

IS : 771 ( Part 3/Sec 2 ) - 1985

*Indian Standard*

SPECIFICATION FOR  
GLAZED FIRE-CLAY SANITARY APPLIANCES

**PART 3 SPECIFIC REQUIREMENTS OF URINALS**

Section 2 Stall Urinals

*( Third Revision )*

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**INDIAN STANDARDS INSTITUTION**  
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG  
NEW DELHI 110002

# Indian Standard

## SPECIFICATION FOR GLAZED FIRE-CLAY SANITARY APPLIANCES

### PART 3 SPECIFIC REQUIREMENTS OF URINALS

#### Section 2 Stall Urinals

#### ( Third Revision )

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# *Indian Standard*

## SPECIFICATION FOR GLAZED FIRE-CLAY SANITARY APPLIANCES

### PART 3 SPECIFIC REQUIREMENTS OF URINALS

#### Section 2 Stall Urinals

#### ( *Third Revision* )

### 0. FOREWORD

**0.1** This Indian Standard ( Part 3/Sec 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. This revision has been taken up to include an additional size of stall urinal also in use. 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 3/Section 2 ) lays down the specific requirements of stall urinals.

**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.

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### 1. SCOPE

**1.1** This standard ( Part 3/Sec 2 ) lays down the sizes, construction, dimensions, tolerances and finish of stall urinals made of fire clay.

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

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**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 Type and Size** — The type and size of stall urinals shall be as given in Table 1 ( *see* Fig. 1 ).

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**TABLE 1 TYPE AND SIZE OF STALL URINALS**

TYPE 1 mm	TYPE 2 mm
1 140 × 460 × 400	1 500 × 520 × 400

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**2.2.1** The stall urinals may be made in other 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** — Stall urinals shall be manufactured either as a single urinal or as a range of two or more urinals as specified by the purchaser. The inside surface of the urinals shall be regular and smooth throughout to ensure efficient flushing. The bottom of urinals shall have sufficient slope from the front towards the outlet such that there is efficient draining of the urine.

**2.4 Dimensions and Tolerances** — The dimensions and tolerances shall be as given in Table 2.

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**TABLE 2 DIMENSIONS AND TOLERANCES OF STALL URINALS**

All dimensions in millimetres.

	A	B	C	D	E	F	G	H	J
Type 1	1 140 ± 45	460 ± 18	400 ± 16	255 ± 10	100 ± 4	25 ± 2	100 ± 4	65 + 3 - 0	90 ± 4
Type 2	1 500 ± 60	500 ± 20	400 ± 16	190 ± 7	90 ± 4	35 ± 2	80 ± 3	65 + 3 - 0	90 ± 4

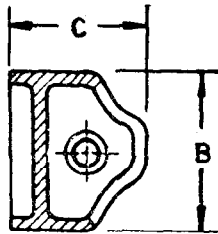
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**3. MARKING**

**3.1** Each stall urinal<sup>s</sup> shall be clearly and indelibly marked at a prominent place with the type, name and trade-mark of the manufacturer.

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



SECTION XX

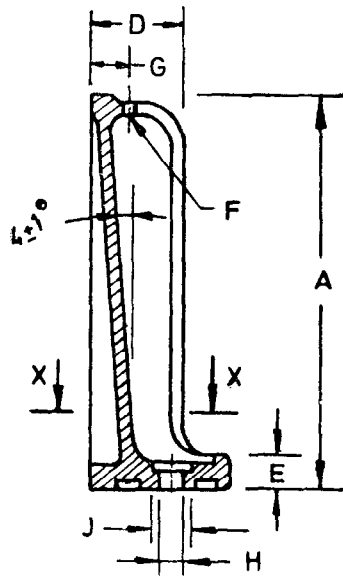


FIG. 1 STALL URINAL

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**3.1.1** Each stall urinal 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** Sampling shall be done in accordance with IS : 9140-1985\*.

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

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# 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	$1 \text{ N} = 1 \text{ kg}\cdot\text{m}/\text{s}^2$
Energy	joule	J	$1 \text{ J} = 1 \text{ N}\cdot\text{m}$
Power	watt	W	$1 \text{ W} = 1 \text{ J}/\text{s}$
Flux	weber	Wb	$1 \text{ Wb} = 1 \text{ V}\cdot\text{s}$
Flux density	tesla	T	$1 \text{ T} = 1 \text{ Wb}/\text{m}^2$
Frequency	hertz	Hz	$1 \text{ Hz} = 1 \text{ c}/\text{s} (\text{s}^{-1})$
Electric conductance	siemens	S	$1 \text{ S} = 1 \text{ A}/\text{V}$
Electromotive force	volt	V	$1 \text{ V} = 1 \text{ W}/\text{A}$
Pressure, stress	pascal	Pa	$1 \text{ Pa} = 1 \text{ N}/\text{m}^2$



# INDIAN STANDARDS INSTITUTION

## Headquarters:

Manak Bhavan, 9 Bahadur Shih Zafar Marg, NEW DELHI 110002

Telephones: 3 31 01 31, 3 31 13 75

Telegrams: Manaksanstha

( Common to all Offices )

## Regional Offices:

Telephone

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## Inspection Office ( With Sale Point ):

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\*Sales Office in Bombay is at Novelty Chambers, Grant Road, Bombay 400007 89 65 23

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