

## Release notes

### D-Sheet Piling 19.3.1.27104

08-11-2019

#### *Limitation*

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MSH-3526            The *GeoBrain Drivability* options under the *Feasibility* menu are not available anymore.

#### *Fixed bugs*

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MSH-3408 &  
MSH-3440            Factor on moment(s) is not applied correctly for a verification calculation with CUR/EC7-NL and method B (Known Issue).

MSH-3432            Factor on horizontal line loads is not applied correctly for a verification calculation with method B (Known Issue).

MSH-3441            Factor on normal forces is not applied correctly for a verification calculation with method B.

MSH-3476 &  
MSH-3413            Incorrect pictures displayed in the *Report* after a Verification calculation with method B (Known Issue).

MSH-3500            After creating a sheet piling using the *Combi-wand* wizard, an incorrect modification factor is used (Known Issue).

MSH-3408 &  
MSH-3411            Access violation when opening the *Stress Diagrams* window when a Verify Sheet Piling - Method B is performed with not all stages calculated (Known Issue).

MSH-3417            For *Vertical Balance* check, in the *Report*, the contribution of the vertical balance per layer is always 0 (Known Issue).

MSH-3404            Incorrect result when a spring and a rigid support are defined at the same level in a stage (Known Issue).

MSH-3434            For a Verify calculation with EC7-NL, step 9.1 (anchor force) can give an incorrect value in some cases (Known Issue).

MSH-3544            The calculation of a *Single Pile* loaded by calculated soil displacements gives incorrect results (Known Issue).

MSH-3433            For a Verify calculation with EC7-NL RC0 and anchor, step 9.1 is never performed.

MSH-3402            In the Report, section "Supports", the name of the support is sometimes incorrect.

MSH-3501            The default value of the unit weight of water is now 9.81 (instead of 8) when the parameter Rho Water in the registry is deleted.

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| MSH-3452                                                                                                            | In the Report, the maximum value in the “Anchors and Struts” section at the beginning of the Report can be incorrect for EC7-BE and EC7-General in case the maximum force occurs for the SLS calculation.                     |
| MSH-2866                                                                                                            | Error when opening input files containing loads, supports or soil objects with very long name (about 50 characters).                                                                                                          |
| MSH-3465                                                                                                            | The value of the maximum allowable moments (Mr;d;el and Mr;d;pl) in the <i>Sheet Piling</i> window (which is automatically calculated) is not always updated. Therefore, an incorrect value is used in the Report and Charts. |
| DGS-608 &<br>MINSTALL-860                                                                                           | D-Sheet Piling does not work correctly when a dongle is inserted, while in the DS_Flex folder besides the associated dongle file also another dongle file is present for the same application.                                |
| MGEOLIB-931                                                                                                         | Made sure that when there is unsaved data, the user is always prompted to save these changes (even when Cancel was pressed when first prompted to save the data).                                                             |
| MINSTALL-866                                                                                                        | Fixed license overview when, besides the server license, one or more local dongle license files are present, but the dongle is not inserted.                                                                                  |
| DGS-608                                                                                                             | Application does not work correctly when a dongle is inserted, while in the DS_Flex folder besides the associated dongle file also another dongle file is present for the same application.                                   |
| MINSTALL-712,<br>MINSTALL-882 &<br>MINSTALL-866                                                                     | Fixed license issues when, besides the server license, one or more local dongle license files are present, but the dongle is not inserted.                                                                                    |
| MINSTALL-860                                                                                                        | Fixed license issue that modules are sometimes not available when multiple dongle files are present, but only one dongle is inserted.                                                                                         |
| MINSTALL-865,<br>MINSTALL-867,<br>MINSTALL-868,<br>MINSTALL-874,<br>MINSTALL-879,<br>MINSTALL-880 &<br>MINSTALL-881 | Fixed various issues for licenses.                                                                                                                                                                                            |

## ***New features***

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| MGEOLIB-814 | An abort option has been added to the report generator. When generating a report, you can now stop it by pressing the <i>Abort</i> button in the progress dialog. |
| MGEOLIB-827 | In the report options a new option enables you show or suppress the date/time on the front page and page footers.                                                 |

