



# Stabicad 23.07 release

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Release Notes United Kingdom (UK)

## Highlights of the 23.07 release

- The tapwater calculations according to BS 8558 and BS EN 806 now carry the CIBSE SVA logos.
- You can now keep the mechanical schematic design and the 3D model in sync with each other by using the new Link functionality

## StabCAD for Revit | Mechanical engineering

- **The tapwater calculations according to BS 8558 and BS EN 806 now carry the CIBSE SVA logos!**  
The logo has been added to the calculation dialog as well as to the reports.

**Tap water calculation output**

StabCAD version: 23.07      Standard: BS EN 806-3 (2006) - CIBSE Guide C (2007) 

Date: 27/06/2023      System type: Cold and hot water

Project name: CIBSE

Project description:

Drawing name: Updated\_StabCAD CIBSE Certification Tapwater Model 806 Revit 2022.rvt

**System values:**  
 Delivery pressure: 300 [kPa]      Pressure loss of critical path: 547.63 [kPa]  
 Pressure loss of critical path (device included): 647.63 [kPa]

**Pressure loss per pipe run**

Section nr.	l [m]	d <sub>i</sub> /d <sub>o</sub> [mm]	c [m/s]	Δp/m [kPa/m]	Δp pipe Δpe [kPa]	Δp fitting Δpeq [kPa]
1 - 2	0.22	22/202	4.9	11.36	2.55	6.92
2 - 3	0.69	22/202	3.66	6.75	4.62	21.43
3 - 4	16.04	22/202	3.66	5.54	1.96	0
4 - 5	4.27	22/202	1.49	1.1	88.81	3.43
5 - H6	0.68	15/136	1.38	1.55	6.11	0
Pipe run length: 21.9[m]				Total pressure loss in pipe run: 157		
1 - 2	0.22	22/202	4.9	11.36	2.55	6.92
2 - 3	0.69	22/202	3.66	6.75	4.62	21.43
3 - 4	16.04	22/202	3.66	5.54	1.96	0
4 - 5	4.27	22/202	1.49	1.1	4.7	7.43
5 - 7	1.65	22/202	1.33	0.9	0.13	0
7 - H8	0.68	15/136	2.75	5.34	1.48	0.02
Pipe run length: 23.55[m]				Total pressure loss in pipe run: 162		


**Calculate Tap Water System**

Calculation standard  
 BS EN 806-3 (2006) - CIBSE Guide C (2007)

Calculation options  
 Calculate fitting loss by  
 Default standard  
 Fitting pressure loss factor

Recalculate existing diameters

Output  
 Create report  
 Show calculation overview  
 Show connection warnings

 [Click here for help](#)     

**Tap water calculation output**

StabCAD version: 23.07      Standard: BS 8558 (2015) - CIBSE Guide C (2007) 

Date: 27/06/2023      System type: Cold and hot water

Project name: CIBSE

Project description:

Drawing name: Updated\_StabCAD CIBSE Certification Tapwater Model 8558 Revit 2022.rvt

**System values:**  
 Delivery pressure: 300 [kPa]      Pressure loss of critical path: 301.13 [kPa]  
 Pressure loss of critical path (device included): 401.13 [kPa]

**Pressure loss per pipe run**

Section nr.	l [m]	d <sub>i</sub> /d <sub>o</sub> [mm]	c [m/s]	Δp/m [kPa/m]	Δp pipe Δpe [kPa]	Δp fitting Δpeq [kPa]	Δp tot [kPa]	P initial [kPa]	P end [kPa]
1 - 2	0.21	42/396	2.1	1.1	0.23	0	0	300	300
2 - 3	0.09	54/516	0.52	0.07	0.01	2.06	0	0	0
3 - 4	0.54	42/396	0.89	0.24	0.13	0.21	0	0	0
4 - 5	0	0	0	0	0	0	0	0	0
4 - 6	0.16	54/516	0.52	0.05	0.01	0.11	0	0	0
6 - 7	15.87	42/396	0.89	0.19	3.01	0.12	0	0	0
7 - 8	4.26	35/326	0.34	0.04	0.19	0.41	0	0	0
8 - H9	0.66	15/136	1.03	0.93	0.61	0.96	0	0	0
Pipe run length: 21.78[m]				Total pressure loss in pipe run: 157					
1 - 2	0.21	42/396	2.1	1.1	0.23	0	0	0	0
2 - 3	0.09	54/516	0.52	0.07	0.01	2.06	0	0	0
3 - 4	0.54	42/396	0.89	0.24	0.13	0.21	0	0	0
4 - 5	0	0	0	0	0	0	0	0	0


**Calculate Tap Water System**

Calculation standard  
 BS 8558 (2015) - CIBSE Guide C (2007)

Calculation options  
 Calculate fitting loss by  
 Default standard  
 Fitting pressure loss factor

