



Lindab MagiCAD Plugin for Revit for DIMsilencer and LindQST

User guide

12/04/2022

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About this document

Lindab supports now its Comfort Selection Tools integrated in MagiCAD for Revit. The benefits are that you can now use Lindabs advanced calculation and presentation methods and transfer the result into MagiCAD for Revit.

Installation of Revit Add-in

Requirements

To be able to use the connection between the Lindab Software and MagiCAD for Revit you need to have:

Revit

- Revit 2018 - 2023

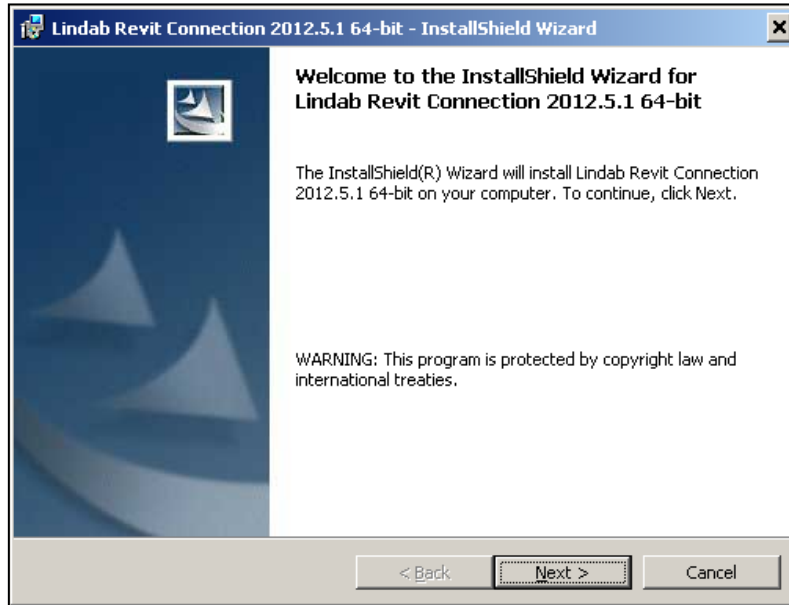
MagiCAD (optional)

- MagiCAD for Revit 2022 (with Revit 2018 - 2022)
- MagiCAD for Revit 2023 (with Revit 2019 - 2023)

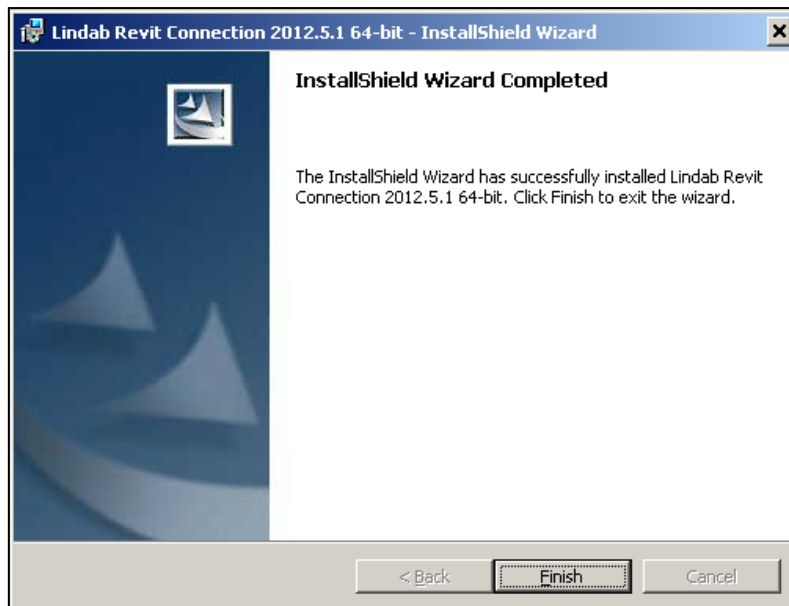
The 64-bit installer can be downloaded from:

<https://portal.magicad.com/download/ProductSearch?searchStr=Lindab&categoryId=3>

NOTE: You need to have local administrator rights to install the Plug-in on your computer.



