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IS 9236 (1993): Metal letter-rests- [CED 35: Furniture]



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“Knowledge is such a treasure which cannot be stolen”

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भारतीय मानक
धातु का पत्र रखने वाला — विशिष्ट
(पहला पुनरीक्षण)

Indian Standard
METAL LETTER-RESTS — SPECIFICATION
(*First Revision*)

UDC 684.464.044

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

FOREWORD

This standard was adopted by the Bureau of Indian Standards after the draft finalized by the Furniture Sectional Committee had been approved by the Civil Engineering Division Council.

Metal letter-rests are commonly used by typists, stenographers and reporters in commercial and government offices. In order to prevent damage of papers, letters and similar stationery material, frequently required for typing, the use of letter-rests not only helps in protection of office stationery but brings out economy and efficiency in procedure.

This standard was first published in 1979. In the revision of this standard the following changes have been effected:

- 1) Referred Indian Standards have been updated.
- 2) No. of trays required has been left as an option between the purchaser and the supplier.
- 3) The minimum spacing between the trays has been fixed.

The committee responsible for the preparation of this standard is given at Annex B.

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

METAL LETTER-RESTS — SPECIFICATION

(*First Revision*)

1 SCOPE

1.1 This standard lays down the requirements for materials, sizes, construction and finish of metal letter-rests.

2 REFERENCES

2.1 The Indian Standards listed in Annex A are necessary adjuncts to this standard.

3 MATERIALS

3.1 Aluminium Sheets

Aluminium sheets shall conform to IS Designation 31000, 31500, 40800 or 52000 in H2 conditions of IS 737 : 1986.

3.2 Electrodes and Filler Rods

The welding electrodes and filler rods for gas, arc and spot welding shall conform to IS 1278 : 1972, IS 814 : 1991 and IS 4972 : 1968 respectively.

3.3 Mild Steel Sheets

Mild steel sheets shall conform to Grade 0 of IS 1079 : 1988 or Grade 0 of IS 513 : 1986.

4 DIMENSIONS AND TOLERANCES

4.1 Dimensions

The overall dimensions of letter-rests shall be as follows:

- a) Length 380 mm
- b) Width 255 mm

4.2 Tolerances

The overall dimensions specified in 4.1 shall not vary by more than ± 5 mm.

4.3 The spacing between the trays shall be 65 mm minimum and the number of trays shall

be as agreed between the purchaser and the supplier.

5 FABRICATION

5.1 The letter-rests shall be made from steel sheets not less than 0.8 mm thick and aluminium sheet not less than 1 mm thick and without any burrs, dents and sharp edges. The top edges of the bottom tray shall be bent over and pressed into a knife edge as shown in Fig. 1. An illustrative sketch of metal letter-rests is shown in Fig. 2.

5.2 The top trays shall be slanting as shown in Fig. 2.

6 ASSEMBLY

6.1 The various components shall be assembled by means of welding or by bending the components to fix in one another or by riveting.

6.2 The method of gas, arc and spot welding shall conform to IS 1323 : 1982, IS 816 : 1969 and IS 819 : 1957 respectively.

6.3 Welding of aluminium parts shall be in accordance with IS 2812 : 1964.

7 FINISH

7.1 All dents, burrs and sharp edges shall be removed from the various components. The components shall be individually pickled, scrubbed and rinsed to remove grease, rust, scale or any other foreign element.

7.2 Immediately after pickling all mild steel components shall be given phosphating treatment conforming to class C of IS 3618 : 1966. The process for application of phosphate coating shall be in accordance with IS 6005 : 1970.

NOTE — Putty shall be applied to all the surfaces requiring filling and shall conform to IS 110 : 1983. Aluminium primer shall conform to IS 5660 : 1970.

