

IS : 771 (Part 2) - 1985

Indian Standard

SPECIFICATION FOR
GLAZED FIRE-CLAY SANITARY APPLIANCES

PART 2 SPECIFIC REQUIREMENTS OF KITCHEN
AND LABORATORY SINKS

(*Third Revision*)

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MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Indian Standard

SPECIFICATION FOR GLAZED FIRE-CLAY SANITARY APPLIANCES

PART 2 SPECIFIC REQUIREMENTS OF KITCHEN AND LABORATORY SINKS

(Third Revision)

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(Continued on page 2)

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IS : 771 (Part 2) - 1985

(Continued from page 1)

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(Continued on page 8)

Indian Standard
SPECIFICATION FOR
GLAZED FIRE-CLAY SANITARY APPLIANCES

**PART 2 SPECIFIC REQUIREMENTS OF KITCHEN
AND LABORATORY SINKS**

(Third Revision)

0. FOREWORD

0.1 This Indian Standard (Part 2) (Third Revision) was adopted by the Indian Standards Institution on 31 July 1985, after the draft finalized by the Sanitary Appliances and Water Fittings Sectional Committee had been approved by the Civil Engineering Division Council.

0.2 This standard was first published in 1958 and subsequently revised in 1963 and 1979. The third revision of this standard has been taken up to incorporate further modifications necessary in the light of the comments received. The modifications include additional clauses on thickness of sinks and requirements of rim and base portion of the appliances. The general requirements applicable to all appliances and specific requirements for different types of appliances have been covered in separate parts of the standard. This standard (Part 2) lays down the specific requirements of glazed fire-clay kitchen and laboratory sinks.

0.3 In the formulation of this standard due weightage has been given to international coordination among the standards and practices prevailing in different countries in addition to relating it to the practices in the field in this country.

0.4 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 (Part 2) lays down the pattern and sizes, construction, dimensions and tolerances of kitchen and laboratory sinks made of fire-clay.

*Rules for rounding off numerical values (revised).

2. REQUIREMENTS

2.1 General — The general requirements for material, manufacture, methods of test, and inspection shall conform to IS : 771 (Part 1)-1979*.

2.2 Patterns, Sizes and Holding Capacities — Sinks shall be suitable for kitchen or laboratory (see Fig. 1) and shall be made in the following sizes and holding capacities:

Pattern	Sizes mm	Holding Capacities (Litres), Min	
		Without Overflow	With Overflow
a) Kitchen sinks	750 × 450 × 250	51	42
	600 × 450 × 250	42	36
	600 × 450 × 200	32	26
b) Laboratory sinks	600 × 400 × 200	30	25
	500 × 350 × 150	16.5	14
	450 × 300 × 150	12.5	11
	400 × 250 × 150	9	8

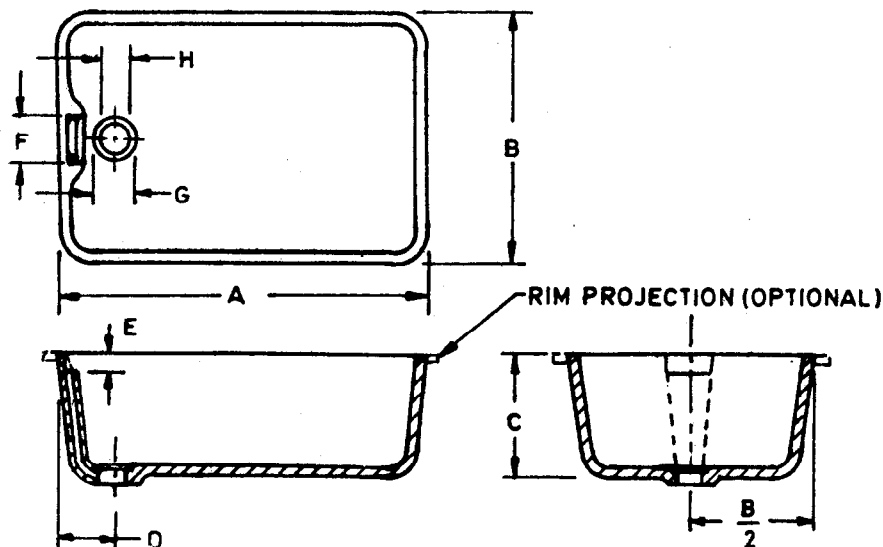


FIG. 1 KITCHEN AND LABORATORY SINKS

*Specification for glazed fire-clay sanitary appliances: Part 1 General requirements (second revision).

2.2.1 The dimensions mentioned in 2.2 shall be applicable to the rim portions of the appliance.

2.2.2 The kitchen and laboratory sinks may be made in other patterns and sizes where so agreed to between the manufacturer and the purchaser. However, tolerances on dimensions shall be as specified in this standard.

2.3 Construction

2.3.1 *Kitchen Sinks* — The kitchen sinks shall be of one piece construction with or without rim and with or without combined overflow. The slot type overflow shall have a minimum area of 1 100 mm² and shall be so designed as to facilitate cleaning of the overflow. The invert of the overflow, where provided, shall be minimum 30 mm below the top edge.

