

AMQUAKE



Software for Design of Masonry Buildings according to Eurocode 6 and 8.

AMQUAKE program allows European engineers to design safe masonry buildings in seismic regions in accordance with the latest European standards and modern seismic assessment methods. The introduction of Eurocode 6 and 8 in March 2010 in the European community requires to verify almost all new masonry buildings for seismic safety. In the future, this will guarantee safer buildings for the population, but introduces higher demand and more work for engineers today.

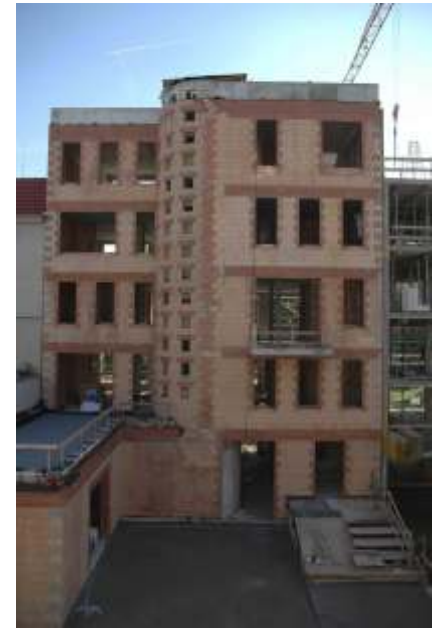
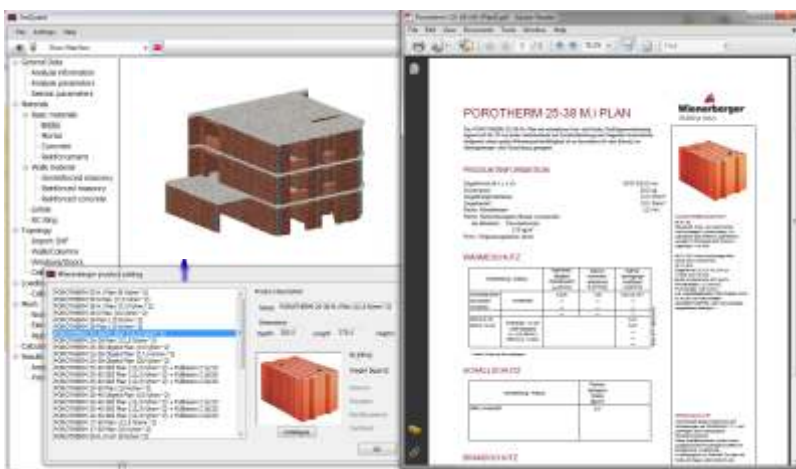


Photo courtesy of M.Doubrava, Wienerberger AG

AMQUAKE helps engineers to make these newly required safety checks quickly and effectively while using the modern verification methods. AmQuake is based on pushover analysis and equivalent frame method. Recent research by the University of Pavia, showed that this approach has the highest potential for utilizing the full structural capacity.



Wienerberger products with all necessary dimensions and material properties.

Order AMQUAKE at www.amquake.eu only **390 EUR**.

Hardware and system requirements:

The program works on any standard Windows compatible PC with at least 1GB RAM, 100 GB HD and CAD compatible graphic card. The supported operating systems are Windows XP, Vista, Windows 7. An internet connection and a compatible USB memory stick with at least 200kB of free space is required for the activation of the program licence.

National localizations:

- | | | |
|----------|----------------|----------|
| Austria | Czech Republic | Romania |
| Belgium | France | Slovakia |
| Bulgaria | Germany | Slovenia |
| Croatia | Hungary | Greece |

The program **AMQUAKE** was developed in a close cooperation between Cervenka Consulting Ltd. (Prague, Czech Republic) and Wienerberger AG (Vienna, Austria).