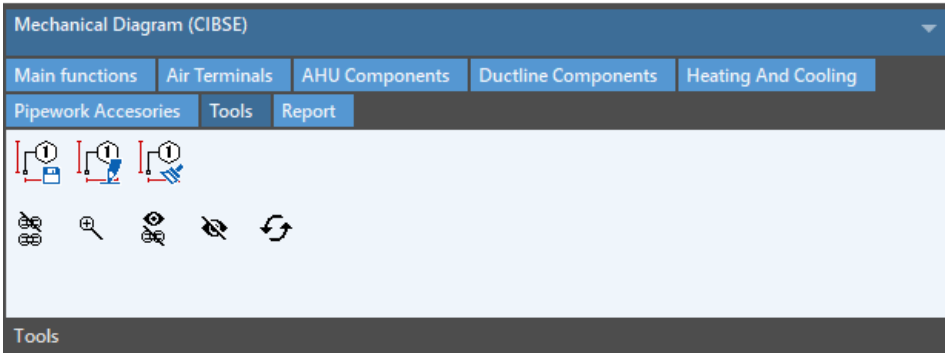
Recalculate existing diameters

Output  
 Create report  
 Show calculation overview  
 Show connection warnings

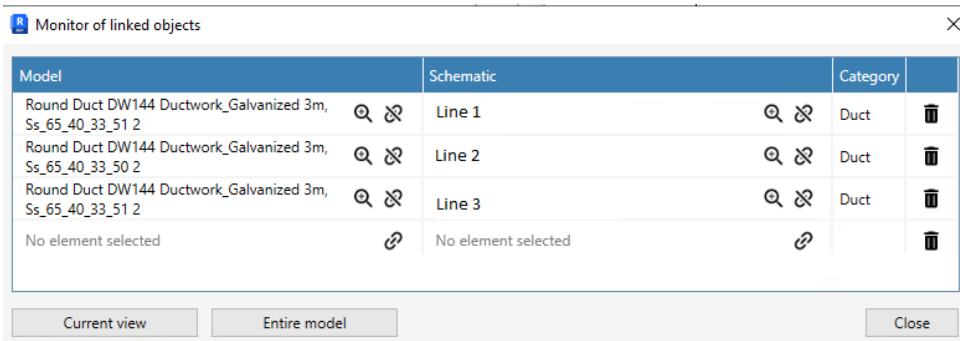
 [Click here for help](#)

■ **StabCAD now provides a tool for linking a symbol in the schematic view to a corresponding object in the model.**

The tool provides linking and synchronizing of elements between schematic drawings and families in the model, which enables data exchange from the model to the schematic after calculation to ensure that the required data is consistent throughout the project. This new functionality helps you to annotate information in schematic drawings with up to date parameters value from the model.



*Link/Unlink objects* - Enables you to link a line in the schematic view to a corresponding duct/pipe/cable tray in the model. The Monitor of linked objects enables you to link and unlink objects to establish a one to one mapping between schematic lines and model objects. You have the possibility to delete a pair of linked objects and zoom in and out a linked object.



You have the possibility to select linked objects from the **current view** or from the **entire model**.



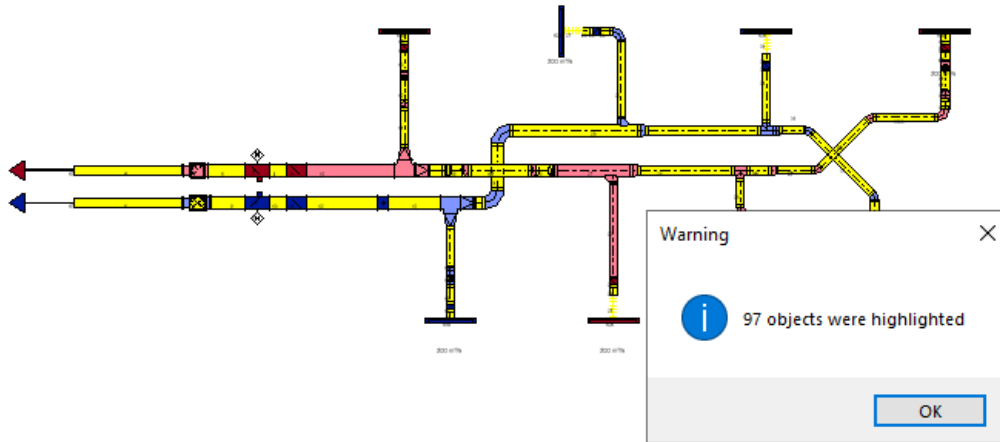
*Zoom to linked objects* - Identifies the linked objects of a selected object in the drawing.



*Unshow unlinked objects* - Clears the highlight of unlinked objects in the drawing.

