

November 2023

For Comments only

भारतीय मानक का प्रारूप
केबिन झरोखा — विशिष्टि
(आई एस 3941 का प्रथम पुनरीक्षण)

Draft Indian Standard
CABIN VENTILATOR — SPECIFICATION
(*First Revision of IS 3941*)

(ICS no 47.020.90)

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**Last date for receipt of
comments is 17 01 2024**

Shipbuilding Sectional Committee TED 17

FOREWORD

This draft Indian Standard (First Revision) will be adopted by the Bureau of Indian Standards after the draft finalized by the Shipbuilding Sectional Committee is approved by the Transport Engineering Division Council.

This standard was first published in 1966. This first revision is being undertaken to update the standard by incorporating technological upgradation and latest shipping practices. The salient features of this first revision are:

- a) The standard has been drafted as per latest drafting guidelines.
- b) Reference of latest Indian Standard have been given.
- c) Requirements of galvanization has been added keeping in view the marine conditions.
- d) Reference to oxy-acetylene process for welding has been deleted.
- e) Clauses related to BIS Certification and Sampling have been added.

Cabin ventilators are used on board ships for natural ventilation to cabins, toilets, etc. They are directly fitted on to the bulkheads. A rain guard is fitted to the cabin ventilators when fitted to the bulkheads having no overhang of the decks.

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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 : 2022 'Rules for rounding off numerical values (*second revision*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1 SCOPE

This standard specifies the requirements of cabin ventilators.

2 REFERENCES

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

<i>IS No.</i>	<i>Title</i>
1730 : 1989	Dimensions for steel plate, sheet and strip for structural and general engineering purposes
2062 : 2011	Hot rolled medium and high tensile structural steel — Specification
2102 (Part 1) : 1993	General Tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications
2500 (Part 1) : 2000	Sampling inspection procedures : Part 1 : Attribute sampling plans indexed by acceptable quality limit (AQL) for lot-by-lot inspection (<i>Third Revision</i>)
2629 : 1985	Recommended practice for hot-dip galvanizing of iron and steel
4759 : 1996	Hot - Dip zinc coatings on structural steel and other allied products — Specification (<i>Third Revision</i>)
6745 : 1972	Methods for determination of mass of zinc coating on zinc coated Iron and steel articles

<i>IS No.</i>	<i>Title</i>
IS/ISO 16163 : 2012	Continuously hot - Dipped coated steel sheet products – Dimensional and shape tolerances (First Revision)

3 TERMS AND DEFINITIONS

For the purpose of this standard the following definitions shall apply:

3.1 Accommodation

Space used as public rooms, cabins, offices, hospitals, cinemas, games and hobby rooms, hairdressing saloons and pantries without cooking appliances.

3.2 Ventilation

Provision of air to an enclosed space, sufficient for the needs of the occupants or the process

