Stabicad 24.04 release

Release Notes United Kingdom (UK)

Highlights of the 24.04 release

▫ The tap water circulation redimensioning calculation has been revamped!

▫ We have implemented several improvements on composite families and solving nodes for modelling a wastewater system.

Stabicad for Revit| Mechanical → Sanitary

■ **The tap water circulation redimensioning calculation has been revamped.**
The constraints minimum velocity, maximum velocity and minimum velocity circulation system have been renewed.

  ○ **Maximum velocity** has been split into: **Maximum hot water return velocity** and **Maximum velocity cold & hot water supply**

Additional information: Splitting the maximum velocity allows users to set individual constraints depending on the role the pipe plays (supply or return). The **Maximum velocity cold & hot water supply** StabiBASE setting acts as a default and can be overruled on a pipe by pipe basis in the Edit Calculation Properties dialog of pipes. The **Maximum hot water return velocity** is a system wide setting and is not present in the Edit Calculation Properties of pipes.

  ○ **Minimum velocity** has been renamed to **Minimum velocity cold & hot water supply**

Additional information: This was done to clarify that this setting is only taking into account the supply pipes and not the return ones. This also keeps the consistency with the maximum velocity constraint naming.

  ○ **Minimum velocity circulation system** has been removed

Additional information: This setting was a minimum velocity constraint that applied for all the pipes in the circulation loop including both supply and return. This led to some pipes to be checked twice, once against supply constraints and once again against this constraint which could lead to over dimensioning. Based on user feedback we have now split the return part and the supply part and therefore each part will have their individual constraints. This setting has also been removed at the Edit Calculation Properties dialog of pipes.
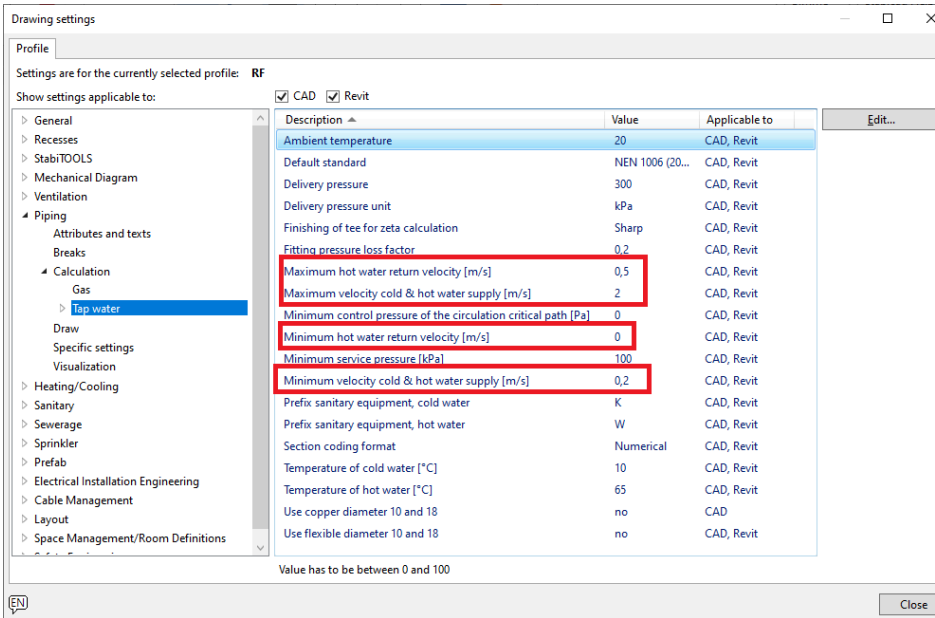
  ○ **Minimum hot water return velocity** has been introduced

Additional information: With this setting the minimum velocity of the return part can be controlled. The **Minimum hot water return velocity** StabiBASE setting acts as a default and can be overruled on a pipe by pipe basis in the Edit Calculation Properties dialog of pipes.

