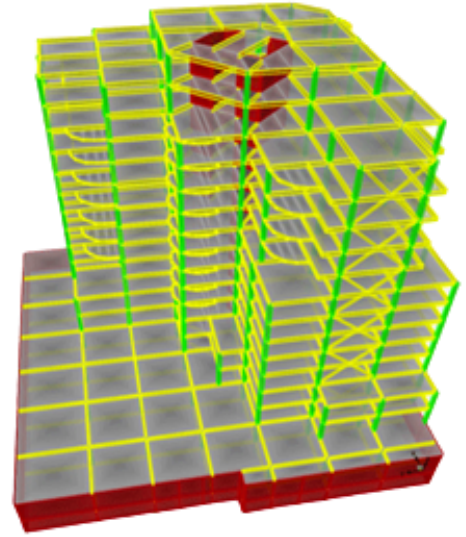


LOADING, ANALYSIS AND DESIGN

Once the modeling stage is completed and load patterns are defined, ETABS automatically generates and assigns code-based loading conditions for gravity, seismic, wind, and thermal forces. Users can specify an unlimited number of load cases and combinations.



The analysis capabilities of the program allow to evaluate various structural systems under static or dynamic conditions. Among the various analysis that can be carried out are modal analysis, response spectrum, time history, among others.

In the same way, linear and non-linear analyzes can be performed. Nonlinear analysis is used to consider geometric and material nonlinearity. The P-delta analysis is of particular interest since it considers geometric nonlinearity.

After performing the analysis and defining an envelope with the load combinations, ETABS will allow the design of the elements. This fast and interactive process allows the user to optimize the structure according to the desired performance measurements.