The installation Wizard will guide you through the installation; we recommend selecting the suggested installation paths.



Starting the program

Now you can install the Lindab software. Please note that you must have the version numbers below or newer to use the Plug-in.

DIMsilencer: <http://itsolution.lindab.com/downloads/dimsilencer/5.1/install.exe>



Using the connections:



Start a project on Revit and select the "Add-Ins" tab.

Connection to DIMsilencer



Connection to LindQST (Webbased Comfort Selection Tool)

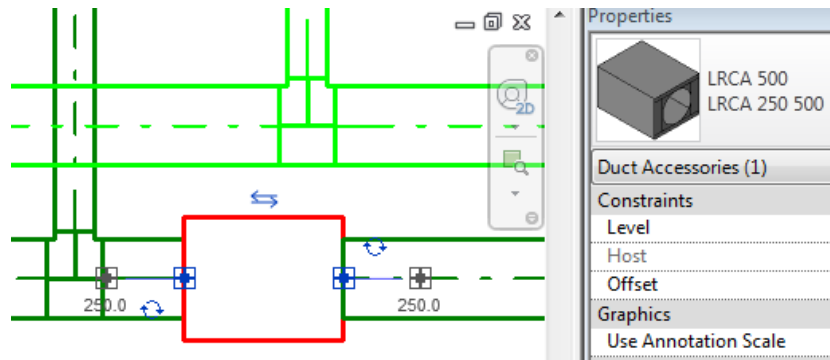


Connection to LindQST for silencers (Webbased Comfort Selection Tool)



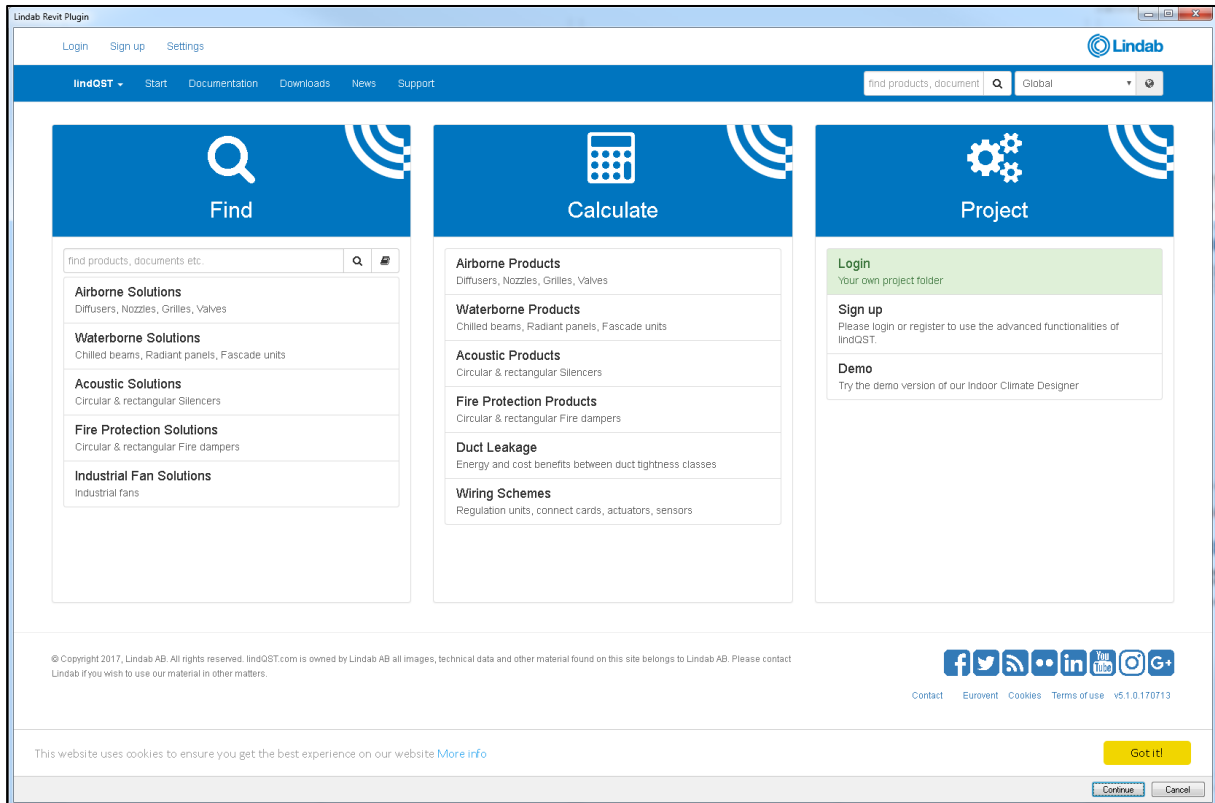
When you selected a silencer you press the "OK"-button. DIMsilencer will then close and MagiCAD dialog asks you to state a User Code.

