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## Small craft — Maximum load capacity

*Petits navires — Capacité de charge maximale*

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ISO 14946:2001

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## Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 14946 was prepared by Technical Committee ISO/TC 188, *Small craft*.

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# 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 crew. It further sets requirements for seating of crew members.

This International Standard applies to small craft with a length of hull  $L_H$  of up to 24 m in accordance with ISO 8666. Excluded are inflatable boats covered by ISO 6185 and personal watercraft covered by ISO 13590.

## 2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 8666:—<sup>1)</sup>, *Small craft — Principal data*

ISO 10240:1995, *Small craft — Owner's manual* [ISO 14946:2001](https://standards.iteh.ai/catalog/standards/sist/128c4daf-bc24-4988-ac3c-12217-1-2-3)

[https://standards.iteh.ai/catalog/standards/sist/128c4daf-bc24-4988-ac3c-](https://standards.iteh.ai/catalog/standards/sist/128c4daf-bc24-4988-ac3c-12217-1-2-3)

ISO 12217-1:—<sup>2)</sup>, *Small craft — Stability and buoyancy assessment and categorization — Part 1: Non-sailing boats of hull length greater than or equal to 6 m*

ISO 12217-2:—<sup>3)</sup>, *Small craft — Stability and buoyancy assessment and categorization — Part 2: Sailing boats of hull length greater than or equal to 6 m*

ISO 12217-3:—<sup>4)</sup>, *Small craft — Stability and buoyancy assessment and categorization — Part 3: Boats of hull length less than 6 m*

## 3 Terms and definitions

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

### 3.1

#### light craft mass

$m_{LCC}$

mass of the craft in light craft condition

See ISO 8666.

1) To be published.

2) To be published.

3) To be published.

4) To be published.

### 3.2

#### seat

any surface, horizontal or nearly horizontal, where a person may sit, with minimum dimensions of 400 mm width by 750 mm length (i.e. depth of the seat plus clear foot space in front of the seat)

NOTE It is recommended that a width of 500 mm be provided.

### 3.3

#### seating area

clear sole space in an open boat or in a cockpit provided that an area measuring 750 mm × 500 mm be available for each person so accommodated

NOTE For dinghies in design category C and D, the deck area beside the cockpit may be used for this purpose.

## 4 Maximum number of persons

The manufacturer's recommended maximum number of persons to be carried when the craft is underway shall not exceed

- a) the number of persons for which the boat has successfully passed the requirements for freeboard, stability and flotation, in accordance with ISO 12217-1, ISO 12217-2 and ISO 12217-3;
- b) the number of persons for which seating space is assigned by the manufacturer with dimensions as defined in 3.2 and 3.3.

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## 5 Maximum load

The term "maximum load" is to be understood as the "manufacturer's recommended maximum load". This shall not exceed the total load that may be added to the light craft mass in accordance with ISO 8666 without exceeding the requirements for stability, freeboard, flotation in accordance with ISO 12217-1, ISO 12217-2 and ISO 12217-3, and seating requirements and shall take into account the boat design category. As a minimum it shall take account of the mass of the following:

- a) the number of persons at 75 kg each according to clause 4. Where children are carried as part of the crew the maximum number of persons may be exceeded provided that each child's mass does not surpass a limit of 37,5 kg and the total persons mass is not exceeded;
- b) basic equipment of  $(L_H - 2,5)^2$ , but not less than 10 kg;
- c) stores and cargo (if any), dry provisions, consumable liquids [not covered by d) or e)], and miscellaneous equipment not included in the light craft mass or in b);
- d) consumable liquids (fresh water, fuel) in portable tanks filled to the maximum capacity;
- e) consumable liquids (fresh water, fuel) in permanently installed tanks filled to the maximum capacity;
- f) a liferaft or dinghy when intended to be carried.

## 6 Owner's manual

**6.1** The manufacturer shall state in the Owner's Manual the maximum recommended number of persons in accordance with clause 4. Where provision has been made to enable children to replace an adult in accordance with 5 a), where necessary, details of any change to the seating arrangements shall be clearly stated. See ISO 10240.

**6.2** The manufacturer shall state in the Owner's Manual the maximum load recommended by him in accordance with clause 5. The descriptions of 5 a) to 5 f) shall be listed with a note stating that the maximum recommended load includes only these items.

## Bibliography

- [1] ISO 6185-1:—<sup>1)</sup>, *Inflatable boats — Part 1: Boats with a maximum motor power rating of 4,5 kW*
- [2] ISO 6185-2:—<sup>2)</sup>, *Inflatable boats — Part 2: Boats with a maximum motor power rating of 4,5 kW to 15 kW inclusive*
- [3] ISO 6185-3:—<sup>3)</sup>, *Inflatable boats — Part 3: Boats with a maximum motor power rating of 15 kW and greater*
- [4] ISO 13590:1997, *Small craft — Personal watercraft — Construction and system installation requirements*
- [5] ISO 14945:—<sup>4)</sup>, *Small craft — Builder's plate*

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