



SLOVENSKI STANDARD SIST EN ISO 12215-3:2018

01-december-2018

Nadomešča:

SIST EN ISO 12215-3:2002

Mala plovila - Konstrukcija trupa in zahtevane lastnosti - 3. del: Materiali: jeklo, aluminijeve zlitine, les, drugi materiali (ISO 12215-3:2002)

Small craft - Hull construction and scantlings - Part 3: Materials: Steel, aluminium alloys, wood, other materials (ISO 12215-3:2002)

Kleine Wasserfahrzeuge - Rumpfbauweise und Dimensionierung - Teil 3: Werkstoffe: Stahl, Aluminiumlegierungen, Holz, andere Werkstoffe (ISO 12215-3:2002)

Petits navires - Construction de coques et échantillons - Partie 3: Matériaux: Acier, alliages d'aluminium, bois, autres matériaux (ISO 12215-3:2002)

Ta slovenski standard je istoveten z: EN ISO 12215-3:2018

ICS:

47.020.10	Ladijski trupi in njihovi konstrukcijski elementi	Hulls and their structure elements
47.080	Čolni	Small craft

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN ISO 12215-3

September 2018

ICS 47.080

Supersedes EN ISO 12215-3:2002

English Version

**Small craft - Hull construction and scantlings - Part 3:
Materials: Steel, aluminium alloys, wood, other materials
(ISO 12215-3:2002)**

Petits navires - Construction de coques et échantillons -
Partie 3: Matériaux: Acier, alliages d'aluminium, bois,
autres matériaux (ISO 12215-3:2002)

Kleine Wasserfahrzeuge - Rumpfbauweise und
Dimensionierung - Teil 3: Werkstoffe: Stahl,
Aluminiumlegierungen, Holz, andere Werkstoffe (ISO
12215-3:2002)

This European Standard was approved by CEN on 16 April 2018.

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.

CEN members are the national standards bodies of 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 United Kingdom.



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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

The text of ISO 12215-3:2002 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 12215-3:2018.

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 2019, and conflicting national standards shall be withdrawn at the latest by March 2019.

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 12215-3:2002.

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 2013/53/EU.

For relationship with EU Directive 2013/53/EU, 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.

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The text of ISO 12215-3:2002 has been approved by CEN as EN ISO 12215-3:2018 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
Annex I, Part A, 3.1 - Structure	All clauses	This standard addresses the essential requirement set out in Annex I, Part A, 3.1 in respect of the requirements for steel, aluminium alloys, wood and other materials used for the construction of watercraft with the exception of thermosetting resins, glass fibre reinforcement and reference laminate which are addressed separately by part 1 of this standard series.
Annex I, Part A, 2.5 - Owner's Manual	8, Annex A	

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 12215-3

First edition
2002-05-01

Small craft — Hull construction and scantlings —

Part 3:

**Materials: Steel, aluminium alloys, wood,
other materials**

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Petits navires — Construction de coques et échantillons —

Partie 3: Matériaux. Acier, alliages d'aluminium, bois, autres matériaux

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Reference number
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ISO 12215-3:2002(E)

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this part of ISO 12215 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 12215-3 was prepared by Technical Committee ISO/TC 188, *Small craft*.

ISO 12215 consists of the following parts, under the general title *Small craft — Hull construction and scantlings*:

- *Part 1: Materials: Thermosetting resins, glass-fibre reinforcement, reference laminate*
- *Part 2: Materials: Core materials for sandwich construction, embedded materials*
- *Part 3: Materials: Steel, aluminium alloys, wood, other materials*
- *Part 4: Workshop and manufacturing*
- *Part 5: Design pressures, design stresses, scantling determination*
- *Part 6: Structural arrangements and details*

Annex A forms a normative part of this part of ISO 12215.

Small craft — Hull construction and scantlings —

Part 3:

Materials: Steel, aluminium alloys, wood, other materials

1 Scope

This part of ISO 12215 specifies requirements for materials intended for use in the construction of the hull, superstructure and appendages, in particular:

- weldable normal and higher strength hot-rolled steel plates, wide flats, sections and bars;
- austenitic stainless steels, fabricated in the form of plates or profiles;
- wrought aluminium alloys fabricated as plates, sections and extruded profiles;
- wood in the form of solid timber, plywood or veneer;
- other suitable materials.

NOTE 1 Other materials may be used in the construction of small craft if adequate suitability and durability for the intended purpose can be demonstrated.

This part of ISO 12215 applies to small craft with a length hull (L_H) according to ISO 8666 of up to 24 m.

NOTE 2 The underlying reason for preparing this part of ISO 12215 is that the choice of materials for the construction of a small craft has a significant influence on short-term and long-term durability under the expected loads and environmental conditions.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of ISO 12215. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this part of ISO 12215 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 8666: —¹⁾, *Small craft — Principal data*

ISO 12215-4:2002, *Small craft — Hull construction and scantlings — Part 4: Workshop and manufacturing*

3 Terms and definitions

For the purposes of this part of ISO 12215, the following terms and definitions apply.

1) To be published.