In the last step you click on the duct you want to insert your silencer into. You can even select larger or smaller ducts than the size of the selected silencer. MagiCAD will in this case insert reductions automatically.



LindQST

LindQST is a webbased selection tool for Lindabs Comfort product range including documentation.

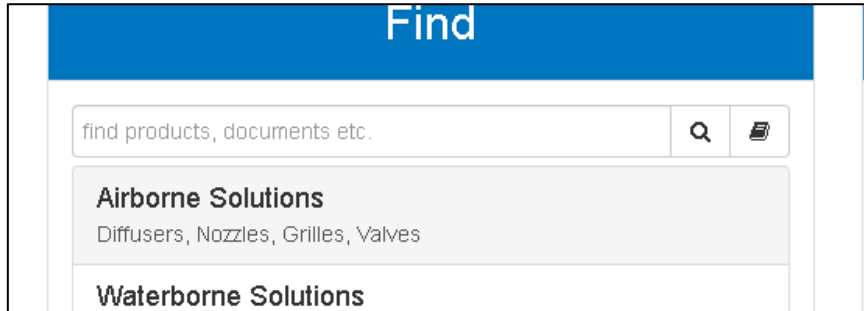


Push the LindQST button in MagiCAD to open a web browser and start LindQST.

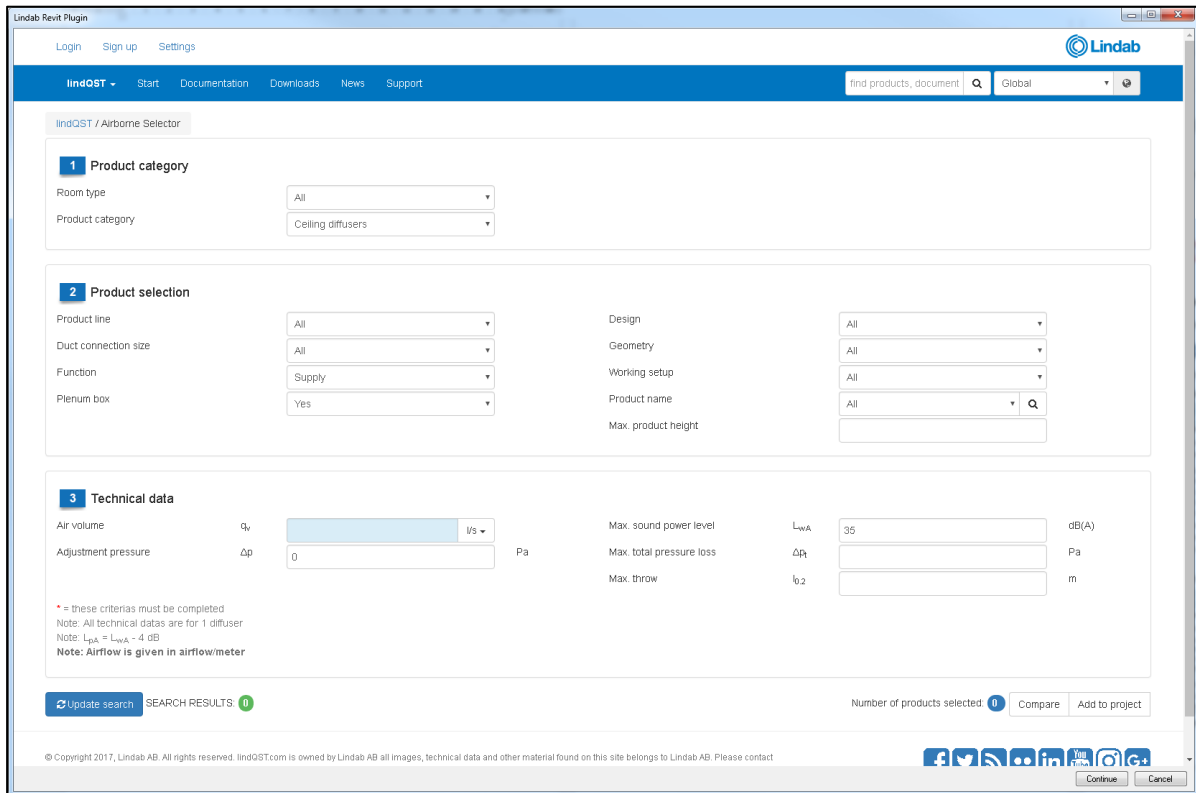
NOTE: You must start LindQST with the button in Revit to be able to use the transfer function into MagiCAD for Revit.

