



**SLOVENSKI STANDARD**  
**oSIST prEN ISO 14946:2018**  
**01-december-2018**

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**Mala plovila - Največja obremenitev (ISO/DIS 14946:2018)**

Small craft - Maximum load capacity (ISO/DIS 14946:2018)

Petits navires - Capacité de charge maximale (ISO/DIS 14946:2018)

**Ta slovenski standard je istoveten z: prEN ISO 14946**

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**ICS:**

47.080

Čolni

Small craft

**oSIST prEN ISO 14946:2018**

**en,fr,de**

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# DRAFT INTERNATIONAL STANDARD

## ISO/DIS 14946

ISO/TC 188

Secretariat: SIS

Voting begins on:  
2018-10-17Voting terminates on:  
2019-01-09

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## Small craft — Maximum load capacity

*Petits navires — Capacité de charge maximale*

ICS: 47.080

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Reference number  
ISO/DIS 14946:2018(E)

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Published in Switzerland

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## ISO/DIS 14946:2018(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.

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](http://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](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on 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 the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

The committee responsible for this document is ISO/TC 188 Small craft.

This second edition cancels and replaces the first edition (ISO 14946:2001), which has been technically revised.

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The main changes compared to the previous edition are as follows:

- Clarified occupancy area and added drawings;
- Updated definitions;
- Updated owner's manual reference.

# Small craft — Maximum load capacity

## 1 Scope

This International Standard lists items to be included in the maximum load of small craft without exceeding the limits set by other ISO standards for stability, freeboard, flotation and man overboard prevention. It further sets requirements for seating and occupancy areas of crew members.

Excluded from this document are personal watercraft covered by ISO 13590.

## 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 8666, *Small craft — Principal data*

## 3 Terms and definitions

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

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

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

### 3.1

#### light craft mass

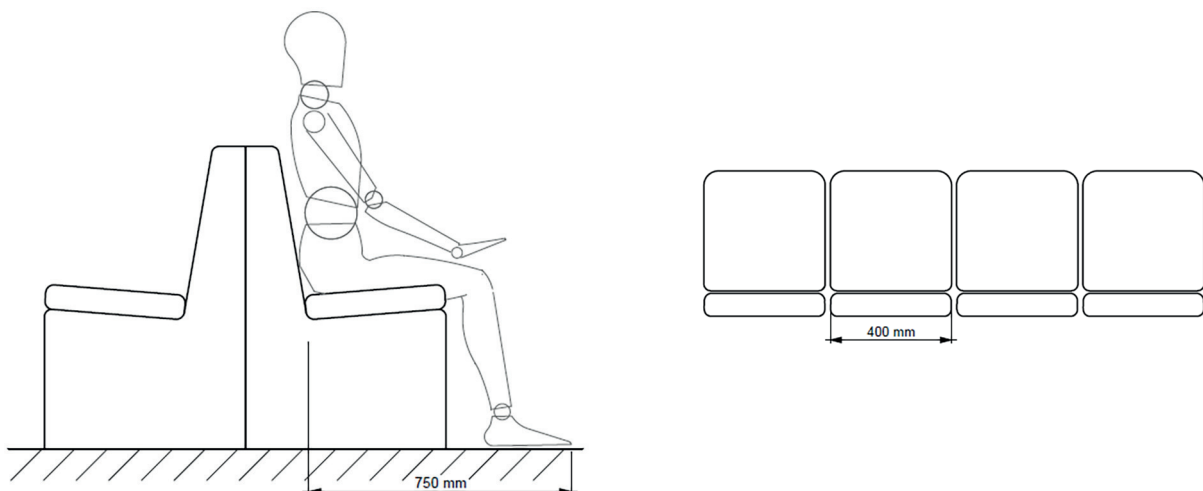
$m_{LCC}$

mass of the craft in light craft condition

### 3.2

#### seat

any surface, horizontal or nearly horizontal, that is intended for a person to sit, with minimum dimensions of 400 mm width by 750 mm length inclusive of clear foot space in front of the seat



**ISO/DIS 14946:2018(E)****3.3****occupancy area**

clear space within the confines of the craft intended for occupants to stand or lean provided that a minimum area measuring 400mmx400mm is available for each person so accommodated.

**3.4****craft****small craft**

recreational boat, and other watercraft using similar equipment, of up to 24 m length of hull (LH)

**4 Maximum number of persons**

The manufacturer's recommended maximum number of persons to be carried when the craft is underway shall not exceed the number of persons for which seating and/or occupancy area is assigned by the manufacturer with dimensions as defined in [3.2](#) and [3.3](#).

NOTE the number of persons may be limited by other standards, particularly those for freeboard, stability, flotation and man overboard prevention.

**5 Maximum load,  $m_{ML}$** 

Load which the craft is designed to carry in addition to the light craft condition, comprising:

- a) the crew limit at 75 kg each;

NOTE ISO 12217-3 and ISO 6185 allow half person capacity for a child up to 37.5 kg

- b) the personal effects of the crew;

- c) stores and cargo (if any), dry provisions, consumable liquids;

- d) contents of all permanently installed storage tanks filled to 95 % of their maximum capacity, including fuel, drinking water, black water, grey water, lubricating and hydraulic oil, bait tanks and/or live wells;

plus

- e) ballast water at 100 % capacity;

- f) consumable liquids in portable tanks (drinking water, fuel) filled to 95 % of the maximum capacity;

- g) dinghy or other craft intended to be carried aboard, and any outboard motor associated with them;

- h) liferaft(s) if carried in excess of the minimum required in essential safety equipment;

- i) non-edible stores and equipment normally carried on the craft and not included in the manufacturer's list of standard equipment, e.g. loose internal equipment and tools, spare parts, and additional anchors;

- j) an allowance for the maximum mass of optional equipment and fittings not included in the manufacturer's basic outfit.

NOTE 1 Liferrafts are not included in essential safety equipment for design categories C and D. See ISO 12217-1-series for description of design categories.

NOTE 2 As a guide, not less than 20 kg per person should be allowed for personal effects on habitable craft.



## 6 Maximum load for builder's plate, $m_{MBP}$

Mass to be included on the builder's plate shall comprise of the following items:

- a) the crew limit at 75 kg each;

NOTE ISO 12217-3 and ISO 6185 allow half person capacity for a child up to 37.5 kg

- b) the personal effects of the crew;
- c) stores and cargo (if any), dry provisions;
- d) consumable liquids in portable tanks (drinking water, fuel) filled to 95 % of the maximum capacity;
- e) dinghy or other craft intended to be carried aboard, and any outboard motor associated with them;

## 7 Owner's manual

7.1 The manufacturer shall state in the Owner's Manual the maximum recommended number of persons in accordance with [Clause 4](#).

7.2 The manufacturer shall state in the Owner's Manual the maximum load and the maximum load for builder's plate recommended in accordance with [Clauses 5](#) and [6](#).

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## Bibliography

- [1] ISO 6185-1, *Inflatable boats — Part 1: Boats with a maximum motor power rating of 4,5 kW*
- [2] ISO 6185-2, *Inflatable boats — Part 2: Boats with a maximum motor power rating of 4,5 kW to 15 kW inclusive*
- [3] ISO 6185-3, *Inflatable boats — Part 3: Boats with a hull length less than 8 m with a motor rating of 15 kW and greater*
- [4] ISO 8666, *Small craft — Principal data*
- [5] ISO 13590, *Small craft — Personal watercraft — Construction and system installation requirements*
- [6] ISO 14945, *Small craft — Builder's plate*

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