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मानक

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IS 4647 (1998): Inland Vessels - Detachable Steel Ladder
[TED 18: Inland, Harbour Crafts and Fishing Vessels]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक

अन्तःदेशीय जलपोत — वियोज्य इस्पात सीढ़ी —
विशिष्टि

(पहला पुनरीक्षण)

Indian Standard

INLAND VESSELS — DETACHABLE STEEL
LADDER — SPECIFICATION

(*First Revision*)

ICS 47.060; 97.145

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Inland, Harbour Crafts and Fishing Vessels Sectional Committee had been approved by the Transport Engineering Division Council.

Steel ladders of the detachable type are fitted to holds of inland vessels and barges.

This standard was first published in 1968 with a view mainly to maintain uniformity, interchangeability and off the shelf supply to builders of inland vessels. The present revision has been undertaken in the light of experience gained and comments received from the users as well as industry. The requirement for finish of steel ladders has been included in this revision and material requirements have been updated.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

INLAND VESSELS — DETACHABLE STEEL LADDER — SPECIFICATION

(*First Revision*)

1 SCOPE

This standard gives the dimensions and material for the detachable type steel ladders used as an access to holds in inland vessels.

2 REFERENCES

The following Indian Standards are necessary adjuncts to this standard:

<i>IS No.</i>	<i>Title</i>
808 : 1969	Dimensions for hot rolled steel beam, column channel and angle sections (<i>third revision</i>)
816 : 1969	Code of practice for use of metal arc welding for general construction in mild steel (<i>first revision</i>)
1730 : 1989	Steel plates, sheets, strips and flats for structural and general engineering purposes — Dimensions (<i>second revision</i>)
1732 : 1989	Dimensions for round and square steel bars for structural and general engineering purposes (<i>first revision</i>)
2062 : 1992	Steel for general structural purposes (<i>fourth revision</i>)
4759 : 1996	Hot-dip zinc coatings on structural steel other allied products (<i>third revision</i>)

3 MATERIAL

- 3.1** The material used shall conform to IS 2062.
- 3.2** The angles used shall be according to IS 808.
- 3.3** The flat bars used shall be according to IS 1730.
- 3.4** The round or square bars shall be according to IS 1732.

4 DIMENSIONS

- 4.1** The dimensions of the steel ladder shall be as shown in Fig. 1.
- 4.2** The total length of ladder shall depend on the depth of hold from the deck.

4.3 If the spacing of lowest step is less than 100 mm from the floor of the hold, this step may be omitted.

4.4 The dimension X in Fig. 1 may be greater than 135 mm, depending on the location, to give a slight incline to the ladder.

5 TOLERANCE

The tolerance on the spacing of steps and the distance between side bars shall be ± 5 mm.

6 WELDING

Welding shall be according to IS 816.

7 FINISH

Ladders fabricated from mild steel shall be galvanized to protect from the marine weather conditions and shall meet the requirements of IS 4759. The minimum mass of zinc coating shall be as agreed to between the manufacturer/supplier and the purchaser.

8 MARKING

8.1 Detachable steel ladder for inland vessels shall be marked with the following:

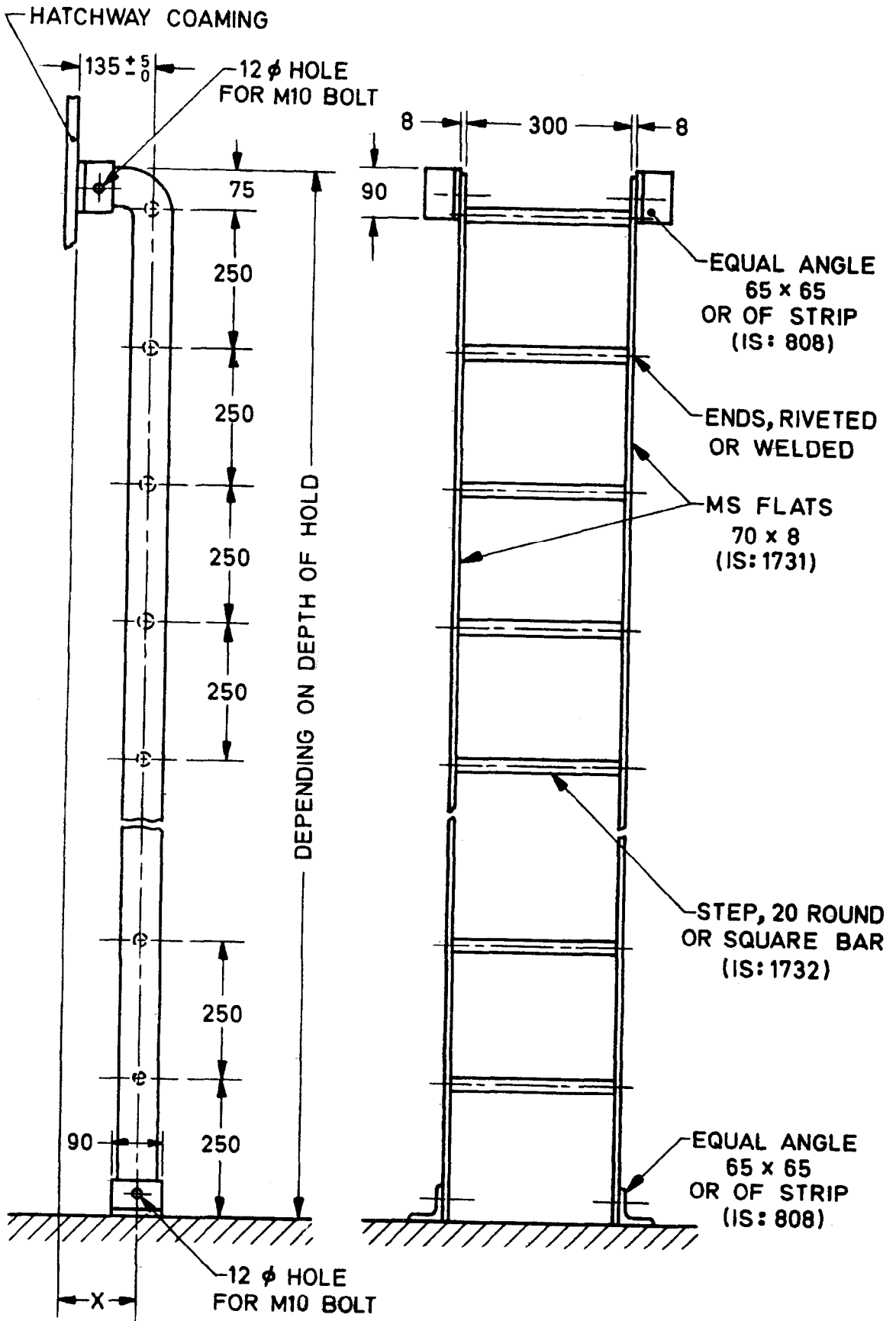
- a) Source of manufacture, and
- b) Identification mark or trade-mark of the manufacturer.

8.2 The marking shall be on the outer face of either one of the flats.

9 BIS CERTIFICATION MARKING

The product may also be marked with the Standard Mark.

9.1 The use of the Standard Mark is governed by the provisions of *Bureau of Indian Standards Act, 1986* and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.



All dimensions in millimetres.

FIG. 1 DIMENSIONS FOR DETACHABLE STEEL LADDER

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This Indian Standard has been developed from Doc : No. TED 18 (146).

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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