

Importance of technical drawing in clothing production

Technical drawing is a means of communication between a designer and a producer. Based on this simple definition, technical drawing is important in engineering because it is a language without border among designers and technicians or teachers in the clothing production/manufacturing line in engineering and technical fields.

It is important because it simplifies their jobs using 3D and 2D drawing and sketches.

Many of the symbols and principles of technical drawing are codified in an international standard called:

- ISO 128
- ISO 129



What is a Sketch?

Sketch is done by freehand drawing that is not usually intended as a finished shape of clothing. A sketch may serve a number of purposes: It might record something that the fashion a designer sees;

- It might record or develop an idea for later use;
- It might be used as a quick way of graphically demonstrating an image of product, idea or principle.

What is a Specification Sheet in Fashion?

A garment specification sheet is a technical document that contains an accurately drawn of flat form, and technical specifications of the product (instructions an measurements).

This information is needed to produce garments to the required standard design.

Technical drawing shows the exact design and details such as the position of a pocket, buttons, label and so on.



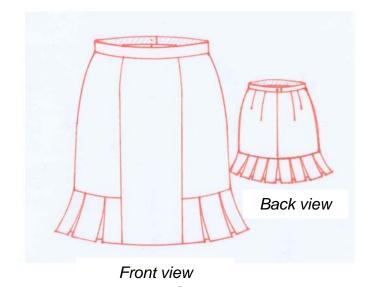


Display example

Sketch



Fashion technical sketch



Semestrální práce: Kovaliková Lívia 2010





Type of lines for technical drawing in pattern making procedure

You can use different shapes and line types in different thicknesses in the chart

•	Solid line	
_	D 1 11'	

- Dashed line _____
- Dotted line
- Dotdash line ______

Recommended thickness ratio: (used in mechanical engineering) 1: 2: 4)

Lines	Line thickness ratio
Ultra thick	1,0
Very thick	0,5
Thick	0,25



Technical Drawing

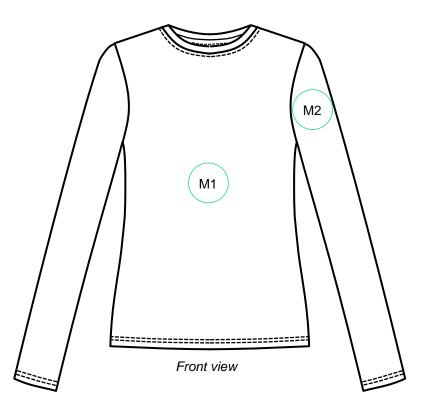
Display example

Ultra thick solid line	 Contour lines used to represent feature e.g. a outer line of a pattern piece edge.
Thick solid line	 Contour lines used to represent feature e.g. a styling line
Thin solid line	Constructional lines (net), auxiliary lines, extension line, dimension line
Ultra thick dashed line	 Contour lines used to represent feature e.g. a invisible outer line of a pattern piece edge
Thick dashed line	 Contour lines used to represent feature e.g. a invisible styling line
Thick dotdashed line	 Lines or set of two perpendicular lines used to represent a median feature, e.g. an axis or centre plane
Thin dotdashed line	 Lines or set of two perpendicular lines used to represent a styling procedure, e.g. an axis or centre plane

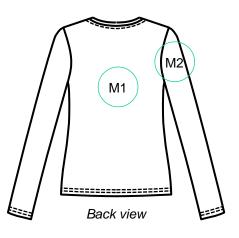


Display example

Fashion technical sketch of T-Shirt



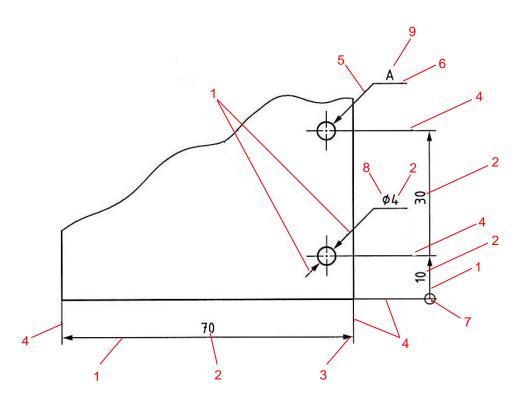
Fabric (Clothing material)			
	Double jersey č.1		
N44	Weight: 190 [g/m ²]		
M1	Colour: Pantone 19-0323		
	CHIVE		
	Double jersey č.2		
M2	Weight: 188 [g/m ²]		
	Colour: Pantone 13-0822		
	SUNLIGHT -		





