

Version 19.0

| Build | Module | Description | ID |
|----------|-----------------|---|-------|
| 03.05.19 | Design | The internal forces part from inner overpressure is included in the design values of the moments and normal forces with a partial safety factor of 1,50 according to table 12 DWA-A-161. | 13260 |
| 03.05.19 | Design | The maximum admissible steel strain is limited for thin slab-like structural members with double layer reinforcement, since the compressive zone would be too small otherwise. The limitation is required, since otherwise there is the possibility, that the tensile zone covers both reinforcement layers at the top and at the bottom. As a result, the compressive zone would only be in the area of the concrete coverage. This prevents the increase of both reinforcement layers during the design, which would lead to inefficient results. | 13256 |
| 03.05.19 | Output document | If the ground water horizons are not in the influence area of the pipe base anymore, then these are not displayed to scale in order to avoid a too high compression of the system plots. | 13257 |
| 03.05.19 | User interface | When applying user-defined traffic classes it is mandatory, that all load components (static loading, dynamic loading and impact coefficient) assigned to this class are being defined. If no specifications are made for the required values in the user interface, then these are interrogated in the calculation dialog separately for the construction and operating state. | 13258 |

Version 18.0

| Build | Module | Description | ID |
|----------|----------------|--|-------|
| 16.05.18 | Design | When generating the interface file for the design with NaZwei it could happen, that the file path was read-only (installation directory) and that this caused the termination of the design. | 12608 |
| 07.02.18 | Analyses | The favorably acting horizontal components of the standardized live loads from road, railway and airplane traffic are now also generally and independently from the embedment depth and pipe material applied. Should this approach not be wanted, then such a live load has to be generated as user-defined loading, since the horizontal loads from traffic are there zeroized by default. | 12283 |
| 07.02.18 | Analyses | Incorporation of the required modifications from the correction sheet (as of May 2017) to the DWA-A 161. | 11775 |
| 07.02.18 | Input | In the input dialog for the lateral pressure coefficients an arbitrary value between 0 and 1 is now admissible for the K2 values in the construction state as well as in the operating state. | 12185 |
| 07.02.18 | Analyses | For large steel pipes with a nominal diameter greater than DN 1600 (upper limit of the tabular values in DWA-A 161), the minimum wall thickness is set to 1% of the exterior diameter. | 12149 |
| 07.02.18 | User interface | The specification of the pipe dead load is no longer necessary. All information about the dead load of the pipes are deduced from the material unit weight and the geometry. | 12043 |

Release Notes

RTpipe - Pipe jacking



Version 17.0

| Build | Module | Description | ID |
|----------|-----------------|--|-------|
| 06.07.17 | Output document | The internal force components for overpressure inside and outside of the pipes was not issued. Its parts were, however, considered in the sum of the stress resultants. | 11574 |
| 29.03.17 | Analyses | The fatigue analysis is now also carried out for covering values, which fall below the lower limit of the DWA-A-161. This is under the precondition, that the traffic load values P_static, P_dynamic und the impact coefficient are set user-defined. | 10853 |
| 29.03.17 | Analyses | The fatigue analysis for railroad loads (LM 71) is now also carried out for the depth of cover between 5 and 10 meters. | 10610 |
| 29.03.17 | Calculation | The load proportions from large-area loads (Bulk load) are internally calculated separately and then added to the vertical earth load from natural covering in the output. The support load P0 is informatively still issued in the load assumptions. | 10854 |
| 29.03.17 | User interface | The material safeties were not saved. | 10921 |
| 29.03.17 | User interface | The partial safety factor gamma.s_fat was limited to a maximum of 1.4, instead of 2.0. | 10920 |