#### भारतीय मानक

# वास्तुकीय ग्रौर इमारती ड्राइंगों की रीति संहिता

( दूसरा पुनरीक्षण )

# Indian Standard CODE OF PRACTICE FOR ARCHITECTURAL AND BUILDING DRAWINGS

(Second Revision)

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

#### Planning, Byelaws and Dimensional Co-ordination Sectional Committee, BDC 10

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#### **FOREWORD**

This Indian Standard (Second Revision) was adopted by the Bureau of Indian Standards on 3 April 1989, after the draft finalized by the Planning, Byelaws and Dimensional Co-ordination Sectional Committee had been approved by the Civil Engineering Division Council.

It has been found desirable to codify the numerous architectural and building drawing office practices followed in the various architectural and civil engineering departments, so that the drawings prepared in any office can be read without fear of misinterpretation. The purpose of this code is to establish certain conventions, in order to avoid confusion, increase speed and achieve quick identification wherever this is reasonably possible.

This standard was originally published in 1967. The present revision has been undertaken with a view to updating the contents of the standard. The revision takes into account international drawing practices. In this present revision recommendations with regard to sizes of drawings, scales, line work, lettering and dimensioning and nomenclature of buildings have been aligned with international practice.

Considerable assistance has been derived in the formulation of this code from the following standards published by the International Organization for Standardization:

ISO 2595: 1973	Building drawings — Dimensioning of production drawings — Representation of manufacturing and work sizes
ISO 4067 (2): 1980	Building and civil engineering drawings — Installations — Part 2 Simplified representation of sanitary appliance
ISO 4067 (6): 1985	Technical drawings — Installations — Part 6 Graphical symbols for supply water and drainage systems in the ground
ISO 4157 (1): 1980	Building drawing — Part 1 Designation of buildings and parts of buildings
ISO 4157 (2): 1982	Technical drawings — Construction drawings — designation of buildings and parts of buildings — Part 2 Designation of rooms and other areas

This standard also covers nomenclature of floors and storeys at present covered in IS 2332: 1972 'Nomenclature of floors and storeys', consequently this standard is withdrawn. The present nomenclature is based on international practice but the earlier provisions of IS 2332: 1972 relating to mezzanine, galleries and basements have been retained.

#### Indian Standard

# CODE OF PRACTICE FOR ARCHITECTURAL AND BUILDING DRAWINGS

### (Second Revision)

#### 1 SCOPE

1.1 This code lays down the recommendation for sizes, layout, reproduction, folding of prints, scales, projection, line work, lettering and dimensioning, graphical symbols, abbreviation, representation of materials in section, numbering of building, designation of rooms and other areas.

#### 2 REFERENCES

2.1 The following Indian Standards are necessary adjuncts to this standard:

IS No.	Title
9609 ( Part 1 ): 1983	Lettering on technical drawings: Part 1 English characters
10711:1983	Sizes of drawing sheets
10713: 1983	Scales for use on technical drawings
10714:1983	General principles of presenta- tion on technical drawings
10720 : 1983	Technical drawings for structural metal works
11665: 1985	Technical drawings — Title block

#### **3 SIZES OF DRAWINGS**

#### 3.1 Selection and Designation of Sizes

The original drawing should be made on the smallest sheet permitting the necessary clarity and resolution.

The choice of sizes of the original drawing and its reproductions shall be made from the series shown in 3.2, 3.3, and 3.4 in that order.

Drawing sheets may be used with their longer sides positioned either horizontally or vertically.

#### 3.2 Sizes Series A (First Choice)

The preferred sizes of the trimmed sheets, as selected from the main A series, are given in Table 1.

#### 3.3 Special Elongated Sizes (Second Choice)

When a sheet of greater length is needed, one of the sizes in Table 2 should be used.

Table 1 Preferred Sizes (Clause 3.2)

Designation (1)	Dimension, mm (2)
A0	841 × 1 189
A1	594 × 841
A2	420 × 594
A3	297 × 420
A4	210 × 297

Table 2 Special Elongated Sizes (Clause 3.3)

Designation	Dimension, mm
(1)	(2)
A3 × 3	420 × · 891
$A3 \times 4$	420 ×1 189
$A4 \times 3$	297 × 63 <b>0</b>
A4 × 4 A4 × 5	297 × 841 297 ×1 051

These sizes are obtained by extending the shorter sides of a formaf of the A series to lengths that are multiples of the shorter side of the chosen basic format.

#### 3.4 Exceptional Elongated Sizes (Third Choice)

When a very large or extra elongated sheet is essential, one of the sizes in Table 3 should be used.

These sizes are obtained by extending the shorter sides of a format of the A series to lengths that are multiples of the shorter side of the chosen basic format.

#### 4 LAYOUT OF DRAWINGS

#### 4.1 General

For details about layout of drawings reference shall be made to IS 10711: 1983.

Table 3 Exceptional Elongated Sizes ( Clause 3.4 )

Designation	Dimension, mm
(1)	(2)
$A0 \times 2$	1 189 × 1 682
$A0 \times 3$	1 189 × 2 523*
$A1 \times 3$	841 × 1 783
$A1 \times 4$	841 × 2 378*
A2 × 3 × 1.	19 mm   2 mm   594 x.1 261
$A2 \times 4$	594 × 1 682
	man 1594 × 2 102
A3 × 5	420 × 1 486
$A3 \times 6$	$420 \times 1783$
A3 × 7 *****	$\begin{array}{c} 420 \times 1.783 \\ 420 \times 2.080 \end{array}$
$A4 \times 6$	297 × 1.261
A4.×.7	
$A4 \times 8$	$297 \times 1682$
A4 × 9	297 × 1 892
For practical real advisable.	sons the use of these sizes is not

#### 1.2 Revision

- 4.2.1 Drawings shall record all alterations or revisions made from time to time. A convenient form is a panel giving the revision number ( or letter ), date, zone or part revised, brief record and dated initials of the approving authority.
- 4.2.2 The panel for revision and any other information ancillary to the revision should be contiguous with the title block and read from bottom unwards and may run horizontally or vertically with respect to the drawing sheet.
- 4.2.3 The method of assigning revision number varies with types of drawings and each organization or architect may adopt suitable internal system, but in all cases, care shall be taken that the record of revision is so tied with the drawing that it is easily found. This is particularly necessary on large sheets.
- 4.2.4 The number and date of revision shall be added in the revision panel.

#### 4.3: Numbering of Drawing Sheet

- 4.3.1 A methodical system of numbering of drawings is essential. The system of numbering drawings shall be a matter of individual departments or firms to decide but, in general, the following rules are recommended:
  - a) A register, book or master file should be used for the systematic allocation of drawing numbers with a card index for ready

- reference. A system of straight consecutive numbering will be found to meet general conditions. In an organization, where several sections are engaged in different types of drawings, it may be convenient to issue batches of numbers to the various sections.
- b) It will be advantageous to indicate the date of the drawing along with the drawing number and separated by a hyphen or a dash. This will limit the serial numbering of drawings to one calendar year, a fresh series being started every year. Location of old drawings in the register and in the filing cabinets will Be easy in the production folding of bridges
- 4.3.2 In case of large construction project works, where several series of drawings, for example, architectural drawings, structural drawings, constructional drawings, plumbing drawings, electrical drawings and mechanical drawings are made; the drawing number of such series shall be prefixed with letters like A.S.O. P. E and M respectively.
- Lead wate with at assensive 4.3.2.1 When a drawing covers several sheets for convenience in handling, as in the case of a longitudinal section of a railway or road project, the same number should be given to all the sheets in the series with the consecutive sheet number given within brackets after the sub-number. For example, a slicet should be designated as R 65-11 (4 of 10) which will indicate that the drawing is the fourth of 10 sheets in sub-number 11 of project R 65. All such sheets should be of the same size. General promiples of prosec
- 4.3.3 A key diagram showing the index of sheets should be given, where necessary, at the bottom of the sheet to indicate at a glance all the drawing sheets contiguous to the sheet under consideration. 11665: 1985

Technical

#### 4.4 Repetition of Drawing Number

diawings -- Th

- 4.4.1 For ready reference the drawing number shall be repeated:
  - a) at the top right-hand corner in vertical filing, it cand hear to bloods griverth languo se
  - b) at the top right-hand corner and the bottom left-hand corner in rolls.
- 4.4.2 Wifen more than one sheet is required for the project, or a part of a complicated building or layout, and a particular drawing is one such sheet. the numbering shall show the total number of sheets in the series and the number of the particular sheet as in the following example:

'SHEET 4' OF 12'

erroule benefities and in conf. turnalistic will This entry shall come next to the repeated drawing? number.

