

Release notes

D-Sheet Piling 20.2.1.30962

10-09-2020

Fixed Bugs

MSH-3661	For Vertical Balance in combination with Verification, the partial factor on constructive load was not applied on the normal force (Known issue).
MSH-1925	Incorrect fictive earth pressure coefficients (Culmann method) were calculated for small elements of the sheet piling (less than 2 mm). And the hydrostatic pressure determined during the calculation of the fictive earth pressure coefficients was incorrect (not 0 at phreatic level).
MSH-2046, MSH-3677	In the <i>Moment/Force/Displacement Charts</i> , the envelop of the maximum moments between all design approaches including factor on effect of loads (red line) is not displayed anymore because the factor on the effect of loads is applied directly on the moment and force charts (when relevant, i.e. EC7-BE and EC7-General DA 1 set 1 and DA 2).
MSH-3579	An incorrect message about wall instability was given whereas it concerned a numerical instability of the calculation.
MSH-3713, MSH-3738	An Access Violation error was displayed when opening the Report if the name of the soil material contained an accent.
MSH-3717	In Soil Materials window, the shell factor was not visible for the Manual option of the Earth pressures coefficients whereas it is used.
MSH-3558 MSH-3612 MSH-3531	In the Summary chapter of the Report, several bugs have been solved: <ul style="list-style-type: none"> – In table "Anchors and Struts", an incorrect state of the anchor was given – Unstable stage was not mentioned for a Standard calculation – When a calculation step didn't converge, the results of the step was per mistake displayed in the table "Anchors and Struts".
MSH-3671, MSH-3672	– In tables "Anchors and Struts" and "Supports", unstable steps/stages were not correctly handled.
MSH-3684	For method B, some stages could appear as not verified instead of unstable.
MSH-3571	The content of table "Anchors and Struts" was incorrect when an anchor and a strut have the same name.
MSH-3742	Drawing of normal forces was confusing (no distinction between negative and positive forces) because the absolute value of the force was used.
MSH-3614	An unexpected error message was displayed when opening old files (made with version 9.2 and 9.3).
MSH-3687	An unexpected error message "Invalid floating point operation" was displayed for Single Pile and Brinch-Hansen method if the surface level didn't coincide with the top level of the soil profile.

MSH-3560	During a Single Pile calculation, an unexpected error "Cannot create dump-file" was displayed if the height of the pile was 0.
MSH-2083	An unexpected error message "Invalid floating point operation" was displayed during a "Settlement by vibration" calculation if the calculated point is not in the ground.
MGEOLIB-908	The warning message displayed when opening old files is corrected. It no longer assumes that an old file was made with version 17.1.
MGEOLIB-921	The Send button in the Support dialogue does now work for Windows 10.
MGEOLIB-941	The "Send to" option in the file menu has been removed.
MGEOLIB-978	Message that was given when common files is not installed, was not correct.
MINSTALL-901	Installer used wrong folder when reinstalling the examples.

Improvements

MSH-2801	For a Verify Sheet Piling calculation with method B, the representative class (SLS situation) is added to the current possible class (RC0 until RC3).
MSH-3681	The criterion for the validation of the results for Single Pile loaded by calculated soil displacements (based on method "De Leeuw") is improved. The limitation is now less strict.
MSH-3554	For Eurocode 7-BE and Eurocode 7-General, the results of calculation type SLS are added in the Report-Summary-Supports table.
MSH-3638	It is now possible to input several normal forces in the same phase (not only one).
MSH-3660	In all windows under Loads menu, set that the value is a characteristic value in case of a Verification calculation.
MSH-2829	In the "Select from CUR 166 Table" window available from the Soil Materials, a note above the table is added explaining what kind of values this table contains.
MSH-3663, MSH-3658, MGEOLIB-951, MGEOLIB-957, MGEOLIB-960, MGEOLIB-963, MGEOLIB-969	License structure has been changed: within a application there are no longer modules, all released features are now available for all users. The new License tab is adapted to the new licensing structure (including borrowing).
MINSTALL-897	The installer now gives a correct error message when the common files are missing or too old.

User Manual

MSH-3695	The User Manual is updated for removing modules.
MSH-3692	The number of input files for Tutorial 17 is increased to fully describe all the cases.
MSH-3771	The criterion for invalid horizontal displacements has been updated.
DGS-672, DGS-673, DGS-674	Small corrections (such as updates for hyperlinks and addresses).

Verification Report

MSH-2223	Benchmarks 4-25 and 4-26 (testing a verification calculation with Eurocode 7-BE) are extended with method A and B.
MSH-3702	New benchmarks (4-41a to c) are created to test the SLS class of EC7-NL / CUR with method B (MSH-2801).
MSH-3574	New benchmarks are created to test the basis step for CUR-step 9.1 during a Eurocode 7-NL calculation (MSH-3564).
MSH-3557	The results of benchmark 4-15 are corrected.