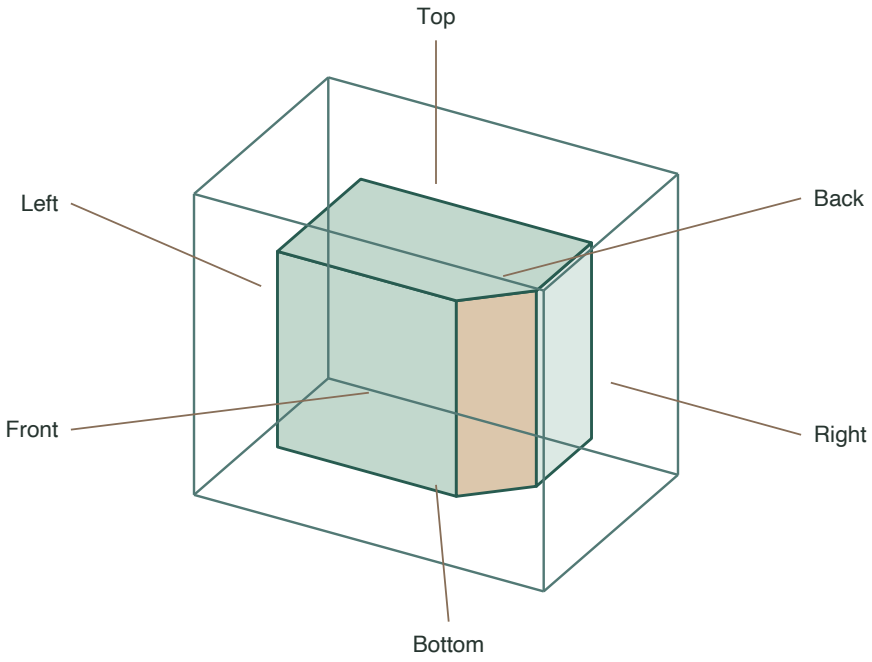
Glass Box Orthographic Projection

Reference | Six projection planes | LETTER

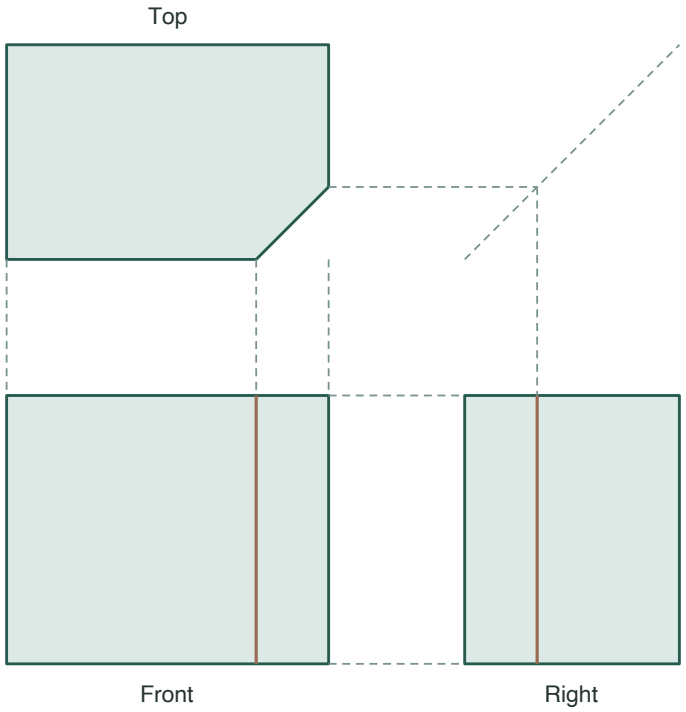


Glass Box Orthographic Projection

Reference | Worked chamfer | LETTER

Original prompt

Construct the unfolded glass-box layout for a rectangular block with one vertical corner chamfered on the front-right edge. Show the front, top, and right views in their unfolded positions with alignment lines.



Answer

The top shows a diagonally clipped corner. The front and right each retain a rectangular outline and a vertical bevel boundary. Align the appropriate endpoint of the top diagonal to the feature line in the front and transfer the other endpoint's depth into the right view.

Reasoning

The chamfer runs vertically. A top projection keeps the diagonal in the footprint. A front or right projection drops one horizontal coordinate and keeps height, so the bevel boundary appears vertical.

Check

Check that the front and top share widths and the right and front share heights. The diagonal belongs only to the top. In the side views the projected bevel joints are upright.