2.3.1.1 The sinks shall have a circular waste hole into which the interior of the sinks shall drain. The waste hole shall be rebated or bevelled internally (see Fig. 2) with an overall diameter of 90 mm and a depth of 10 mm to suit a waste fitting having a flange of 88 mm diameter.

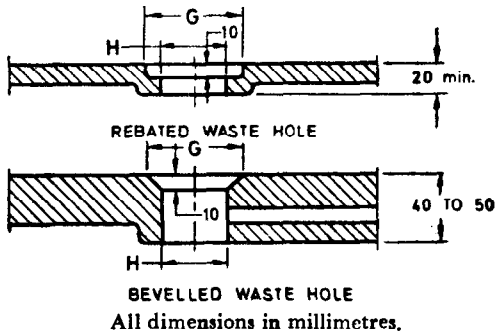


FIG. 2 DETAILS OF WASTE HOLES FOR KITCHEN AND LABORATORY SINKS

2.3.2 *Laboratory Sinks* — The laboratory sinks shall be of one piece construction with or without rim and with or without combined overflow. The invert of the overflow where provided shall be minimum 30 mm below the top edge. The overflow shall be similar to that in kitchen sink (see 2.3.1).

2.3.2.1 The sinks shall have a circular waste hole into which the interior of the sinks shall drain. The waste hole shall be either rebated or bevelled with an overall diameter of 65 mm and a depth of 10 mm to suit a waste fitting having a flange of 64 mm diameter.

2.4 Dimensions and Tolerances

2.4.1 Dimensions — Kitchen sinks and laboratory sinks shall conform to the dimensions given in Table 1 read with Fig. 1.

TABLE 1 DIMENSIONS OF KITCHEN AND LABORATORY SINKS

(Clauses 2.4.1 and Fig. 1)

All dimensions in millimetres.

PATTERN	SIZE	A	B	C	D	E	F	G	H
						Min	Min		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
a) Kitchen sinks	750 × 450 × 250	750	450	250	150	30	75	90 + 3 - 0	65 + 3 - 0
	600 × 450 × 250	600	450	250	150	30	75	90 + 3 - 0	65 + 3 - 0
	600 × 450 × 200	500	400	200	150	30	75	90 + 3 - 0	65 + 3 - 0
b) Laboratory sinks	600 × 400 × 200	600	400	200	90	30	75	65 + 3 - 0	45 + 3 - 0
	500 × 350 × 150	500	350	150	90	30	75	65 + 3 - 0	45 + 3 - 0
	450 × 300 × 150	450	300	150	90	30	75	65 + 3 - 0	45 + 3 - 0
	400 × 250 × 150	400	250	150	90	30	75	65 + 3 - 0	45 + 3 - 0

2.4.2 Tolerances — The following tolerances shall be permissible on the dimensions specified for kitchen and laboratory sinks:

- a) On dimensions of 50 mm and over ± 4 percent; and
- b) On dimensions less than 50 mm ± 2 mm.

2.4.3 Thickness — The minimum thickness of the walls and bottom of the sinks of sizes mentioned in 2.2(a) and 2.2(b) shall not be less than 25 mm and 15 mm, respectively.

2.4.3.1 Wherever integral overflow arrangement is provided, the thickness of the overflow wall shall not be less than 12 mm.

3. MARKING

3.1 Sinks shall be clearly and indelibly marked at a prominent place, visible after the sinks are installed, with the name or trade-mark of the manufacturer.

3.1.1 Each sink conforming to the requirements specified in this standard 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.

4. SAMPLING

4.1 The sampling shall be done in accordance with IS : 9140-1985*.

*Method of sampling of vitreous and fire-clay sanitary appliances (*first revision*).

IS : 771 (Part 2) - 1985

(Continued from page 2)

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AMENDMENT NO. 1 DECEMBER 1995
TO
IS 771 (Part 2) : 1985 SPECIFICATION FOR GLAZED
FIRE-CLAY SANITARY APPLIANCES

PART 2 SPECIFIC REQUIREMENTS OF KITCHEN AND
LABORATORY SINKS

(Third Revision)

(Page 4, clause 2.2):

- i) Substitute 'With Integral Overflow' for 'With Overflow' in the last column.
- ii) Substitute '9.5' for '42, 36, 26' against 'Kitchen sinks' in the last column.

(Page 4, Fig. 1) — Substitute the following for the existing figure:

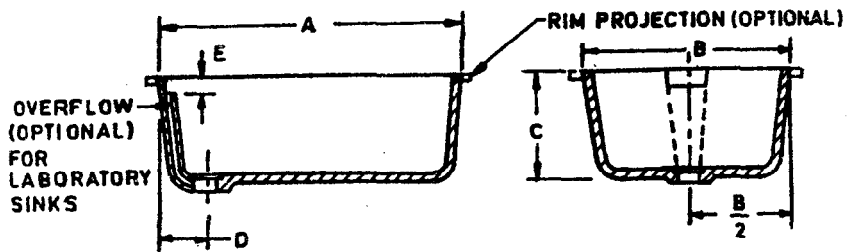


FIG. 1 KITCHEN AND LABORATORY SINKS

(Page 5, clause 2.2.1) — Delete.

