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Ships and marine technology — Survival equipment for survival craft and rescue boats

Navires et technologie maritime — Équipement de survie pour embarcations de survie et canots de sauvetage

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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

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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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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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 1, *Maritime safety*.

This second edition cancels and replaces the first edition (ISO 18813:2006), which has been technically revised.

The main changes are as follows:

— references have been updated;

— annex has been split into two, with Annex A being normative and Annex B being informative;

— language regarding expiry and replacement of expired equipment was made normative;

— document has been editorially revised.

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.

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Introduction

This document contains detailed specifications for various items of survival equipment carried in survival craft and rescue boats in compliance with the IMO LSA Code. For each item, the relevant subclause title specifies the name of the item, the types of craft in which it is required (LR = liferafts, LB = lifeboats, RB = rescue boats, LB/RB = combined life/rescue boats), and (in the same order) the specific sections of the LSA Code that require it.

For the sake of completeness, certain items of equipment which pre-date the LSA Code, but which are still often carried on existing ships, are addressed in Annex B. For these items, the type of craft specified in the subclause title is followed by the suffix "– old" (e.g., "LB – old").

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Ships and marine technology — Survival equipment for survival craft and rescue boats

1 Scope

This document specifies design, performance, and use of various items of survival equipment carried in survival craft and rescue boats complying with the International Convention for the Safety of Life at Sea (SOLAS), 1974 (as amended) and the International Maritime Organization Life-Saving Appliance Code (LSA Code). For many items, it also includes requirements for maintenance and periodic inspections by Administrations in Annex A and guidelines for maintenance and periodic inspections by Administrations or ships' crews in Annex B. However, compliance of a product with this document does not relieve the manufacturer of a survival craft or rescue boat of the responsibility to evaluate the suitability of the product in their particular application.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 8729, *Ships and marine technology — Marine radar reflectors*

ISO 17339, *Ships and marine technology — Life saving and fire protection — Sea anchors for survival craft and rescue boats*

ISO 25862, *Ships and marine technology — Marine magnetic compasses, binnacles and azimuth reading devices*

International Code for Fire Safety Systems, 2001 [Resolution MSC.98(73)], International Maritime Organization

International Life-Saving Appliance (LSA) Code [Resolution MSC.48(66)], International Maritime Organization, as amended

Recommendation on Testing of Life-Saving Appliances [Resolution A.689(17), as amended through Resolution MSC.81(70)], International Maritime Organization

IMO Resolution A. 384(X), *Performance standards for radar reflectors*

IMO Resolution MSC 164(78), *Revised performance standards for radar reflectors*

IMO Resolution A. 657(16), *Instructions for action in survival craft*

IMO Resolution A. 951(23), *Improved guidelines for marine portable fire extinguishers*

International Aeronautical and Maritime Search and Rescue (IAMSAR) Manual, Volume III: Mobile Facilities, International Maritime Organization and International Civil Aviation Organization

International Code of Signals

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

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

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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/

3.1.1
administration
maritime administration of the State whose flag a ship is entitled to fly

3.1.2
approved
marked with approval markings of a ship's flag Administration, or of a recognized organization acting on its behalf

3.2 Abbreviated terms

FFLB	Free-fall lifeboat
IMO	International Maritime Organization
LB	lifeboat
LB/RB	combined life and rescue boat
LR	liferaft
LSA Code	IMO International Life-Saving Appliance Code [IMO Res. MSC.48(66)]
RB	rescue boat (including fast rescue boat)
SOLAS	International Convention for the Safety of Life at Sea, 1974, as amended by IMO Res. MSC.47(66)

4 Design and performance requirements

4.1 General

The quality of constituent materials, of manufacturing conditions and processes and of the finished product shall be appropriate to the intended performance and serviceability of the equipment. To the extent practicable, materials shall be selected taking into consideration compatibility with other materials used in the product, and the materials used in construction of the craft in which they are to be carried. The use of rigid plastic which can shatter and create sharp or pointed edges shall be avoided. When the case is open, contents shall be protected from moisture.

4.2 Bailer

Requirements for bailers apply to LR, LB and RB, in accordance with the LSA Code, sections 4.1.5.1.3, 4.4.8.3 and 5.1.2.2.2. A bailer shall be buoyant, and if its purpose is not immediately apparent, clearly marked with its function in the appropriate language or languages. It shall have a capacity of at least 2 l and shall be fitted with a lanyard of suitable length for the craft in which it is intended to be used.

4.3 Bilge pump (manual)

4.3.1 General

Requirements for bilge pumps (manual) apply to LR, LB/RB, and to the LSA Code, sections 4.4.8.25.

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