

A large, stylized red geometric pattern, resembling a series of nested, offset L-shapes or a stylized 'M' and 'C' combined, forms the background of the page.

Lindab LindQST plugin for MagiCAD for BricsCAD User guide

15/08/2025

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1 General

This document contains instructions on using LindQST plugin for MagiCAD for BricsCAD. The purpose of the plugin is to integrate selection- and indoor climate designer tool LindQST into MagiCAD for BricsCAD. It allows users to find and insert Lindab airborne, waterborne, silencer and damper products into MagiCAD project. In addition, plugin integrates LindQST indoor climate designer features into MagiCAD allowing users to design the air distribution in rooms.

1.1 How to install plugin

1.1.1 Required third-party software

LindQST MagiCAD plugin supports the following BricsCAD and MagiCAD versions:

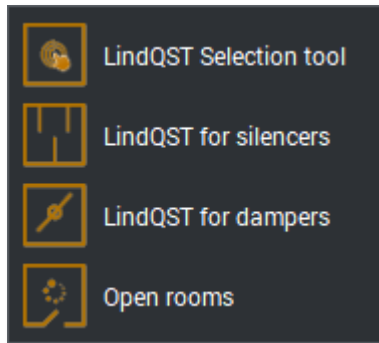
- BricsCAD V24
 - MagiCAD 2025
 - MagiCAD 2026
- BricsCAD V25
 - MagiCAD 2025
 - MagiCAD 2026

1.1.2 Installation

1. Download setup file from
<https://portal.magicad.com/download/ProductSearch?searchStr=Lindab&categoryId=3>
2. Install the plugin by running the downloaded installer

2 Starting the program

You will find LindQST MagiCAD plugin ribbon panel under MagiCAD Connect tab in BricsCAD.



3 How to use the plugin

LindQST MagiCAD plugin contains 4 commands:

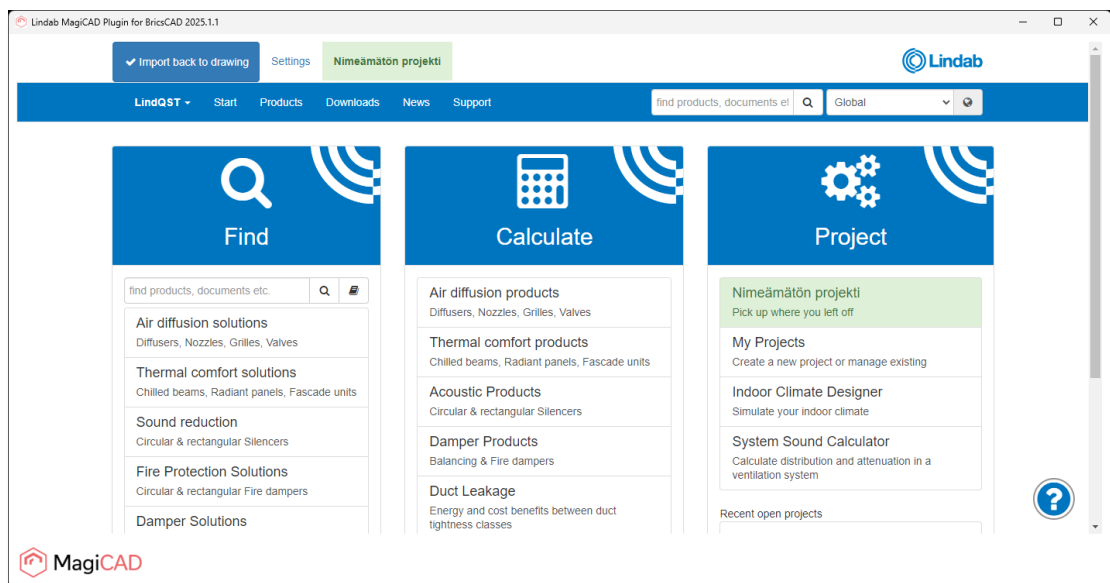
- LindQST Selection tool
- LindQST for silencers
- LindQST for dampers
- Opens rooms

