

# Stabicad 23.03 release

## **Release Notes United Kingdom (UK)**



#### Highlights of the 23.03 release

- Stabicad now includes a complete set of CIBSE aligned lighting switch symbols!
- Revit shared parameters have been added for ducts that have a bidirectional link with the mechanical calculation parameters!
- □ You can now use Stabicad's mechanical calculations on non Stabicad families!

#### Stabicad for Revit | Mechanical engineering

With the new Pipe Text function, users are able to visualize both the *size* and *characters in pipe* in the annotation of pipes or ducts. This new annotation is applied to the Pipe Text function of all modules (heating/cooling, ventilation, sanitary, waste water).

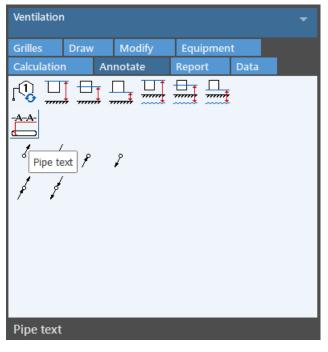
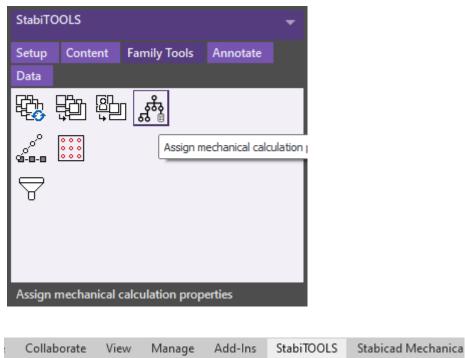


Figure: Pipe Text functionality in the Stabicad Palette Center



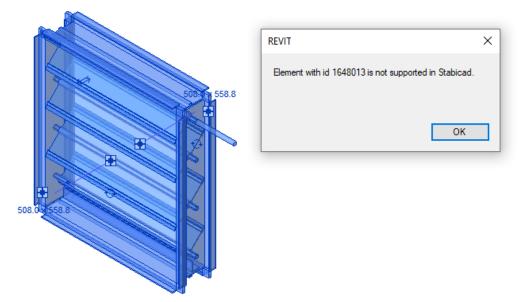
*Figure: Tag a rectangular duct and a round duct* 

You can now use Stabicad's mechanical calculations on non Stabicad families! A new functionality has been added called "Assign mechanical calculation properties".

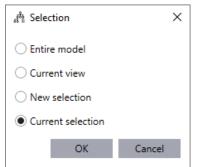




This functionality enables you to assign mechanical calculation properties to a non Stabicad element. E.g. consider this damper and assume there are four of these:



When you run this new functionality, you will be asked to make a selection of elements:



#### After that you will end up at the following screen:

គំ Assigning calculation properties			_		×
Group options					
Group by family name					
Family name	Family interpretation				
Ruskin_CD51,Low Leakage Control					v
Ruskin_CD51,Low Leakage Control					¢
Ruskin_CD51,Low Leakage Control					¢
Ruskin_CD51,Low Leakage Control					v
		Cancel	Assign calcu	lation prop	erties

The functionality automatically detects what type of element it is based on the type of connectors and the amount of connectors. After that you will need to determine the final interpretation of this element by using the dropdown menu:

រត្នំ Assigning calculation properties			_		Х
Group options					
Group by family name					
Family name	Family interpretation				
Ruskin_CD51,Low Leakage Control	Duct accessory				v
Ruskin_CD51,Low Leakage Control	Duct accessory				Ŷ
Ruskin_CD51,Low Leakage Control	Duct accessory				Ŷ
Ruskin_CD51,Low Leakage Control	Duct accessory				Ŷ
		Cancel	Assign calcu	Ilation prop	perties

After you press *Assign calculation properties*, the selected families will be adjusted and parameters will be added such that they can be used with Stabicad's calculations. You will be able to use both native Revit parameters to control the input values as well as Stabicad's Edit Calculation Properties screen.

