

Experiment 5: Preparing Plan, Elevation, and Section of a Load-Bearing Residential Building

Objective:

To draft plan (top view), elevation (front view), and section (cut view) of a simple load-bearing wall residential house.

Software/Tools Required:

- AutoCAD
- Laptop/PC

Theory:

Provide theoretical background relevant to the task, including commands and standards.

Procedure:

1. Draw exterior and interior walls using line and rectangle tools.
2. Position doors and windows using blocks.
3. Mark dimensions and levels.
4. Draw elevation showing doors, windows, and exterior finish.
5. “Cut” a section to show wall thickness, floor, and roof.
6. Annotate all important parts.
7. Save as “Load_Bearing_Residential.dwg”.

Results:

Attach a printout of the completed drawing here.

Conclusion:

Summarize the skills learned and their applications in civil engineering.