
**Ships and marine technology — Clear
openings for external single-leaf doors**

*Navires et technologie maritime — Ouvertures libres pour les portes
extérieures à un seul battant*

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Contents

	Page
Foreword.....	iv
1 Scope.....	1
2 Normative references.....	1
3 Terms and definitions.....	1
4 Clear openings/nominal sizes.....	1

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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 document 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).

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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.

This document was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 8, *Ship design*.

This third edition cancels and replaces the second edition (ISO 3796:1999), which has been technically revised.

The main changes are as follows:

- an angle bar frame with rounded corners (100 mm radius) type has been added in [Figure 1](#) and [Table 1](#);
- 6 nominal sizes have been added in [Table 1](#).

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.

Ships and marine technology — Clear openings for external single-leaf doors

1 Scope

This document lays down standardized dimensions of clear openings for all types of external single-leaf doors on board ships, for which coamings are required.

These dimensions are used as nominal sizes for these doors of ships.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

clear opening

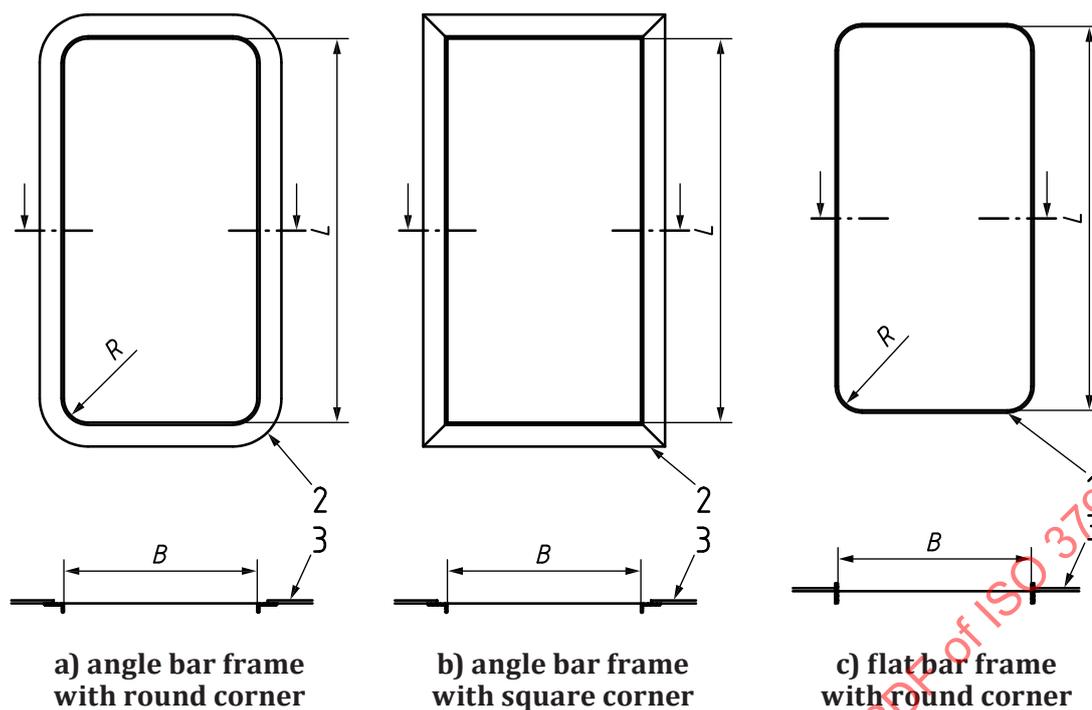
clear light dimension for the height (L) and width (B) of the inside of a door frame

4 Clear openings/nominal sizes

Depending on the design of the door frame, the corners of clear openings can be square or rounded with R as given in [Table 1](#).

In order to prevent cracking, rounded corners with $R = 100$ mm shall be preferred. The opening in plates with high loads induced by longitudinal bending of ships should be calculated and a door with round corners should be used.

Clear openings for different types of door frame are shown in [Figure 1](#).



Key

- 1 flat bar frame
- 2 angle bar frame
- 3 wall or bulkhead plate
- L height of the inside of a door frame
- B width of the inside of a door frame
- R radius of the corners inside of a door frame

Figure 1 — Clear openings for different types of frame