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# International Standard



# 5487

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

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## Shipbuilding — Steel dog-step ladders

*Construction navale — Marchepieds en acier*

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**Descriptors** : shipbuilding, ladders, stair steps, steel products, dimensions, designation, specifications.

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 5487 was developed by Technical Committee ISO/TC 8, *Shipbuilding*, and was circulated to the member bodies in July 1980.

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The member bodies of the following countries expressed disapproval of the document on technical grounds :

Norway  
Sweden

# Shipbuilding — Steel dog-step ladders

## 1 Scope and field of application

1.1 This International Standard specifies the dimensions, material, construction and installation of steel dog-step ladders.

1.2 Dog-step ladders, formed from separate rungs welded to the ship's structure, shall only be fitted where fixed vertical ladders with stringers (for example, ISO 3797) cannot be installed. They should serve only to bridge minor differences in height.

NOTE — Users of this International Standard should note that while observing the requirements of this International Standard they should

at the same time ensure compliance with such statutory requirements, rules and regulations as may be applicable to the individual ship concerned.

## 2 References

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

ISO 3797, *Shipbuilding — Vertical steel ladders.*

## 3 Dimensions of rung

See figure 1.

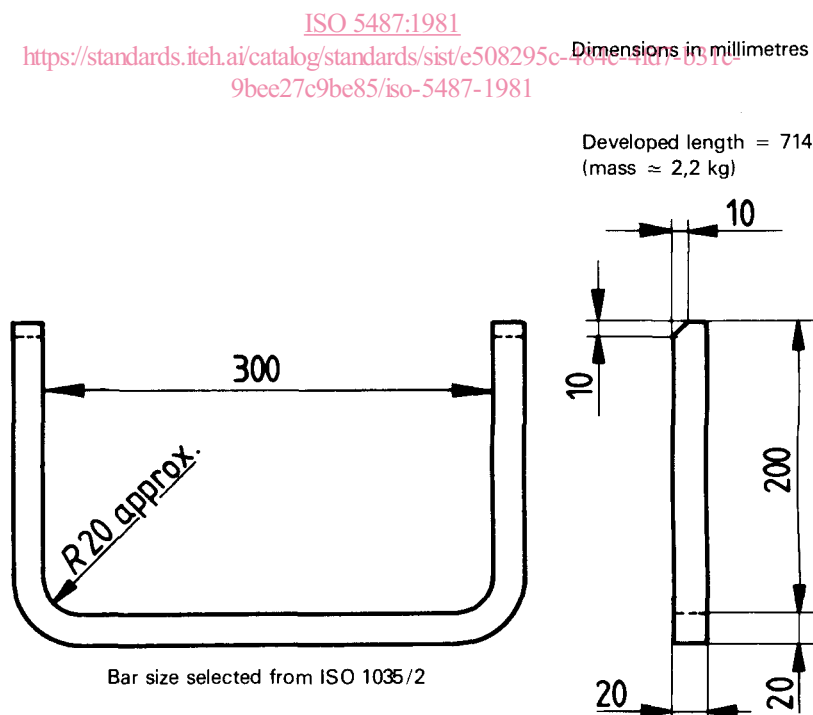


Figure 1 — Dimensions of dog-step rung

**4 Materials**

**4.1** The rung shall be formed from weldable quality steel having a minimum tensile strength of 360 N/mm<sup>2</sup>. (Minimum elongation 25 %.)

**5 Construction**

**5.1** Ladder rungs shall be constructed in accordance with figure 1 and shall be free from defects likely to cause injury to persons using the ladders.

**6 Installation**

**6.1** Rungs shall be installed in accordance with figure 2. The bottom rung shall be as near as possible to 300 mm above the lower access level.

**6.2** Rungs shall be welded to the ship's structure in such a way as to support a load of 1 000 N with a safety factor of 5 : 1. This can be achieved with one all-round fillet weld of 4 mm minimum at both ends.

**7 Designation**

**7.1** Ladders formed from rungs in accordance with this International Standard shall be designated by the number of this International Standard and the number of rungs forming the ladder;

for example, a ladder formed from 4 rungs

**Ladder ISO 5487-4**

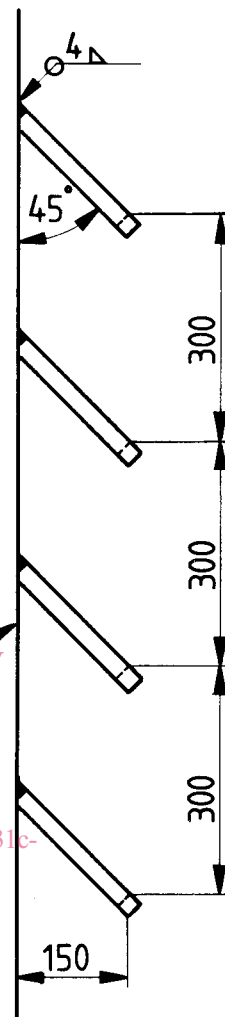
**7.2** An individual rung in accordance with the appropriate requirements of this International Standard shall be designated :

**Rung ISO 5487**

Dimensions in millimetres

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**Figure 2 — Details of installation**