

VÄIKELAEVAD. STABIILSUSE JA UJUVUSE HINDAMINE JA
KLASSIFITSEERIMINE. OSA 1: MITTE PURJELAEVAD,
MILLE KERE PIKKUS ON 6 MEETRIT VÕI ROHKEM

Small craft - Stability and buoyancy assessment and
categorization - Part 1: Non-sailing boats of hull length
greater than or equal to 6 m (ISO 12217-1:2015)

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 12217-1:2017 sisaldab Euroopa standardi EN ISO 12217-1:2017 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 12217-1:2017 consists of the English text of the European standard EN ISO 12217-1:2017.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 27.09.2017.	Date of Availability of the European standard is 27.09.2017.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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English Version

Small craft - Stability and buoyancy assessment and categorization - Part 1: Non-sailing boats of hull length greater than or equal to 6 m (ISO 12217-1:2015)

Petits navires - Évaluation et catégorisation de la stabilité et de la flottabilité - Partie 1: Bateaux à propulsion non vélique d'une longueur de coque supérieure ou égale à 6 m (ISO 12217-1:2015)

Kleine Wasserfahrzeuge - Stabilitäts- und Auftriebsbewertung und Kategorisierung - Teil 1: Nicht-Segelboote ab 6 m Rumpflänge (ISO 12217-1:2015)

This European Standard was approved by CEN on 23 July 2017.

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

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European foreword

The text of ISO 12217-1:2015 has been prepared by Technical Committee ISO/TC 188 “Small craft” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 12217-1:2017.

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 March 2018, and conflicting national standards shall be withdrawn at the latest by March 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 ISO 12217-1:2015.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

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 12217-1:2015 has been approved by CEN as EN ISO 12217-1:2017 without any modification.

Annex ZA (informative)

Relationship between this European Standard and the essential requirements of Directive 2013/53/EU aimed to be covered

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 of Directive 2013/53/EU

Essential Requirements of Directive 2013/53/EU	Clause(s)/sub-clause(s) of this EN	Remarks/Notes
I.A.1 - Watercraft Design Categories	Clause 5, 6, 7, Annex I	The evaluation of stability and buoyancy properties using EN ISO 12217-1 will enable boats primarily propelled by human or mechanical power of 6 m to 24 m hull length to be assigned to a design category (A, B, C or D) appropriate to its design and maximum load. Design categories A, B, C and D defined in this standard correspond to design categories A, B, C and D of Directive 2013/53/EU.
I.A.2.3.2 - Stability and Freeboard	Clause 5, 6 Annexes A, B, C, D, E	
I.A.2.3.3 - Buoyancy and flotation	Clause 6.6, 6.8 Annexes F, G	Habitable multihulls susceptible to inversion shall also comply with the inverted buoyancy requirements of ISO 12217-2, 7.12.
I.A.2.3.5 - Flooding	Clause 6 Annex A, B C and D	In respect of watertight integrity and downflooding openings including ventilation openings and fittings.
I.A.2.3.6 - Maximum recommended load	Clause 5	
I.A.3.8 - Escape	Clause 6.6	Habitable multihulls susceptible

		to inversion shall also comply with the escape requirements of ISO 12217-2, 7.13. This standard does not include means of escape in the event of fire.
I.A.2.5 - Owner's manual	Annex H	

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.

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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 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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#).

The committee responsible for this document is ISO/TC 188, *Small craft*.

This third edition cancels and replaces the second edition (ISO 12217-1:2013), of which it constitutes a minor revision. It incorporates the following modifications:

- Introduction: the reference to the European Directive has been updated (2013/53/EU);
- [Clause 1](#), [6.1.1.6](#) letter d) 3), [6.6](#) and Worksheet 9 of [Annex J](#): “vulnerable” has been replaced with “susceptible”;
- [Clause 2](#): ISO 6185-4:2011 has been added;
- [Clause 3](#): entries [3.1.1](#), [3.4.3](#), [3.4.5](#), [3.4.6](#) and [3.5.9](#) have been amended;
- [Subclause 6.1.2.2](#), letter c): option 6 has been included;
- [Subclauses 6.3.2](#) and [6.4.1](#): the formulae have been harmonised;
- [Subclauses 6.5.2.3](#) and [6.5.2.4](#): formulae coefficients have been corrected;
- [Subclause 7.2](#): the text and Table 6 have been amended;
- [Clause F.4](#): [Table F.5](#) has been amended, [subclause F.4.4](#) has been added;
- [Annex J](#): worksheets 1, 2, 3, 6, 7, 8, 9, 10 and 12 have been corrected to align with corrections listed above;
- [Annex K](#) has been added;
- Bibliography: reference to ISO 7010 has been added;
- Editorial and cross-referencing corrections have been made to [Table 2](#), [subclauses 6.5.1](#), [6.5.2.2](#) and [6.5.2.3](#), and worksheets 4 and 8 of [Annex J](#).

ISO 12217 consists of the following parts, under the general title *Small craft — Stability and buoyancy assessment and categorization*:

- *Part 1: Non-sailing boats of hull length greater than or equal to 6 m*
- *Part 2: Sailing boats of hull length greater than or equal to 6 m*
- *Part 3: Boats of hull length less than 6 m*

Introduction

This part of ISO 12217 enables the determination of the limiting environmental conditions for which an individual boat has been designed.

It enables the boat to be assigned to a design category appropriate to its design and maximum load. The design categories used align with those in the Recreational Craft Directive of the European Union, EU Directive 2013/53/EU.

The design category given in respect of stability and buoyancy is that for which the boat satisfies all the requirements according to [5.3](#), as summarized in [Annex I](#).