

1.1 General

This clause gives guidance on best practice in the layout of preprinted technical drawings, including those produced by computers.

1.2 Drawing sheets

The 'A' series of drawing sheets, shown in Figure 1, is normally used. The drawing area and title block should be within a frame border. In general, material within the frame border forms part of any contract requirements.

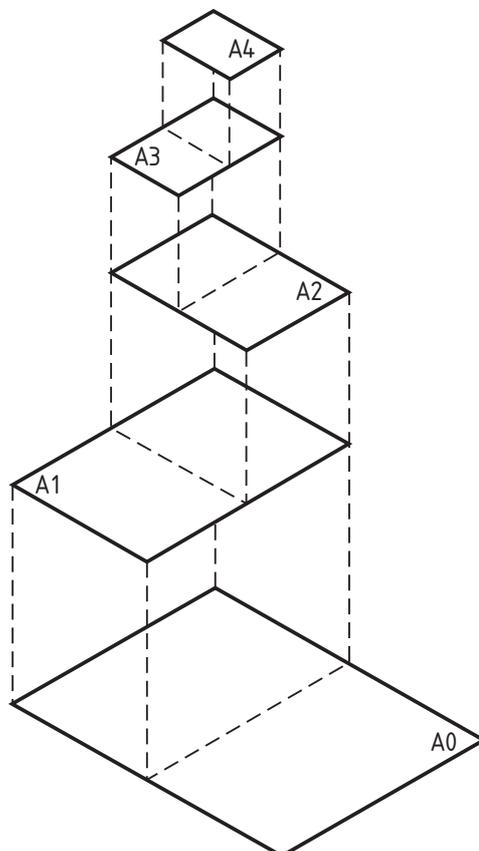


Figure 1: Relationship of the 'A' sizes.

A4 = 210 mm × 297 mm
A3 = 297 mm × 420 mm
A2 = 420 mm × 594 mm
A1 = 594 mm × 841 mm
A0 = 841 mm × 1189 mm

The sides of all sheets are in the ratio 1:√2.

A0 is normally 1 m² in area and forms the basis of the series

1.3 Title block

The title block for paper sizes A0 to A3 should be situated in the bottom of the sheet and extend to the lower right-hand corner of the frame. Only sheets positioned horizontally (landscape) are permitted for these formats. For A4 size paper the title block may be situated as above (A0 to A3) or can be situated in the shorter (lower) part of the drawing space. Only sheets positioned vertically (portrait) are allowed for this format. The direction of reading of the drawings is equal to that of the title block.

Drawings should include the following basic information in the title blocks:

Mandatory information (recommended characters)		
Legal owner (unspecified)	Date of issue (10)	Identification number (16)
Sheet number (4)	Title (25)	Approval person (20)
Creator (20)	Document type (assembly, subassembly, detail, etc.) (30)	

Optional information (recommended characters)		
Revision index (2)	Number of sheets (4)	Responsible department (10)
Document status (20)	Paper size (4)	Technical reference (20)

1.4 Borders and frames

Borders enclosed by the edges of the trimmed sheet and the frame limiting the drawing space should be provided with all sizes. The border should be 20 mm wide on the left edge, including the width of the frame. It can be used as a filing margin. All other borders are 10 mm wide (see Figure 2).

1.5 Drawing formats

Drawing sheets may be produced in two formats. Portrait format is intended to be viewed with the longest side of the sheet vertical (see Figure 3a). Landscape format is intended to be viewed with the longest side of the sheet horizontal (see Figures 3b–3d).