### ***Improvements***

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| MSH-3344           | The default value of the partial factor on variable unfavorable loads for DA 1 set 1 and DA 2 is changed to 1.111 instead of 1.1.                                                                                          |
| MSH-3420           | The title is not correct and the subtitle is missing when printing the <i>Stress Diagrams</i> after a verification calculation.                                                                                            |
| MSH-3528           | In <i>Wooden Sheet Piling</i> window, the unit of both maximum allowable moments (short and long term) is corrected using [kNm/m <sup>2</sup> ].                                                                           |
| MSH-3509           | When the calculation of a stage did not converged, a warning message is visible in the Charts windows and in the <i>Report</i> at the beginning of the chapter.                                                            |
| MSH-3542           | For a Verification calculation with EC7-BE and EC7-General, the SLS calculation is displayed in the "Summary - Anchors and Struts" section of the <i>Report</i> .                                                          |
| MSH-3477           | After a Verification calculation with CUR or EC7-NL and method B, the supports listed in section "Supports" of the <i>Report</i> are ordered per CUR step instead of per stage.                                            |
| MSH-3419           | The subtitle of <i>Stress State Charts</i> is missing in the Verification <i>Report</i> .                                                                                                                                  |
| MSH-3309           | The <i>Stress State Charts</i> window contains duplicated tabs after a Verify calculation.                                                                                                                                 |
| MSH-3042           | In the <i>Reliability Analysis</i> tab of the <i>Start Calculation</i> window, an Access Violation is displayed when trying to scroll.                                                                                     |
| MSH-3365           | The layout of the <i>Surcharge Loads</i> window has been improved.                                                                                                                                                         |
| MSH-3422           | Wrong layout of the <i>Soil Profile</i> window when opened from the <i>Stage Composer</i> (by double-clicking).                                                                                                            |
| MSH-3312           | In <i>Stage Composer</i> and <i>Stage Overview</i> window, selecting several normal forces is not possible anymore because it always lead to a validation error of the input.                                              |
| MSH-3306           | In <i>Stress Diagrams</i> window (for Verify calculation), the hint for Next and Previous buttons besides the calculation step are corrected.                                                                              |
| MSH-2376           | The <i>Help</i> button in the <i>Start Calculation</i> window is disabled if the User Manual is not installed.                                                                                                             |
| MSH-3431           | For CUR and EC7-NL calculations, in case step 9.1 leads to an instability of the sheet piling, this is reported in section "Error messages" of the <i>Report</i> and in section "Anchors and Struts" using the letter (A). |
| MSH-3425, MSH-3470 | The validation and the creation of the <i>Manual Fictive Earth Pressures Coefficients</i> in the <i>Standard</i> tab of the <i>Start Calculation</i> window has been improved.                                             |

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| MSH-2781             | Settlement by Vibration: The calculation of the maximum radius have been improved to get the same results as the program Trildens.                                     |
| MSH-3481, MSH-3460   | Settlement by Vibration: The results of the total settlement and settlement during removal are now written in the dumpfile.                                            |
| MGEOLIB-937          | On the front page of the report, the path indication is removed from the file name. So now only the file name itself is mentioned.                                     |
| MGEOLIB-938          | The input file is now always automatically saved when starting a calculation.                                                                                          |
| MGEOLIB-921/925      | The send button in the support dialog will now always be available to the user. When no mail client is installed, windows itself will instruct the user to install it. |
| MGEOLIB-9237         | The license system is updated and now supports borrowing.                                                                                                              |
| MINSTALL-876/877/878 | Improved borrowing of licenses.                                                                                                                                        |
| MINSTALL-888         | More elaborate error messages when a license cannot be obtained.                                                                                                       |

## ***User Manual***

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| MSH-3410 | The formula for the calculation of the passive earth pressure coefficient $K_p$ for Kotter has been corrected.                                                                            |
| MSH-3495 | Due to the resolution of MSH-3404 (see Fixed Bugs), the input of Tutorial 19 has been changed by moving the spring support 1 cm below the rigid support. This leads to different results. |
| MSH-3506 | The <i>GeoBrain Drivability</i> options under the <i>Feasibility</i> menu are not available anymore.                                                                                      |
| MSH-3527 | Tutorial 12 and all paragraphs referring to the <i>GeoBrain Drivability</i> options under the <i>Feasibility</i> menu are removed.                                                        |

## ***Verification Report***

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| MSH-2781 | Due to the resolution of MSH-2781, the results of benchmarks 4-29, 5-6, 5-8 and 5-9 have been updated.                                                                                       |
| MSH-3365 | Text in Chapter 45 and section 4.2.6 about wooden sheet piling have been improved.                                                                                                           |
| MSH-3495 | Due to the resolution of MSH-3404 (see Fixed Bugs), the input of benchmark 4-30 has been changed by moving the spring support 1 cm below the rigid support. This leads to different results. |



- MSH-3387      The figures showing the results of benchmark 4-30 have been corrected.
- MSH-3399      Benchmark 4-9 testing the effect of the acting width has been extended with case C and D to test the calculation of the *Allowable Anchor Force*.
- MSH-3518      The constants c1 to c4 in benchmark 1-1 are corrected.
- MSH-2775      Results of benchmark 4-14 (Single Pile loads by calculated soil displacements) have been updated due to the resolution of MSH-3544.