Example for a diffuser selection

1. Select a Airborne Solutions or find suitable products with search



2. Select a product or define the search parameters for the diffuser you want to select. Enter the technical requirements, but at least airflow and sound.



NOTE: the more parameter you define the quicker and more selective the calculations will work.

- LindQST calculates all diffusers which fulfill the requirements. Push on "Update Search" to get a list of calculated diffusers. In the selection you can even compare 2 or more products to each other for detailed information.

Lindab Revit Plugin

Note: All technical datas are for 1 diffuser
 Note: $L_{wA} \neq L_{wA} - 4$ dB
 Note: Airflow is given in airflowmeter

Update search SEARCH RESULTS 24 Number of products selected 1 Compare Add to project

<input type="checkbox"/>	Order code	Working setup	L_{d2} [m]	L_{wA} [dB(A)]	ΔP_1 [Pa]
<input type="checkbox"/>	CRL-100+MBB-100-100-S	4-way	1.7	35	44
<input type="checkbox"/>	CRL-100+MBB-100-100-S	Vertical	5.3	35	44
<input type="checkbox"/>	CRL-100+MBB-100-100-S	Vertical	4.3	35	44
<input checked="" type="checkbox"/>	CRL-100+MBB-100-100-S	Vertical	3.9	35	44
<input type="checkbox"/>	CRL-100+MBC-100-100	4-way	1.7	24	38
<input type="checkbox"/>	CRL-100+MBC-100-100	Vertical	5.3	24	38
<input type="checkbox"/>	CRL-100+MBC-100-100	Vertical	4.3	24	38
<input checked="" type="checkbox"/>	CRL-100+MBC-100-100	Vertical	3.9	24	38
<input type="checkbox"/>	CRL-125+MBB-100-125-S	4-way	1.4	28	31
<input type="checkbox"/>	CRL-125+MBB-100-125-S	Vertical	3.9	28	31
<input type="checkbox"/>	CRL-125+MBB-100-125-S	Vertical	3.5	28	31
<input checked="" type="checkbox"/>	CRL-125+MBB-100-125-S	Vertical	3	28	31
<input type="checkbox"/>	CRL-125+MBC-125-125-S	4-way	1.4	<20	12
<input type="checkbox"/>	CRL-125+MBC-125-125-S	Vertical	3.9	<20	12
<input type="checkbox"/>	CRL-125+MBC-125-125-S	Vertical	3.5	<20	12
<input type="checkbox"/>	CRL-125+MBC-125-125-S	Vertical	3	<20	12
<input type="checkbox"/>	CRL-125+MBC-100-125	4-way	1.4	<20	18
<input type="checkbox"/>	CRL-125+MBC-100-125	Vertical	3.9	<20	18

Continue Cancel

- Select a diffuser to get a detailed report including the "Export to Revit" button.