4 MATERIAL

4.1 The material of the main body of the cabin ventilator and steel flange shall conform to IS 2062.

4.2. The rainguard shall be made out of steel plate conforming to IS 2062.

5 DIMENSIONS

5.1 The shape and dimensions of the cabin ventilator shall be as shown in Fig. 1.

5.2 The thickness of rainguard shall be 1.6 mm *Min.*

6 TOLERANCES

6.1 The tolerances on all dimensions shall be according to the coarse series of IS 2102 (Part 1).

6.2 The tolerances on plates shall conform to those given in IS 1730 or IS/ ISO 16163.

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7 GALVANIZING

7.1 All parts shall be galvanized in accordance with IS 4759.

7.2 The mass of coating on all the parts shall be 610 g/ m^2 *Min.* and shall be checked in accordance with IS 6745.

8 BIS CERTIFICATION MARKING

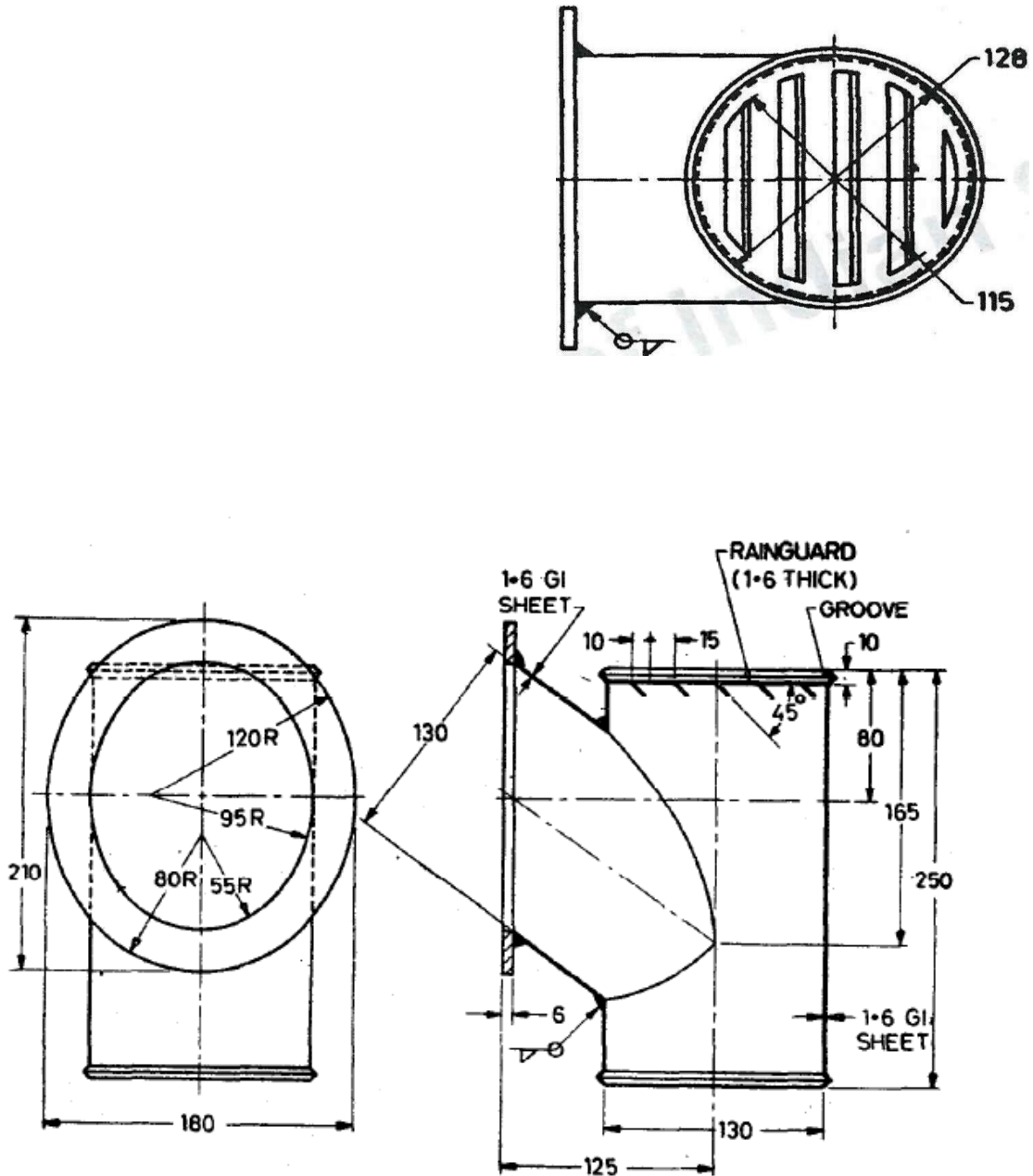
The cabin ventilator may also be marked with the Standard Mark.

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act, 2016* and the Rules and Regulations framed thereunder, and the products may be marked with the Standard Mark.

9 SAMPLING

Unless otherwise agreed upon between a supplier and purchaser, the inspection sampling shall be as per IS 2500 (Part 1).

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All dimensions in millimetres.

Fig. 1 DIMENSIONS FOR CABIN VENTILATORS