# INTERNATIONAL STANDARD

ISO 12215-5

> First edition 2008-04-15 **AMENDMENT 1** 2014-07-01

## Small craft — Hull construction and scantlings —

Part 5:

Design pressures for monohulls, design stresses, scantlings determination

**AMENDMENT 1** 

Petits navires — Construction de coques et échantillonnage —

Partie 5: Pressions de conception pour monocoques, contraintes de conception, détermination de l'échantillonnage

AMENDEMENT 1





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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*.

## Small craft — Hull construction and scantlings —

### Part 5:

## Design pressures for monohulls, design stresses, scantlings determination

## **AMENDMENT 1**

Page vi, Introduction

Add to the end of present text.

This part of ISO 12215 was developed with the aim of creating the lightest but strongest scantlings, applicable to all types of small craft across the globe. The universal approach resulted in a comprehensive document, but for users with little mathematical knowledge may be well perceived as too difficult or requiring the purchase of software or hiring consultants. Annex A of this part of ISO 12215 includes a simplified method to determine scantlings, but its application is very limited [sailing craft of categories C and D of length of hull  $(L_{\rm H})$  < 9 m].

With the intention of ISO/TC 188 standards being widely usable, interested stakeholders have developed a user-friendly software application of ISO 12215-5 for six modules, covering glass-reinforced plastics (GRP), steel and aluminium, sailing and power boats, using Microsoft Excel. The calculation spreadsheet presented here assists in determining scantlings for craft in design categories A-C up to  $L_H=12$  m and category D up to  $L_H=24$  m. The calculation spreadsheet is not a stand-alone software product; it works as an application guide to the main standard leading through the relevant clauses of this part of ISO 12215. From the beginning of its development, it was proposed to be implemented in the standard. It is distributed as an application of the standard.

See Annex A for further details and a link to software.

Page 2, Clause 2

Replace the reference to ISO 12215-9 by:

ISO 12215-9, Small craft — Hull construction and scantlings — Part 9: Sailing craft appendages

Page 45, Annex A

Add as a new NOTE before Clause A.1:

NOTE A software/Excel spreadsheet to support ISO 12215-5:2008 is available from an ISO hosted website at http://standards.iso.org/iso/12215/-5/. In conjunction with the standard, this application tool assists scantlings calculation for boats in design categories A – C up to 12 m and category D boats up to 24 m and for materials GRP, steel and aluminium. Compared with commercial software, the application has to be understood as a basic boatbuilding calculator. An initial study of the scope of application of the software (see tutorials) and the system requirements is recommended prior to working with the spreadsheet.