3.1 LindQST Selection tool

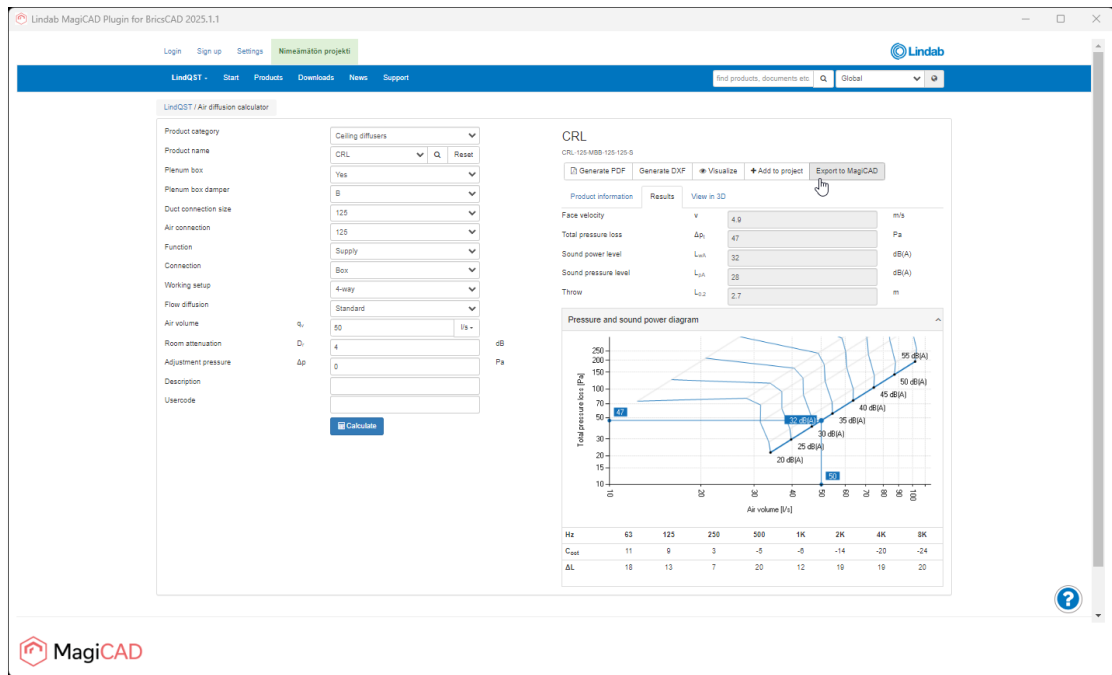
This command opens LindQST for selecting suitable airborne or waterborne products into MagiCAD project.

Follow these steps to insert products from LindQST to MagiCAD project:

1. Click the “LindQST Selection tool” button from LindQST plugin ribbon panel. Plugin opens LindQST in browser control window:



- Proceed by selecting either Airborne products or waterborne products. Here we proceed to Airborne product calculator (optionally you can also find suitable airborne products by clicking the Airborne Solutions from the main page):



LindabQST / Air diffusion calculator

Product category: Ceiling diffusers
Product name: CRL
Plenum box: Yes
Duct connection size: 125
Function: Supply
Connection: Box
Working setup: 4-way
Flow diffusion: Standard
Air volume: 50 l/s
Room attenuation: 4 dB
Adjustment pressure: 0 Pa
Description:
Usercode:

Calculate

CRL
CRL 125 MBB 125 125-5

Generate PDF Generate DXF Visualize Add to project Export to MagiCAD

Product information Results View in 3D

Face velocity: 4.9 m/s
Total pressure loss: 47 Pa
Sound power level: 32 dB(A)
Sound pressure level: 28 dB(A)
Throw: 2.7 m

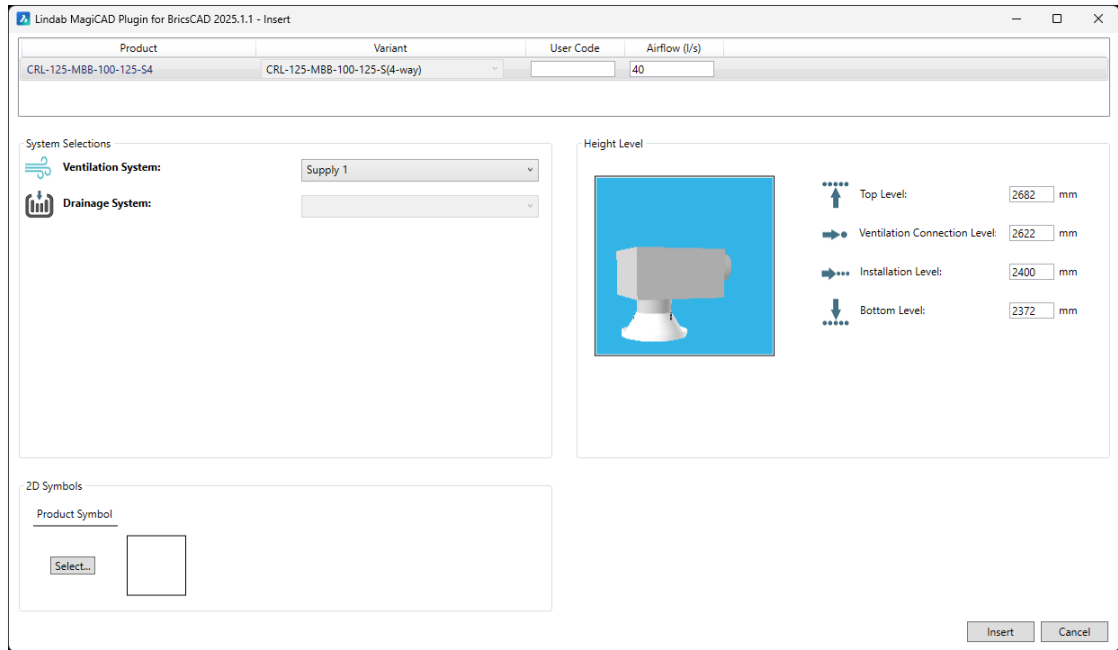
Pressure and sound power diagram

Total pressure loss (Pa) vs Air volume (l/s)

