

# INTERNATIONAL STANDARD

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**5797-1**

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## **Shipbuilding and marine structures — Windows and side scuttles for fire-resistant constructions — Specifications —**

### **Part 1: “B” class divisions**

*Construction navale et structures maritimes — Fenêtres et hublots pour  
constructions résistant au feu — Spécifications —*

*Partie 1: Cloisonnements de type «B»*



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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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 5797-1 was prepared by Technical Committee ISO/TC 8, *Shipbuilding and marine structures*.

ISO 5797 consists of the following parts, under the general title *Shipbuilding and marine structures — Windows and side scuttles for fire-resistant constructions — Specifications*:

- Part 1: “B” class divisions
- Part 2: “A” class divisions

Annex A of this International Standard is given for information only.

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International Organization for Standardization

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# Shipbuilding and marine structures — Windows and side scuttles for fire-resistant constructions — Specifications —

## Part 1: “B” class divisions

### 1 Scope

This part of ISO 5797 gives additional specifications for windows and side scuttles intended for installation in fire-resistant constructions in ships and marine structures as defined in Chapter II, Regulation 3 of the 1981 *Amendments to the International Convention for the Safety of Life at Sea, 1974 (SOLAS 1974)*.

It lays down the requirements on the construction for glass panes, glassholder and main frame as well as testing and marking of such windows and side scuttles.

### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 5797. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 5797 are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 614 : 1976, *Shipbuilding — Toughened safety glass panes for ships' side scuttles and ships' rectangular windows — Punch method of non-destructive strength testing*.

ISO 1095 : 1976, *Shipbuilding — Toughened safety glass panes for ships' side scuttles*.

ISO 1751 : 1977, *Shipbuilding — Ships' side scuttles*.

ISO 3254 : 1975, *Shipbuilding — Toughened safety glass panes for ships' rectangular windows*.

ISO 3903 : 1977, *Shipbuilding — Ships' ordinary rectangular windows*.

ISO 5779 : 1987, *Shipbuilding — Ordinary rectangular windows — Positioning*.

ISO 5780 : 1987, *Shipbuilding — Side scuttles — Positioning*.

IMO Resolution A.517(13) (adopted 17 November 1983), *Recommendation on fire test procedures for “A”, “B” and “F” class divisions*.

*International Convention for the Safety of Life at Sea, 1974 (SOLAS 1974)* with Amendments.

### 3 Classification

Windows and side scuttles for fire-resistant constructions in accordance with this part of ISO 5797 shall meet the IMO<sup>1)</sup> requirements of either 3.1 or 3.2.

#### 3.1 “B-0” fire-resistant constructions

No flame shall break through for the first 30 min of the standard fire test. The unexposed face of the glass is not subject to any requirements concerning temperature rise.

#### 3.2 “B-15” fire-resistant constructions

The same requirements as for “B-0” class fire-resistant constructions shall be met concerning flame breaking through. In addition, within 15 min, the average temperature of the unexposed face of the glass shall not rise more than 139 °C above the original temperature, nor shall the temperature at any point of the external face of the glass, including any joint, rise more than 225 °C above the original temperature.

NOTE — Additional information on IMO requirements is given in annex A.

1) International Maritime Organization.