#### 4.5 Additional Information

**4.5.1** For details about additional information reference shall be made to IS 11665: 1985.

#### 5 REPRODUCTION OF DRAWINGS

- 5.1 Original drawings and tracings are normally preserved carefully and copies are used in workshop or on sites. The following types of copies are in common use:
  - a) Dyeline prints are produced by exposing sensitized paper to light in contact with the original translucent drawing. They are developed to produce positive copies by means of ammonia gas or in semi-dry process by a light application of liquid developer. The copy gives black lines in semi-dry process and blue lines with ammonia process on a white or tinted background.
  - b) Ferro-prussiate or blue prints are developed by immersion in water. They have been largely superseded by dyeline prints.
  - c) Projection (photographic) copying on photo-sensitive materials: paper, film, and translucent paper, permits a change of scale, enlargement or reduction. To conserve filing space, for security purposes and safety in storage and transport, originals can be photographically reduced on to film. These reductions can be enlarged to make working copies or they can be inspected at an enlarged scale in a viewer, in which the image is projected on to a ground glass screen.
  - d) Copies which are to be water-coloured should be made on matt or rough paper.
  - e) Reflex copies are made on photo-sensitive materials, or translucent paper and can be produced from opaque originals. The reproductions are made by contact and must therefore be of the same size as the original.
- 5.2 All the above processes, except ferro-prussiate, can provide translucent copies from which further copies can be made. These are very useful for the preparation of drawings showing services (pipe run, etc.) which can be examined on the translucent copy.
- 5.3 The dimensions, thickness and other characteristics of the lines should be kept in view while preparing drawing for miero filming.

#### 6 FOLDING OF PRINTS

6.1 The method of folding prints of drawings for storing in filing cases, attaching to correspondence files, or for binding in special reports is illustrated in Fig. 1 and 1A.

- 6.2 The recommended method of folding embodies the following features:
  - a) The method allows drawings to be unfolded and re-folded when attached to other papers without the necessity for removal from the file and without the possibility of the print being torn. Lower portion of the left-hand margin of the sheet may be cut after retaining 297 mm long top portion in order to provide for filing the drawings in the files.
  - b) All maps and plans are folded to final size for convenience of record in office files.
  - c) There is no necessity to open up a drawing to see what it refers to as the title block, which gives the particulars of the drawings, is visible on the bottom right-hand corner of the folded drawings.
  - d) Plans may be opened out easily by holding firmly the top left-hand corner and pulling the bottom right-hand corner.
  - 6.3 The following procedure shall be adopted in the order indicated:
    - a) Always fold vertically first,
    - b) Fold horizontally next,
    - c) Folded drawing to be of A4 size, and
    - d) Title block to be on the topmost fold for easy reference.

The different stages of folding are indicated in Fig. 1 for some of the sizes.

#### 7 SCALES

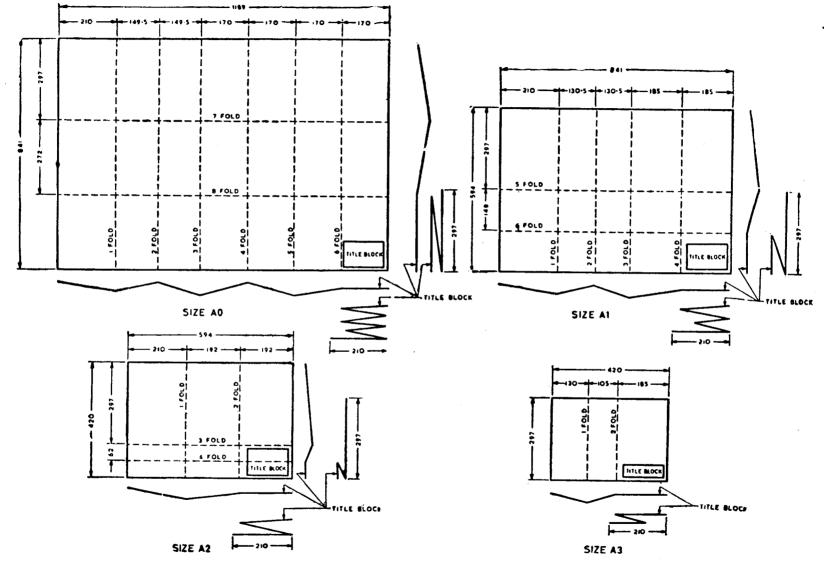
- 7.1 The scales shall be chosen in accordance with IS 10713: 1983.
- 7.2 The recommended scales for use on technical drawings are specified in Table 4.

Table 4 Recommended Scales

Category	Reco	ommended S	cales
Enlargement scales	50:1	20:1	10:1
Full size	5:1	2:1	1:12
Reduction scales	1:2 1:20	1:5 1:50	1:101
	1:200	1:500	1:10 <b>0</b> 1:1000
	1:2000	1:5000	1:10:000

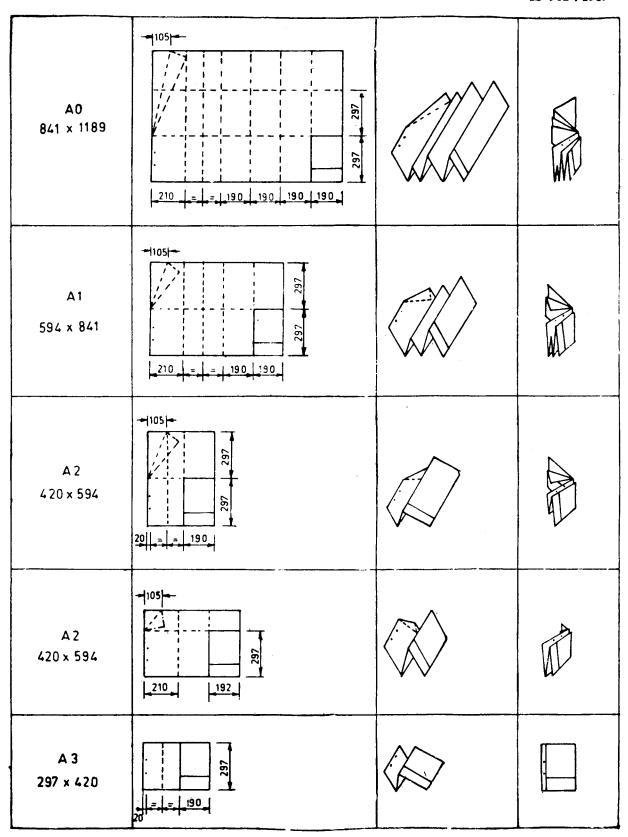
#### 8 PROJECTION

8.0 For details about principle of presentation, reference shall be made to IS 10714: 1983.



All dimensions in millimetres.

Fig. 1 Folding of Prints



All dimensions in millimetres.

FIG. 1A FOLDING OF PRINTS

- 8.1 First angle projection is that in which each view is so placed that it represents the side of the object remote from it in the adjacent view ( see Fig. 2).
- 8.1.1 With reference to the front view, the other views are arranged as follows:
  - a) The view from above placed underneath,
  - b) The view from below placed above,
  - c) The view from left placed on the right,
  - d) The view from right placed on the left, and
  - e) The view from the rear may be placed on the left or on the right as found convenient.
- 8.2 Third angle projection is that in which each view is so placed that it represents the side of the object near to it in the adjacent view ( see Fig. 2 ). This method has the important advantage that the features of adjacent views are in juxtaposition; thus it is easier than the first angle projection in projecting one view from the other when drawing, and also easier in associating those features when dimensioning or reading drawing.
- 8.2.1 With reference to the front view, the other views are arranged as follows:
  - a) The view from above placed above,

- b) The view from below placed underneath,
- c) The view from the left placed on the left,
- d) The view from the right placed on the right,
- e) The view from the rear may be placed on the left or on the right as found convenient.

#### 9 LINE WORK

9.1 All lines shall be dense, clean and black to produce good prints. For details reference shall be made to IS 10714: 1983.

