



Talren v5 new features

Already available in Talren v5



New user-interface: more user-friendliness and full robustness.

Browsing through the user-interface is easier:



- All data can be viewed and edited through the main window:
 - Permanent display of the cross-section on the left side, and of input/output data on the right side;
 - Global tree view to access the data / objects (geometry, soil properties, loads, reinforcements) and the construction phases.



- Optimised drawing tools:
 - Zoom (and de-zoom) using the mouse wheel;
 - Snap to grid points and to existing objects.

Data input is easier:



- New predefined sets of safety factors corresponding to French application standards of Eurocode 7 are included.



- New wizards and help pictures (for reinforcements for instance).



- Improved definition of distributed loads:
 - Free placement of distributed loads along the slope boundary (regardless of existing geometry points along the slope boundary);
 - Overlapping of loads is now possible.



- Automatic activation of the external phreatic line if any (by default).



- Coordinates of points may be defined down to the mm (instead of cm).

Improved data checks:



- "Wrong" data get highlighted; explicit display of errors (or inconsistencies) according to 3 levels of severity:
 - Errors (🚫);
 - Warnings (⚠️);
 - Information (💡).



- "Undo" function always available (with access to the history of project actions).



- In case you get an error message, ability to send directly an email to the hotline with the error message and the log file.

Improved calculation efficiency:

- Calculation is quicker (optimisation of the access to the calculation kernel).
- More accurate follow-up of the calculation progress (gauges for the progress of the current task and for the global progress).

Import of files and data:

- Import of AutoCAD geometries (dxf format).
- Import of Plaxis project files (from v8 to PLAXIS 2D 2012): loading of the geometry, soil properties and pore pressures mesh.
- Loading of Talren 4 and Talren 97 project files.

Printings:

- Generation of a single report file (one single pdf file).
- Print preview available.

Protection:

- Possibility to update USB dongles by email (in order to add more licenses on a network key, or to change the license included on a local key).

Will be later available in Talren v5
(free update from Talren v5 first version)



Display of pore pressures shadings (when loading a pore pressure mesh).



Incremental loading: possibility to change the load values in the construction stages (no need to deactivate a load and replace it with another one anymore).



Yield design method: automatic search of XF value corresponding to $F = 1,0$.



Increase of the number of calculation points along soil nails: it will allow for a more precise calculation, which is especially useful when modelling stiff inclusions.



Calculations according to reliability theory: Talren v5 will include a new module allowing for a sensitivity analysis as well as a reliability analysis according to Response Surface Method (evaluation of the probability of failure of the structure).