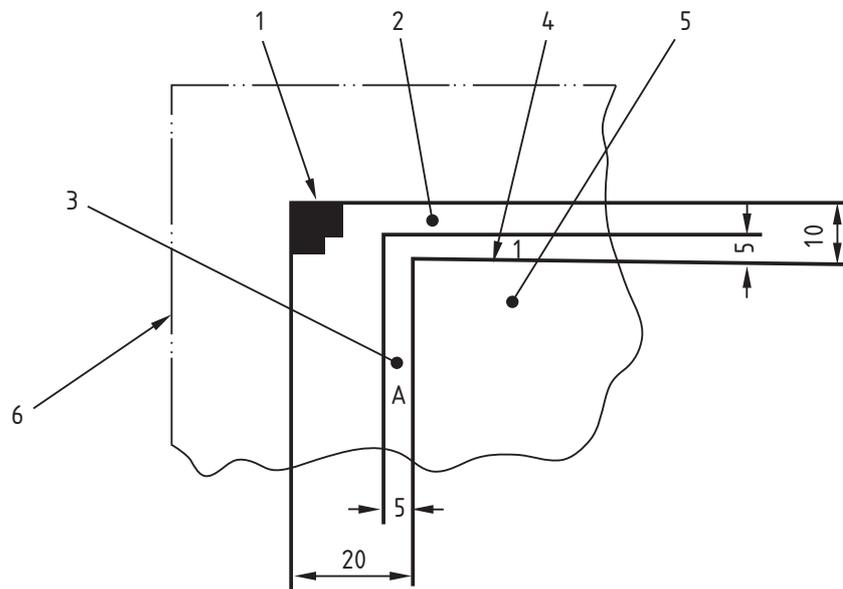


Figure 2: Borders

Key:

- 1 Trimming mark
- 2 Trimmed format
- 3 Grid reference
- 4 Frame of drawing space
- 5 Drawing space
- 6 Untrimmed format

Dimensions in millimetres

1.6 Types of drawings

There are different types of drawings, two of which, detail and assembly type drawings, are shown in Figure 3.