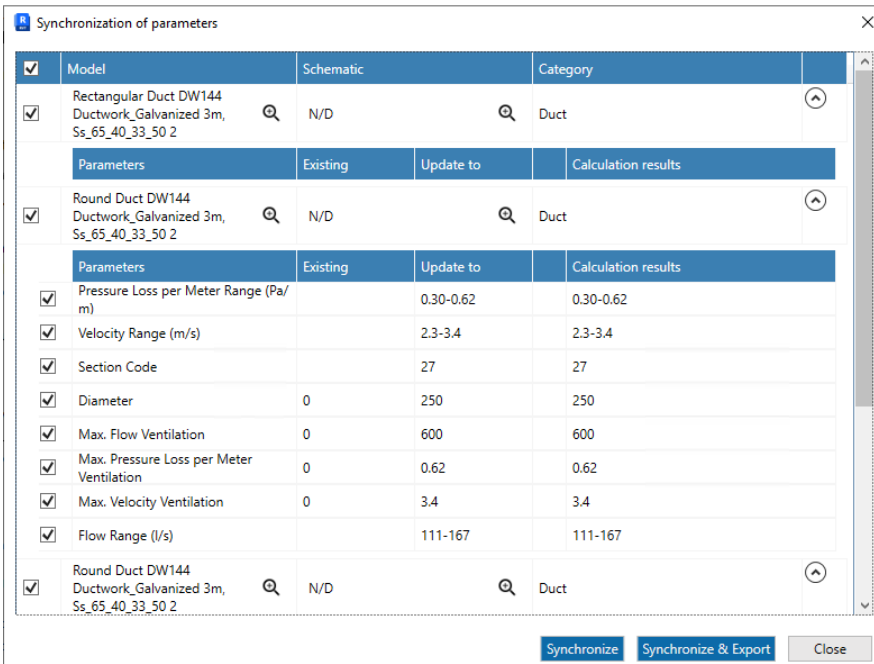
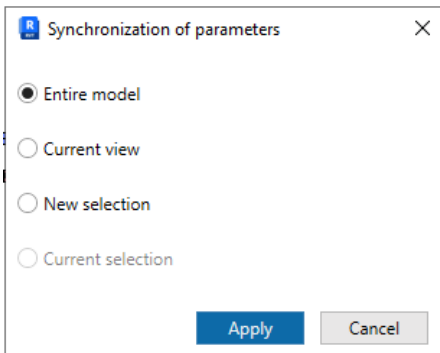


*Show unlinked objects* - Helps you to identify unlinked elements in the schematic drawing or in the model. Unlinked objects are highlighted in yellow.

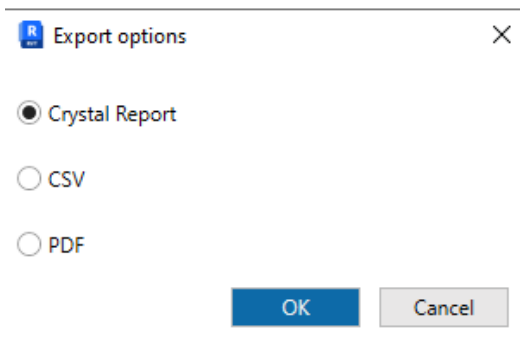


*Synchronize Parameters* - Can be used for updating the parameter values between lines in the schematic drawings and linked objects in the model after a manual update/calculation process. Stabicad has a predefined parameters list for lines/symbols for each category/system type, with a predefined direction (bi-directional/ unidirectional).

You can select the scope of the synchronization:

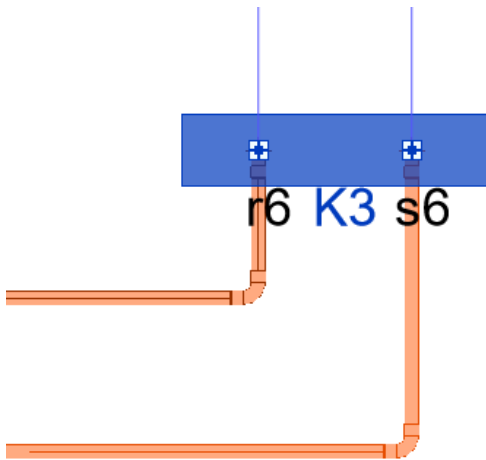


The interface of the Synchronization of parameters enables you to visualize parameter changes of linked objects, and select all/some parameters to synchronize. Synchronize and Export allows you to synchronize and export the changes in 3 different formats:



- Correct marking of all elements of the index run with a shared Revit parameter**

In the previous version of Stabicad (23.06) a new functionality was added to the mechanical calculation modules that marked all elements of the index run with a shared Revit parameter. In this update, the consumer (e.g. radiator) that is part of the index run, now is also part marked as part of the index run by the Revit parameter.



Prefab Number	
Prefab Set	
COBie.Component.SerialNumber	
COBie.CreatedBy	
COBie.CreatedOn	
COBie.Component.Space	
COBie.Component.WarrantyStartD...	
COBie.Component.TagNumber	
COBie.Component.Name	
COBie.Component.BarCode	
COBie.Component.AssetIdentifier	
COBie.Component.InstallationDate	
COBie	<input checked="" type="checkbox"/>
<b>Other</b>	
L	120.0
Safe Outer Diameter	22.0
Section Code	K3
Index Run	<input checked="" type="checkbox"/>

- An issue was fixed in the unit conversion of the ventilation calculation.**

If you had your StabiBASE air flow unit set to m<sup>3</sup>/h and the Revit Air Flow unit also set to m<sup>3</sup>/h, the Max. Flow Ventilation parameter would contain the result in l/s whereas the unit displays m<sup>3</sup>/h. This has now been fixed.