

First or Third Angle?

Mechanical Engineering

The two projection conventions, and how to tell which one you are reading.

First angle

- Standard across Europe and Asia
- View projected past the object
- Right side view goes on the left
- Top view goes below the front view

Third angle

- Standard in North America
- View projected onto a glass box
- Right side view goes on the right
- Top view goes above the front view

THE DIFFERENCE THAT MATTERS

Neither is better. The truncated cone symbol in the title block tells you which.

Reading a drawing in the wrong convention mirrors the part. Check the symbol before you scale anything.