

Release notes

D-Sheet Piling 19.1.1.23942

11-03-2019

New features

MSH-2898 to MSH-2903 MSH-3112	For a <i>Reliability Analysis</i> using the <i>Anchor force</i> as limit state, the allowable anchor force can be automatically calculated using the Kranz method. New sheet piling profiles of the societies Meever&Meever and Intra B.V. have been added in the <i>Sheet Piling Profiles Library</i> .
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Fixed bugs

MSH-2988	Unexpected warning or/and error message(s) were displayed in the <i>Report</i> (Known Issue).
MSH-2946	During a calculation with the Dutch Eurocode EC7-NL and class RC3, an incorrect factor of 1.2 was applied on the support force instead of 1.35 (Known Issue).
MSH-2889	In some cases, the combination <i>Characteristic Kranz Anchor Strength</i> with <i>Vertical Balance</i> option could lead to an error message "Access violation" (Known Issue).
MSH-2887	The unit weight of water was always equal to 9.81 in the User Interface (Known Issue).
MSH-2933	In the Loads menu, the option "Earth Quacke", where an earthquake force could be entered, is not available anymore because it is still in development (Known Issue).
MSH-2891	In <i>Report</i> after a Verification calculation, the State of the anchor (Elastic or Yielding) in the <i>Summary</i> table was not always correct.
MSH-3011	In <i>Report</i> after a Verification calculation according to EC7-BE or EC7-General DA 1, the content of the <i>Overall Stability</i> chapter was incomplete (only set 1 was displayed) and the picture was wrong.
MSH-2917	Got an unexpected error "All derivative are zero" during a probabilistic calculation and the calculated probabilistic parameters CFIX4 and CFIX2 didn't vary during the iterative process.
MSH-2919	During a probabilistic calculation with <i>Anchor force</i> as limit state variable, the decisive stage given in the <i>Report</i> was incorrect (always 0).
MSH-2987	In case the maximum allowable moment was exceeded, a warning message was not always displayed in the <i>Report</i> .
MSH-3123	The maximum moment of Arcelor profile PAU 2240 with steel quality S235 has been corrected in the library (is now 84 instead of 54 kNm/m).
MINSTALL-542 & MINSTALL-754 MINSTALL-809	ServiceTool: Minor bug fixes. Fixed issue that borrowing is not possible for all applications if a local license is present.

Improvements

MSH-3113	During a verification calculation, the determination of the retaining height is improved: the level used at active side is the top level of the sheet piling instead of the deepest surface level.
MSH-3081	In the <i>Report</i> and in the <i>Charts</i> after a verification calculation according to the Eurocode 7 (General or BE), the results per stage at Serviceability Limit State are now available.
MSH-2916	For a verification calculation including the overall stability check, the D-Geo Stability file created after exportation can be read with the last version of D-Geo Stability (18.1).
MSH-3025	In <i>Design Sheet Piling Length</i> , for CUR and EC7-NL, the calculation type used for the design is specified (step 6.3).
MSH-2923	Some AZ, PU and GU profiles of Arcelor in the Sheet Piling Profiles Library are defined as out of production.
MSH-3046	When opening the <i>Sheet Piling Profiles Library</i> from the <i>Sheet Piling</i> window, the profile and the quality of the actual profile is automatically selected if present in the library (instead of AZ13).
MSH-1445	In the <i>Soil Materials</i> window, for a <i>Single Pile</i> loaded by calculated displacements, the name of the layers has been changed into <i>Stiff top layer</i> , <i>Elastic layer</i> en <i>Stiff foundation layer</i> .
MSH-2851 & MSH-2961	The tab order in <i>User Defined Partial Factors</i> window is improved.
MSH-2918	Input of negative surcharge load is not allowed anymore.
MSH-2862	In <i>Report</i> section <i>Calculation Options</i> , a note has been added for CUR calculation explaining that the modification of the phreatic level does not apply when the sheet piling is completely submerged.
MSH-3013	In <i>Report</i> section <i>Calculation Options</i> , a note has been added for a verification calculation explaining that the partial factor applied on the delta friction angle is the same as on tangent phi.
MSH-1396	The input data for <i>Pile top displacement</i> and <i>Passive side</i> have been added in the <i>Report</i> .
MSH-1917	The results of 'Settlements during removal sheet pile' and the 'Total settlements (installation + removal)' for <i>Settlements by Vibration</i> have been added in the <i>Report</i> .
MSH-2998	The text in the <i>Settlement by Vibrations Charts</i> was not translated.
MGEOLIB-911	In <i>Report</i> window, the left alignment of the sentences is improved.
MGEOLIB-910	In <i>Report Selection</i> window, add the possibility to use automatic text or user defined text for the <i>Page number</i> text.
MINSTALL-808	ServiceTool: Added possibility to filter the available licenses (All, Server or Local licenses).
MINSTALL-672	ServiceTool: Version number is now shown for each entry in the license overview.
MINSTALL-752	ServiceTool: More information is provided when no license file is found.
MINSTALL-794	ServiceTool: Made manuals available through <i>Help</i> menu.
MINSTALL-420	Improved error messages when no license is found.

MINSTALL-816 & MINSTALL-835	<p>ServiceTool: Improved the tool so it can handle the situation better when multiple licenses are available on the system:</p> <ul style="list-style-type: none"> • Improved view of treeview: show all server and local licenses. • Improved display of used/available licenses when using multiple license files.
MCI-85 & MC-86 & MCI-89	<p>Improve determination of effective stress in CPTip dll's (tool for the interpretation of CPT).</p>

User manual

MSH-2915	<p>A note has been added in chapter "Overall Stability" and in paragraph "Limitations" explaining that the effect of anchors/struts is not taken into account during the check of the overall stability.</p>
MSH-2938	<p>Figure 4.35 "Secant definition of stress-displacement diagram (CUR 166)" has been updated.</p>
MSH-3018	<p>Equations referring to the Boussineq theory have been improved.</p>
MSH-3077	<p>The description of the additional modules has been improved.</p>
MSH-3143	<p>Some explanations on the effect of the sign of the delta friction angle on the passive and active earth pressures coefficients have been added for Culmann, Muller-Breslau and Kotter (paragraphs 30.2.1, 30.2.2 and 30.2.3).</p>

Verification report

MSH-3152	<p>The input of benchmarks 4-19 until 4-28 (and therefore the output) has been changed by using the left side as passive side for stage 1 in order to avoid incoherent input.</p>
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