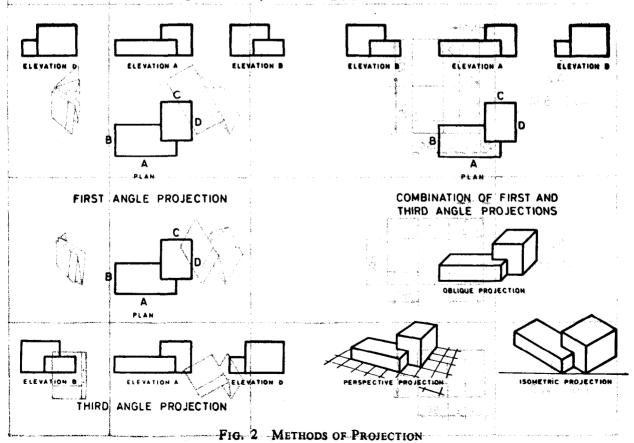
#### 9.2 Types of Lines

The types and thickness of line shown in the Table 5 should be used.

In cases where other types or thicknesses of line are used for special fields, or if the lines specified in the table are used for applications other than those detailed in the last column of the table, the conventions adopted must be indicated or explained by notes on the drawing concerned.

#### 9.3 Thickness of Lines

Two thicknesses of lines are used. The ratio of the thick to the thin line shall not be less than 2:1.



The thickness of lines should be chosen according to the size and the type of the drawing from the following range:

0.18, 0.25, 0.35, 0.5, 0.7, 1, 1.4 and 2 mm.

อได้และ ของประกอบสายเหลือให้ เกาะ เกาะเทาะประกอบได้

NOTE - Owing to difficulties in certain methods of reproduction, the line thickness of 0.18 mm should be avoided. in in the state of the street arms as a contract of the street arms of

For all views of one piece to the same scale, the thickness of lines should be the same (1, 201) 1.01 9.4 Spacing of Lines (1971) (0.4% &1.6) obste

The minimum space between parallel lines, including hatching, should never be less than twice the thickness of the heaviest line. It is recommended that these spaces should never be less than 0.7 mm.

Table 5 ar dande at the rope of the (Clause 9.2)

10.2.1.2 Summer of the 12.00 12.5

varily sequention

Charles of the continue of the Comi.

Line Control of the C	Description	General Applications: 1644 History
A Solution of the Solution of	Continuous thick	Al Visible outlines - Father Wate Land A2 Visible edges
But the Comment of the state of	(straight or curved)	B1 Imaginary lines of intersection doc B2 Dimension lines and the account of the B3 Projection lines and the balance B4 Leader lines B5 Hatching Dutlines of revolved sections in place
Political political description of san here so to be a son or son of san here so to be a son or son of son or son	Continuous thin freehand Continuous thint ( straight ) with zigzags	C1   Limits of partial or intersupted views and sections, if the limit is not a chain thin line
£ — — — — — — — — — — — — — — — — — — —	Dashed thick	El Hidden outlines* E2 Hidden edges*
F	Dashed thin	Fi Hidden outlines* F2 Hidden edges*
6	Chain thin	G1 Centre lines G2 Lines of symmetry G3 Trajectories
	Chain thin, thick at ends and changes of direction	H1 Cutting planes
	Chain thick	JI Indication of lines or surfaces to which a special requirement applies
K	Chain thin double- dashed	K1 Outlines of adjacent parts K2 Alternative and extreme positions of movable parts K3 Centroidal lines K4 Initial outlines prior to forming K5 Parts situated in front of the cutting plane

<sup>\*</sup>Although two alternatives are available, it is recommended that on any one drawing, only one type of line be used.

<sup>†</sup>This type of line is suited for production of drawings by machines.

#### 10 LETTERING AND DIMENSIONING

10.1 For details of lettering reference shall be made to IS 9609 (Part 1): 1983.

#### 10.2 Dimensioning

#### 10.2.1 Notation of Dimensioning

10.2.1.1 Projection lines (also called extension lines) and dimension lines shall be drawn as thin, continuous lines.

10.2.1.2 Starting a short distance (to avoid confusing with other lines on the drawing) from the outline, projection lines shall generally be drawn perpendicular to the associated dimension line, and shall extend slightly beyond them (Fig. 3).

10.2.1.3 Intersecting projection lines and dimension lines shall be avoided wherever possible. Otherwise they shall simply cross each other (no special designation at intersections).

10.2.1.4 Dimension lines shall generally be unbroken except, in certain cases, for the insertion of a size.

10.2.1.5 An axis, reference line or outline shall never be used as a dimension line, but may be used as a projection line.

#### 10.2.2 Termination of Dimension Lines

10.2.2.1 Single dimensions, chain dimensions and parallel dimensions

The termination of dimension lines shall be represented by short oblique lines, drawn at 45° clockwise from the projection line (Fig. 4 and 5).

#### 10.2.2.2 Superimposed running dimensions

The common datum point of running dimensions shall be represented by a dot surrounded by a circle. The termination of dimension lines shall be represented by open 90° arrowheads (Fig. 6 and 7).

#### 10.2.3 Inscription of Dimensions

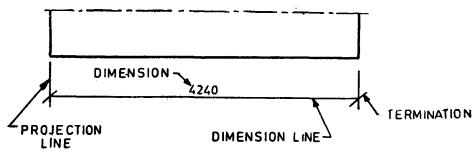
10.2.3.1 Single dimensions, chain dimensions and parallel dimensions

Dimensions shall be placed near the middle of, above and clear of the dimension line. The figures shall be oriented so that they can be read from the bottom or from the right of the drawing (Fig. 4 and 5).

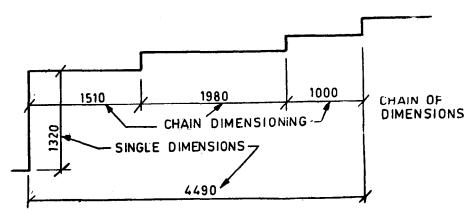
#### 10.2.3.2 Superimposed running dimensions

Dimensions shall be placed near the arrowhead:

- a) in line with the projection line (Fig. 6), or
- b) where there is no risk of confusion, above and clear of the dimension line (Fig. 7).

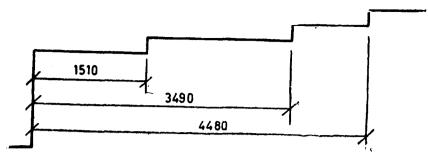


All dimensions in millimetres.
Fig. 3 Single Dimension



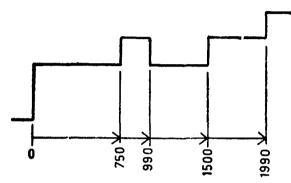
All dimensions in millimetres.

FIG. 4 SINGLE DIMENSIONS AND CHAIN DIMENSIONING



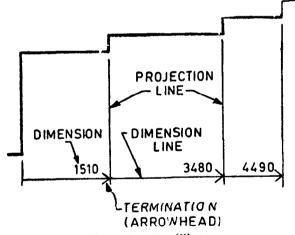
All dimensions in millimetres.

FIG. 5 PARALLEL DIMENSIONING



All dimensions in millimetres.

FIG 6 SUPER-IMPOSED RUNNING DIMENSIONS a)



All dimensions in millimetres.

Fig. 7 Super-imposed Running Dimensions b)

10.2.4 Where the structure is framed, all dimensions should be related to the column or stanchion centres, which, in turn, are related to the building line.

10.2.5 Where the structure is of wall-bearing construction, dimensions should be related to the rough unfinished wall faces.

#### 10.2.6 Units of Dimensioning

Dimensioning shall be done normally in millimetres. The symbol for the unit may be omitted provided that a prominent note is added stating the unit in which all the dimensions of the drawing are expressed. In case other units of dimensions are used, these shall be denoted by specific notations.

#### 11 GRAPHICAL SYMBOLS

11.1 Symbols are in constant use on small-scale drawings and it is considered that time would be saved and confusion avoided if a standard rang of symbols is extensively used.

11.2 Careful attention shall be given to the size of these symbols, having due ragard to the scale of the drawings. Wherever practicable, they shall be drawn to scale. Some symbols may have to be slightly enlarged for the purpose of clear indication.

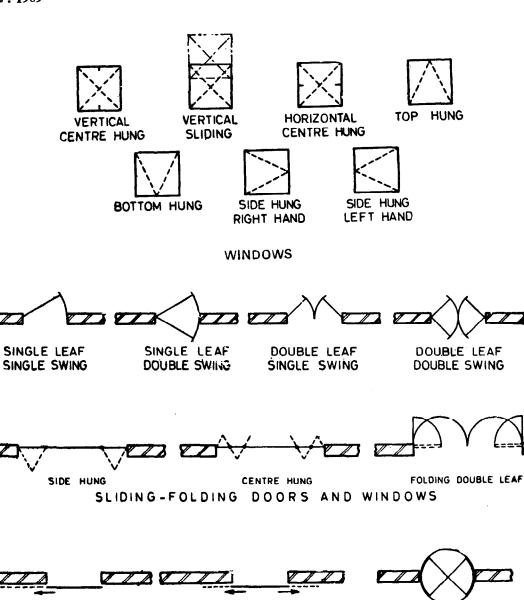
#### 11.3 Windows, Doors, etc

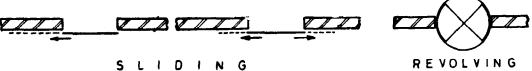
Generally, window openings shall be defined in elevation, and doors, screens and sliding windows on the plan. Symbols for windows are shown in Fig. 8. The point or apex of two lines crossing the ventilator or casement indicates the hinged side.

