

Items required for Drawing class

Drawing board

Drawing sheet - A2 Size

Mini-drafter/ Drafting machine/ T-Square

Instrument box containing Compass, Bow Compass, Divider

Scale(Ruler)

Protractor, ProCircle

Drawing pencils- 2H,H, HB, B

Drawing sheet Holder

Sharpener, Eraser

Drawing clip/Adhesive tape ->Paper Knife

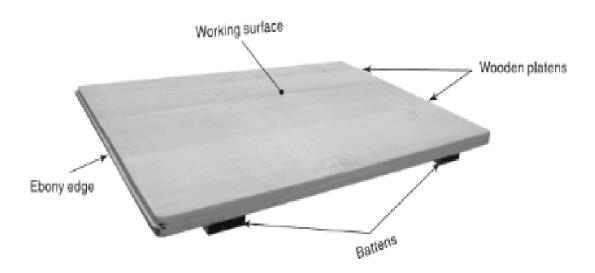
Cloth to Clean

Rough Sheets

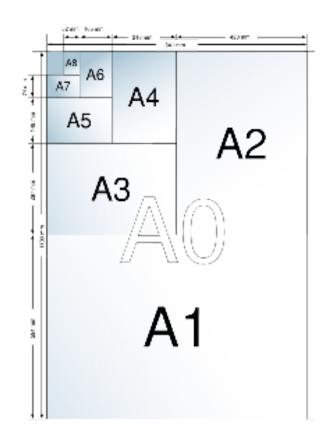
Drawing board

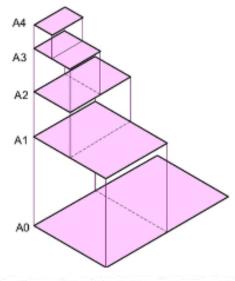
The standard size of drawing boards recommended by ISI are given below.

25.51			
SI.No.	Designation	Dimension in MM	Name
1	ВО	1500 x1000	Antiquarian
2	Bl	1000 x 700	Double elephant
3	B2	700 x 500	Imperial
4	В3	500 x 350	Half-imperial
5	В4	350 x 250	Quarter - imperial

