![Deltares]

Release notes

D-Sheet Piling 18.2.1.20477

17-04-2018

New features

MSH-2811	Verification (only the Dutch annex, not CUR): according to the new norm NEN9997-1+C2:2017 november 2017 a factor on representative values of moments, displacements and anchor stresses can now be set for each factor set of EC7 NL. The defaults of these factors are in accordance with the norm.

Fixed bugs

MSH-2783	A zero reduction factor EI was accepted in the Sheet Piling window, leading to a division-by-zero error in the calculation (a check was added).
MSH-2765	In Surcharge window, the name "D-Sheet Piling determined" (Verification) is not completely visible (column to narrow).
MSH-2767	The probability of failure given in the shprob file was different from the one in the report.
MSH-2777	For long anchorage, the name "Characteristic anchor long anchorage" in tab "Charc. Kranz ..." is not correct because word strength is missing (type fixed).
MSH-2778	The warning on the bottom of the Sheet Piling Profiles Library window was partly overlapped by the buttons.
MSH-2785	The maximum point resistance could be zero (in the Sheet Piling window). The user should be forced to fill in a reasonable value here before closing the window.
MSH-2786	The status bar of the calculation progress window fails to notify of any warnings, in some cases, after the calculation ended.
MSH-2796	It was not checked whether the file is saved prior to the calculation.
MSH-2799	During the iterations of a reliability analysis, the progress bar moving back and forth.
MSH-2802	The Results menu was disabled after performing a reliability analysis with Dutch local settings (error in parsing the dumpfile).
MSH-2803	Report: The maximum displacement was not always correctly signified in the Overview per phase (in the bottom line and printed in bold).
MSH-2804	In the Calculation window, the tab for a reliability analysis was visible in models without the option Reliability analysis.

Improvements

MSH-2780	When steel profiles are imported from the Sheet Piling Profiles Library, the selected steel quality appears in the profile name.
MSH-2793	The input unit weight of water is now properly validated in order to prevent a division by zero.
MSH-2809	Vertical Balance: the warning message in the case the resultant force goes up has been improved.
MSH-2813	Report: the width of the stage name column in some tables has been increased to support longer stage names.
MSH-2776 & MSH-2779 & MSH-2798 & MSH-2814	In the Standard calculation, the input of Manual earth pressure coefficients (lambda) has been improved and made more robust.

- Writing of .shl file is ONLY triggered from the Fictive Earth Pressure Coefficients window (the editor), accessed from the Standard calculation tab with Manual earth pressure coefficients
- If Manual earth pressure coefficients is selected, any calculation started without opening the coefficients editor uses the exising .shl file (a message if reading failed and an abort of the calculation).
- Upon closing the editor again, the input is checked for completeness. A message box is shown notifying the user of incomplete input and the editor remains active.

User manual

MSH-2818	The change to the norm (MSH-2811) was documented:

- The partial factors on representative values are mentioned under 36.2.4 (EC7 NL) and their defaults are listed.
- The screendump in figure 4.3 of the User Defined Partial Factors, tab "EC7 NL" has been updated as well as the describing table.

Verification report

MSH-2819	A benchmark was added (4-23h) to test the effect of the user-specified factor on the representative values in an EC7 NL verification (MSH-2811).

Common files

MSH-2854	Update of CPTip dlls for creating a profile from gef file in DSheetPiling.