Lindab Revit Plugin

Login Sign up Settings

LindQST Start Documentation Downloads News Support

Find products, document Global

lindQST / Airborne Calculator

Product category Ceiling diffusers

Product name CRL Q Reset

Duct connection size 100

Function Supply

Plenum box Yes

Working setup Vertical

Article name CRL-125+MBB-100-125-S

Air volume Q_v 25 l/s

Room attenuation D_r 0 dB

Adjustment pressure ΔP 0 Pa

Description

Calculate

* = these criterias must be completed
 Note: All technical datas are for 1 diffuser
 Note: Results for grilles with damper option are for open damper. Please use the correction factors in the catalogue page for other settings.

CRL-125+MBB-100-125-S

Generate PDF Generate DXF Visualize Add to project Export to Revit

Product information Results

Face velocity v 2.6 m/s

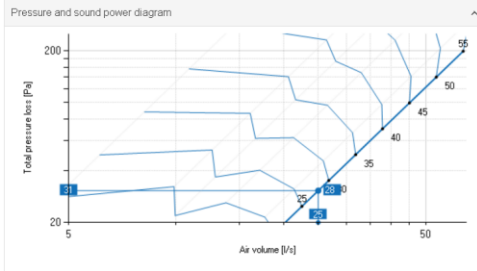
Total pressure loss ΔP_1 31 Pa

Sound power level L_{wA} 28 dB(A)

Sound pressure level L_{pA} 28 dB(A)

Throw L_{d2} 3.9 m

Pressure and sound power diagram



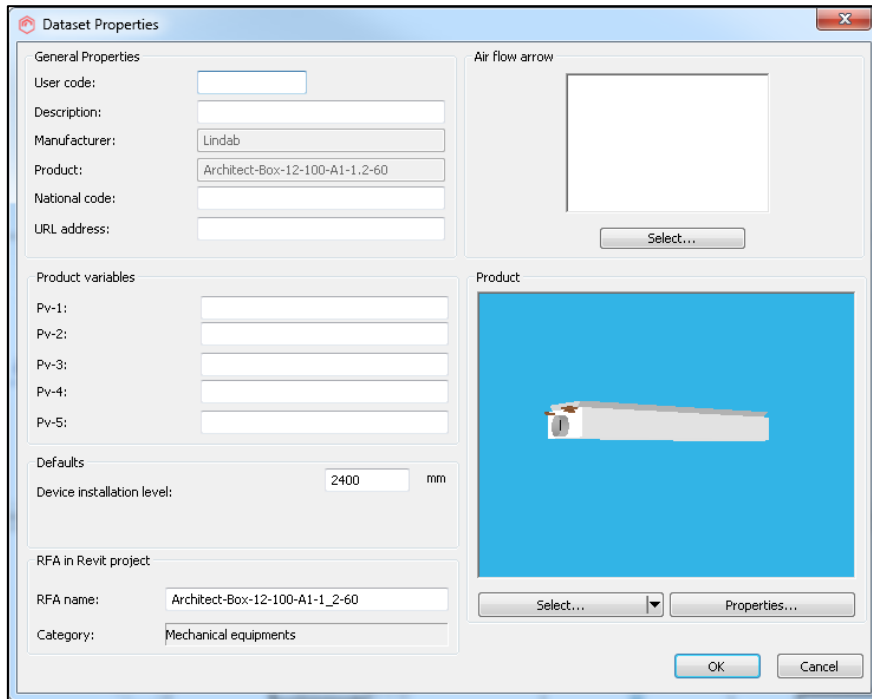
Hz	63	125	250	500	1K	2K	4K	8K
K_{ak}	13	9	3	-5	-7	-11	-15	-19
ΔL	21	16	6	18	19	18	19	21