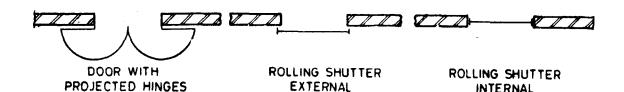
11.4 Symbols for electrical installations shall be as given in Fig. 9.

11.5 Symbols for gas fittings shall be as given in Fig. 10.

11.6 Symbols recommended for sanitary appliances and general fitments shall be as given in Fig. 11 and 12.







EXTERNAL

INTERNAL

**DOORS** 

FIG. 8 GRAPHICAL SYMBOLS FOR DOORS AND WINDOWS

Name	SYMBOL	Name	SYMBOL
Main fuse-board without switches, lighting		Counterweight pendant	Ocw
Main fuse-board with switches, lighting		Rod pendant	∩R
Main fuse-board without switches, power		Chain pendant	Ос
		Light bracket	$\odot$
Main fuse-board with switches, power		Batten lampholder	Овн
		Water-tight light fitting	<b>○w</b> 7
Light plugs	-0	Bulk-head fitting	D
Power plug	-(]	Power factor capacitor ( when installed remote from the lamp unit )	
Distribution fuse-board without switches, lighting		Fluorescent light ( single )	<b>/</b>
Distribution fuse-board with switches, lighting		Fluorescent light (double)	
		Lighting outlet connection to an emergency system	0
Distribution fuse-board without switches, power		Choke (when installed remote from the lamp unit)	
Distribution fuse-board with switches, power	ZIIIIII	One-way switch	
Main switches, lighting		Two-way switch	V
Main switches, power	□₁P	Intermediate switch	Ψ
Meter	0	Pendant switch	<b>√</b> P
Single light pendant	$\circ$	Pull switch	4

Fig. 9 Symbols for Electrical Installations — Contd

Name	Symbol	Name	Symbol
Socket-outlet, 2 pin 5 amp	Ø	Bell push	
•	•	Bell	A
Socket-outlet, 3 pin 5 amp	Ď.	Buzzer	兄
Socket-outlet and switch combined, 2 pin 5 amp	Ð	Indicator ( at 'NI' incort	<u> </u>
Socket-outlet and switch combined, 3 pin 5 amp	₽-	Indicator ( at 'N', insert number of ways )	
Socket-outlet, 2 pin 15 amp	D	Telephone instrument point public service	
Socket-outlet, 3 pin 15 amp	<b>D</b> -	•	<u> </u>
		Telephone instrument point internal	$\wedge$
Socket-outlet and switch combined, 2 pin 15 amp	Ð		
Socket-outlet and switch combined, 3 pin 15 amp	D <del>-</del>	Telephone cable distribution board public service	
Convection heater			
Electric unit heater			
Immersion heater	$\vdash$	Telephone cable distribution board internal	
Thermostat	Ŧ		Δ
Immersion heater with incorporated thermostat	<b>1</b>	Telephone private exchange public service	
Self-contained electric water heater	•	Telephone private exchange	
Humidistat	●н	or internal	-X

FIG. 9 SYMBOLS FOR ELECTRICAL INSTALLATIONS - Contd

IS 962: 1989 NAME SYMBOL NAME SYMBOL Î Aerial \*Relay (at 'N', insert the number of ways) Ceiling fan Synchronous clock outlet  $(\mathfrak{D})$  $(\mathfrak{D})$ Bracket fan Impulse clock outlet Master clock  $\odot$ Exhaust fan Fire alarm push Fan regulator **Automatic contact** Cooker control unit Bell connected to fire alarm Earth point Fire alarm indicator (at 'N', **0** insert number of ways) Surge diverter Pilot or corridor lamp Amplifier Indicator (buzzer may be M added, if required) Control board .... Relay Microphone outlet Reset position Loudspeaker outlet Horn or hooter

Receiver outlet

Fig. 9 Symbols for Electrical Installations

Siren

<sup>\*</sup>This general symbol is applicable to any system by the addition of an identifying symbol (appropriate to a particular system) in the upper half, for example, bell system relay.

Where items of operations are combined, the symbols may be combined, for example, indicator and bell.

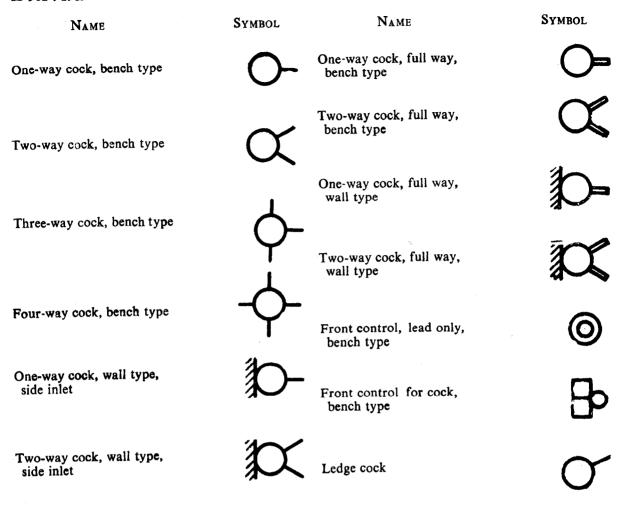


FIG. 10 SYMBOLS FOR GAS FITTINGS

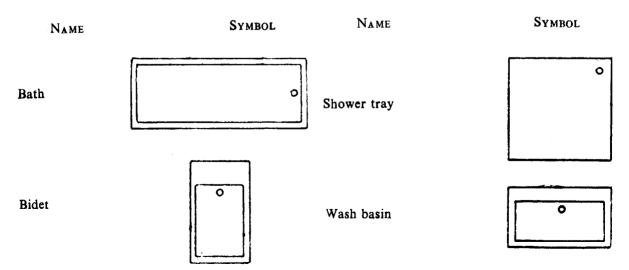


FIG. 11 SYMBOLS FOR SANITARY INSTALLATIONS - Contd

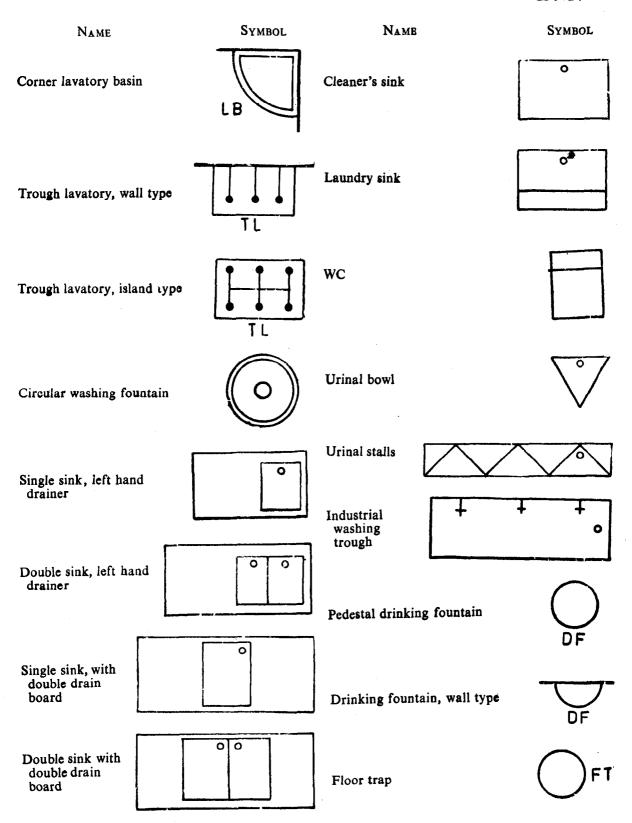


FIG. 11 SYMBOLS FOR SANITARY INSTALLATIONS

Name	Symbol	Name	Symbol
Hot or cold water drain off	<b> </b>	Hot water cylinder	HWC
Drain cock	T DC	Heating feed and expansion tank	F & EXP T
	•	Hose tack	HR
Stop valve or sluice valve	→SV	Hose bib	НВ
Mixing valve, hand control	<b>-</b> \$−	Fire extinguisher	FE
Mixing valve, thermostatic	<del>-</del>	Fire cock	
Safety valve			•
Change of pipe size	2   1	Fire cock	
			FH
Water meter	-IOH	Fire hydrant	<u> </u>
	*****	Sprinkler	(SP)
Horizontal calorifier with tubular heat exchanger	<b></b>	Pump	
Horizontal calorifier with annular heat exchanger		Vacuum pump	VAC
		Gully	
Vertical calorifier with tubular heat exchanger	\$	Grease trap	<u> </u>
Vertical calorifier with annular heat exchanger	$\Diamond$	Rain water head	GT RWH
Hot water tank	HWT	Rodding eye	O RE
	Fig. 12 Fither	IT SYMPOLE — Contd	• • •

