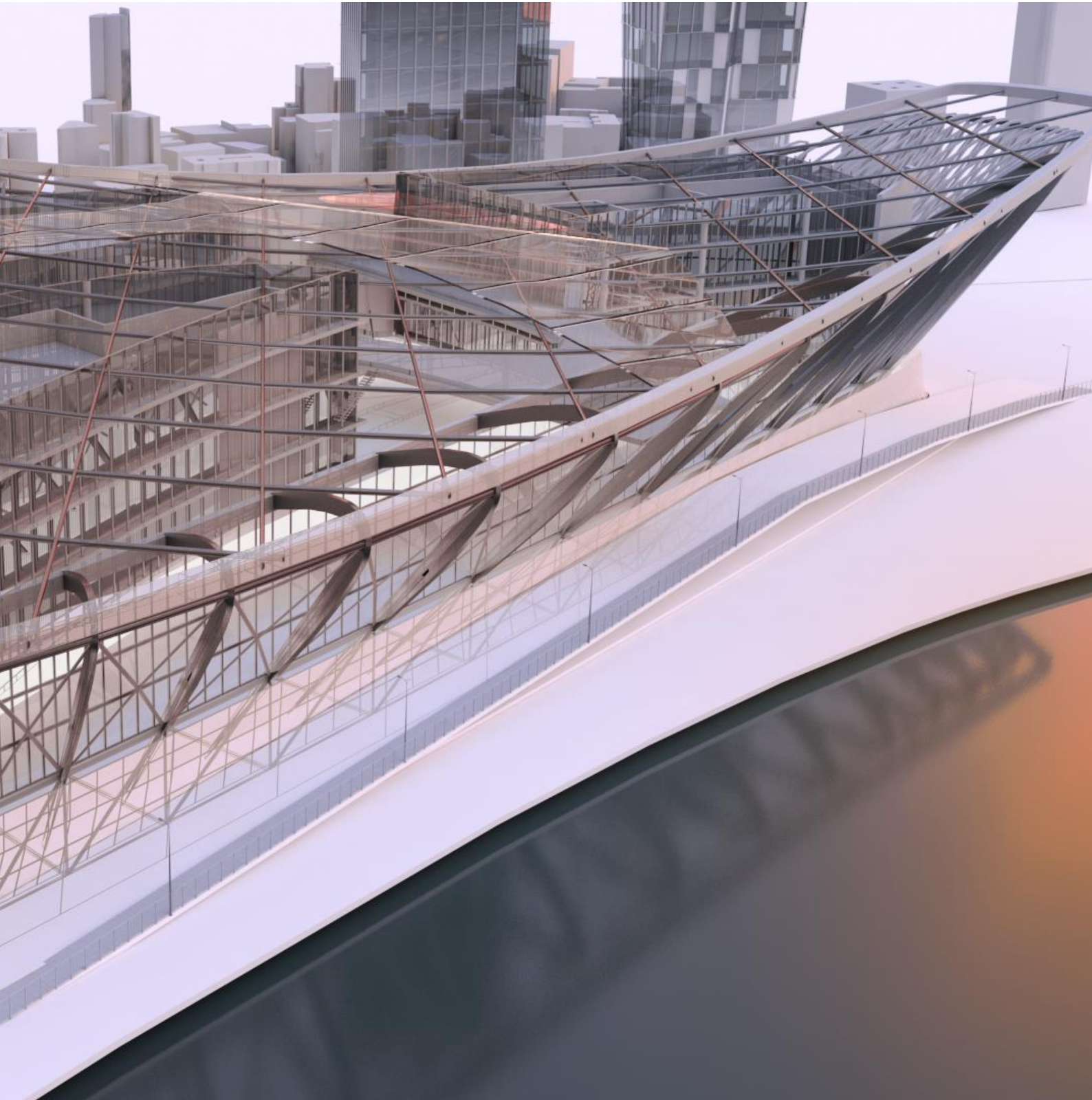


What's New



Improvements and corrections

Update 2 to Advance Design 2022 brings a set of fixes for problems in various topics that increase the stability of the program and improve the performance of selected features. **Advance Design 2022.2** includes the following corrections:

