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Second edition  
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## **Small craft — Windows, portlights, hatches, deadlights and doors — Strength and watertightness requirements**

*Petits navires — Fenêtres, hublots, panneaux, tapes et portes —  
Exigences de résistance et d'étanchéité*



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

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 188, *Small craft*.

This second edition cancels and replaces the first edition (ISO 12216:2002), which has been technically revised.

The main changes compared to the previous edition are as follows:

- new definitions ([Clause 3](#));
- change in watertightness requirements ([4.3.1](#));
- change of size allowance for glazing in the hull in area I ([6.3.1.1](#));
- change in the requirements for the use of glass in area IIa appliances ([6.3.2](#));
- new requirements for flush deck hatches ([6.3.3](#));
- new requirements for multihull break out panels ([6.3.8](#));
- new definition and requirements for prefabricated appliances ([6.3.9](#));
- new requirements for simply supported plates ([7.2.9](#) and [7.2.10](#));
- new direct calculation method for laminated glass plates ([7.3](#));
- new advanced calculation method for strength requirements on certain types of non glazed plates ([7.4](#));
- new requirements for pressure test ([D.2.1](#));
- new requirements for watertightness test ([D.2.2](#));
- new requirement for mechanical links test ([Clause D.3](#));

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- change to method of separation test ([D.4.3](#));
- new precalculated plate thickness tables ([Annex F](#)).

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).