Hz	63	125	250	500	1K	2K	4K	8K
C _{cut}	11	9	3	-5	-5	-14	-20	-24
AL	18	13	7	20	12	19	19	20

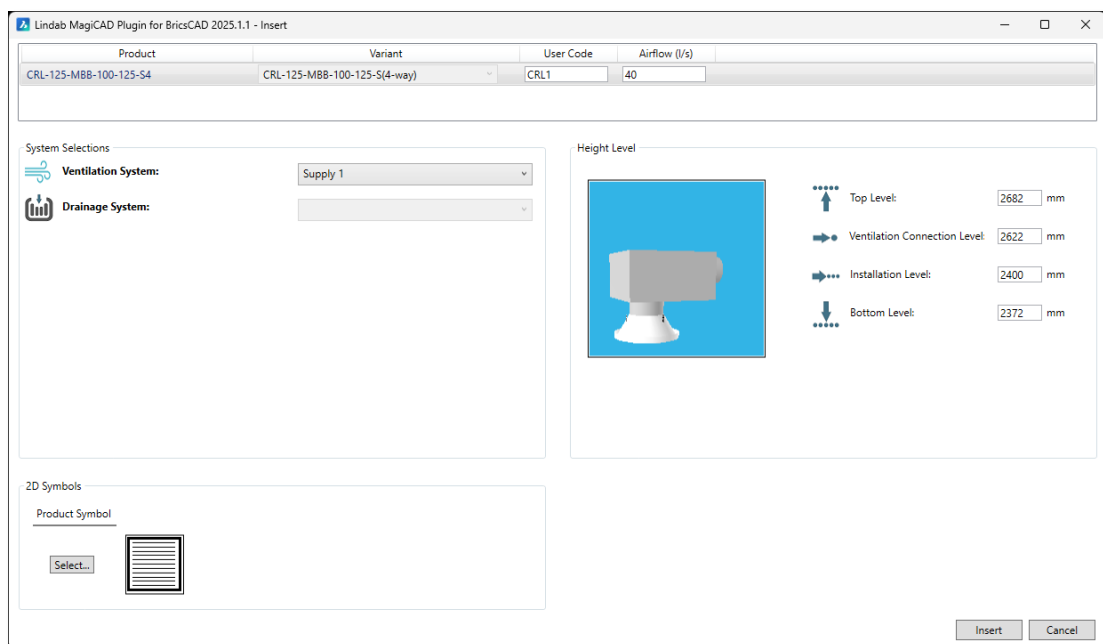
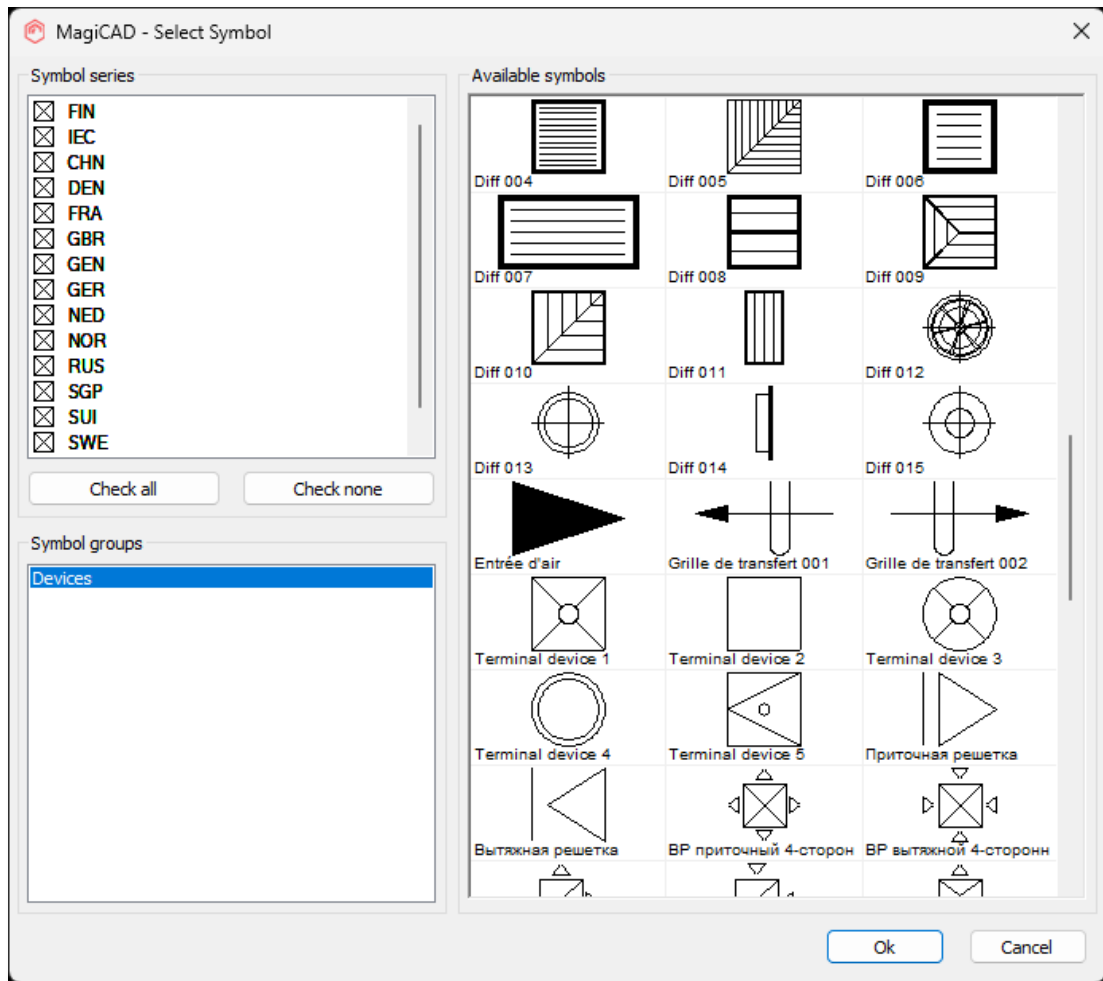
In Airborne calculator proceed by making the required input and selections and then calculate the product. After that proceed by clicking the Export to MagiCAD button in order to insert the product to MagiCAD.

