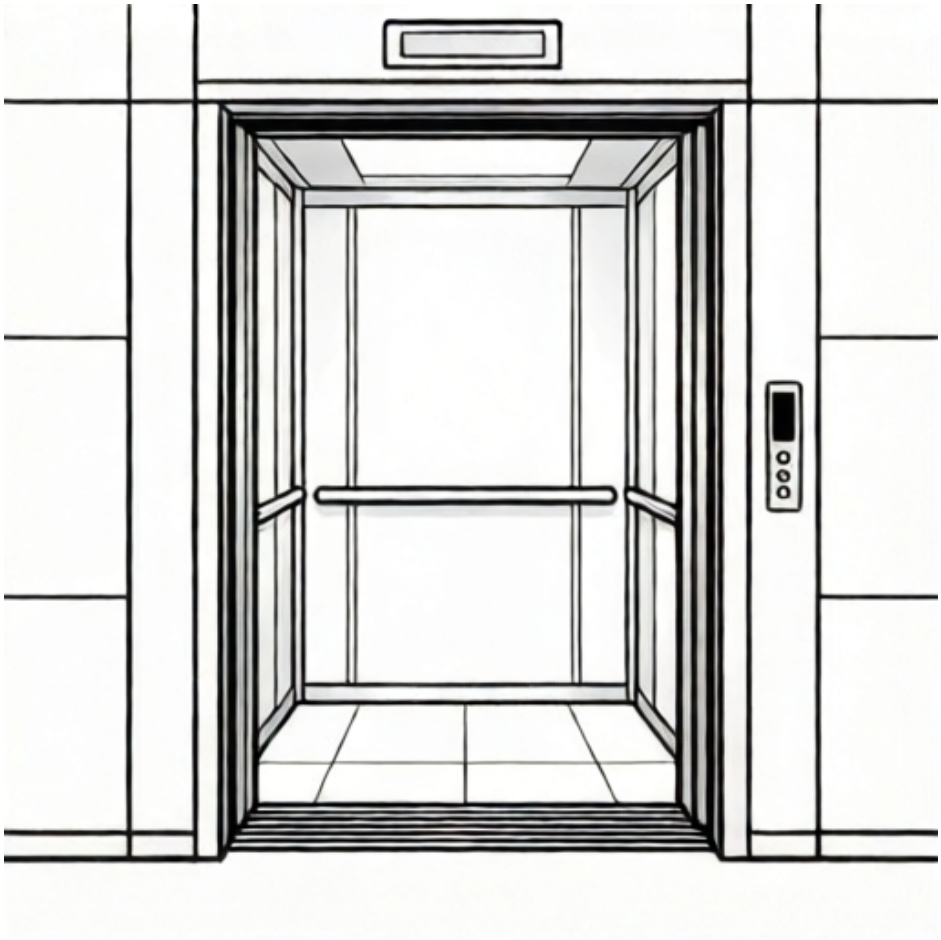
Draw an Elevator Cab with Open Doors and Floor Lines

Ordinary topic reference / separately checked pixels



Draw an Elevator Cab with Open Doors and Floor Lines

Original worked example / unchanged complete key

Prompt: Draw a front-view elevator cab with open doors and parallel floor lines. Use a cab frame 12 cm wide and 9 cm tall, a door opening 6 cm wide centered in the frame, and five floor lines spaced 1 cm apart. State your convention.

Answer: Convention: parallel floor lines, baseline to midline equals cab height. Draw a 12 by 9 cm cab frame. Mark a baseline at the bottom and a midline 9 cm above it. Center a 6 cm door opening, leaving 3 cm side walls on each side. Draw two vertical door-frame edges at the opening. Add a threshold on the baseline. Draw five parallel floor lines from the threshold to the back wall, spaced 1 cm apart. Draw two open door panels as angled rectangles at the sides of the doorway. Erase guides and darken the final lines.

Reason: The centered door opening leaves equal side walls, which makes the cab read as a room rather than a flat rectangle. Parallel floor lines are a stated convention, so they are consistent. The threshold on the baseline keeps the floor level. The open door panels are angled to show the opening clearly.

Check: Measure the cab frame and door opening with a ruler. Confirm the door opening is centered and the side walls are equal. Check that all five floor lines are parallel and spaced 1 cm apart. Confirm the threshold lies on the baseline and the door panels do not cross the opening.