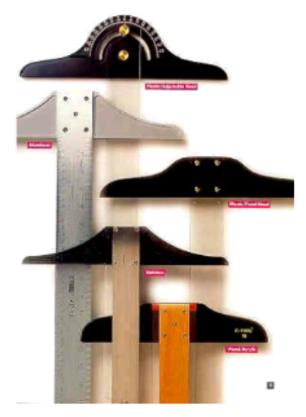


Drawing Sheet

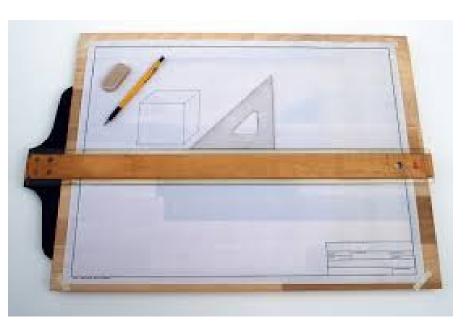




SIZE (MILLIMETERS)			LETTER SIZE
WIDTH		LENGTH	
210	x	297	A4
297	x	420	A3
420	x	594	A2
594	x	841	A1
841	x	1189	A0



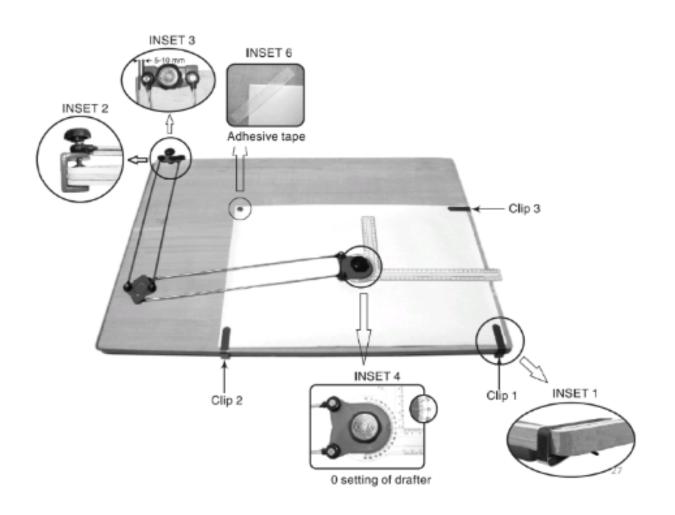
T-Square





Set square

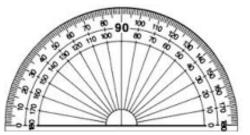
Mini-Drafter



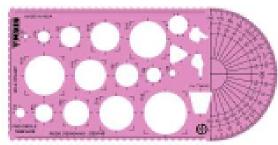
Drawing pencil grades







Protector



ABCDEFGHIJKLM NOPQRSTUVWXYZ abcdefghijklmnoparst uvwxyz 1234567890 &-?\x÷+=!:\^"...\~\x().



Drawing Box

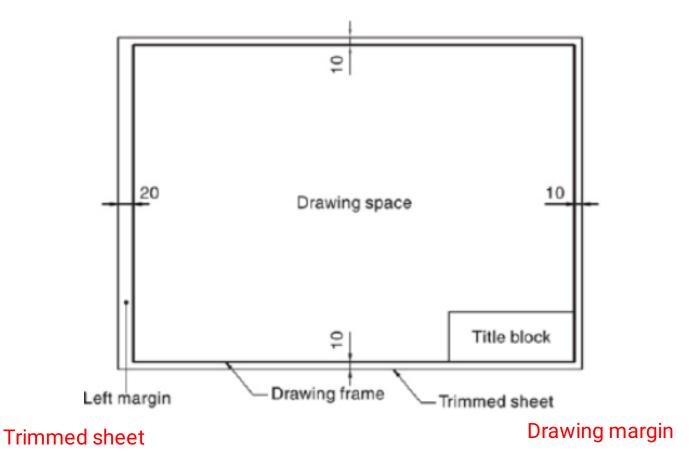






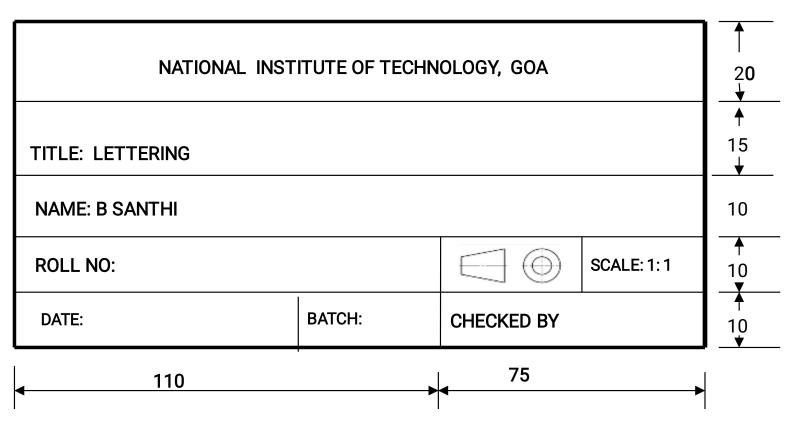
Drawing Paper Holder

Drawing Sheet Layout



Title Block

Location - Bottom right corner – 185 mm x 65 mm (BIS)



SCALE 1:1 for full size

SCALE X:1 for enlargement scales

SCALE 1:X for reduction scales

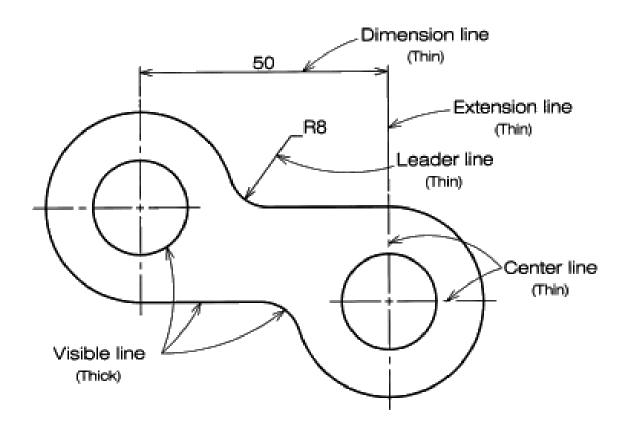
Introduction - Lines

The word language is <u>inadequate</u> for describing the size, shape and features completely as well as concisely. Graphics Language