FIG. 12 FITMENT SYMBOLS - Contd

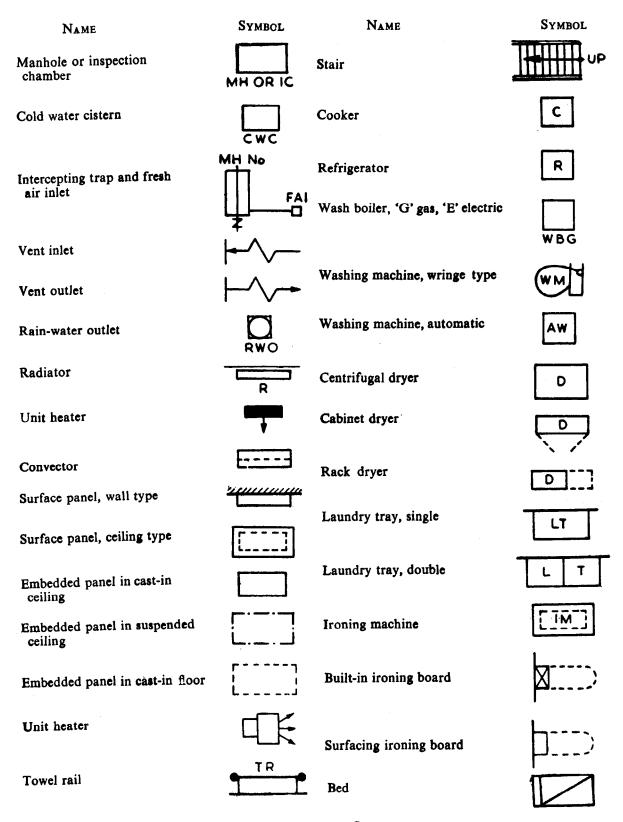


FIG. 12 FITMENT SYMBOLS

11.7 The following types of lines, as appropriate, shall be used to distinguish between different types of drains and pipes:

a) A line consisting of medium length, dashes, for soil or combined drains:

b) A dotted chain line, for surface water drain:

NOTE — Lines to indicate drainage systems are frequently drawn on the reverse side of the relevant drawing.

 c) A large chain line, for pipes at high level or in roof space;

d) A full line, for pipes at skirting or floor level.

e) An interrupted dotted line, for pipes under floors. Two lines used in the same fashion shall denote ventilating ducts, the distance apart denoting the width:

f) The direction of flow of fluid in a pipe shall be indicated by means of an arrow head thus:

... ... ...

Rise and direction of flow Rise: 1 in 50
Fall and direction of flow Fall: 1 in 50

g) The initial letters of the words: rise, drop, from above, from below, to above, to below, are used to denote the route of vertical pipes, thus:

#### **Upward Flow**

i) Through flow to space above

ii) Through flow from space below FB

TA

TB

iii) Both directions combining (i) and (ii) R

#### Downward Flow

i) Through flow to space below

ii) Through flow from space above FA

iii) Both directions combining (i) and (ii) D

11.7.1 A vertical pipe on plan is shown by a dot in conjunction with one or the other of the abbreviations given in 11.7 (g). If the pipe is housed in a chase in the wall, the dot is shown inside the wall, surrounded by a rectangle with one face flush with the wall and the note 'IN CHASE' is added. If the pipe is encased, the dot and the rectangle are shown outside the thickness of the wall and the note 'ENCASED' is added.

11.7.2 Identification letters shall be used to denote the services thus:

air, A; drainage, D; electricity, E; fire service, F; gas, G; oil, O; refrigeration, R; steam, S; water, W.

11.8 Symbols for rolled steel sections are given in IS 10720: 1983.

11.9 Conventional signs for land survey plans are given in Fig. 13.

SYMBOL NAME Name SYMBOL. Wells fitting and other compo-Village as surveyed: nents for supply water and drainage system in the a) Open ground — General Symbol b) Walled Rain water well ( street inlet ) Inspection well (cleaning well) Deserted site a) manhole b) cleaning well

FIG. 13 SYMBOLS FOR LAND SURVEYING — Contd

Name	Symbol	Name	SYMBOL
Draining well	———	Swamp or marsh with cultiva-	
Manhole and protection pipe		Reeds in perennial water	18 18 18 18 18 18 18 18 18 18 18 18 18 1
Well for drainage of pressure conduits		Culvert	1
Well with de-aeration device	<del>-</del>	Lake or tank, as surveyed: With defined limit of perennial water	
Flushing post	-f-	Lake or tank, as surveyed: With fluctuating limit of perennial water	
General well		Lake or tank, as surveyed: With embankment under 3 m	<u>۵</u>
Spring  Conduit, ditch and pipe —	+	Lake or tank, as surveyed: With embankment 3 m or over	
General symbol  Method A: All kinds of conduits and pipes (continuous line in	w	Lake or tank, as surveyed: With very steep embankment	
combination with designa- tion code)		Excavated tank, as surveyed: Perennial	
Method B:  ( Symbolic line, indication of the nature of fluids )		Excavated tank, as surveyed: Non-perennial	
Proposed conduit and pipe — General symbol (Methods A and B) Continuous thick line (Type		Excavated tank, as surveyed:  Perennial with high embankment	
A of ISO 128)  Existing conduit and pipe— General symbol (Methods		Tank, conventional: Perennial	
A and B) Continuous thin line (Type B of ISO 128) Pressure sewage pipe (Arrow is the symbol)	<del></del>	Tank, conventional:	<b>4</b>

FIG. 13 SYMBOLS FOR LAND SURVEYING - Contd

Name	Symbol	Name	Symbol
Water reservoir		Railway, broad gauge double-line: i) Open, with sidings, distance stone and	
Water pumping station	$\bigcirc$	station with enclosure ( as surveyed ) ii) Under construction	
Water treatment plant	0	Railway, broad gauge single-line: i) Open, with sidings, and	
Waste water reservoir		station and enclosure (conventional)	
Waste water pumping station		ii) Under construction Railway, other gauges	man won Worl
Waste water treatment plant		double-line:  i) Open with sidings	
Quarry, with greatest depth	E CONTRACTOR OF THE PARTY OF TH	ii) Under construction	
Single line stream: Perennial	>	Railway, other gauges single-line: i) Open with sidings	1711111
Single line stream: Approximate or undefined	<b>&gt;</b>	ii) Under construction	I—I—I—I
Telegraph line	• · · • · · • : · •	Mineral line or tramway	<del></del>
Telephone	TELEPHONE LINE	Level crossing	
Electric power line: Main transmission line with substation i) conventional on all	MAIN POWER LINE	Road over railway	
scales ii) local distribution line (conventional)	• • • • • • • • • • • • • • • • • • •	•	. Land
Ropeway with terminus	ROPEWAY	Road ( or railway ) under railway	
Wireless station: i) As surveyed	MASTS WIRELESS STATION	Railway tunnel, with or without cutting, as surveyed	<b></b>
ii) Conventional	WIRELESS STATION	Tunnel (different purposes, proposed	