	Edit Properties		×	
	Valve (1)		~	
	Zeta	0.00		
	Pressure loss [Pa]	0.00		
505 x 558.8	Generated noise Lw [dB(A)]	0.00		
	Attenuated noise [dB]	0.00		
508.0	Click here for help	ОК	Cancel	
	Difficiationa			
	Width A		508.0	<b>^</b>
			558.8	• •
	Width A			
	Width A Height B		558.8 508.0 558.8	
	Width A Height B Duct Width		558.8 508.0	
558.8	Width A Height B Duct Width Duct Height Size Mechanical		558.8 508.0 558.8 508x559-508x559	
558.8	Width A Height B Duct Width Duct Height Size Mechanical Pressure loss Ver		558.8 508.0 558.8 508x559-508x559 0.000000 Pa	
558.8	Width A Height B Duct Width Duct Height Size Mechanical		558.8 508.0 558.8 508x559-508x559	
558.8 (1)	Width A Height B Duct Width Duct Height Size Mechanical Pressure loss Ver	- Input	558.8 508.0 558.8 508x559-508x559 0.000000 Pa	â
558.8 500 100 100 100 100 100 100 100 100 100	Width A Height B Duct Width Duct Height Size Mechanical Pressure loss Ver Zeta Ventilation	- Input	558.8 508.0 558.8 508x559-508x559 0.000000 Pa 0.000000	2
558.8	Width A Height B Duct Width Duct Height Size Mechanical Pressure loss Ver Zeta Ventilation System Classifici	- Input	558.8 508.0 508.559-508x559 0.000000 Pa 0.000000 Undefined	**************************************
	Width A Height B Duct Width Duct Height Size Mechanical Pressure loss Ver Zeta Ventilation System Classifici System Type	- Input ation	558.8 508.0 508.559-508x559 0.000000 Pa 0.000000 Undefined	
508.0	Width A Height B Duct Width Duct Height Size Mechanical Pressure loss Ver Zeta Ventilation System Type System Type	- Input ation	558.8 508.0 508.559-508x559 0.000000 Pa 0.000000 Undefined	~ ~
	Width A Height B Duct Width Duct Height Size Mechanical Pressure loss Ver Zeta Ventilation System Classifici System Type System Abbrevia	- Input ation	558.8 508.0 558.8 508x559-508x559 0.000000 Pa 0.000000 Undefined Undefined	
	Width A Height B Duct Width Duct Height Size Mechanical Pressure loss Ver Zeta Ventilation System Classifici System Type System Name System Abbrevia Loss Method	- Input ation	558.8 508.0 558.8 508x559-508x559 0.000000 Pa 0.000000 Undefined Undefined Coefficient from ASHRAE Table	
	Width A Height B Duct Width Duct Height Size Mechanical Pressure loss Ver Zeta Ventilation System Classifici System Type System Name System Name System Abbrevia Loss Method Set	- Input ation tion tings	558.8 508.0 558.8 508x559-508x559 0.000000 Pa 0.000000 Undefined Undefined Coefficient from ASHRAE Table	

The *Group by family name* functionality easily lets you group the elements that have the same family name so you are able to choose a single family interpretation for the entire group.

កំ Assigning calculation properties			_	×
Group options				
Family name	Amount	Family interpretation		
Ruskin_CD51,Low Leakage Control	4	Duct accessory		v
		Cancel	Assign calculat	

After assigning the family interpretation you can use the functionality as well to edit it in case you made a mistake or want to do a modification.

Note that this is the first version of this functionality. Currently air terminals, fans and duct accessories are supported. Other elements can not be used yet.

### Revit shared parameters have been added for ducts that have a bidirectional link with the mechanical calculation parameters!

You can now use native Revit to control the calculation input values for ducts and you are able to tag & schedule these parameters. This is a follow up to the functionality released in 23.01. Next up are the sanitary equipment.

Edit Properties X		Mechanical		
		System Classification	Supply Air	
Duct (1)	<b>^</b>	System Type	W5700_Luchtbehandeling toevoer	
Duct type	Connection duct	System Name	M570F 1	
Shape	Round/Rectangular	System Abbreviation	M570F	
Maximum velocity [m/s]	3,5	Air Tightness Class		
		Weight	0.000 kg	
Design velocity [m/s]	3,5	Lock Dimensions		
Maximum diameter [mm]	315	Zeta Ventilation - Input	0.000000	
Minimum diameter [mm]	60	Pressure loss Ventilation - Input	0.000000 Pa	
		Duct Type	Connection duct	
Maximum pressure loss per meter	. U	Maximum Velocity	3.50 m/s	
Maximum height ventilation duct [	315	Design Velocity	3.50 m/s	
Maximum width [mm]	1260	Maximum Diameter	315.00 mm	
Maximum height and width ratio	4	Minimum Diameter	60.00 mm	
lock dimensions	No	Maximum Height	315.00 mm	
LOCK dimensions	NO	Maximum Width	1260.00 mm	
Zeta	To be calculated	Maximum Pressure loss per Meter	0.0000 Pa/m	
Pressure loss [Pa]	To be calculated	Maximum Height and Width Ratio	4.000000	
Generated noise Lw [dB(A)]	To be calculated	Size Lock		
	To be calculated	Loss Coefficient	0.000000	
Attenuated noise [dB/m]		Hydraulic Diameter	90.0	
Click have fee hale	OK Cancel	Section	2	
Click here for help	OK Calicel	Area	1.070 m <sup>2</sup>	

Note that the Duct Type parameter is one directional only: changes made in Edit Calculation Properties will be reflected in Revit but not the other way around. This is also indicated with a tooltip:

Duct Type		Connection duct	
Maximum	Velocity	3.50 m/s	
Design Vel	<u> </u>		
Maximum	Duct Type		
Minimum	Shared parameter: Project		
Maximum Maximum	Text This is the type of the duct. Please use Stabicad's edit calculation properties dialog to make changes		
Maximum	F P P		

#### Stabicad for Revit | Electrical engineering

 Stabicad's CIBSE Lighting Switches Palette Center section has now been updated to be fully aligned with CIBSE regulations.



- We solved a circuit management calculation issue related to the parallel cable scenario with horizontal touching.
- We solved an issue that was related to positioning of text on Stabicad's CIBSE fire alarm symbols.

#### **StabiTOOLS**

- An issue has been solved that was causing error report / errors when a user was logging out from Palette Center. When a user now logs out from the palette center:
  - the user will be logged out from their Trimble Identity.
  - Stabibase and associated applications (Online Help and Product Line Importer) will be closed.
  - the platform application (Revit) will remain open.
  - the palette Center will remain open but if the user needs to open functionalities from it, TID login is required.