3. LindQST view is closed and plugin Insert Products view is opened:



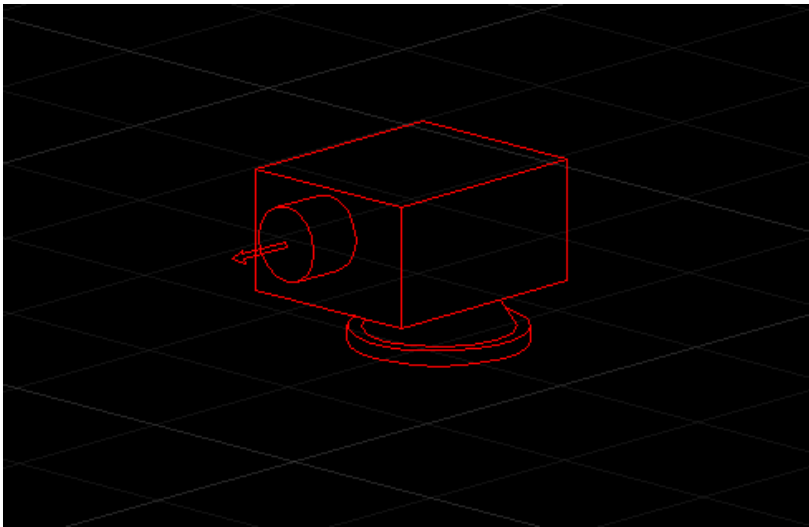
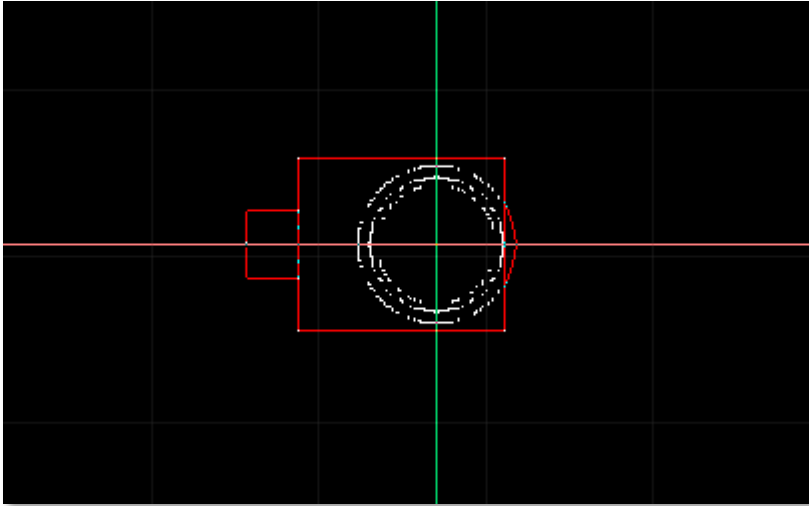
Proceed by making required system selections, set height level and select suitable 2D symbol and airflow arrow for the product.

2D symbol can be selected by clicking the Select... button from 2D symbol section. Select Symbol view is opened. Select 2D symbol and then click the OK button.



Once all the selections have been made proceed by clicking the Insert button.