FIG. 13 SYMBOLS FOR LAND SURVEYING - Contd

Name	Symbol	Name	Symbol
Tunnel, existing	EXISTING	Other roads: i) Metalled, also di stance stone, bridge and Irish bridge or causeway,	CAUSE WAY
Tunnel, future	FUTURE	and avenue of trees ii) Unmetalled	=====£u
Ditch, permanently open	· · · · · · · · · · · · · · · · · · ·	Cart-track with bridge	-X-
Bridge carrying railway		Pack-track with bridge, culvert	<del></del>
Bridge carrying:		Pack-track with pass and height Foot-path with bridge,	x
i) Railway over road	RAILWAY OVER ROAD	culvert: In symbol of tracks the heavier symbols should be used in afforested or contoured areas or where	····×···×···
ii) Road over railway ( descriptive wording sh be omitted only w there is no room)	nould many	emphasis is required in open areas. Symbols may be still heavier if required to give emphasis in afforested or contoured areas	
Bridge carrying road and broad gauge railway:		Bridge of boats or pontoon bridge (explanatory words to be typed against the symbol)	
	en in	Ferry or ford	FORD
Roads of 1st importance: i) Metalled, and importance bridge with piers river (the normal tance between the should be 3 mm on significant controls.	over dis- piers scale	Track or path coincident with bed of stream:  i) For short distance	) FERRY
slightly to permit	rying \ \ : an ween	ii) For long distance	TRACK FOLLOWS BED
ii) Unmetalled	=========	Track or path following boundary: i) Short distance	
Roads of 2nd importance Metalled	:	ii) Long distance	TRACK FOLLOWS BOUNDARY

FIG. 13 SYMBOLS FOR LAND SURVEYING — Contd

- omitted): Along single-line
- ii) With narrow gauge railway ('sleepers' omitted): Along double-line ( Note-'Single line' or 'Double line', may be typed along the line, if necessary)

International boundaries:

- i) Without pillars
- ii) With main and subsidiary pillars

- path (when it is the recognised boundary)
- iii) One side of river
- iv) Centre of river
- v) Bed of river as surveyed



FIG. 13 SYMBOLS FOR LAND SURVEYING — Contd

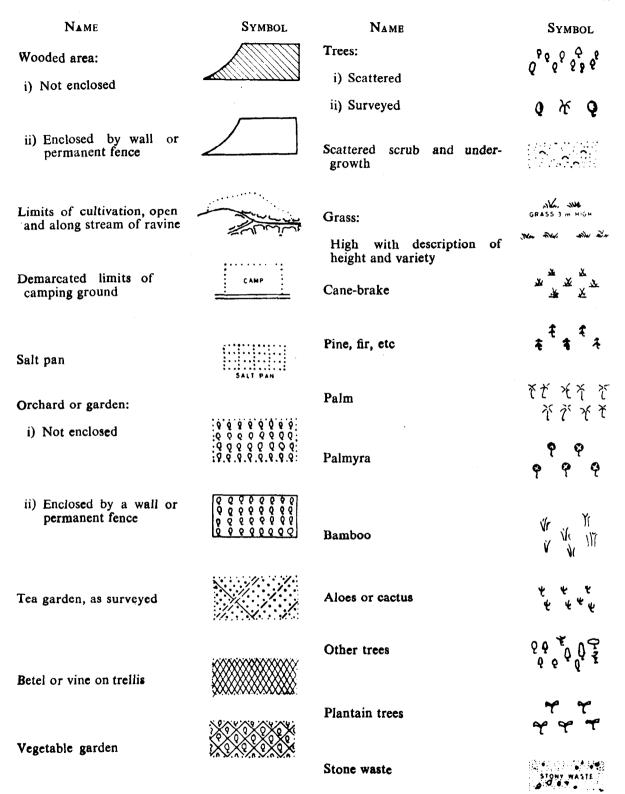


FIG. 13 SYMBOLS FOR LAND SURVEYING - Contd

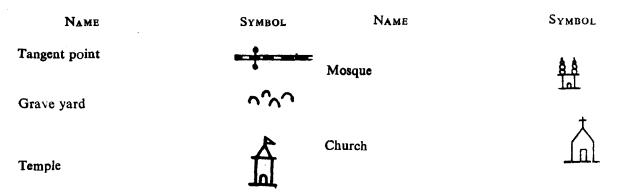


FIG. 13 SYMBOLS FOR LAND SURVEYING

Term

#### 12 ABBREVIATIONS

12.1 Abbreviations are generally used in drawing for the sake of clarity. A systematic notation of urchitectural and building terms is necessary for aniformity, and for avoiding confusion and ambiguity. Abbreviations are the same in the singular and plural. Abbreviations and symbols recommended for use in general building drawings are listed in Table 6.

12.2 The word 'ditto' or its equivalent abbreviations shall not be used on drawings.

Table 6 Recommended Abbreviations with Symbols Where Applicable

(Clause 11.1)

Term	Abbreviation and/or Symbol
A	
Aggregate	AGG
Air-brick	AB
Alternating current	ac
Aluminium	Al
Ampere	amp or AMP
Approximate	APPROX
Arrange	ARNG
Asbestos	ASB
Asbestos cement	ASB/CME
Asphalt	ASPH
Assembly	ASSY
At	@, AT
В	
Beam ( I Section )	I
Bench mark	ВМ
Bitumen	BIT
Brickwork	BWK
Brinell hardness number	BHN, HB

Table 6 ( Contd )

Abbreviation

	2 <b></b>	and/or Symbol
	c	•
	Cast iron	ci or CI
	Cast steel	CS
	Cement	ct
	Cement concrete	CC
	Centi ( 10 <sup>-2</sup> )	c
	Centimetre	cm
	Centre line	CL, C
	Centre of gravity	CG
	Centre to centre	C TO C, c/c
	Chain	СН
	Checked	CHKD
	Circular pitch	CP
	Circumference	⊙ce. CIRC
•	Coefficient	COEFF
	Column	COL
	Concentrate	CONC, conc
	Concrete	CONC
	Continued	Contd
	Copper	Cu
	Corrugated	CORR
	Cosecent	cosec
	cesine	COS
	Cotangent	cot
	Countersunk	CTR/SNK, csk
	Crossing	X-ING
	Cross over	X-OVER
	Cross-section	CS
	Cubic centimetre	cm³, ( cc )
	Cubic metre	cu/m, m²
	Cubic metre per second	( cumec ) m³/s
	Cubic millimetre	mm <sup>a</sup> cu/mm
	Cycles per second	CPS
	Cylinder or cylindrical	CYL
		D
	Dama aroof sauce	_
	Damp proof course Decimetre	DPC
	Deciment c	dm

#### Table 6 ( Contd )

Term	Abbreviation	Term	Abbreviation
	and/or Symbol	•	and/or Symbol
Degree (angle)	deg,º	High flood level, ordinary	OHFL
Degree Celsius	<b>°C</b> .	High flood level, maximum	MAX HFI
Diameter	DIA, $\phi$	High tensile steel	HT/ST
Diametral pitch	DP	High tensile welding steel	HTWS
Dilute	DIL	High tension	HT
Direct current	dc	High voltage	HV
Drawing	DRG	High water mark	HWM
Drawn	DRN	Hour	h
	E	· · · · · · · · · · · · · · · · · · ·	
Earth closet	EC	India rubb <b>er</b>	IR
Elevation ( View )	ELEV	Induced draught	I/D
Elevation	EL	Infinity	inf, ∞
Embankment	EMB	Inside diameter	ID
Enamelled	ENAM	Inspection chamber	ICH, IC
Expanded metal	XPM	Insulated or insulation	INSUL
Extension	EXTN		INSUL
Extra-high voltage	EHV	Intercepting trap	
Engine	ENG	Internal	INT
		Internal combustion	IC
	F	Intermediate pressure	IP
Figure	FIG	K	
Finished floor level	FFL	Kilo	·k
Floor trap	FT		kc/s
Flushing cistern	FC	Kilocycles per second	•
Forced draught	FD	Kilogram	kg
Forged steel	F/ST	Kilogram per cubic metre	kg/m³
Formation level	FL	Kilogram per square centimetre	kg/cm <sup>2</sup>
Fresh air inlet	FAI	Kilo hertz	KH <sub>z</sub>
Full supply level	FSL	Kilolitre	Kl
Full tank level	FTL	Kilometre	km
	G	Kilometre per hour	km/h
	G	Kilovolt	kV
Galvanized	GALV	Kilovolt-ampere	kVA
Galvanized iron	GI	Kilowatt	kW
Glazed Ware pipe	GWP	Kilowatt	R 11
Gram	g	L	
Grate area	GR/A		_
Greese trap	GRT	Larger than	>
Ground level	GL	Larger than or equal to	<b>≥</b> , ≘
Ground sink	GS	Latitude	LAT
Gully	G	Left hand	LH
Gully trap	GT	Length	1_
Gunmetal	G/MET	Level crossing	LC
		Litre	I
	Н	Logarithm (common)	log
Hard drawn	H/DWN	Logarithm (natural)	log <sub>e</sub>
Hardened and tempered	H & T	Longitudinal scale	LS
Heating surface	HS	Longitudinal section	LSec
Height	HT	Low frequency	Lf
Hertz	Hz	Low pressure	LP
Hexagon or hexagonal	HEX	Low tension	LT
Hexagonalhead	HEX/HD	Low voltage	LV
High flood level	HFL	Lumen per watt	lm/W

