

# INTERNATIONAL STANDARD

**ISO**  
**9519**

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## **Shipbuilding and marine structures — Rungs for dog-step ladders**

*Construction navale et structures maritimes — Échelons pour  
marchepieds*



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).

# 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 stringers<sup>1)</sup> 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*.