4. Next product will be placed to BricsCAD drawing into wanted position and orientation:



3.2 LindQST for silencers

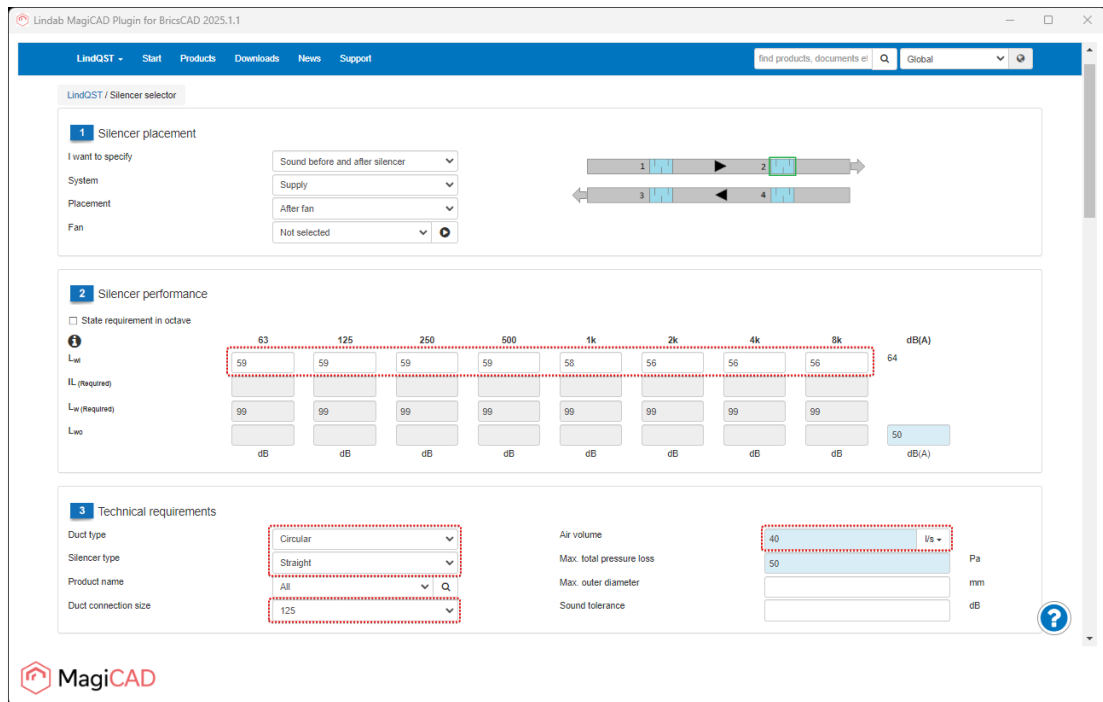
This command opens LindQST for selecting suitable silencer products into MagiCAD project.

Follow these steps to insert silencer from LindQST to MagiCAD project:

1. Click the "LindQST for silencers" button from LindQST plugin ribbon panel.
2. Select the duct where you want to add silencer to (this step can be skipped with ESC button):



- LindQST silencer selector is opened. If you selected the MagiCAD duct, information read from it is now populated automatically into corresponding fields in LindQST (fields highlighted in red):



LindQST / Silencer selector

1 Silencer placement

I want to specify: Sound before and after silencer

System: Supply

Placement: After fan

Fan: Not selected

2 Silencer performance

☐ State requirement in octave

	63	125	250	500	1k	2k	4k	8k	
L_{w}	59	59	59	59	58	56	56	56	64 dB(A)
IL (required)									
L_{w} (required)	99	99	99	99	99	99	99	99	
L_{w}									50 dB(A)

