

Small craft — Inflatable liferafts —

Part 1: Type I

ICS 47.080

National foreword

This British Standard reproduces verbatim ISO 9650-1:2005 and implements it as the UK national standard.

The UK participation in its preparation was entrusted to Technical Committee GME/33, Small craft, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, the ISO title page, pages ii to v, a blank page, pages 1 to 20, an inside back cover and a back cover.

The BSI copyright notice displayed in this document indicates when the document was last issued.

Amendments issued since publication

Amd. No.	Date	Comments

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 29 March 2005

© BSI 29 March 2005

ISBN 0 580 45689 7

INTERNATIONAL STANDARD

ISO
9650-1

First edition
2005-03-01

Small craft — Inflatable liferafts —

Part 1: Type I

Petits navires — Radeaux de survie gonflables —

Partie 1: Type I



Contents		Page
Foreword.....		iv
Introduction		v
1	Scope.....	1
2	Normative references	1
3	Terms and definitions.....	2
4	General provisions.....	2
4.1	Introduction	2
4.2	Groups of Type I liferafts.....	3
5	Requirements	3
5.1	General requirements	3
5.2	Detailed requirements	4
6	Test methods	15
6.1	General	15
6.2	Launching test.....	15
6.3	Inflation tests under temperature	16
6.4	Testing of stabilisation means	17
6.5	Righting test	17
6.6	Boarding test	17
6.7	Towing test with sea anchor deployed	17
6.8	Pressure test	18
6.9	Canopy watertightness test	19
Bibliography		20

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

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.

ISO 9650-1 was prepared by Technical Committee ISO/TC 188, *Small craft*.

ISO 9650 consists of the following parts, under the general title *Small craft — Inflatable liferafts*:

- *Part 1: Type I*
- *Part 2: Type II*
- *Part 3: Material*

Introduction

This part of ISO 9650 is intended for inflatable liferafts for small craft used for leisure activities. It does not apply to liferafts required for ships under the International Maritime Organisation (IMO) *Safety Of Life At Sea* (SOLAS) Convention.

A liferaft manufactured and maintained in accordance with this part of ISO 9650 should provide:

- a reasonably safe refuge for a shipwrecked person awaiting rescue;
- a reasonable service lifetime, provided a user meets a manufacturer's clearly specified recommendations on stowage and maintenance.

Compliance with this part of ISO 9650 does not imply that a liferaft will be suitable in all circumstances.

A liferaft which complies with this part of ISO 9650 must be constructed in such a manner that maintenance is as easy and straightforward as possible.

A user must be responsible for selecting a liferaft appropriate to the intended circumstances of use. Manufacturers and vendors must inform potential purchasers of the properties of the product, including possible choices (e.g. different equipment packs), limits on normal usage, and recommendations on stowage and maintenance.

The tests in this part of ISO 9650 have been designed to simulate reality as closely as possible. Compliance with a test does not guarantee similar performance in service. For example, compliance with the re-righting tests does not guarantee that a liferaft can be righted at sea by an exhausted person in any circumstances.

Small craft — Inflatable liferafts —

Part 1: Type I

1 Scope

This part of ISO 9650 specifies the design, performance and marking characteristics, and gives the test methods for inflatable liferafts of Type I:

- having a carrying capacity of 4 to 12 persons;
- applicable on small craft of hull length up to 24 m;
- suitable for launching overboard from a height not exceeding 6 m;
- divided into two groups (group A and group B);
- designed for extended voyages, where high wind and significant wave heights may be experienced, but excluding abnormal conditions such as hurricanes;
- completely self-sufficient;
- prepared to meet serious emergencies without expectation of outside assistance;
- and not voyaging in extreme zones (e.g. Southern Oceans).

Type II liferafts are specified in ISO 9650-2.

2 Normative references

The following referenced documents are indispensable for the application 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 1402, *Rubber and plastics hoses and hose assemblies — Hydrostatic testing*

ISO 6718, *Bursting discs and bursting disc devices*

ISO 17339:2002, *Ships and marine technology — Sea anchors for survival craft and rescue boats*

IMO SOLAS 83, Chapter III, Resolution A.658 (16), Annex 2

SOLAS International Life-Saving Appliance Code (LSA Code)