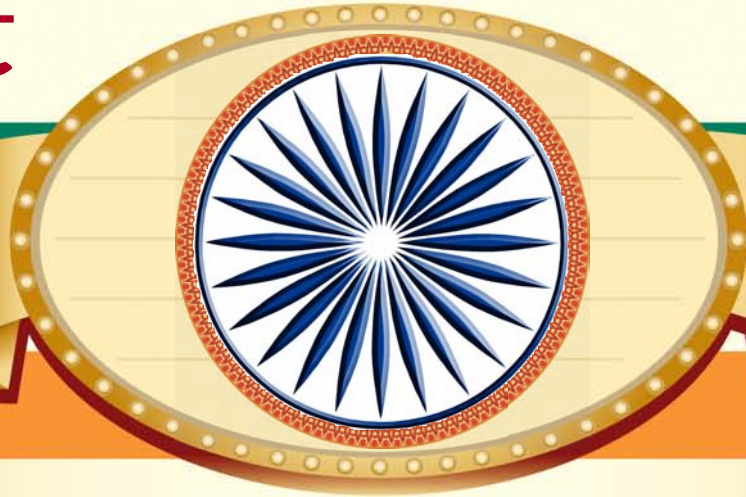


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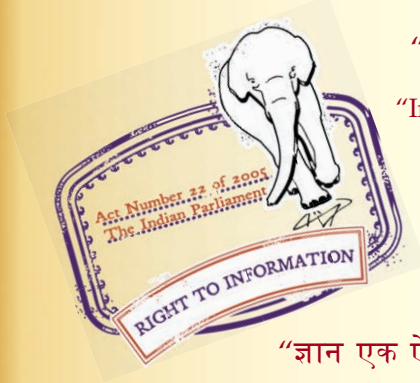
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“पुराने को छोड़ नये के तरफ”

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IS 3762 (1979): metal waste paper bins - Specification [CED  
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“Knowledge is such a treasure which cannot be stolen”





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IS : 3762 - 1979

*Indian Standard*  
SPECIFICATION FOR  
METAL WASTE PAPER BINS  
( *First Revision* )

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# *Indian Standard*

## SPECIFICATION FOR METAL WASTE PAPER BINS

### ( *First Revision* )

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# *Indian Standard*

## SPECIFICATION FOR METAL WASTE PAPER BINS ( *First Revision* )

### 0. FOREWORD

**0.1** This Indian Standard ( First Revision ) was adopted by the Indian Standards Institution on 11 July 1979, after the draft finalized by the Furniture Sectional Committee had been approved by the Civil Engineering Division Council.

**0.2** This standard was first published in 1966. In this revision provisions for performance requirements of finish have been incorporated.

**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 or analysis, 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 for materials, sizes, construction and finish of metal waste paper bins.

### 2. MATERIALS

**2.1 Aluminium Sheets** — Aluminium sheets shall conform to Designation 31 000, 31 500, 40 800 or 52 000 in H2 condition of IS : 737-1974†.

**2.2 Electrodes and Filler Rods** — The welding electrodes for gas, arc and spot welding shall conform to IS : 1278-1972‡, IS : 814 ( Part II )-1974§ and IS : 4972-1968|| respectively.

\*Rules for rounding off numerical values ( *revised* ).

†Specification for wrought aluminium and aluminium alloys, sheet and strip ( for general engineering purposes ) ( *second revision* ).

‡Specification for filler rods and wires for gas welding ( *second revision* ).

§Specification for covered electrodes for metal arc welding of structural steel : Part II For welding sheets ( *fourth revision* ).

||Specification for resistance spot-welding electrodes.

**IS : 3762 - 1979**

**2.3 Mild Steel Sheets** — Mild steel sheets shall conform to IS : 513-1973 \*or IS : 1079-1973†.

### **3. DIMENSIONS AND TOLERANCE**

**3.1** The overall dimensions of waste paper bins shall be as given below:

a) Height	300 mm
b) Top ( square ), <i>Min</i>	250 mm
c) Bottom ( square ), <i>Min</i>	200 mm

**3.2 Tolerance** — The overall dimensions specified in **3.1** shall not vary by more than  $\pm 5$  mm.

### **4. FABRICATION**

**4.1** The waste paper bins shall be made from a steel sheet not less than 0.8 mm thick and aluminium sheet not less than 1 mm thick and without any dents, burrs or sharp edges. All edges including corners may be slightly rounded to minimize accidental injury to the users.

### **5. ASSEMBLY**

**5.1** The sides and bottom shall be assembled by means of welding, or bending the components to fit one another or joined by riveting.

**5.2** The method of gas, arc and spot welding shall conform to IS : 1323-1966‡, IS : 816-1969§ and IS : 819-1957|| respectively.