the state of the s	and production of the formation of the second section of the second seco	in the province of the comment of the province of the comment of t	and the second of the second o
Term	Abbreviation and/or Symbol	Term	Abbreviation and/or Symbol
M		Precast	PRECAST
Macadam	MAC	Prefabrication	PREFAB
Malleable cast iron	MCI	Prestressed concrete	PCONC
Malleable iron	MI		The second secon
Manganese steel	Mn S	Q	
Manhole	MH	Quintal	q
Maximum	MAX		
Maximum flood level	MFL	R	
Maximum water level	MWL	Radian	гad
Mean sea level	MSL	Radius	RAD
Mega ( 10 <sup>6</sup> )	M	Railways	RLY
Megawatt	MW	Rainwater outlet	RWO
Metre	m	Rainwater pipe	RWP
Mezzanine	MEZZ	Reduced level	RL
Micro ( 10-4 )	μ.	Reference	REF
Micro ampere	μΑ	Reinforced cement concrete	RCC
Micro metre ( or micron )	•	Revolutions per minute	rev/min, rpm
Mild steel	μ <sup>m</sup> MS	Revolutions per sec	RPS
Milli (10-3)		Right hand	RH Transfer
Milliampere	m ···	Rising main	RM
Milligram	mA	Rivet	RIV
Millilitre	mg	Road level	Rd L
Millimetre	ml	Rodding eye	RE RE
	mm	Rolled section	RS
Minimum	MIN	Rolled steel joist or I section	RSJ or I
Minute ( time )	min	Round	RD .
Much larger than	<b>&gt;</b>	Round head	RH hate the court
Much smaller than		: :	t it is a first
N		S	Profile Back
Naval brass	N Br	Saturated	SATD
Nickel chromium steel	Ni Cr S	Screwed	SCR
Nickel steel	Nis/T	Secant	sec
North	N15/1 N	Second	S
Not to scale	NTS	Sheet ( when preceding a material	SH water track in
Number		or sheet No.)	tina nyaéwa z
Number	No.	Shower bath	SB 127 1 2 2 2
<b>O</b> *		Sine	sin and di
01	OIDA o	Sink	SN chart in the
Ohm	OHM, Ω	Sketch	SK.
Oil circuit breaker	OCB	Sluice valve	SV
P		Smaller than	<
-		Smaller than or equal to	<, ≦
Paper insulated	PI	Soil and vent pipe	S & VP
Parts per million	ppm	Soil pipe	SP
Pattern number	PATT No.	South	S
Per	PER,/	Specification	SPEC
Percent	PERCENT, %	Specific gravity	sp-grossia modific
Phase	ph	Spigot and socket	
Phosphor bronze	PH BRZ	Spot faced	SF. Lange
Pitch	P	Square	SQ (5.15)
Pitch circle	PC	Square centimetre	-
Pitch circle diameter	PCD	Square kilometre	
Plate	PL	Square metre	m*
Platinum	PLAT	Square millimetre	
		-	mm.

Table 6 (Concluded)

Term	Abbreviation and/or Symbol
waa,∧ <sup>3</sup>	
Standard	std SD
Standard datum	
Standard level	SL SWG
Standard wire gauge	
otalia pipe	Sp SV
Stop valve	SG ;
Street gully	BM
Survey of India bench mark	SW
Switch	
T	
Tangent	tan
Tee	T
Telegraph post	Тр
Temperature	temp'
Tongued and grooved	T&G
Tonne galler and all	t (4,11,199)
Traced	TCD
Trigonometrical station	Δ
Turns per centimetre	tpc
Turns per metre	tpm
<b>v</b>	Subject of the March on the Commission of
Vacuum	vac T
Vapour density	vd
Vapour pressure	vp
Vent pipe	VP
Volt	V
Volume	vol
Vulcanized India rubber	VIR
w	Single State of the Control of the C
Strate and mank mine	W&VP
Waste and vent pipe Waste pipe	WP
Water closet	WC
Watt	W, WATT
Weight	wt
West:	**** <b>w</b> *** **
White metal	WM
Wrought iron	WI
Y	
Yard gully	YG
Year Year	yr
I eat	J.

# 13 CONVENTIONAL REPRESENTATION OF MATERIALS IN SECTION

13.1 Recommended methods of indicating materials by hatching or colouring are given in Table 2. Where any confusion is likely to occur in the interpretation of drawings, hatching or colouring shall be used.

#### 13.2 Hatching

Discretion should naturally be used in adopting the spacing of hatching lines to the scale of the drawing.

- 13.2.1 It is recommended that when hatching on tracing paper or cloth, a sheet of squared paper shall be placed underneath to preserve uniformity of spacing and direction of the hatching.
- 13.3 When indicating concrete, coarse aggregate shall be shown for mass concrete and finer aggregate for reinforced concrete.
  - 13.4 Where large areas of section hatching are to be indicated, and especially for such materials as concrete and plaster, it is recommended that a portion near the edge only be treated, the hatching gradually fading towards the centre.
  - 13.5 Areas in section which are too thin for line sectioning, such as some of the metal sections, shall be blackened in solid, leaving a thin space between adjacent portions.

## 14 NUMBERING OF BUILDINGS AND PARTS OF BUILDINGS

#### 14.1 Designation Systems

The designations for different parts of a project should be chosen according to the same principles.

All drawings and parts of drawings should be executed in such a way that the drawing alone is sufficient to describe the item without the addition of words or initials.

However, when a drawing depicts a number of similar items (for example, a plan of a building with many windows), one may, if necessary, identify them separately (for example, by a sequence of numbers). This also applies in the case where similar items, such as, windows, can be confused with other elements of similar appearance such as doors. For this identification the principles outlined in this standard should be adhered to.

#### 14.2 Type Designations

Different objects are classified according to the type, for example the kind or design of the object (see Fig. 14).

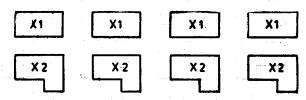


FIG. 14 EXAMPLES OF TYPE DESIGNATION

Table 7 Symbols for Materials in Section

(Clause 13.1)

Material	Symbol		Colour
Brick			Vermilion
Concrete			Hookers green
Natural or reconstructed stone			Cobalt blue
Partition blocks			Paynes grey
Wood			Burnt sienna
Earth			Sepia
Hardcore			Yellow ochre or chrome yellow
Plaster and plaster products			Green
Glass		Applicable to large scales	Blue
Fibre building board and insulation board	Only		Sepia
Metal sections			Black

#### 14.3 Individual Designation

Each separate object is identified. The individual designation is often an indication of position ( see Fig. 15).

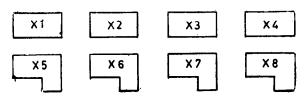


Fig. 15 Examples of Individual Designation

#### 14.4 Designation Code

The complete designation consists of a principal and an additional designation.

#### 14.4.1 Principal Designation

The principal designation indicates the category of objects at different levels in the documentation. It should consist of:

- a) text in full, for example, HOUSE, ROOM, WINDOW, DOOR, FENCE, CUT-OFF VALVES;
- b) Abbreviation, for example, H, R, W, D, F, COV;

- c) other systematical designation, for example: doors: 1, windows: 2, parts: 3, etc.
  - Playground equipment: A, outdoor furniture: B, other equipment: C, etc.
- d) designation according to a general classification and coding system.

The principal designation may be omitted when the rest of the documentation shows the intention.

#### 14.4.2 Additional Designation

Additional designations indicate a further specification in the category. They should consist of:

- a) for type designations, numerals and letters, for example 'W 12 b', where 'W' is the principal designation for window, 12 is the additional designation for type, material, dimensions, etc, and 'b' is the additional designation for variant, for example, notch for a window sill; and
- b) for individual designations, numerals or letters in running order, for example, P1, P2, P3, etc, where 'P' is the principal designation for pillar, and 1, 2, 3, etc, each pillar individually designated. The individual designation may also consist of coordinates.

#### 14.5 Designation Application

#### 14.5.1 Buildings

Buildings belonging to the same project are indicated with a principal and an additional designation, for example, HOUSE 1, HOUSE 2, etc ( see Fig. 16 ).

