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Technical Drawing - Sectional Views

A Guide to the Production & Interpretation of Drawings to
BS8888



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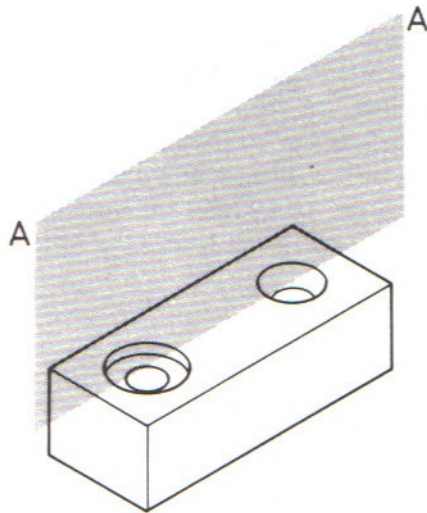


Introduction

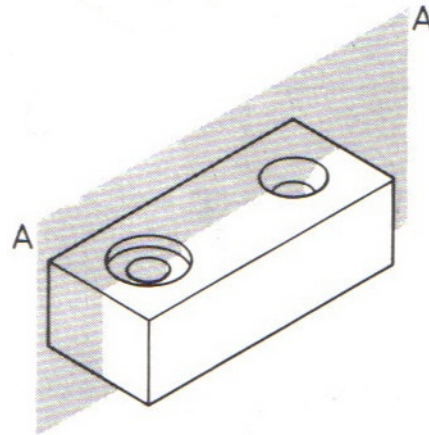
- Sectional views are an important part of many engineering drawings
- Sectional views or sections are drawn to show the shape of internal parts of components in orthographic projections

