

# INTERNATIONAL STANDARD

**ISO**  
**6042**

Second edition  
1998-08-15

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## **Ships and marine technology — Weathertight single-leaf steel doors**

*Navires et technologie maritime — Portes en acier à un seul battant,  
étanches aux intempéries*



Reference number  
ISO 6042:1998(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.

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.

International Standard ISO 6042 was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 8, *Structures*.

This second edition cancels and replaces the first edition (ISO 6042:1980), of which it constitutes a technical revision.

## Amendments

The following amendments have been made to the first edition (1980-11-01).

- a) The opening direction has been defined.
- b) The door type FBR (corner radius 100 mm) has been added.
- c) The nominal sizes of doors have been related to position 1 or 2 according to LLC66.
- d) Doors with eight clips have been dropped.
- e) Doors with four clips have been added.
- f) The inclined and vertical position of the door-seal retaining bar has been admitted.
- g) The tolerances for L and B have been changed.
- h) The distance between the hinge's pivot and the door frame has been changed from 55 mm to 60 mm.
- i) A statement, that the door seal may also be constructed as hollow sections, has been added.
- j) The minimum tensile strength of the steel for door plates, frames, hinges, etc. has been changed to 340 N/mm<sup>2</sup>.
- k) The designation has been added.
- l) The standard has been editorially revised.

Annex A of this International Standard is for information only.

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# Ships and marine technology — Weathertight single-leaf steel doors

## 1 Scope

This International Standard specifies the main dimensions, materials, quality and conditions of manufacture for weathertight single-leaf steel doors for application on board ships, in order to ensure interchangeability of the steel doors. The remaining dimensions, welding and other details are left to the manufacturer.

These doors generally conform to the requirements of the International Convention on Load Lines 1966 (LLC66). The possibility for application of the doors to position 1 and position 2 has to be considered for each situation and, where necessary, the doors shall be provided with additional stiffening (see also table 1).

Annex A provides the dimensions of openings in bulkheads.

NOTE — Users of this International Standard should note that while observing the requirements of this standard they should, at the same time, ensure compliance with such statutory requirements, rules and regulations as may be applicable to the individual ship concerned.

## 2 Normative reference

The following standard contains provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3796:1976, *Shipbuilding — Clear openings through frames for external single-leaf doors*.

## 3 Doors, door frames, door plates and accessories

### 3.1 Opening direction

For the definitions of left-hand door and right-hand door, see figure 1.

Doors in accordance with this International Standard can be used for both opening directions (left-hand or right-hand) before they are installed in bulkhead plates.

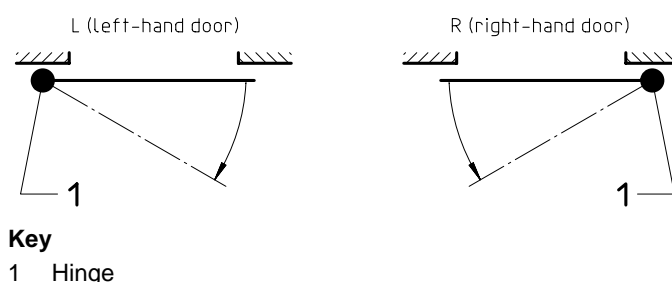


Figure 1 — Opening directions