Continue Cancel

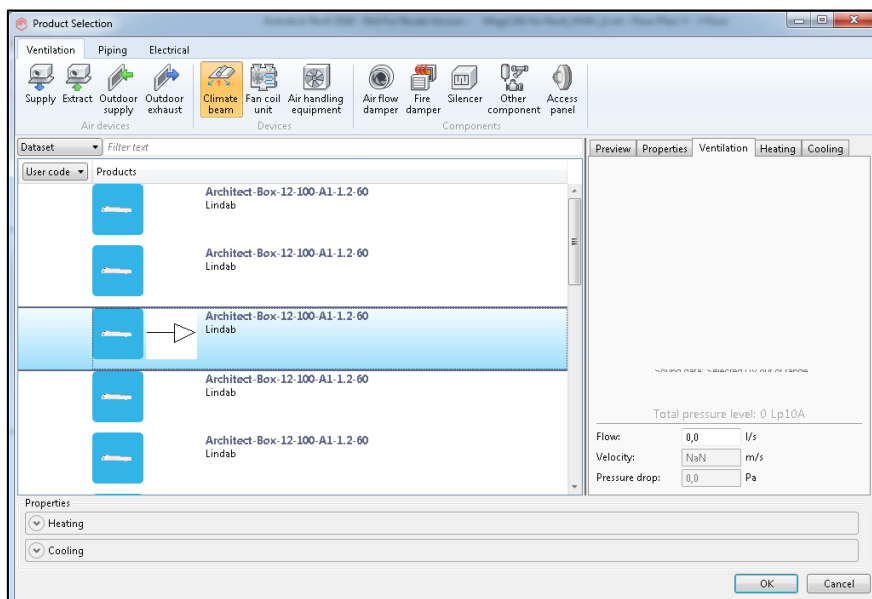
5. Insert the product into the Revit project

a. With MagiCAD

If plugin is used together with MagiCAD plugin adds the selected product to the MagiCAD dataset at first.



Then product installation continue by showing Product Selection dialog

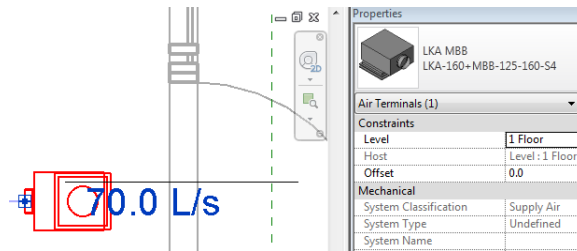


Then installation point of product is requested to shown at the plan.

b. Plain Revit (without MagiCAD)

If plugin is used without MagiCAD plugin adds the selected product's family to the list of Revit families at first. No dialog will be shown.

Then installation point of product is requested to shown at the plan.