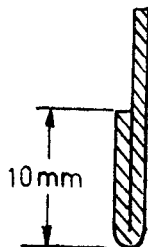


FIG. 1 ENLARGED DETAIL OF KNIFE EDGE

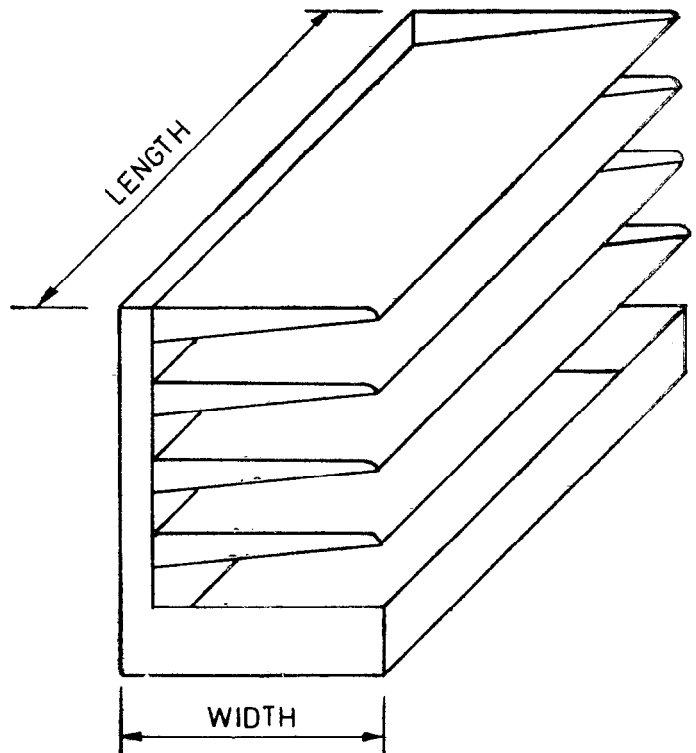


FIG. 2 ILLUSTRATIVE SKETCH OF METAL LETTER-RESTS

7.3 Coat/coats of enamel paints shall then be applied as follows:

- a) Finish coat with enamels conforming to IS 151 : 1985, IS 2932 : 1974 or IS 2933 : 1975; and
- b) In case of stoving enamel the components shall thereafter be baked at a specified temperature in an oven heated uniformly. The finish shall be smooth and uniform with a hard and tough film of enamel strongly adhering to the surface. The finish shall be free from all visible defects and shall not chip when tapped lightly with a dull pointed instrument.

7.4 Powder coating as specified in IS 13871 : 1993 may be done on mild steel components, if required by the purchaser.

7.5 Aluminium components may be anodized if required by the purchaser. The anodic coating shall not be less than Grade AC 10 of IS 1868 : 1982.

8 TESTS

8.1 The tests given in 8.1.1 to 8.1.4 shall be carried out on the test pieces to check performance requirements of finish.

8.1.1 Hardness Test

Tests to be carried as per 5 of IS 101 (Part 5/ Sec 1) : 1988.

8.1.2 Flexibility and Adhesion Test

Tests to be carried out as per 2 of IS 101 (Part 5/Sec 2) : 1988.

8.1.3 Impact Resistance Test

Tests to be carried out as per IS 101 (Part 5/ Sec 3) : 1988.

8.1.4 Resistance to Humidity under Continuous Condensation

Tests to be carried out as per 2 of IS 101 (Part 6/Sec 1) : 1988.

9 INFORMATION TO BE SUPPLIED BY THE PURCHASER

9.1 The purchaser shall supply the following information to the supplier along with the order:

- a) Colour of finish;
- b) Where alternative methods of construction and finish are specified, they shall be clearly stated in the order; and
- c) Number of trays.

10 MARKING

10.1 All metal letter-rests shall be marked with a suitable mark identifying the manufacturer.

10.1.1 The metal letter-rests may also be marked with the Standard Mark.

ANNEX A

(Clause 2.1)

LIST OF REFERRED INDIAN STANDARDS

<i>IS No.</i>	<i>Title</i>	<i>IS No.</i>	<i>Title</i>
101 (Part 5/Sec 1) : 1988	Methods of sampling and test for paints, varnishes and related products: Part 5 Mechanical test on paint, Section 1 Hardness tests (<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>)
101 (Part 5/Sec 2) : 1988	Methods of sampling and test for paints, varnishes and related products: Part 5 Mechanical test on paint, Section 2 Flexibility and adhesion test (<i>third revision</i>)	819 : 1957	Code of practice by resistance spot welding for light assemblies in mild steel
101 (Part 5/Sec 3) : 1988	Methods of sampling and test for paints, varnishes and related products: Part 5 Mechanical test on paint, Section 3 Impact resistance (falling ball test) (<i>third revision</i>)	1079 : 1988	Hot rolled carbon steel sheet and strip (<i>fourth revision</i>)
101 (Part 6/Sec 1) : 1988	Methods of sampling and test for paints, varnishes and related products: Part 6 Durability test, Section 1 Resistance to humidity under conditions of condensation	1278 : 1972	Filler rods and wires for gas welding (<i>second revision</i>)
110 : 1983	Ready mixed paint, brushing, grey filler, for enamels for use over primers (<i>first revision</i>)	1323 : 1982	Code of practice for oxyacetylene welding for structural work in mild steels (<i>second revision</i>)
151 : 1985	Ready mixed paint, spraying, finishing, stoving, enamel, for general purposes, colour as required (<i>first revision</i>)	1868 : 1982	Anodic coatings on aluminium and its alloys (<i>second revision</i>)
513 : 1986	Cold-rolled low carbon steel sheets and strips (<i>third revision</i>)	2812 : 1964	Recommendations for manual tungsten inert gas arc welding of aluminium alloys
737 : 1986	Wrought aluminium and aluminium alloy plate for general engineering purposes (<i>third revision</i>)	2932 : 1974	Enamel, synthetic, exterior (a) undercoating, (b) finishing (<i>first revision</i>)
814 : 1991	Covered electrodes for metal arc welding of carbon and carbon manganese steel	2933 : 1975	Enamel exterior (a) undercoating, (b) finishing (<i>first revision</i>)
		3618 : 1966	Phosphate treatment of iron and steel for protection against corrosion
		4972 : 1968	Resistance spot welding electrodes
		5660 : 1970	Ready mixed paint, brushing, aluminium-red oxide primer (Amendment No. 1)
		6005 : 1970	Code of practice for phosphating of iron and steel
		13871 : 1993	Powder coating — Specification

ANNEX B

(Foreword)

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