



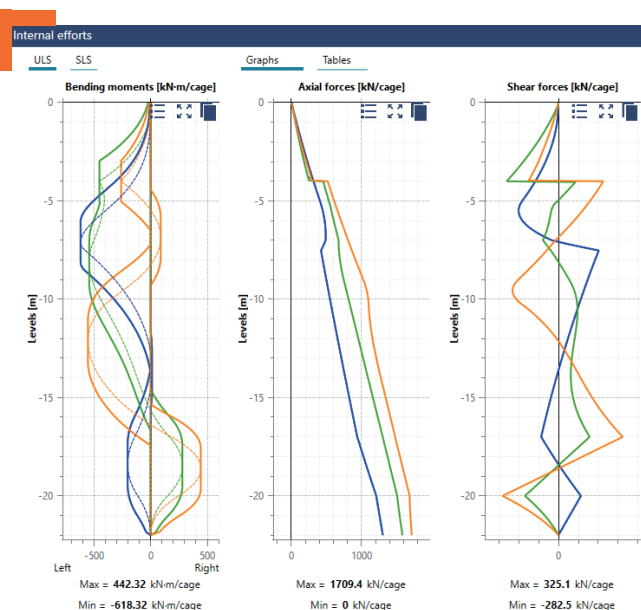

Scage

Scage is a calculation software dedicated to the **structural analysis of reinforced concrete retaining walls**

Structural analysis of retaining walls

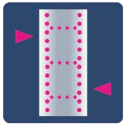
Scage is a design tool for the internal balance of reinforced concrete retaining walls in accordance with **Eurocode 2** (French and Belgian annexes) and the French national application standard of Eurocode 7 (**NF P 94-282**) :

- Verification of existing steel sections and design of new steel sections
- Calculation of the required **longitudinal steel sections** from the diagrams of internal forces N, V, M
- Calculation of the required **transverse steel sections** from the diagrams of internal forces N, V, M
- Hyperbolic behaviour law for concrete and bilinear behaviour law for steel (horizontal or inclined piecewise)
- Parameterisation of **partial factors** for all load combinations



Key features

- Calculation of the **allowable stresses** of the materials
- Exhaustive and automatic generation of the **envelopes of the internal calculation effort diagrams** (from a preliminary calculation under K-Réa for example or imported from an Excel file)
- Exhaustive generation of the envelope of the bending moment diagram from the **offset rule**
- Reinforced concrete calculation for **single bending** and **compound bending**: treatment of partially and fully compressed sections as well as in pure traction
- Calculation of required **minimum steel sections** of steel
- Consideration of different permissible steel stress zones for the SLS over the height of the wall (**cracking control**)
- **Integrated and independent reinforced concrete calculator** to quickly check individual sections outside of the project being treated

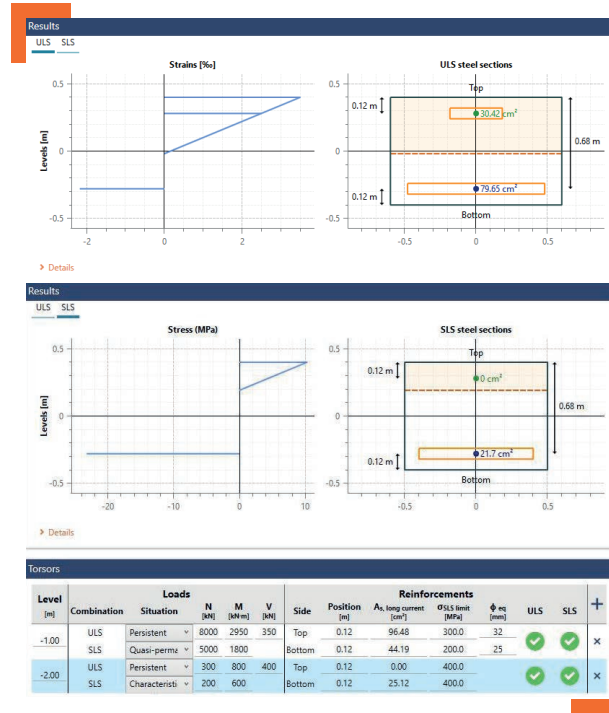


Scage

Structural analysis of reinforced concrete retaining walls

Transparent tool for the user

- Graphs and tables can be exported to the clipboard and to Excel
- Possibility to access the **intermediate results of any reinforced concrete calculation**
- Representation of the **ULS deformation diagram** and **SLS stress diagram** of each section
- **Detailed printout report** after calculation
- Detailed user manual and scientific manual



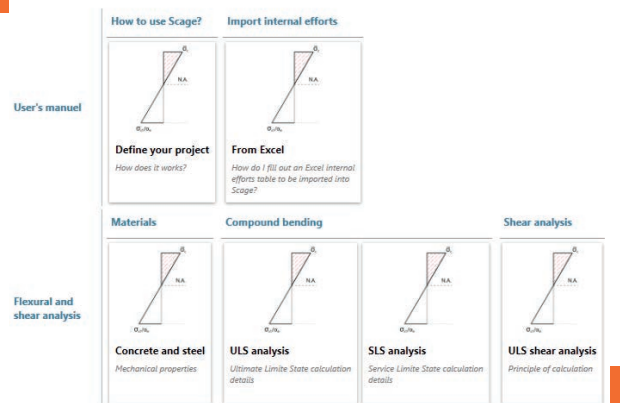
MINIMUM HARDWARE REQUIREMENTS

PC-compatible computer with :

- Intel® or AMD® 64-bits processor 2 GHz
- 4 GB RAM - 512 MB VRAM
- 1366x768 resolution
- USB port
- 500 MB free hard-disk space
- Windows® 7/8/10 - 64 bits



Documentation



A user-friendly interface

- **Flexible management of several scenarios** to examine different solutions
- **Synchronisation with the results** of the K-Réa or Excel calculation
- Possibility to work with **unit length of a wall** or on the **width of a reinforcement cage**
- Integrated **data validation** system
- Possibility to work in metric system or imperial system