



SLOVENSKI STANDARD
SIST EN 29519:2000

01-december-2000

Shipbuilding and marine structures - Rungs for dog-step ladders (ISO 9519:1990)

Shipbuilding and marine structures - Rungs for dog-step ladders (ISO 9519:1990)

Schiffbau und Meerestechnik - Wand- und Mastsprossen (ISO 9519:1990)

Construction navale et structures maritimes - Echelons pour marchepieds (ISO 9519:1990)

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Ta slovenski standard je istoveten z: EN 29519:1993

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ICS:

47.020.10	Ladijski trupi in njihovi konstrukcijski elementi	Hulls and their structure elements
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en

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EUROPEAN STANDARD

EN 29519:1993

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 1993

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Descriptors: Shipbuilding, ladders, steps (stairs), specifications, dimensions, designation

English version

Shipbuilding and marine structures - Rungs for dog-step ladders (ISO 9519:1990)

Construction navale et structures maritimes -
Echelons pour marchepieds (ISO 9519:1990)

Schiffbau und Meerestechnik - Wand- und
Mastsprossen (ISO 9519:1990)

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This European Standard was approved by CEN on 1993-06-21. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

In 1992, the International Standard ISO 9519:1990 "Shipbuilding and marine structures - Rungs for dog-step ladders" was submitted to the CEN Primary Questionnaire procedure.

Following the positive result of the CEN/CS Proposal, ISO 9519:1990 was submitted to the Formal Vote.

The result of the Formal Vote was positive.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 1993, and conflicting national standards shall be withdrawn at the latest by December 1993.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

Endorsement notice

The text of the International Standard ISO 9519:1990 was approved by CEN as a European Standard without any modification.

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INTERNATIONAL STANDARD

**ISO
9519**

First edition
1990-11-01

Shipbuilding and marine structures — Rungs for dog-step ladders

iTeh STANDARD PREVIEW
*Construction navale et structures maritimes — Échelons pour
marchepieds*
(standards.iteh.ai)

[SIST EN 29519:2000](#)

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fdabccc1b1da/sist-en-29519-2000](https://standards.iteh.ai/catalog/standards/sist/e686c638-bdc8-4223-8121-fdabccc1b1da/sist-en-29519-2000)



Reference number
ISO 9519:1990(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.

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.

International Standard ISO 9519 was prepared by Technical Committee ISO/TC 8, *Shipbuilding and marine structures*.

This first edition cancels and replaces the first edition of ISO 5487:1981: basically a technical revision of this, it retains the main dimensions of rungs for superstructures (which accord with the ILO Minimum requirements for hold ladders) but extends it, notably in the code letters, more precise material requirements (clause 4), surface finish (5.2) and tolerances (6.3).

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Shipbuilding and marine structures — Rungs for dog-step ladders

1 Scope

This International Standard specifies the types, dimensions, material, manufacture and designation of rungs for dog-step ladders; it also lays down the installation and composition of single rungs forming a dog-step ladder.

Dog-step ladders, formed from single rungs, may only be used where fixed vertical ladders with stringers¹⁾ cannot be installed. Dog-step ladders fitted to the ship's structure should serve only to bridge minor differences in height.

Dog-step ladders as specified in this International Standard may also be fitted to marine structures other than ships to serve equivalent purposes.

NOTE 1 Users of this International Standard should note that they should ensure compliance with such statutory requirements, rules and regulations as may be applicable to the individual ship or marine structure concerned.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 630:1980, *Structural steels*.

ISO 1035-2:1980, *Hot-rolled steel bars — Part 2: Dimensions of square bars*.

ISO 2768-1:1989, *General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications*.

3 Types

Rungs for dog-step ladders are divided into the following two types:

Type A for ship's structure;

Type B for ship's masts.

4 Material

4.1 Semi-finished product

The rungs shall be formed from steel square bars meeting the specification of ISO 1035-2.

4.2 Steel quality

The bars shall be made of steel meeting the specification of ISO 630, grade Fe 360, as the minimum quality.

NOTE 2 Alternatively, ship quality steel may be used provided that it has equivalent mechanical and welding properties.

5 Manufacture

5.1 Defects

Rungs shall be free from defects likely to cause injury to persons using the dog-step ladder.

5.2 Surface finish

Standard finish of rungs shall be raw and without preservation.

1) For example, as specified in ISO 3797:1976, *Shipbuilding — Vertical steel ladders*.