Elements of dimensioning

Various elements of dimensioning



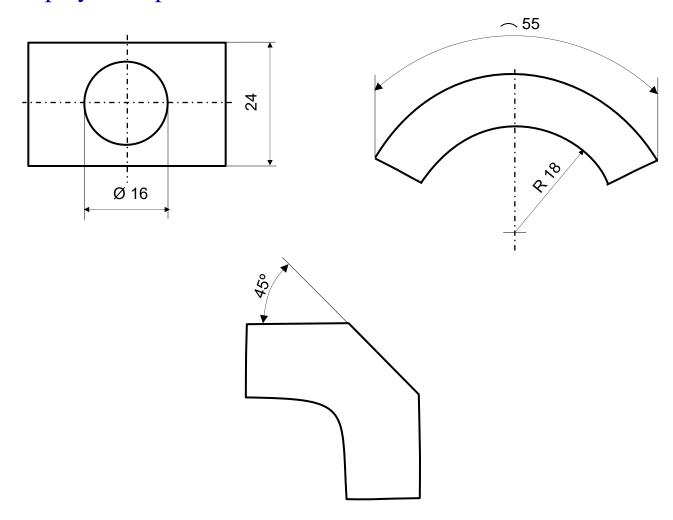
Key:

- 1 dimension line
- 2 nominal dimension value
- 3 terminator
 (in this case, an arrowhead)
- 4 extension line
- 5 leader line
- 6 reference line
- 7 origin symbol
- 8 property indikator (e.g. Ø as a Diameter, R as a Radius)
- 9 reference letter



Technical Drawing

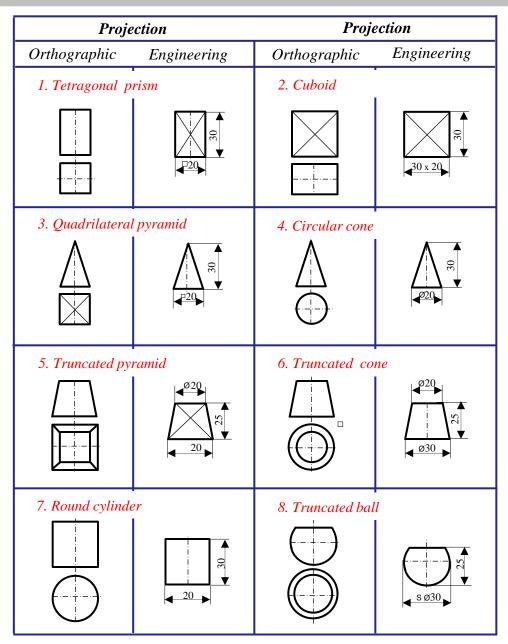
Display example





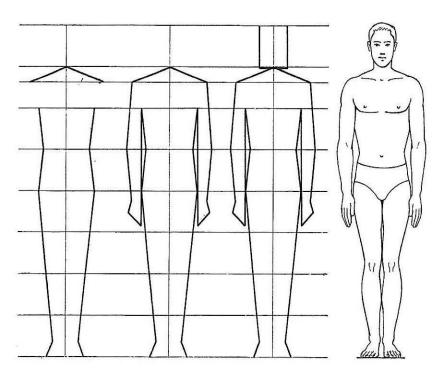
Technical Drawing

Basic geometric shapes and bodies

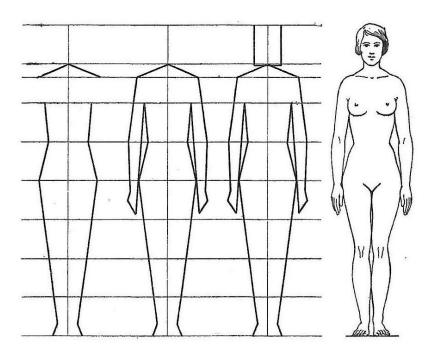




Drawing a human figure



The procedure of drawing a male figure according to the octave system



The procedure of drawing a female figure according to the octave system



References:

- [1] ŠVERCL, Josef. *Technické kreslení a deskriptivní geometrie. Praha:Scentia, 2003. ISBN 80-7183-297-9.*
- [2] VRBA, Václav. Odborné kreslení a střihy. Praha: SPN, 1970.
- [3] ISO 129-1:2018 Technical product documentation (TPD) Presentation of dimensions and tolerances Part 1: General principles. ISO/TC 10, 2018.