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IS 927 (1981): Specification For Fire Hooks [CED 22: Fire Fighting]



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IS : 927 - 1981

Indian Standard
SPECIFICATION FOR FIRE HOOKS
(*Second Revision*)

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SPECIFICATION FOR FIRE HOOKS

(*Second Revision*)

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Indian Standard

SPECIFICATION FOR FIRE HOOKS

(*Second Revision*)

0. FOREWORD

0.1 This Indian Standard (Second Revision) was adopted by the Indian Standards Institution on 30 November 1981, after the draft finalized by the Fire Fighting Sectional Committee, had been approved by the Civil Engineering Division Council.

0.2 The function of a fire hook is to pierce ceiling to allow the water on the upper floor to drain away, to pull down thatched roofs or roofs made out of matting, pulling out bales and bags of various commodities from a distance, opening and closing down of doors and various similar jobs. This standard was first published in 1958 and revised in 1964. This revision incorporates the modifications in the design of the hook besides updating its other provisions.

0.3 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, shall be rounded off in accordance with IS : 2-1960*. 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

1.1 This standard lays down the requirements regarding materials, shape and dimensions, workmanship, finish and performance for fire hooks.

2. MATERIALS

2.1 Steel — Steel (forged) to be used for hook head shall be medium carbon steel and it shall conform to IS : 2004-1978† to hardness 350 to 450 HV.

2.2 Handle — It shall be made of bamboo of length not less than 3 m.

*Rules for rounding off numerical values (revised).

†Specification for carbon steel forgings for general engineering purposes (second revision).

3. SHAPE, DIMENSIONS

3.1 The shape and dimensions shall conform to those given in Fig. 1.

4. WORKMANSHIP AND FINISH

4.1 All parts of hook shall have good workmanship. The forging shall be free from seams, burrs, cracks and other surface defects. The edges shall be well shaped and finished as shown in Fig. 1.

4.2 Hook head shall be treated with a suitable anti-corrosive paint (*see* IS : 1404-1970* except the piercing edges which shall be bright finished and lacquered.

5. PERFORMANCE TEST REQUIREMENT

5.1 Hook shall be engaged to a horizontal spar, and a weight of 140 kg shall be applied vertically to the handle. The test shall be repeated ten times. The hook shall not bend and/or dent during the test.

6. MARKING

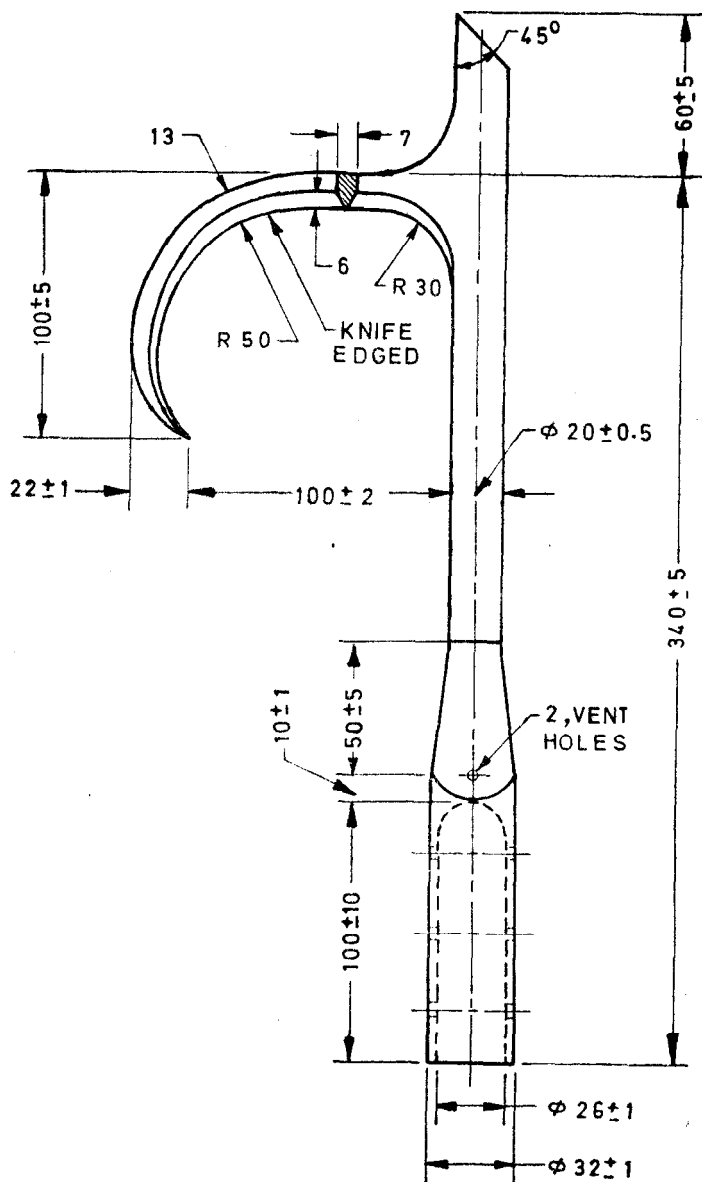
6.1 Each fire hook shall be clearly and permanently marked with the following information:

- a) Manufacturer's name or trade-mark,
- b) Size of handle, and
- c) Year of manufacture.

6.1.1 Fire hook may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act, and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

*Specification for anti-corrosive paint, brushing, for ships bottom and hulls, red chocolate or black, as required (*first revision*).



All dimensions in millimetres.

FIG 1. FIRE HOOK

(*Continued from page 2*)

Members

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AMENDMENT NO. 1 OCTOBER 1984

TO

IS:927-1981 SPECIFICATION FOR FIRE HOOKS

(Second Revision)

Alterations

(Page 4, clause 3.1) - Add the following additional sentence:

"Except where tolerances are especially mentioned, all dimensions should be taken as nominal dimensions and tolerances shall be as given for coarse class in IS:2102(Part 1)-1980 'General tolerances for dimensions and form and position: Part 1 General tolerances for linear and angular dimensions (*second revision*).'

(Page 5, Fig. 1) - Substitute ' 20 ± 0.5 (thickness 7)' for ' $\phi 20 \pm 0.5$ '.

(BDC 22)

**AMENDMENT NO. 2 AUGUST 2007
TO
IS 927 : 1981 SPECIFICATION FOR FIRE HOOKS**

(Second Revision)

(Page 5, Fig. 1) — Add the following note below the figure:

NOTE — Dimension of handle shall be $20 \text{ mm} \times 10 \text{ mm} \pm 0.5 \text{ mm}$.

(CED 22)