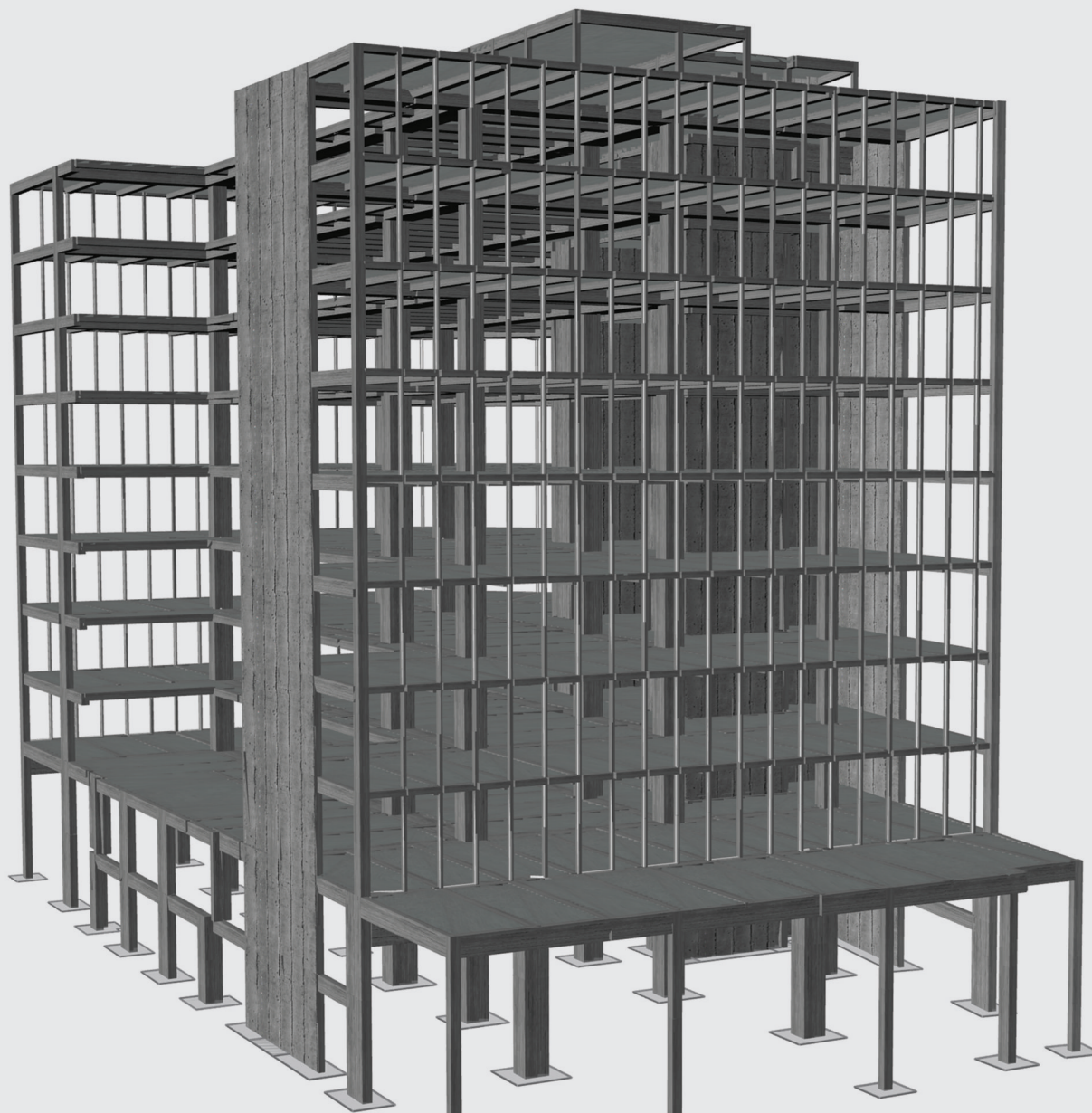


Seismosoft in brief

Founded in 2002, Seismosoft provides the earthquake engineering community with access to powerful and state-of-the-art analytical tools, such as SeismoBuild, SeismoStruct, SeismoSignal, SeismoSelect, SeismoMatch, SeismoArtif, SeismoSpect and FRP Designer.

With more than 1000 software license requests per month, and users in thousands of international academic/research institutions and practicing companies in more than 110 countries worldwide, Seismosoft is now recognised as a leading enterprise in this field. Seismosoft provides the full spectrum of earthquake engineering stakeholders, tools and methods that feature not only technical excellence but also efficiency and user-friendliness.

Ultimately, we hope to somehow contribute, even if modestly, to the continuous search for higher mitigation of the risks that earthquakes pose to humankind.