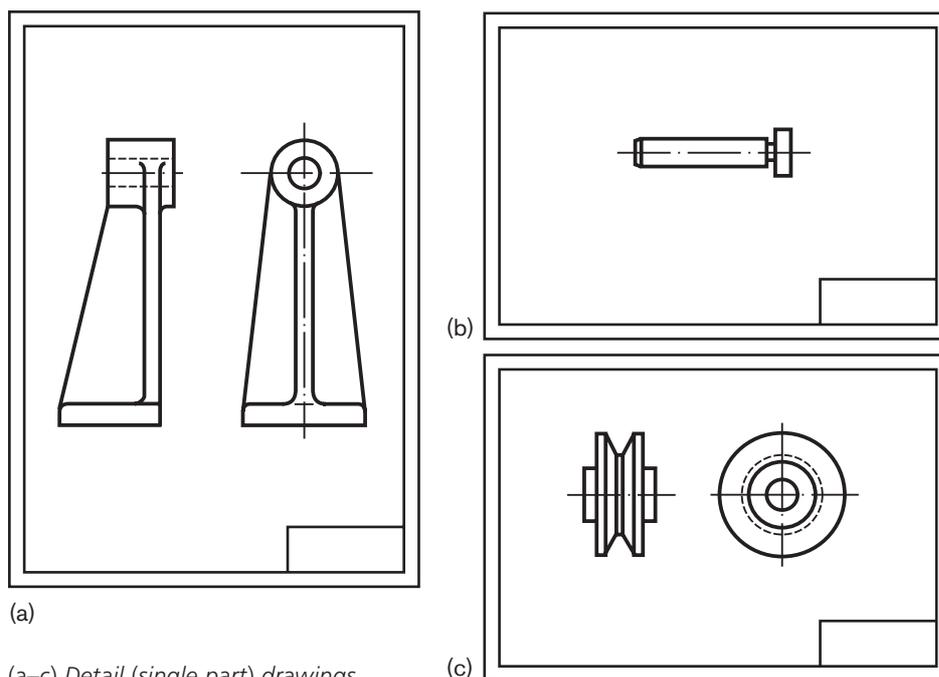


Figure 3: Types of drawings

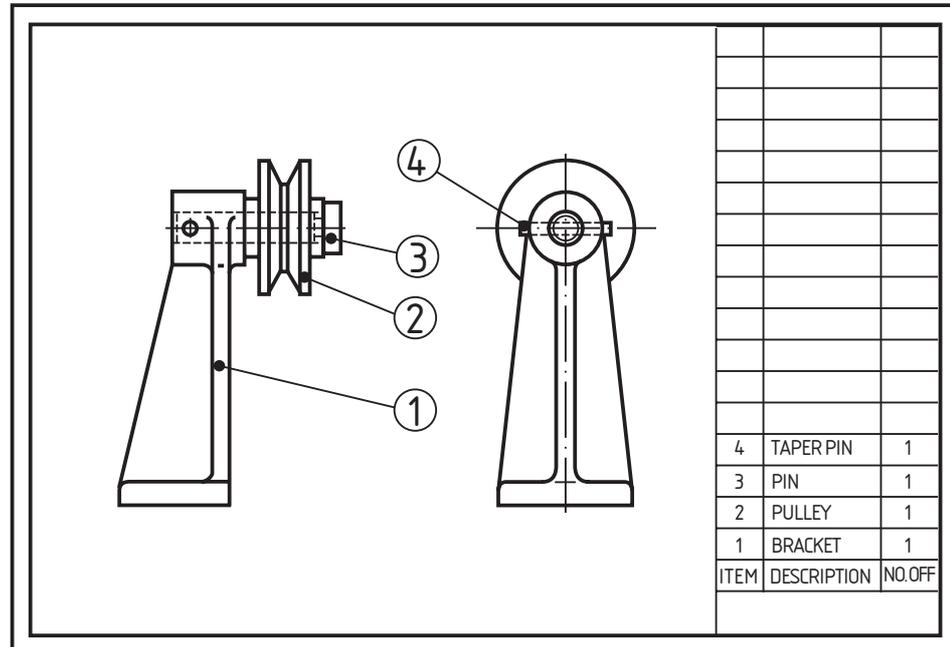
(a)

(a–c) Detail (single part) drawings

(b)

(c)

Figure 3: Contd



(d) Assembly drawing

Note. In the case of Figure 3(d) a composite drawing is illustrated, i.e. an Assembly and Parts/Item list combined. A Parts/Item list is generally produced as a separate document.

There are commonly two types of lists, document list and Parts/Item lists, that accompany an assembly drawing and associated detail drawings. In general, both lists should be clearly identified as being associated with the assembly drawing.

A Document or Drawing List should consist of a list of drawings and specifications references, which are required to build or manufacture the product.

A Parts/Item List should consist of a list of the physical parts and quantities required to assemble the product.

Note. For further information on item referencing, see Clause 9.

1.7 Marking

Technical Product Documentation (TPD) or Technical Product Specification (TPS) prepared in accordance with the requirements of BS 8888 should be marked with the number of the standard, i.e. BS 8888, in a prominent location.

Note. The marking of TPD with 'BS 8888' constitutes a claim that the appropriate requirements of all relevant cross-referenced standards, in addition to the requirements directly stated in BS 8888, have been met.

If the TPD or TPS has been prepared using the independency system of tolerancing (see Clause 14, Tolerancing), the mark identifying the number of this standard shall be supplemented by the letter 'I' contained within an equilateral triangle, as shown in Figure 4.



Figure 4: Method of indicating that the independency system of tolerancing has been used

If the TPD or TPS has been prepared using the dependency system of tolerancing (see Clause 14, Tolerancing), the mark identifying the number of this standard shall be supplemented by the letter 'D' contained within an equilateral triangle, as shown in Figure 5.



Figure 5: Method of indicating that the dependency system of tolerancing has been used

Relevant standards	Title
BS EN ISO 5457	<i>Technical product documentation — Sizes and layout of drawing sheets</i>
BS EN ISO 3098-0	<i>Technical product documentation — Lettering — Part 0: General requirements</i>
BS EN ISO 5455	<i>Technical drawings — Scales</i>
BS ISO 7200	<i>Technical drawings — Title blocks</i>
BS ISO 10209-1	<i>Technical product documentation — Vocabulary — Part 1: Terms relating to technical drawings general and types of drawings</i>
BS ISO 7573	<i>Technical drawings — Item lists</i>
BS 8888	<i>Technical product documentation (TPD) — Specification for defining, specifying and graphically representing products</i>
Associated clauses	Title
Clause 2	Scales
Clause 3	Projection
Clause 4	Lines and terminators
Clause 9	Item references