Loads

- **Fix:** Correction of the problem with non-equal lengths of zones on the circular roof for the drifted snow case. [88586]
- **Fix:** Correction of the problem with the unexpected program termination at generating traffic loads when the traffic model is set to 'gr4 – crowd loading'. [89011]
- **Fix:** Correction of the problem with generating wind forces (acc. EC1) when several load areas are defined as 'completely open'. [86927]

Steel Design

- **Fix:** Correction of the problem with inaccurate determination of the equivalent moment factor $C_{mz,0}$ for selected examples. [109720, 89308]
- **Fix:** Correction of the problem with showing on the property list the same buckling length parameters for a selection of multiple elements, even though some of the elements have different values for these parameters. [88670]
- **Fix:** Correction of problems with calculation of cold formed sections occurring during specific examples, including inaccurate calculation of extra moments used for the combined compression and bending check, appearing sometimes infinite work ratio for Z profiles. [88521, 88899]
- **Fix:** Correction of the problem with the display of different maximum work ratio values in the properties for cold-formed profiles and the shape sheet window, which occurred in special cases. [88850, 88869]
- **Fix:** Correction of the problem with not displaying a warning about not being able to automatically determine section class for user sections. [89385]
- **Fix:** Correction of the problem with displaying wrong distribution of internal forces from Advanced stability results in case of single span cold-formed beams when the section optimization was activated. [88747]
- **Fix:** Correction of the problem with wrong calculation of k_{zz} and k_{zy} coefficients for full steel profiles (round, square and rectangular) for Poland, Czech and Slovakia localizations. [89374]
- **Fix:** Correction of the problem with showing work ratios instead efforts for torsional checks (acc. EC3) on the shape sheet dialog and report. [88661]
- **Fix:** Correction of the problem with showing an error message in case of designing of class 4 sections with manually imposed section characteristics. [110460]
- **Fix:** Correction of two problems with generating imperfection load cases. The first one caused a generation of imperfection load cases for tensioned element on a particular model. The second one caused force generation for all elements and not just selected ones. [89159, 88757]
- **Fix:** Correction of the problem with the unexpected program termination when calculating deflection of a superelement if the collinear components have small geometric inaccuracies due to import from a DXF file. [88679]

Reinforcement Design

- **Fix:** Correction of the problem where planar elements are treated as primary seismic elements by default and thus, when seismic combinations are defined in the model, the minimum reinforcement area for slabs is calculated according to EC8 (eq 5.12) rather than EC2 (Eq. 9.1). Now, by default planar elements are treated as secondary seismic elements and if necessary, you can define your own limit value for the minimal reinforcement ratio. [89054]
- **Fix:** Correction of the problem where the A_y reinforcement area (acc. EC 2), in some cases, was not correctly displayed. [110370]

Other

- **Fix:** Correction of the problem with displaying as available parameters related to superelement deflection in timber element design properties (acc. EC5). [109708]
- **Fix:** Correction of the problem with not being able to set buckling parameters (braced/unbraced nodes) for timber members. [109784]
- **Fix:** Correction of the problem with unexpected program termination when generating reports for resultant forces per group in a specific example. [89057]
- **Fix:** Correction of the problem with incorrect position of the local coordinate system of the compound system if this includes steel SADEF purlin sections. [88247]
- **Fix:** Correction of the problem with unexpected program termination when displaying properties of selected loads on the command line (using Alt+D command) on the analysis model. [88758]
- **Fix:** Correction of the problem that was caused by the update of the combination definition window on the 2022.1 version, which resulted in the inability to change values from a column for multiple selected rows at the same time. Now, in a case when a column contains numeric values, you can use the copy-paste function for this purpose. In case the column contains values that can be selected from a list, you can select the value using the context menu. [88514]
- **Fix:** Correction of the problem with the lack of display of an outline of a rectangular area when using the rectangle zoom command. [88685]
- **Fix:** Correction of the problem when certain results for planar elements (F_{xz}, M_f, s_{xz}) were selected by default in the Results dialog. [88288, 110542]