Old situation:
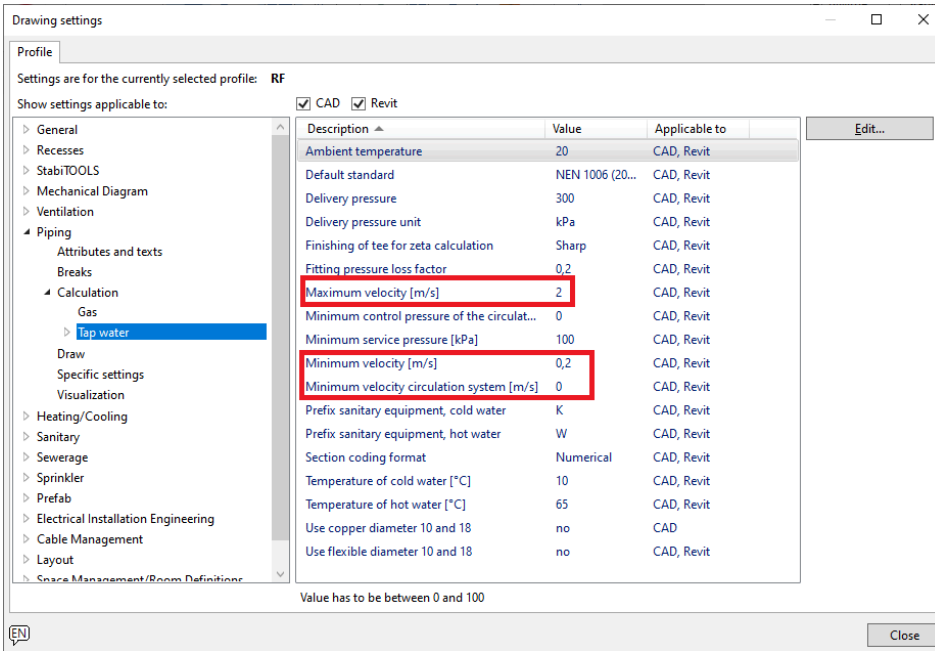
New situation:

The changes have been done on all tap water standards. This gives a cleaner cut between the dimensioning of the supply part of the system and the return part of the system. The supply part now gets dimensioned first and given the results of the supply part, the return part will be dimensioned. Also system wide settings are now only present in StabiBASE and settings that can be tweaked pipe per pipe are in the Edit Calculation Properties dialog of pipes where their default value is coming from the StabiBASE setting.

Stabicad for Revit| Mechanical → Sewerage

- **We have improved the connectivity of composite solutions for branches.**
  For various product lines there were connectivity issues when modelling a wastewater system. An example of what previously went wrong can be seen below:
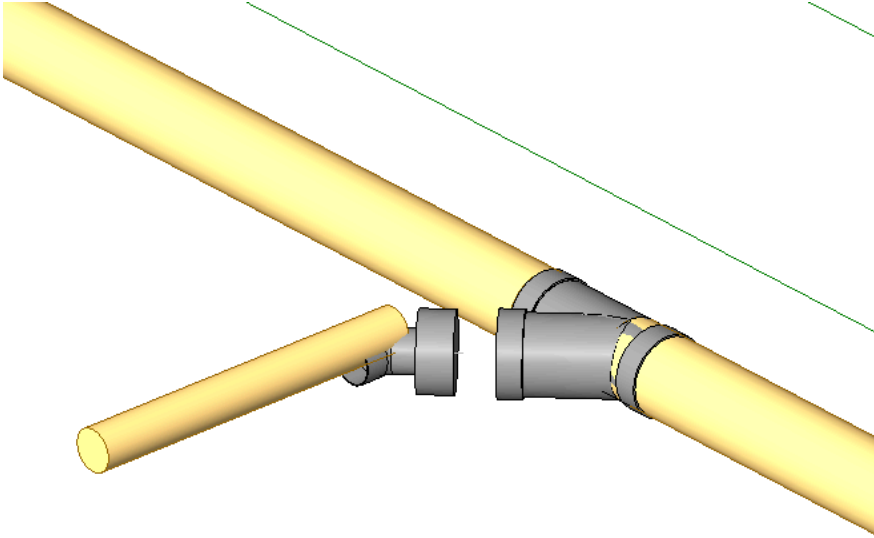

  Solutions with other angles than 90 degree can be selected in the Nodesolver with options, for example connecting two pipes under an angle of 45 degrees instead of a 90 degree bend.