3 Technical requirements

Duct type: Circular

Silencer type: Straight

Product name: All

Duct connection size: 125

Air volume: 40 m^3/s

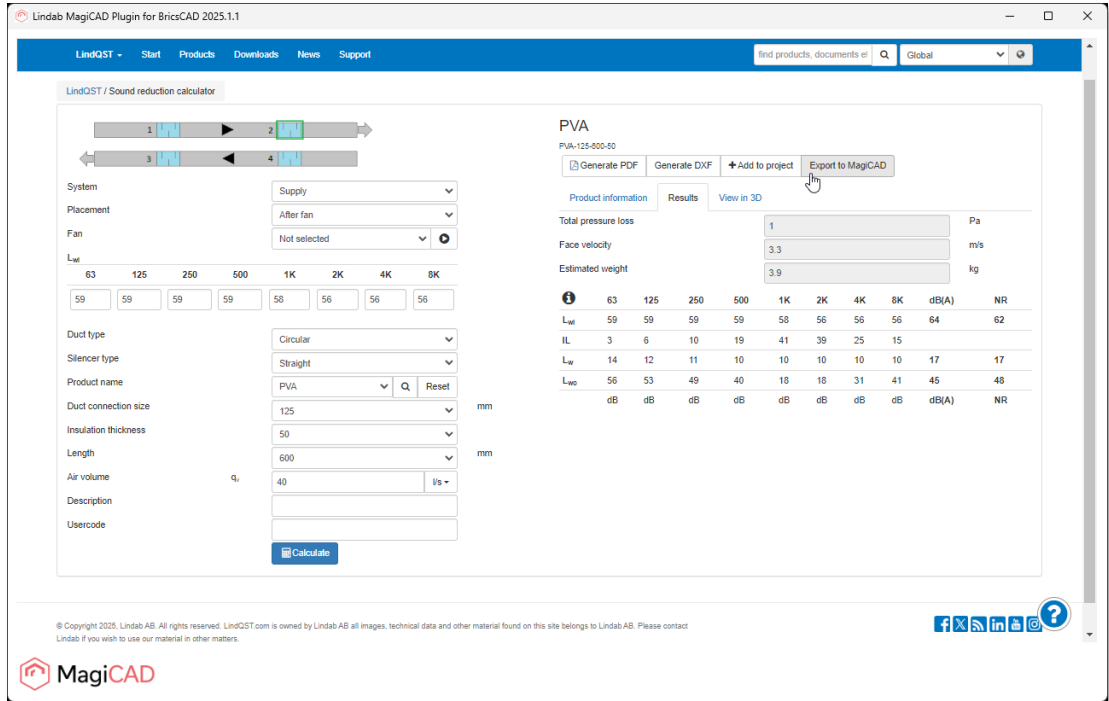
Max. total pressure loss: 50 Pa

Max. outer diameter: mm

Sound tolerance: dB

Sound values are available only in case sound calculations have been performed in MagiCAD.

- Proceed by clicking the wanted product from the search results. Silencer calculator is opened.



The screenshot shows the 'Lindab MagiCAD Plugin for BricsCAD 2025.1.1' window. The main interface is the 'LindQST / Sound reduction calculator' for the 'PVA' product. The left panel contains input fields for System (Supply), Placement (After fan), Fan (Not selected), and a table of L_w values. The right panel shows calculated values for Total pressure loss (1 Pa), Face velocity (3.3 m/s), and Estimated weight (3.9 kg). A table of sound reduction values (L_w, IL, L_p, L_{eq}) is also displayed. The 'Export to MagiCAD' button is highlighted.

System: Supply
Placement: After fan
Fan: Not selected
L_w: 63 125 250 500 1K 2K 4K 8K
 59 59 59 59 58 56 56 56
Duct type: Circular
Silencer type: Straight
Product name: PVA
Duct connection size: 125 mm
Insulation thickness: 50 mm
Length: 600 mm
Air volume: 40 l/s
Description:
Usercode:
 Calculate

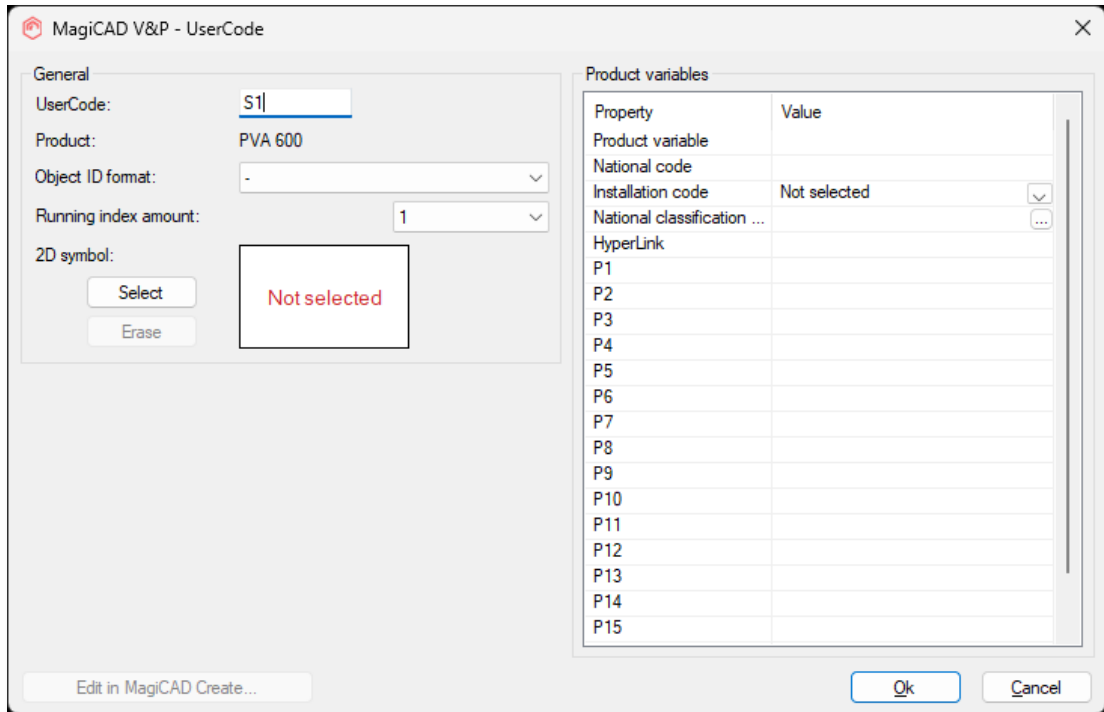
PVA
 PVA-125-600-50
 Generate PDF Generate DXF Add to project Export to MagiCAD
 Product information Results View in 3D
 Total pressure loss 1 Pa
 Face velocity 3.3 m/s
 Estimated weight 3.9 kg