**5.3** Welding of aluminium parts shall be in accordance with IS : 2812-1964¶].

### **6. FINISH**

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

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\*Specification for cold rolled carbon steel sheets ( *second revision* ).

†Specification for hot rolled carbon steel sheets and strip ( *third revision* ).

‡Code of practice for oxy-acetylene welding for structural work in mild steel ( *revised* ).

§Code of practice for use of metal arc welding for general construction in mild steel ( *first revision* ).

||Code of practice for resistance spot welding for light assemblies in mild steel.

¶Recommendations for manual tungsten inert-gas arc-welding of aluminium and aluminium alloys.

**6.2** 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 : 426-1961‡. Aluminium primer shall conform to IS : 2931-1964§.

**6.3** Coat/coats of enamel paint shall then be applied as follows:

- a) Finish coat with enamels conforming to IS : 151-1950||, 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.

**6.4** The aluminium components may be anodized if required by the purchaser. The anodic coating shall not be less than Grade AC 10 of IS : 1868-1968††.

## 7. TESTS

**7.1** The tests given in **7.1.1** to **7.1.5** shall be carried out on the test pieces to check performance requirements of finish.

**7.1.1 Scratch Hardness Test** — A sample of mild steel plate 150 × 50mm in size and thickness 0.315 mm finished as in **6** shall be subjected to scratch hardness test in accordance with **15.1** of IS : 101-1964‡‡. A scratch, showing the bare metal, shall not be produced on the test samples.

**7.1.2 Pressure Test** — Samples prepared from mild steel plates of thickness 0.315 mm and finished as in **6** shall be subjected to pressure test in

\*Specification for phosphate treatment of iron and steel for protection against corrosion.

†Code of practice for phosphating of iron and steel.

‡Specification for paste filler for colour coats ( revised ).

§Specification for ready mixed paint, brushing, aluminium zinc oxide composite primer.

||Specification for ready mixed paint, spraying, finishing, stoving, enamel, for general purposes, colour as required.

¶Specification for enamel, synthetic, exterior (a) undercoating, (b) finishing ( first revision ).

\*\*Specification for enamel, exterior (a) undercoating, (b) finishing ( first revision ).

††Specification for anodic coating on aluminium ( first revision ).

‡‡Methods of test for ready mixed paints and enamels ( second revision ).

accordance with **15.2** of IS : 101-1964\*. The metal surface shall not be rendered visible when the test pieces are separated after the test.

**7.1.3 Flexibility and Adhesion Test** — A sample of mild steel plate 150 × 50 mm in size and thickness 0.315 mm finished as in **6** shall be subjected to flexibility and adhesion test in accordance with **16** of IS : 101-1964\*. The paint film on the test piece shall not show damage, detachment or cracking when examined under ×10 magnification.

**7.1.4 Stripping Test** — A sample of mild steel plate 150 × 50 mm in size and thickness 0.315 mm finished as in **6** shall be subjected to stripping test in accordance with **17** of IS : 101-1964\*. The scratch produced after the test shall be free from jagged edges.

**7.1.5 Test for Protection Against Corrosion Under Conditions of Condensation** — A metal plate of size 150 × 100 mm and thickness of 1.25 mm finished as in **6** shall be subjected to test for protection against corrosion under conditions of condensation in accordance with **18** of IS : 101-1964\*. The metal surface shall show no signs of corrosion after the test.

## 8. MARKING

**8.1** All metal waste paper bins shall be marked with a suitable mark identifying the manufacturer.

**8.1.1** The metal waste paper bins 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.

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\*Methods of test for ready mixed paints and enamels ( *second revision* ).

## INTERNATIONAL SYSTEM OF UNITS ( SI UNITS )

### Base Units

QUANTITY	UNIT	SYMBOL
Length	metre	m
Mass	kilogram	kg
Time	second	s
Electric current	ampere	A
Thermodynamic temperature	kelvin	K
Luminous intensity	candela	cd
Amount of substance	mole	mol

### Supplementary Units

QUANTITY	UNIT	SYMBOL
Plane angle	radian	rad
Solid angle	steradian	sr

### Derived Units

QUANTITY	UNIT	SYMBOL	DEFINITION
Force	newton	N	1 N = 1 kg.m/s <sup>2</sup>
Energy	joule	J	1 J = 1 N.m
Power	watt	W	1 W = 1 J/s
Flux	weber	Wb	1 Wb = 1 V.s
Flux density	tesla	T	1 T = 1 Wb/m <sup>2</sup>
Frequency	hertz	Hz	1 Hz = 1 c/s (s <sup>-1</sup> )
Electric conductance	siemens	S	1 S = 1 A/V
Electromotive force	volt	V	1 V = 1 W/A
Pressure, stress	pascal	Pa	1 Pa = 1 N/m <sup>2</sup>

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