Stabicad for Revit| Mechanical → Heating/Cooling

- **Fan coil units have been renamed in the Assign Mechanical Calculation Properties feature!**
  When using the Assign Mechanical Calculation Properties on a non Stabicad fan coil unit that just has heating & cooling connections, the dropdown list will display Fan Coil Unit as an option to choose from.
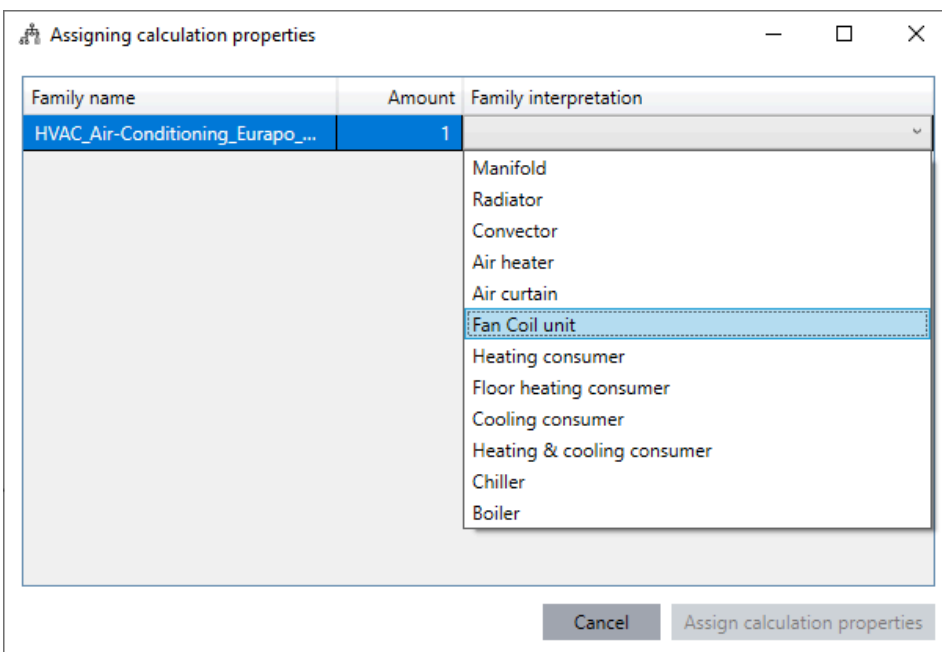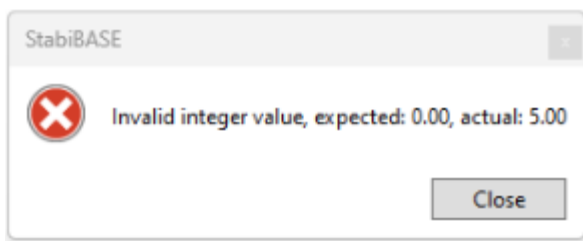
When using the Assign Mechanical Calculation Properties on a non Stabicad fan coil unit that has heating & cooling connections and air connections the dropdown list will display Ducted Fan Coil Unit as an option to choose from.
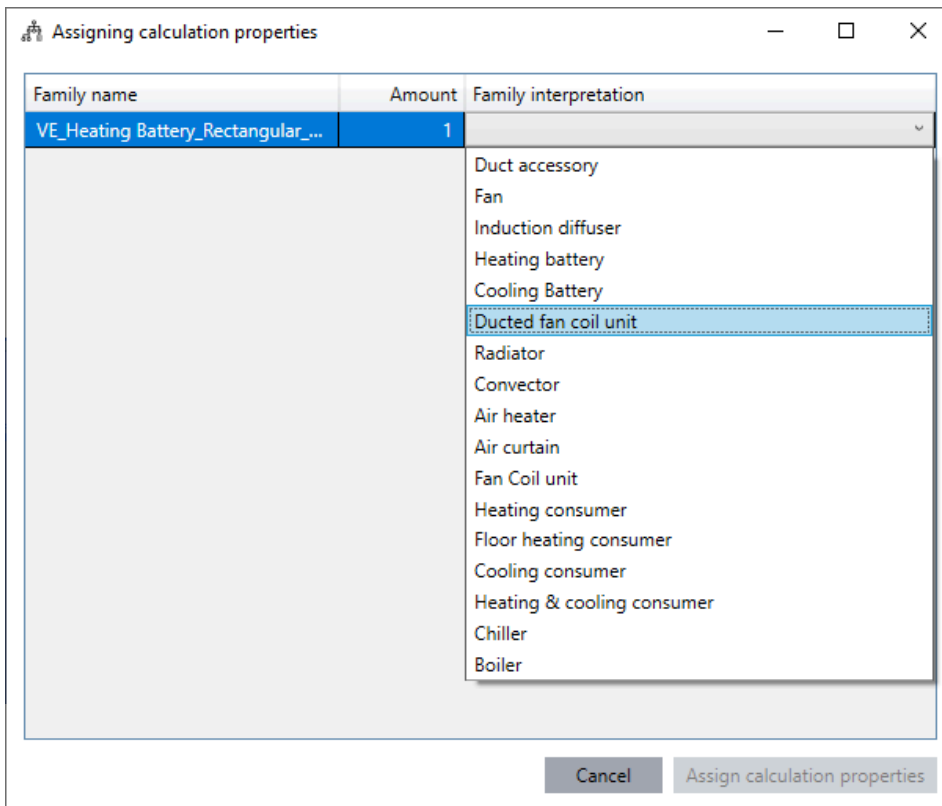
StabiBASE

- When exporting a project, sometimes an error occurred.

The issue is resolved and will not happen anymore when updating the Stabicad version to 24.04 or higher.

- Custom system types were not saved when a customer exported a project. Now these custom system types are stored as well and imported correctly