The program includes a database of

AmQuake analysis process can be summarized into the following steps



CAD drawing modification

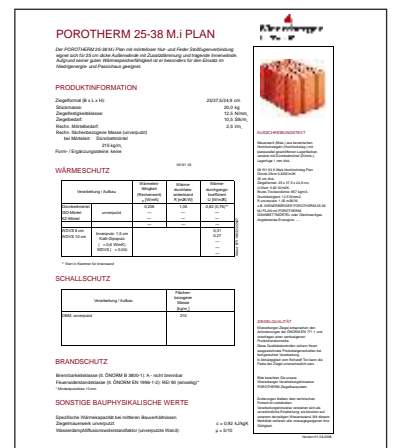
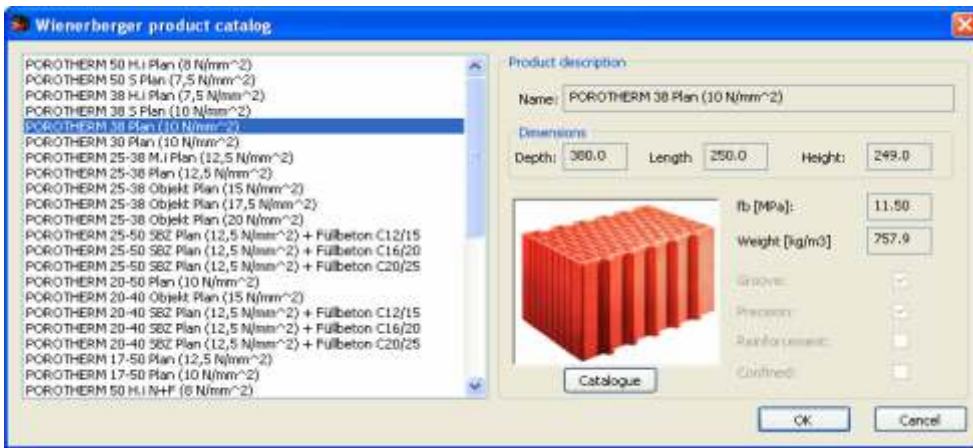
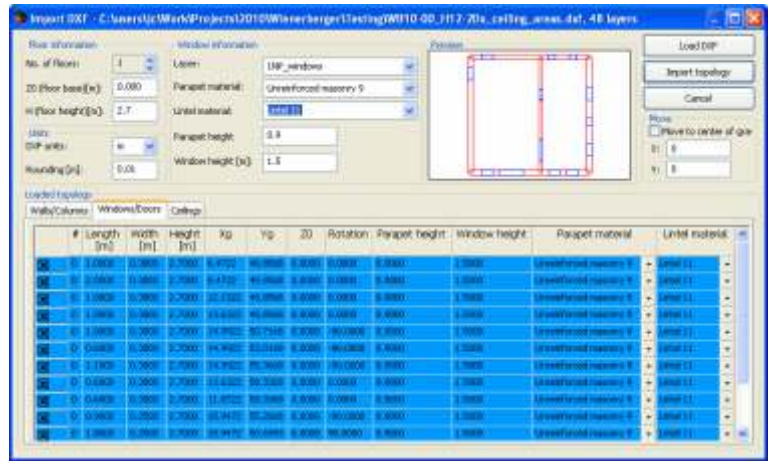
Use your favourite CAD program to mark walls and windows to be used in the seismic verification.

DXF import

Import the plan for each floor to quickly generate a full model of the building.

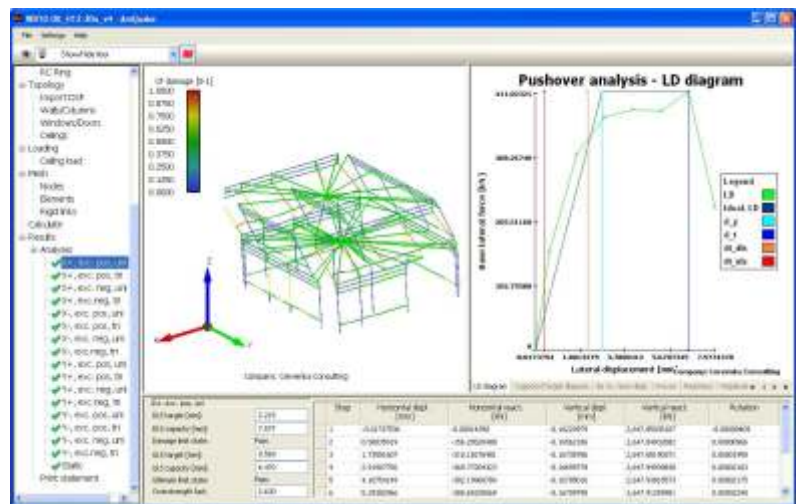
Brick choice

Select your masonry units from the catalogue of Wienerberger products.



Loading definition

Specify the load for each ceiling as well as roof.



Analysis

Program automatically performs all the necessary checks according to the Eurocode 6 and 8.

Protocol printout

AMQUAKE automatically creates an analysis protocol in rtf format that can be directly inserted into your project documentation.