The designation for a part of a building consists of a principal designation completed with a systematical letter or numeric designation, for example HOUSE 2 PART A, HOUSE 2 PART B, etc (see Fig. 17).

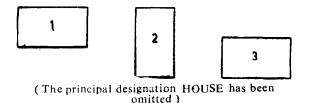


Fig. 16 Designation of Buildings

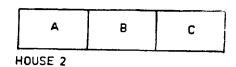


FIG. 17 DESIGNATION OF PARTS OF A BUILDING

#### 14.5.2 Storeys

A storey means a space between two consecutive levels, bounded by physical limits (floors, ceiling and walls), including these limits. The concepts of 'storey' and 'level' are complementary but the one should not be confused with the other.

Each storey should be designated by numerals following a logical sequence. The numbering from bottom to top starts with 1 at the lowest level usable for any purpose ( see Fig. 18).

Zero designates the space which is situated immediately below the lowest level usable for any purpose.

The numbering applies not only to the usable space of a given storey but also to the physical limits bounding this space.

To express the transition from one number to another, it is recommended that the level is indicated at the upper face level of the load-bearing floor element ( see Fig. 19 ).

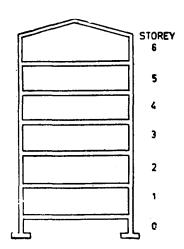


Fig. 18 Numbering of Storeys

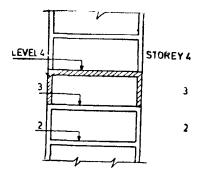


Fig. 19 Indication of the Level

When there are differences in level inside a building, for example, mezzanine, offset levels, landings, ramps, etc, every necessary indication should be given in order to avoid errors. These indications should be in the form of levels or listed abbreviations and placed beside the numbering of the storey concerned.

Staircases should have the same numbering as the storey in which they are situated, whether or not they have half landings.

#### 14.5.3 Parts of Storeys

The designation for a part of a storey when the documentation is divided into several drawings consists of the designation of the storey completed by a systematic all letter or numeric designation, for example STOREY 3 PART A, STOREY 3 PART B, etc ( see Fig. 20 ).

#### 14.5.4 Floors

The floors (floor structures) are numbered serially from the bottom to the top of the building, in accordance with the number of the storey of which they form a part (see Fig. 21).

14.5.5 The designation of the intermediate storey or mezzanine shall be the same as the designation of the storey in which it is situated with the prefix M or G according to the type whether it is a mezzanine or a gallery respectively.

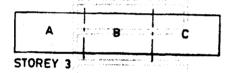


Fig. 20 Designation of Parts of Storey

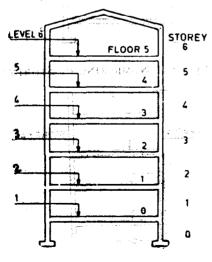


FIG. 21 FLOOR NUMBERING

14.5.5.1 The designation of the floor of the mezzanine or gallery shall be the same as the storey it serves.

dense A consultation ensuring

14.5.5.2 If a number of mezzanine occurs in a building between two floor levels, they may be designated as MX-1, MX-2 where X refers to the designation of the storey in which they are situated and 1 refers to the sequential number of mezzanine in the particular group, the sequence being adopted in any easily identifiable pattern.

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14.5.5.3 If a number of galleries occurs in a building between two floor level, they may be designated as GX + 1. GX - 2 where X refers to the designation of the storey in which they are situated and 1 refers to the sequential number of gallery in the particular group, the sequence being adopted in any easily identifiable pattern.

14.5.6 For determination of the sequential number of a subsidiary storey, the first subsidiary storey shall be taken as the storey immediately below the first floor. The designation of the subsidiary storey shall have prefix SS. The designation of the floor for subsidiary storey shall be the same as the storey it serves.

14.5.7 For the determination of the sequential number of basement storeys; where there are no subsidiary storeys, the storeys below the first floor, shall be assigned suffixes B1, B2, B3; and so on starting with the storey immediately below the first floor level.

14.5.7.1 Where there are subsidiary storeys in a building, the storeys below the last subsidiary storey shall be designated similarly as basement storeys as explained in 14.5.7.

14.5.7.2 The designation of the floor of a basement storey shall be the same as the storey it serves.

#### 14.6 Celumns, Floors, Walts, Beams, etc

Columns, slabs, walls, beams, etc, are designated with a principal designation (abbreviation) and an additional designation (numerals) according to Fig. 22. The first numeral in the additional designation indicates the storey number and the last two digits the number of the feature according to the following example:

Columns = C 201, C 202 Slabs = S 201, S 202 Walls = W 201, W 202 Beams = B 201, B 202

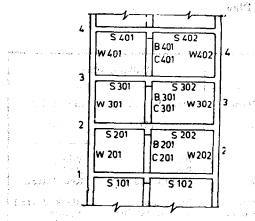


Fig. 22 Examples of Designation for Columns, Floors, Walls and Beams

# 15 DESIGNATION OF ROOMS AND OTHER AREAS

#### 15.1 Designation Principles

- 15.1.1 Room numbers are used on each storey in consecutive order within the limits of all the parts of the building.
- 15.1.2 If several buildings are included in the project, room numbers shall be allocated independently to each building in accordance with 15.1.1.
- 15.1.3 The numbers and the names of the rooms are indicated within each space in the following way:

#### 324 RECEPTION 325 RECORDS

For clarity, the numbers and names should be underlined.

15.1.4 In small spaces, it is sufficient to indicate only the room numbers, as follows:

#### 326

- 15.1.5 Room numbers are given as three digit numbers (if this is enough), the first digit of which is the storey number of the building and the last two digits are serial numbers, allocated to each room in the actual storey:
- Storey 1: Room numbers 101-199 (1 001-1 999);
- Storey 2: Room numbers 201-299 ( 2 001-2 999 ); etc
- 15.1.6 Room numbering is carried out in each storey so that orientation in the building is facilitated. It should be done clockwise in the order in which the rooms are reached from the main entrance or the last entrance from the left end of the building.

- T5.1.7 Small spaces, such as spaces for cleaning utensils and toilets, should be provided with room numbers. (Spaces, such as small cupboards, may alternatively be allocated the number of the room in which they are situated followed by an appropriate suffix.)
  - 15.1.8 If a new room is added so late in the design process that the room numbering is already allocated this new room is given the same room number as the room from which the space has been taken. The two rooms are differentiated by the addition of a letter, as follows:

#### 127A 127B

15.1.9 There should be no gaps left in the room numbering sequence. If two rooms are made into one, the new room is given both the earlier room numbers, as follows:

#### 127,128

15.1.10 Block number and room number may be written together, as follows:

2/216 [ = block 2, room 216 ( No. 16 on storey 2 )]

- 15.1.11 Spaces in basements and attics should be given their appropriate storey numbers in accordance with 13 followed by their room numbers.
- 15.2 Designation of Separate Suites of Rooms Within Buildings
- 15.2.1 The number of the suite should be followed by the number of the room.
- 15.2.2 Suite numbers should be indicated on the plans.
- 15.2.3 Rooms within each suite should be given consecutive numbers. The numbers and the names of each room are indicated in the following way:
  - 1. ENTRANCE 2. LIVING ROOM
  - 3. KITCHEN 4. BEDROOM 1
  - 5. BEDROOM 2
- 15.2.4 Block number, suite number and room number may be written together, as follows:

2/314/1 [ = block 2, suite 314 (No. 14 on storey 3) room 1]

#### 16 COLOURING THE PLAN

16.1 Master plans, zone plans, etc, may be coloured as specified in Table 8.

#### Table 8 Colouring the Plan

( Clause 16.1 )

Si No.	Item	Site Plan		Building Plan	
		Dye-Line Print	Blue Print	Dye-line Print	Blue Print
(1)	(2)	(3)	(4)	(5)	(6)
1	Existing work	Black ( outline )	White	Black	White
2	Proposed work	Red filled in	Red	Red	Red
3	Drainage and sewage work	Red dotted	Red dotted	Red dotted	Red dotted
4	Water supply works	Black dotted	Black dotted	Black dotted	Black dotte
4 5	Work proposed to be dismantled	Yellow hatched	Yellow hatched	Yellow hatched	Yellow hatched
6	Open spaces	No colour	No colour		_
6 7	Plot lines	Thick, black	Thick, black		_
8	Permissible building lines	Thick, dotted black	Thick, dotted black	_	
9	Existing street(s)	Green	Green	_	
10	Future street(s) if any	Green, dotted	Green dotted	_	,-

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