STN

Malé plavidlá Konštrukcia trupu a dimenzovanie Časť 2: Materiály: Materiály jadier na sendvičové konštrukcie, vložené materiály (ISO 12215-2: 2002)

STN EN ISO 12215-2

32 0871

Small craft - Hull construction and scantlings - Part 2: Materials: Core materials for sandwich construction, embedded materials (ISO 12215-2:2002)

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. 04/19

Obsahuje: EN ISO 12215-2:2018, ISO 12215-2:2002

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English Version

Small craft - Hull construction and scantlings - Part 2: Materials: Core materials for sandwich construction, embedded materials (ISO 12215-2:2002)

Petits navires - Construction de coques et échantillons -Partie 2: Matériaux: Matériaux d'âme pour les constructions de type sandwich, matériaux enrobés (ISO 12215-2:2002) Kleine Wasserfahrzeuge - Rumpfbauweise und Dimensionierung - Teil 2: Werkstoffe: Kernwerkstoffe für Verbundbauweise, eingebettete Werkstoffe (ISO 12215-2:2002)

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

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

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

EN ISO 12215-2:2018 (E)

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European foreword

The text of ISO 12215-2:2002 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 12215-2:2018.

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of an identical text or by endorsement, at the latest by April 2019, and conflicting national standards shall be withdrawn at the latest by April 2019.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 12215-2:2002.

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.

Endorsement notice

The text of ISO 12215-2:2002 has been approved by CEN as EN ISO 12215-2:2018 without any modification.

EN ISO 12215-2:2018 (E)

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	3, 4, Annex A	This standard only specifies the requirements for core materials for structural use and materials that are imbedded in sandwich construction of watercraft. It is intended that it is used with Part 5 where necessary to ensure material shall have adequate properties to enable the structure to fulfil the requirements specified in Part 5 for a normal service life and that the watercraft is strong enough in all respects.
Annex I, Part A, 2.5 – Owner's Manual	5	

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 12215-2

First edition 2002-05-01

Small craft — Hull construction and scantlings —

Part 2:

Materials: Core materials for sandwich construction, embedded materials

Petits navires — Construction de coques et échantillons —

Partie 2: Matériaux: Matériaux d'âme pour les constructions de type sandwich, matériaux enrobés



ISO 12215-2:2002(E)

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ISO 12215-2:2002(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 12215-2 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 2:

Materials: Core materials for sandwich construction, embedded materials

1 Scope

This part of ISO 12215 specifies requirements for core materials for structural use and materials that are embedded in sandwich construction. It is applicable to small craft with a hull length ($L_{\rm H}$) according to ISO 8666 of up to 24 m.

NOTE The underlying reason for preparing this part of ISO 12215 is that sandwich structures of small craft require careful selection of core materials from a multitude of choices, and that the manufacturing has to follow certain procedures to achieve the intended 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 844:2001, Rigid cellular plastics — Determination of compression properties

ISO 845:1988, Cellular plastics and rubbers — Determination of apparent (bulk) density

ISO 1922:2001, Rigid cellular plastics — Determination of shear strength

ISO 1926:—1), Cellular plastics — Determination of tensile properties of rigid materials

ISO 2896:2001, Rigid cellular plastics — Determination of water absorption

ISO 3131:1975, Wood — Determination of density for physical and mechanical tests

ISO 3132:1975, Wood — Testing in compression perpendicular to grain

ISO 3345:1975, Wood — Determination of ultimate tensile stress parallel to grain

ISO 3346:1975, Wood — Determination of ultimate tensile stress perpendicular to grain

ISO 4589 (all parts):1996, Plastics — Determination of burning behaviour by oxygen index

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¹⁾ To be published. (Revision of ISO 1926:1979)

ISO 12215-2:2002(E)

ISO 8666:—2), Small craft — Principal data

ISO 12215-5:—²⁾, Small craft — Hull construction and scantlings — Part 5: Design pressures, design stresses, scantling determination

ASTM C365:2000, Standard test method for flatwise compressive properties of sandwich cores

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

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²⁾ To be published