

THESIS DESIGN
LOADBEARING STRUCTURAL PART

Basic principle:

The technical description of the loadbearing structural system of the building, the loadbearing structural sketches (plans), the preliminary design calculations and drawings of the appointed structural parts are indispensable annexes of the diploma projects of all students of architecture.

1. Technical description of the loadbearing structural system

The technical description should contain argumentation concerning the subsoil conditions of the site, choice of the structure, the loads, the applied material qualities and the planned construction technology.

2. Sketches of the loadbearing structure (structural plans)

Scale of the drawing should be such that the presented structure or detail can clearly be understood. Adequate number of sections or details should be made if needed. Dilatation joints, arrangement of the stiffening system, elements of the vertical loadbearing members, spanning directions of the horizontal loadbearing system, eventual overspanning structures and beams should be indicated.

3. Preliminary structural design calculations: determination of approximate dimensions of the characteristic members of the loadbearing structures. In case of more specialized structural solutions determination of dimensions can be made by using data taken from the special literature.

4. Detailed static calculation and project of some interesting structural members. Here the basic principle is that all structures can be pointed out which are familiar to the student from structural education. (Special structures can be pointed out only if the student is ready voluntarily to make its calculations.)

Static calculations and projects to be submitted are appointed by the consultant of the Department. The latest date of appointing of the tasks should be 3 weeks after the acceptance of the preliminary project. The quantity of work should be as much that the technical description, calculations and drawings together should be at least 14 to 16 A4 format pages. The structural part of the diploma project should be annexed documented in separate dossier.

Before submission of the project the consultant proves that he/she had followed the development – by the student – of the thesis design project by signing the consignment sheet of paper.

The submitted project and calculations are evaluated by the member of the Department who is present on the presentation of the diploma project.

Budapest, 2011

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