	63	125	250	500	1K	2K	4K	8K	dB(A)	NR
L _w	59	59	59	59	58	56	56	56	64	62
IL	3	6	10	19	41	39	25	15		
L _p	14	12	11	10	10	10	10	10	17	17
L _{eq}	56	53	49	40	18	18	31	41	45	48
	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)	NR

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Calculate the product and then click Export to MagiCAD button in order to insert calculated product into MagiCAD project.

5. LindQST view is closed and MagiCAD user code and symbol selection view is opened:



The dialog box is titled "MagiCAD V&P - UserCode". It contains two main sections: "General" and "Product variables".

General section:

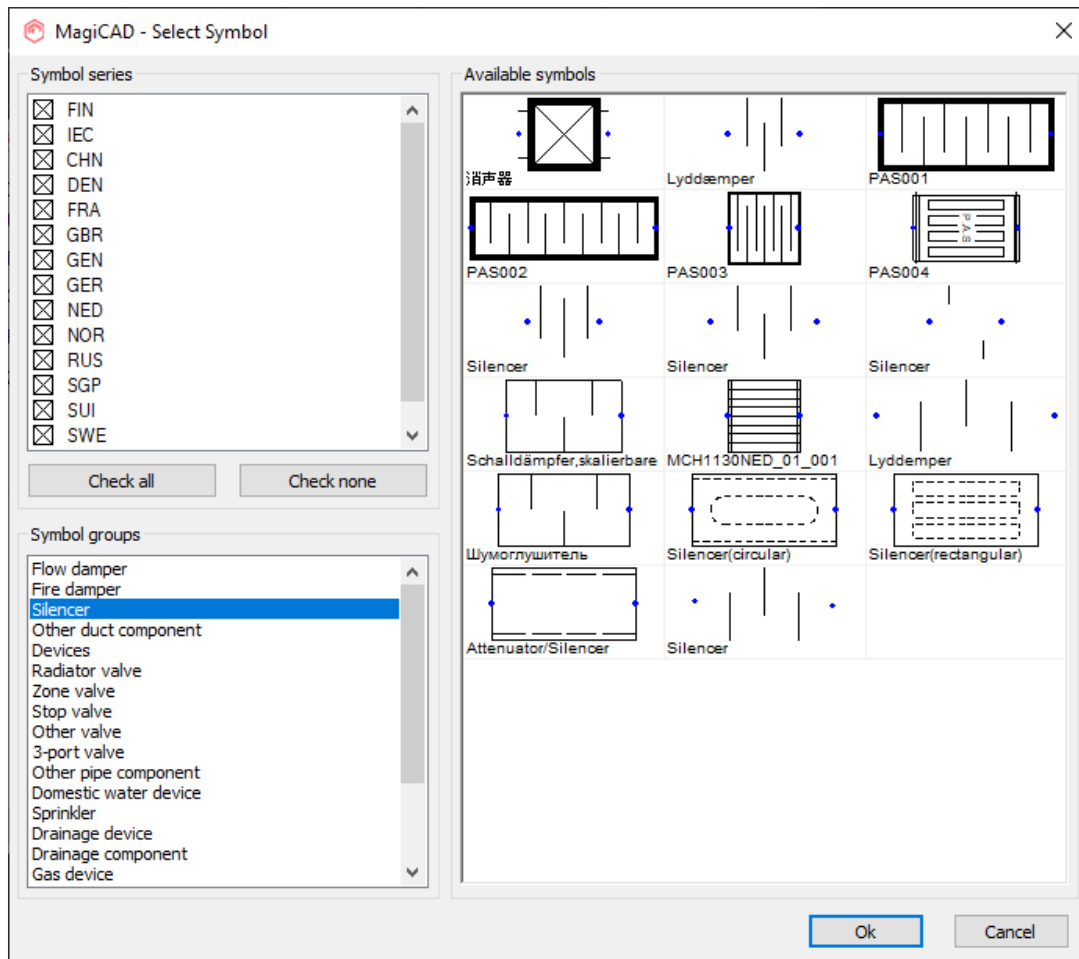
- UserCode:
- Product:
- Object ID format:
- Running index amount:
- 2D symbol: (with "Select" and "Erase" buttons)