SEISMOBUILD



How to Contact

Up to date Seismosoft contact details are always available on our website at

www.seismosoft.com



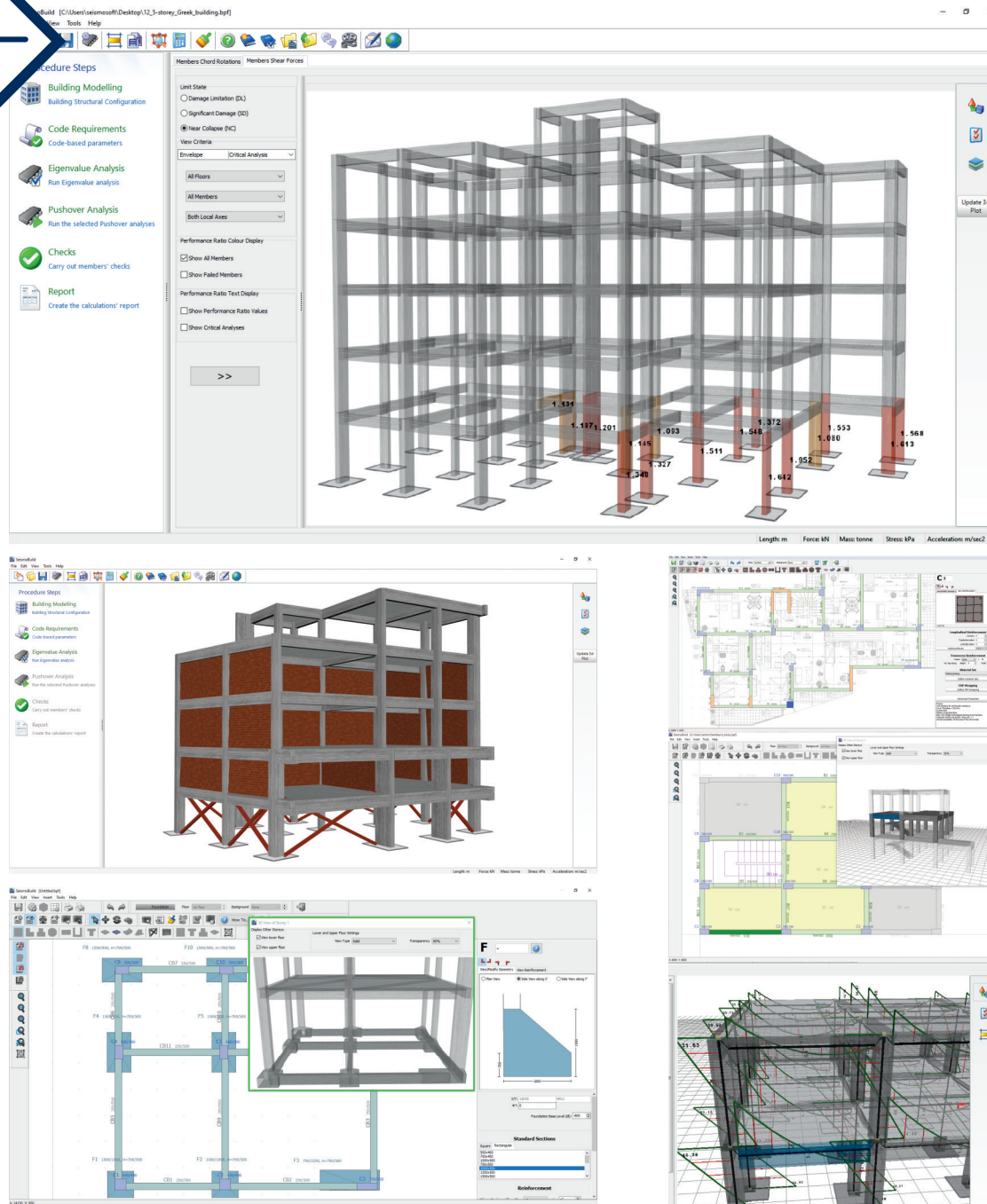
<https://seismosoft.com/blog/>

Advancing seismic assessment
and strengthening of buildings



SeismoBuild

is an innovative Finite Element package wholly and exclusively dedicated to seismic assessment and strengthening of reinforced concrete structures. The program is capable of fully carrying out the Code defined assessment methodologies from the structural modelling through to the required analyses, the corresponding member checks and the creation of the technical report and the Cad drawings. Different Codes are supported (Eurocode 8 and the Eurocodes framework, American Code for Seismic Evaluation and Retrofit of Existing Buildings ASCE 41, Italian National Seismic Code NTC-18, Greek Seismic Interventions Code KANEPE, Turkish Seismic Evaluation Building Code TBDY).



- ✓ Based on the B.I.M. (Building Information Modelling) philosophy
- ✓ Completely visual interface and easy CAD-based input with the floor's plan view as background
- ✓ Creation of regular or irregular 3D reinforced concrete models within minutes
- ✓ Very smooth learning curve. It does not require specialized knowledge on nonlinear FE
- ✓ Predefined built-in cross-sections for both existing and strengthened (jacketed) members
- ✓ Strengthening with Fibre-Reinforced Polymers (FRP) wraps; a large library of existing FRP materials is available
- ✓ Strengthening with steel braces of different configurations (X-braces, V-braces or diagonal braces)
- ✓ Easy modelling of infills, automatic calculation of their strength
- ✓ Simple foundation modelling
- ✓ Straightforward definition of code-based parameters
- ✓ Large library of nonlinear models for concrete and steel materials
- ✓ Numerical stability and accuracy at very high strain levels. Smart subdivision of the loading increment, whenever convergence problems arise
- ✓ Automatic calculation of the target displacement
- ✓ Detailed and intuitive presentation of the analytical results; tables, charts, 3D plots and AVI movies with the illustration of the sequence of structural deformation and damage are available
- ✓ Capacity checks in chord rotation, bending moment, shear, interstorey drift and for the beam-column joints are available for all the limit states
- ✓ The checks presented on a table and on the 3D plot with different colours for easier identification of the damage
- ✓ Detailed technical report in PDF, RTF or HTML format
- ✓ CAD drawings with plan views, members' cross sections and reinforcement tables