- Lines
- Dimensioning (Combination of both graphic and word language)

Introduction – Line Types

Each line on a drawing represents specific precise information regarding the components design.



Common

Types of Lines

Type: (thickness)	Example:	Application:
Continuous 0.7mm	Α	Visible outlines
Continuous (thin) 0.3mm	В	Dimension lines
Short dashes 0.3mm	C	Hidden detail
Long chain 0.3mm	D	Center lines
Chain, thick at ends 0.7 – 0.3mm	E	Section cutting planes

Special

Types of Lines

Type: Example: Application: (thickness) Short chain Developed views F----0.3mm Continuous wavy Broken boundaries 0.3mm Break lines Straight zigzag 0.3mm Dimension lines Straight lines with two short zigzags 0.3mm

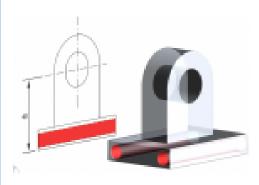
Visible lines

- To draw outlines of visible edges.
- Drawn in continuous thick lines.



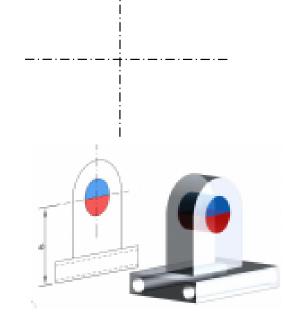
Hidden lines

- Medium thick lines.
- To draw invisible edges.

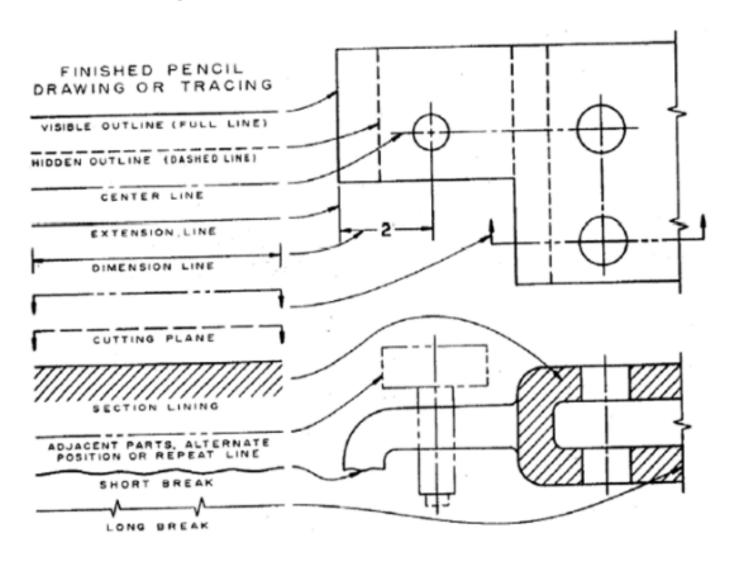


Center lines

- Thin lines with alternate long dash and dot.
- To draw symmetrical objects.

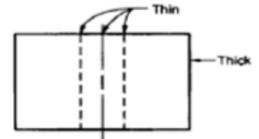


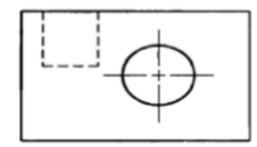
Example of different Lines in a drawing



Black, crisp & consistent line

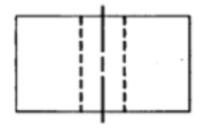


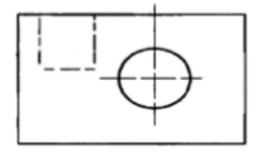














Thank You