

Stabicad 24.04 release

Release Notes United Kingdom (UK)



Highlights of the 24.04 release

- D 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 \rightarrow 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:

ettings are for the currently selected profile: RF				
how settings applicable to:	CAD Revit			
General	Description 🔺	Value	Applicable to	<u>E</u> dit
Recesses	Ambient temperature	20	CAD, Revit	
StabiTOOLS	Default standard	NEN 1006 (20	CAD, Revit	_
Mechanical Diagram	Delivery pressure	300	CAD, Revit	
Ventilation	Delivery pressure unit	kPa	CAD. Revit	
Piping	Finishing of tee for zeta calculation	Sharp	CAD, Revit	
Attributes and texts	Fitting pressure loss factor	0,2	CAD, Revit	
Breaks A Calculation	Maximum velocity [m/s]	2	CAD, Revit	
Gas				
Tap water	Minimum control pressure of the circulat	0	CAD, Revit	
Draw	Minimum service pressure [kPa]	100	CAD, Revit	
Specific settings	Minimum velocity [m/s]	0,2	CAD, Revit	
Visualization	Minimum velocity circulation system [m/s]	0	CAD, Revit	
Heating/Cooling	Prefix sanitary equipment, cold water	К	CAD, Revit	
Sanitary	Prefix sanitary equipment, hot water	W	CAD, Revit	
Sewerage	Section coding format	Numerical	CAD, Revit	
Sprinkler	Temperature of cold water [°C]	10	CAD, Revit	
Prefab	Temperature of hot water [°C]	65	CAD, Revit	
Electrical Installation Engineering	Use copper diameter 10 and 18	no	CAD	
Cable Management	Use flexible diameter 10 and 18	no	CAD. Revit	
· · · · · · · · · · · · · · · · · · ·		10	CRO, NEVIL	
Snace Management/Room Definitions	Value has to be between 0 and 100			
Layout Snace Management/Room Definitions	Use flexible diameter 10 and 18 Value has to be between 0 and 100	no	CAD, Revit	

New situation:

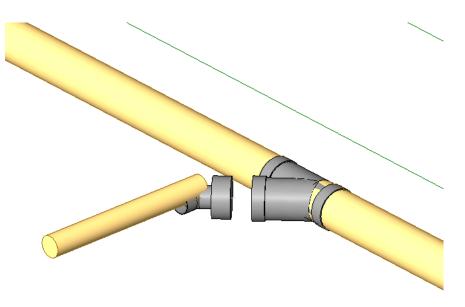
ettings are for the currently selected profile:	RF				
how settings applicable to:	CAD Revit				
> General	△ Description ▲	Value	Applicable to	<u>E</u> dit	
Recesses	Ambient temperature	20	CAD, Revit		
StabiTOOLS	Default standard	NEN 1006 (20	CAD, Revit		
Mechanical Diagram	Delivery pressure	300	CAD, Revit		
Ventilation	Delivery pressure unit	kPa	CAD. Revit		
Piping	Finishing of tee for zeta calculation	Sharp	CAD. Revit		
Attributes and texts Breaks	Fitting pressure loss factor	0.2	CAD. Revit		
A Calculation	Maximum hot water return velocity [m/s]	0,5	CAD. Revit		
Gas	Maximum velocity cold & hot water supply [m/s]	2	CAD, Revit		
Tap water	Maximum velocity cold & not water supply [m/s] Minimum control pressure of the circulation critical path [Pa]	-	CAD, Revit		
Draw		0			
Specific settings	Minimum hot water return velocity [m/s]	0	CAD, Revit		
Visualization	Minimum service pressure [kPa]	100	CAD, Revit		
Heating/Cooling	Minimum velocity cold & hot water supply [m/s]	0,2	CAD, Revit		
Sanitary	Prefix sanitary equipment, cold water	к	CAD, Revit		
Sewerage	Prefix sanitary equipment, hot water	w	CAD, Revit		
Sprinkler	Section coding format	Numerical	CAD, Revit		
Prefab	Temperature of cold water [°C]	10	CAD, Revit		
Electrical Installation Engineering	Temperature of hot water [°C]	65	CAD, Revit		
Cable Management	Use copper diameter 10 and 18	no	CAD		
Layout	Use flexible diameter 10 and 18	no	CAD, Revit		
Space Management/Room Definitions	V				
	Value has to be between 0 and 100				

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 \rightarrow 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 \rightarrow 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.

and Assigning calculation properties		– 🗆 X		
Family name	Amount	Family interpretation		
HVAC_Air-Conditioning_Eurapo	1	~ ~		
		Manifold		
		Radiator		
		Convector		
		Air heater		
		Air curtain		
		Fan Coil unit		
		Heating consumer		
		Floor heating consumer		
		Cooling consumer		
		Heating & cooling consumer		
		Chiller		
		Boiler		
		Cancel Assign calculation properties		

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.

🖏 Assigning calculation properties			-		×
Family name	Amount	Family interpretation			
VE_Heating Battery_Rectangular	1				~
		Duct accessory			
		Fan			- 1
		Induction diffuser			I
		Heating battery			I
		Cooling Battery			
		Ducted fan coil unit			
		Radiator			I
		Convector			I
		Air heater			I
		Air curtain			I
		Fan Coil unit			I
		Heating consumer			I
		Floor heating consumer			I
		Cooling consumer			I
		Heating & cooling consumer			I
		Chiller			I
		Boiler			
		Cancel Assign	calculati	on prope	erties

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