Example 1

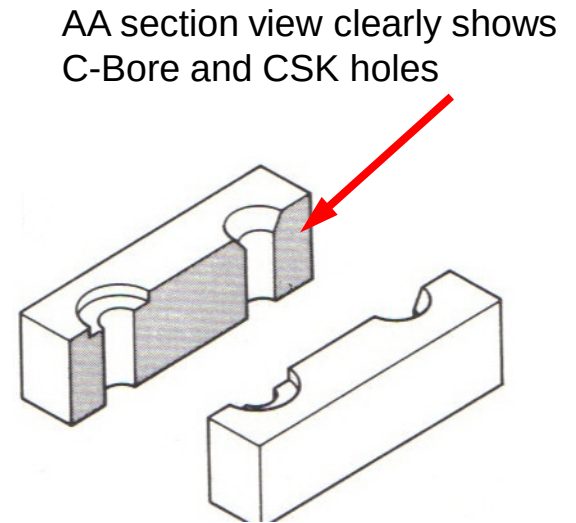
A Rectangular Steel Bar



AA Plane positioned above the part



AA Plane passing through the centre line of the part



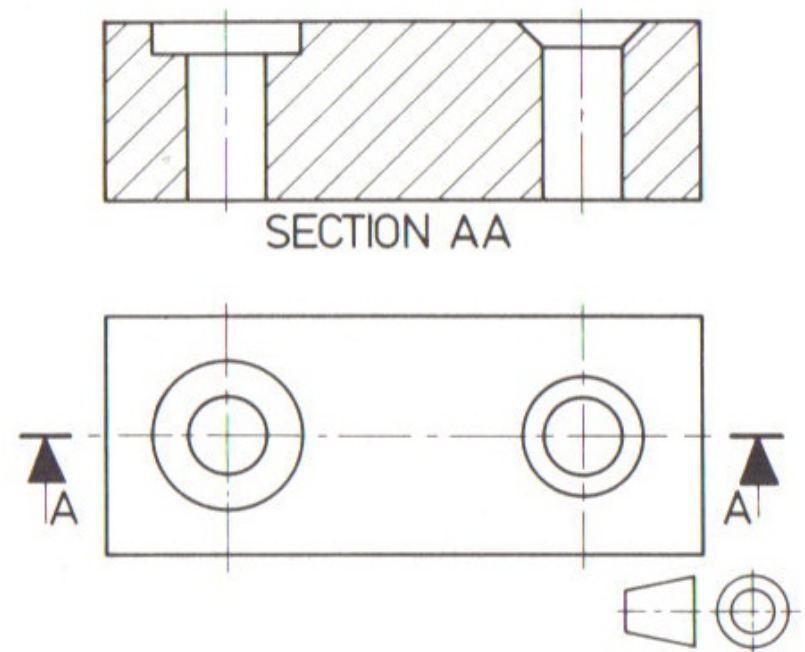
The two halves shown apart

Example 1

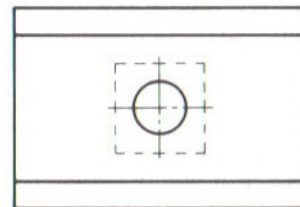
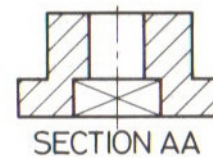
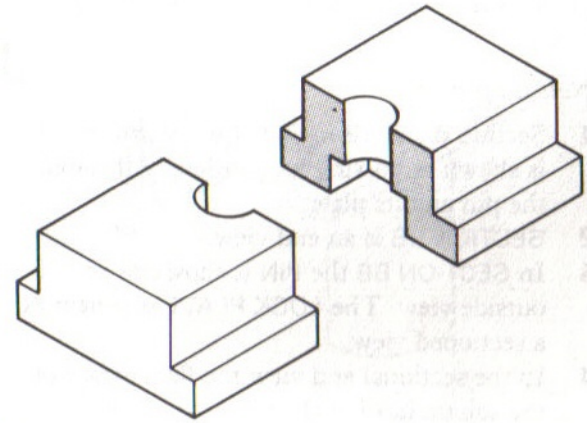
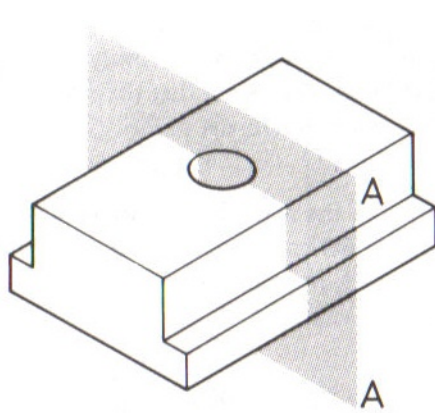
A Rectangular Steel Bar

Note the following:

- The edge of the section plane is shown by a thin chain line with thick lines at each end
- The direction of viewing is clearly shown by arrows touching the thick lines
- The section plane is labelled at each end and is known as section AA
- All outlines of the sectional front view are thick lines
- The surfaces cut by the section plane are shown by thin lines at 45° spaced at about 4mm apart. These lines are hatching lines
- The sectional view is labelled SECTION AA
- A section plane is regarded as having no thickness



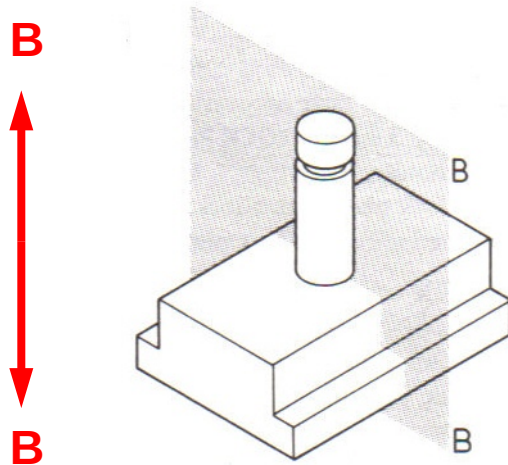
Outside Views within Sections



Outside Views within Sections

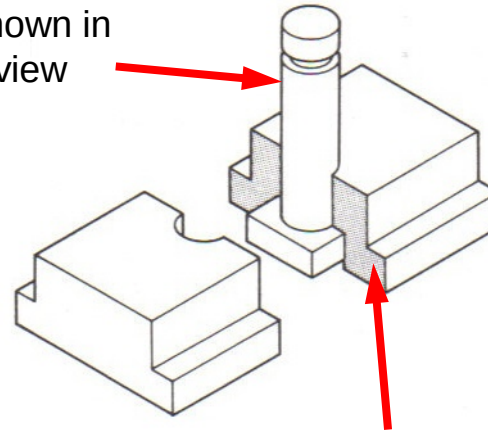
- Some parts of sectional views should be shown by outside views within the sectional views
- The general rule is that longitudinal sections, bolts, shafts, spokes of wheels, ribs and the like, should be shown by outside views
- This rule only applies to sections taken along the length (longitudinally) of such features
- In sections taken across bolts, shafts, spokes of wheels, ribs and the like, such features are shown in section and should not be outside views

Outside Views within Sections



Section BB lies in the same orientation as the central axis which runs through the pin

Pin is shown in outside view



BB Section view is shown for the plate

