

Summary

This project consists of a detailed study of four buildings belonging to the seat of the People's Assembly in Sougueur wilaya of Tiaret Composed as follows:

Building 01 and 02: (block A1 and A2) basement + ground floor + current floor.

Building 03 and 04: (block B1 and B2) basement + ground floor + current floor.

This study consists of four parts:

The first part: it is the general description of the project with a presentation of the aspect architecture of the elements of the seat, then the presizing of the structure and finally the lowering of loads.

The second part: was devoted to the secondary elements (the staircase, beams, slabs full, the acroter and the elevator).

The dynamic study of the structure: was started in the third part by Autodesk Robot Structural Analysis Professional 2011 and ETABS 2009, in order to determine the different loads due to permanent, operating and seismic loads.

The last part: includes the reinforcement of the different resistant elements of the structure (foundation, posts, beams).

This, taking into account the recommendations of the revised BAEL91 99 and the regulations Algerian seismic screens RPA 99/2003.

Keywords: Siege, concrete, ETABS 2009; Autodesk Robot Structural Analysis Professional 2011; RPA 99/ version 2003; BAEL 91 revised 99