



# SLOVENSKI STANDARD

## oSIST prEN ISO 9519:2023

01-marec-2023

Nadomešča:  
SIST EN 29519:2000

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**Ladje in pomorska tehnologija - Enojne prečke in prečke pri lestvah za pse  
(ISO/DIS 9519:2023)**

Ships and marine technology - Single rungs and rungs for dog-step ladders (ISO/DIS 9519:2023)

Schiffe und Meerestechnik - Einzelsprossen und Sprossen für Steigleitern (ISO/DIS 9519:2023)

Navires et technologie maritime - Échelons simples et échelons pour marchepieds (ISO/DIS 9519:2023)

**Ta slovenski standard je istoveten z: prEN ISO 9519**

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**ICS:**

47.020.50 Palubna oprema ter naprave Deck equipment and installations

**oSIST prEN ISO 9519:2023**

**en,fr,de**



# DRAFT INTERNATIONAL STANDARD ISO/DIS 9519

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## Ships and marine technology — Single rungs and rungs for dog-step ladders

ICS: 47.020.50

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## ISO/DIS 9519:2022(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)).

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

This document was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 8, *Ship Design*.

This second edition cancels and replaces the first edition (ISO 9519:1990), which has been technically revised.

The main changes are as follows:

- title is changed to “Ships and marine technology – Single rungs and rungs for dog-step ladders”
- extend the types and the scope of application
- extend the dimensions of rungs
- Specify the steel grade of material
- Specify the requirements of surface treatment, appearance and tolerance
- The inspection requirements is added

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](http://www.iso.org/members.html).

# Ships and marine technology — Single rungs and rungs for dog-step ladders

## 1 Scope

This document specifies the types, structure, dimensions, technical requirements, inspection and designation of single rungs and rungs for dog-step ladders, fitted to the vertical panel or masts of ships or other marine structures.

## 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 630-2, *Structural steels — Part 2: Technical delivery conditions for structural steels for general purposes*

ISO 1461, *Hot dip galvanized coatings on fabricated iron and steel articles — Specifications and test methods*

## 3 Terms and definitions

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

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

#### **dog-step ladder**

ladder formed by two or more rungs

## 4 Classification

### 4.1 Types

Rungs are classified into the following three types according to purpose and structure:

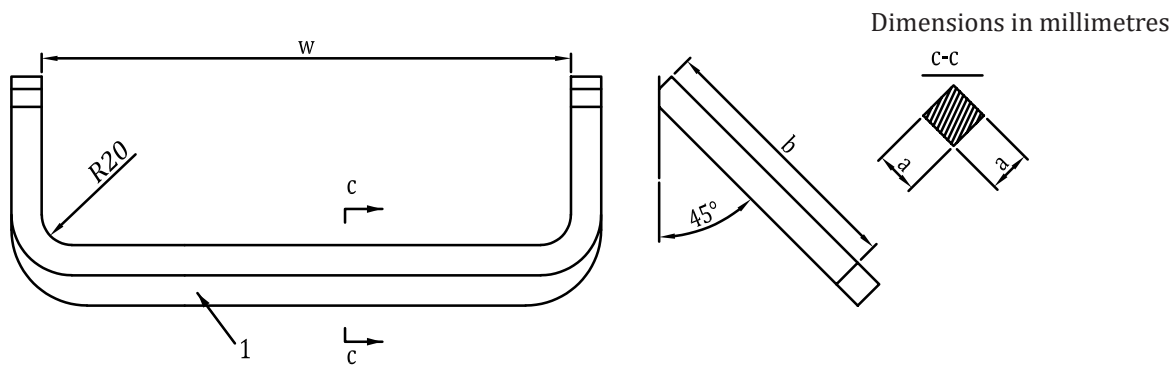
- a) Type A/B: for vertical panel or masts with a diameter of more than 300 mm;
- b) Type C: for masts with a diameter of no more than 300 mm.

### 4.2 Structure and dimensions

#### 4.2.1 Structure

Structure of rungs is shown in [Figure 1](#), [Figure 2](#) and [Figure 3](#).

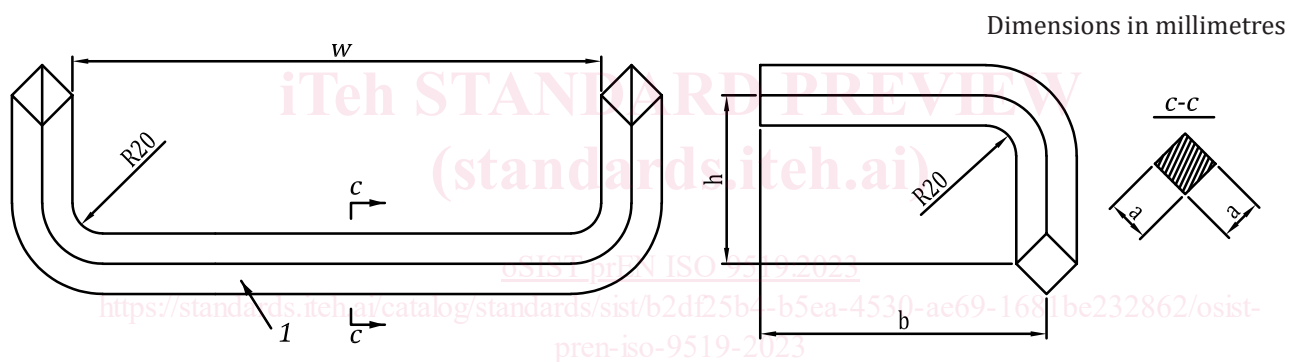
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**Key**