ISO 9519:1990(E)

By special agreement only, rungs may be sand-blasted and preserved.

6 Dimensions

The dimensions of rungs shall be in accordance with figure 1 and figure 2 as appropriate.

6.1 Dimensions for type A

Type A rungs shall meet the requirements shown in figure 1.

Where type A rungs are to be installed against insulated walls, the leg-length of the rungs shall be lengthened, preferably to 300 mm. At the same time the clearance between the rung and the insulation surface indicated in figure 3 shall be maintained. If such a type of rung is needed, it shall be given as an element of the designation.

6.2 Dimensions for type B

Type B rungs shall meet the requirements shown in figure 2.

6.3 Tolerances

Tolerances for dimensions in figure 1, figure 2 and figure 3 shall correspond to accuracy grade v (very coarse) given in ISO 2768-1.

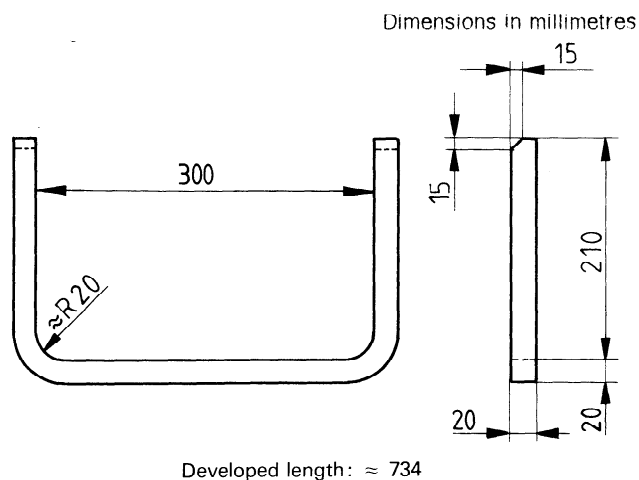


Figure 1 — Rung type A

7 Mass

The mass of a rung shall be as follows:

type A: $\approx 2,2$ kg;

type B: $\approx 0,72$ kg.

8 Installation

8.1 Rungs shall be installed in accordance with figure 3. The bottom rung shall be as near as possible to 300 mm above the lower access level.

8.2 Rungs shall be welded to the ship's structure or to the ship's mast in such a way as to support a load of 1000 N with a safety factor of 1:5.

This can be achieved with one all-round fillet weld of 4 mm minimum at the weld-on ends of the rungs.

9 Designation

For reference and ordering purposes, rungs and ladders formed from rungs according to this International Standard shall be designated as given in 9.1 and 9.2.

9.1 Elements for designation

The following elements shall be indicated, in the order given:

- denomination: rung (for a single rung) or ladder (for composition of rungs);
- number of this International Standard; ISO 9519;

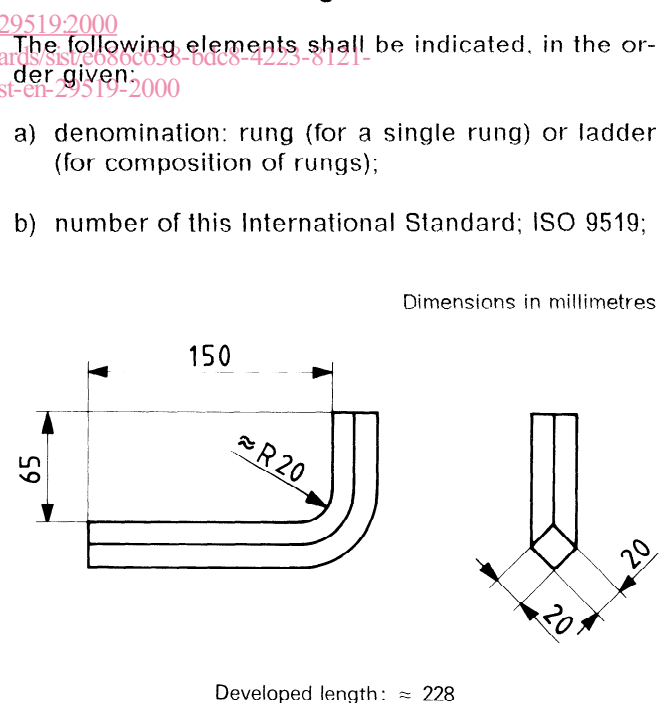


Figure 2 — Rung type B