- ISO 15085:2003/Amd 2:2017, *Small craft — Man-overboard prevention and recovery — Amendment 2*
- ISO 16315, *Small craft — Electric propulsion system*
- ISO 21487, *Small craft — Permanently installed petrol and diesel fuel tanks*
- ISO 23411, *Small craft — Steering wheels*
- ISO 25197, *Small craft — Electrical/electronic control systems for steering, shift and throttle*
- EN 314-2, *Plywood – Bonding quality – Part 2: Requirements*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**