- 1 rung
- a* side length of section of square bar
- b* depth of rung
- w* width of rung

**Figure 1 — Example of structure of type A**

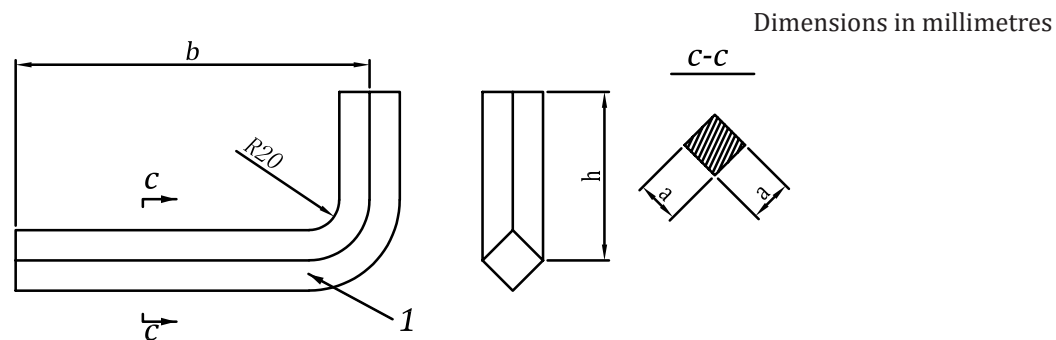


**Key**

- 1 rung
- a* side length of section of square bar
- b* depth of rung
- w* width of rung
- h* height of rung

**Figure 2 — Example of structure of type B**





**Key**

- 1 rung
- a side length of section of square bar
- b depth of rung
- h height of rung

**Figure 3 — Example of structure of type C**

**4.2.2 Dimensions**

Dimensions of rungs are shown in [Table 1](#).

**Table 1 — Dimensions of rungs<sup>[1]</sup>**

Dimensions in millimetres

Type	Dimension			Theoretical weight	
	Width, <i>w</i>	Depth, <i>b</i>	Height, <i>h</i>	Length, <i>a</i> = 20 kg	Length, <i>a</i> = 22
A	300	210	—	2,4	2,9
		252		2,7	3,2
		280		2,8	3,4
	350	210		2,5	3,1
		252		2,8	3,4
		280		2,9	3,6
	400	210		2,7	3,3
		252		3,0	3,6
		280		3,1	3,8
B	300	150	50	2,2	2,7
		180		2,4	2,9
		200		2,5	3,1
	350	150		2,4	2,9
		180		2,6	3,1
		200		2,7	3,3
	400	150		2,5	3,0
		180		2,7	3,2
		200		2,8	3,4

**Table 1** (continued)

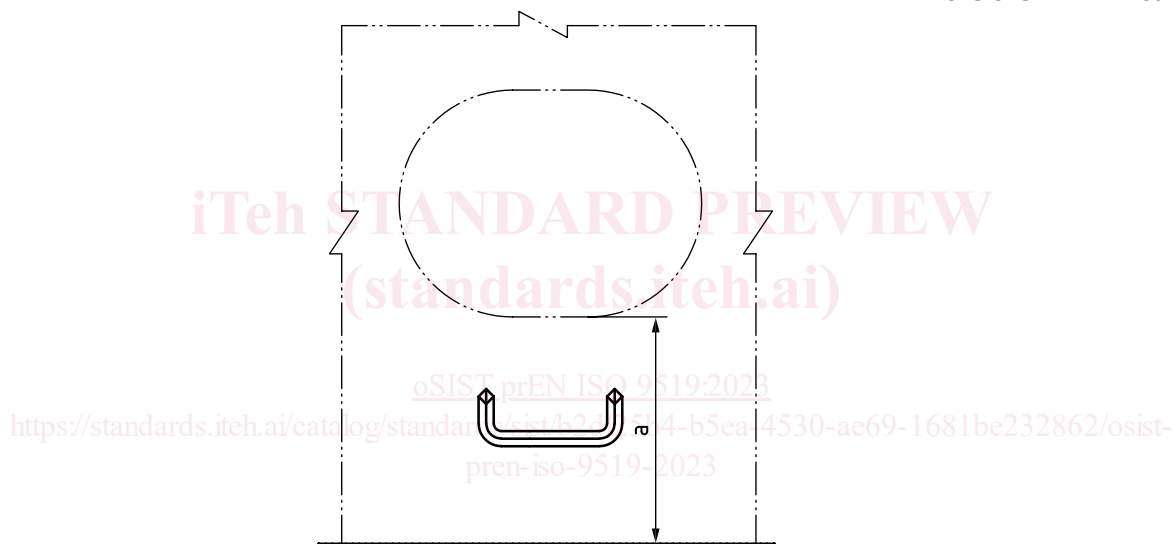
Type	Dimension			Theoretical weight	
	Width, $w$	Depth, $b$	Height, $h$	kg	
				Length, $a = 20$	Length, $a = 22$
C	—	150	65	0,7	0,9
		180		0,8	1,0
		200		0,9	1,1

## 5 Usage diagram

### 5.1 Usage diagram of single rung

Usage diagram of single rung is shown in [Figure 4](#).

Dimensions in millimetres



<sup>a</sup> Single rung shall be fitted when the distance is more than 600 mm.

**Figure 4** — Example of diagram of single rung

### 5.2 Configuration of single rung

#### 5.2.1 Type A

Dog-step ladder formed by type A rung is shown in [Figure 5](#).