(Page 5, clause 2.3.1) — Substitute the following for the existing:

'2.3.1 Kitchen Sinks — The kitchen sinks shall be of one piece construction with or without rim but without overflow.'

(Page 5, clause 2.3.1.1) — Delete.

Amend No. 1 to IS 771 (Part 2) : 1985

(Page 5, Fig. 2) — Delete.

(Page 5, clause 2.3.2) — Delete the last sentence.

(Page 5, clause 2.3.2.1) — Delete.

(Page 5, clause 2.3.2.1) — Add the following matter after 2.3.2.1:

‘2.3.3 Waste Hole — The sink shall have a circular waste hole (see Fig. 2) through which liquid content of the sink shall drain. The base of the sink shall have proper and sufficient slope to drain the liquid content into the waste hole. The waste hole shall be bevelled internally and shall meet the dimensions given in Table 1.

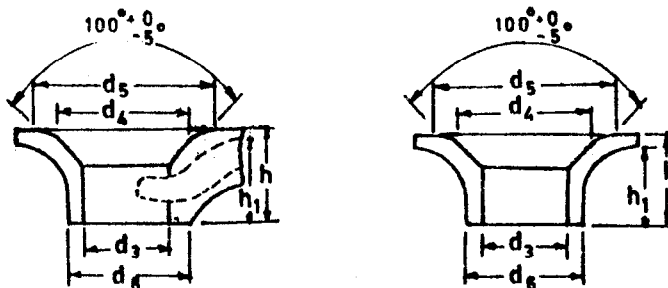


FIG. 2 DETAILS OF WASTE HOLES FOR KITCHEN AND LABORATORY SINKS

TABLE 1 DIMENSIONS OF WASTE HOLE

Sl. No.	PARTICULARS	REF IN FIGURE	DIMENSIONS IN MM
i)	Diameter of outer opening	d ₃	46, +2/-3
ii)	Outside dimensions for seating the outlet cock, with angle 100°, +0°/-5°	d ₄	65±2
iii)	Maximum diameter at the bevelled portion of opening	d ₅	75 Max
iv)	Outside diameter of seating face of the outer opening	d ₆	60 Min
v)	Depth	h	45 Min 50 Max
vi)	Distance between the reference dia and the seating surface for the gasket	h ₁	40 Min 45 Max

2.3.3.1 Sinks shall be provided with waste fittings conforming to the requirements laid down in IS 2963 : 1979*.

2.3.3.2 Where integral overflow is provided, the projection on account of overflow connection to the waste hole of the sink shall be over and above the dimension *C*. Where integral overflow is not provided, the projection at the outlet shall be not less than 15 mm. The dimension *C* shall be measured at the end opposite to waste hole, as shown in Fig. 1.'

(Page 5, foot-note) — Add the following foot-note at the end:

“Copper alloy waste fittings for wash basins and sinks — Specification.”

(Page 6, clause 2.4.1, line 2) — Substitute ‘Table 2’ for ‘Table 1’.

(Page 6, Table 1) — Renumber ‘Table 1’ as ‘Table 2’ and delete columns 7, 8, 9 and 10. Against ‘Kitchen sinks’ for size 600 × 450 × 200, in column 3 substitute ‘600’ for ‘500’ and in column 4 substitute ‘450’ for ‘400’.

AMENDMENT NO. 2 OCTOBER 1996
TO
IS 771 (Part 2) : 1985 SPECIFICATION FOR GLAZED
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PART 2 SPECIFIC REQUIREMENTS OF KITCHEN AND
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(Third Revision)

[Page 4, clause 2.2 under last col sub-heading 'With Overflow' (see also Amendment No. 1) - Substitute dashes '(--)' against all sizes of Kitchen sinks for the existing values.

(CED 3)

Reprography Unit, BIS, New Delhi, India

AMENDMENT NO. 3 DECEMBER 1998
TO
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PART 2 SPECIFIC REQUIREMENTS OF KITCHEN
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(Third Revision)

[Page 4, clause 2.2 (see also Amendments No. 1 and 2)] — Delete Holding Capacities along with their contents.

[Page 6, Table 1 (see also Amendment No. 1)] — Delete SI No. (ii) and (vi) along with their contents.

(Page 2, Fig. 2, Amendment No. 1) — Delete angle

$100^{\circ} + \frac{0}{5}$ in both the figures.

(Page 3, clause 2.3.3.1, Amendment No. 1) — Substitute the following for the existing:

'2.3.3.1 The waste hole shall accommodate a waste fitting, having a flange diameter of 64 mm (see IS 2963 : 1979).'

(CED 3)