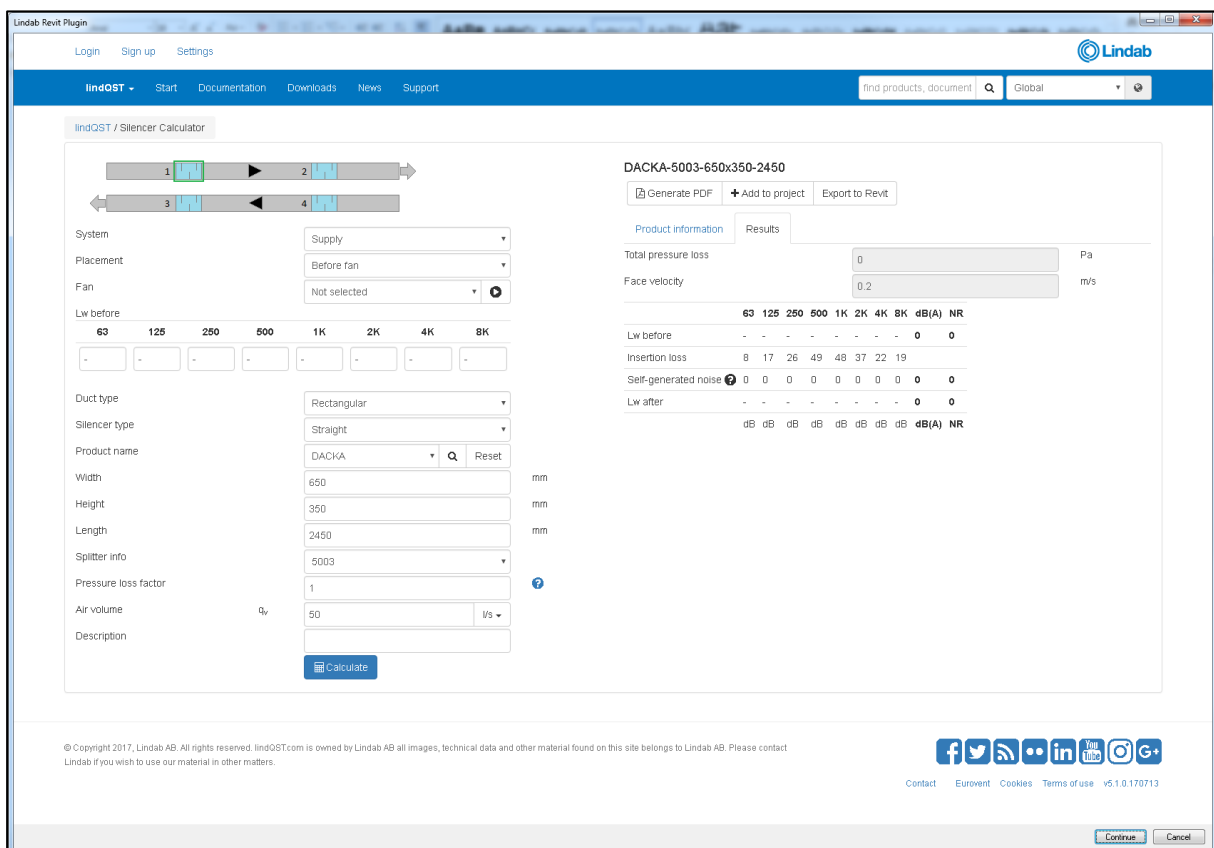


LindQST for silencers

LindQST is a web based selection tool for Lindabs Comfort product range including documentation.

Push the “LindQST for silencers” button in Revit to open a web browser and point out duct where silencer will be installed. If user selects some duct, dimensions and sound data values are transferred to LindQST. User can continue also without pointing out the duct but then the values are not transferred to LindQST.

Plugin directs user to Silencer Calculator in Lindqst:



The screenshot displays the LindQST Silencer Calculator interface. The top navigation bar includes 'LindQST', 'Start', 'Documentation', 'Downloads', 'News', and 'Support'. The main content area is titled 'LindQST / Silencer Calculator' and features a diagram of a duct system with four numbered sections. The input fields on the left include: System (Supply), Placement (Before fan), Fan (Not selected), Lw before (63, 125, 250, 500, 1K, 2K, 4K, 8K), Duct type (Rectangular), Silencer type (Straight), Product name (DACKA), Width (650 mm), Height (350 mm), Length (2450 mm), Splitter info (5003), Pressure loss factor (1), Air volume (50 l/s), and Description. The right side shows the selected product 'DACKA-5003-650x350-2450' and a 'Results' table. The table includes columns for noise levels (Lw before, insertion loss, self-generated noise, Lw after) and pressure loss (Total pressure loss, Face velocity). A 'Calculate' button is located at the bottom left of the input fields.

NOTE: You must start LindQST Calculator with the button in Revit to be able to use the transfer function into MagiCAD for Revit.

When silencer is selected press “Export to Revit” button.

If plugin is used together with MagiCAD plugins adds the selected product to the MagiCAD dataset at first and the second thing is Product Selection dialog will be shown.

After these steps silencer can be installed to Revit drawing once the conversion is done.