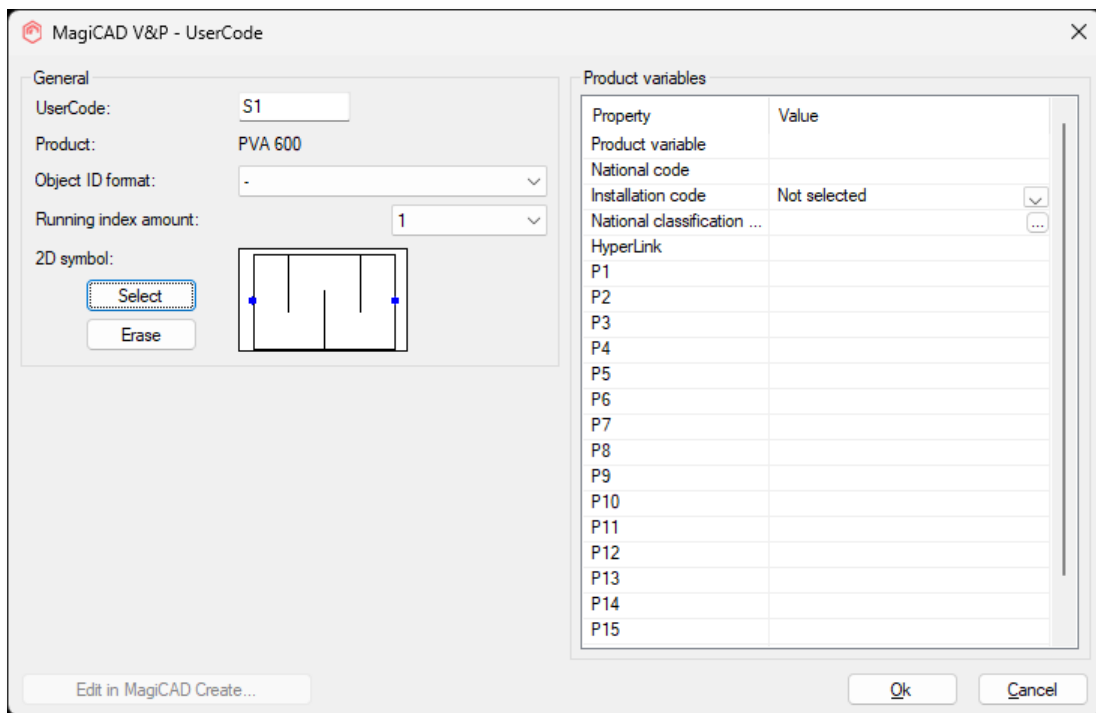
Product variables section:

Property	Value
Product variable	
National code	
Installation code	Not selected
National classification ...	
HyperLink	
P1	
P2	
P3	
P4	
P5	
P6	
P7	
P8	
P9	
P10	
P11	
P12	
P13	
P14	
P15	

Buttons at the bottom: "Edit in MagiCAD Create...", "Ok", and "Cancel".

2D symbol can be selected for the silencer by clicking the Select button:





The dialog box is titled "MagiCAD V&P - UserCode". It contains two main sections: "General" and "Product variables".

General section:

- UserCode: S1
- Product: PVA 600
- Object ID format: -
- Running index amount: 1
- 2D symbol: A diagram showing a rectangular box with three vertical lines inside. Below the diagram are "Select" and "Erase" buttons.

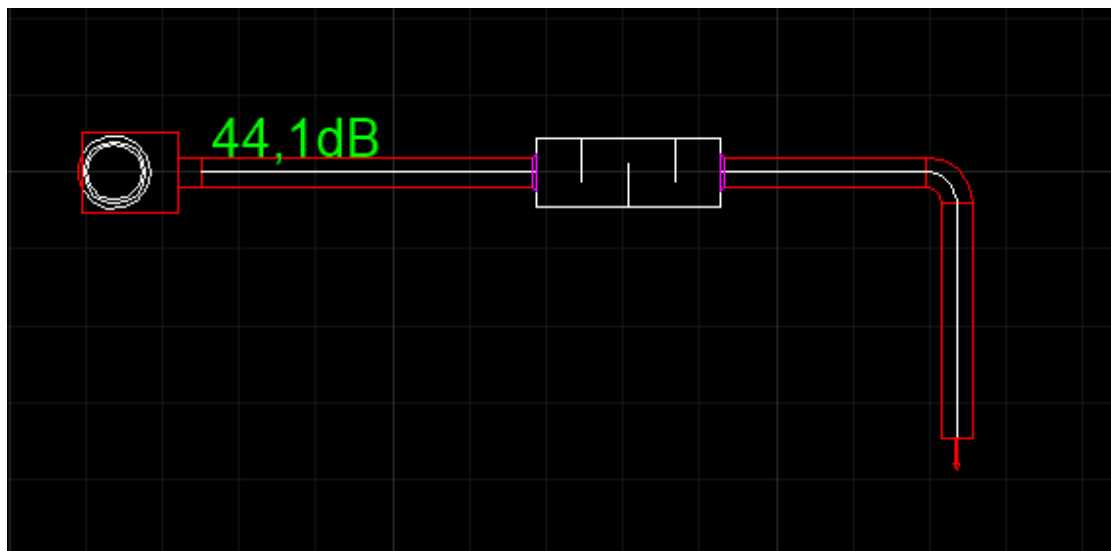
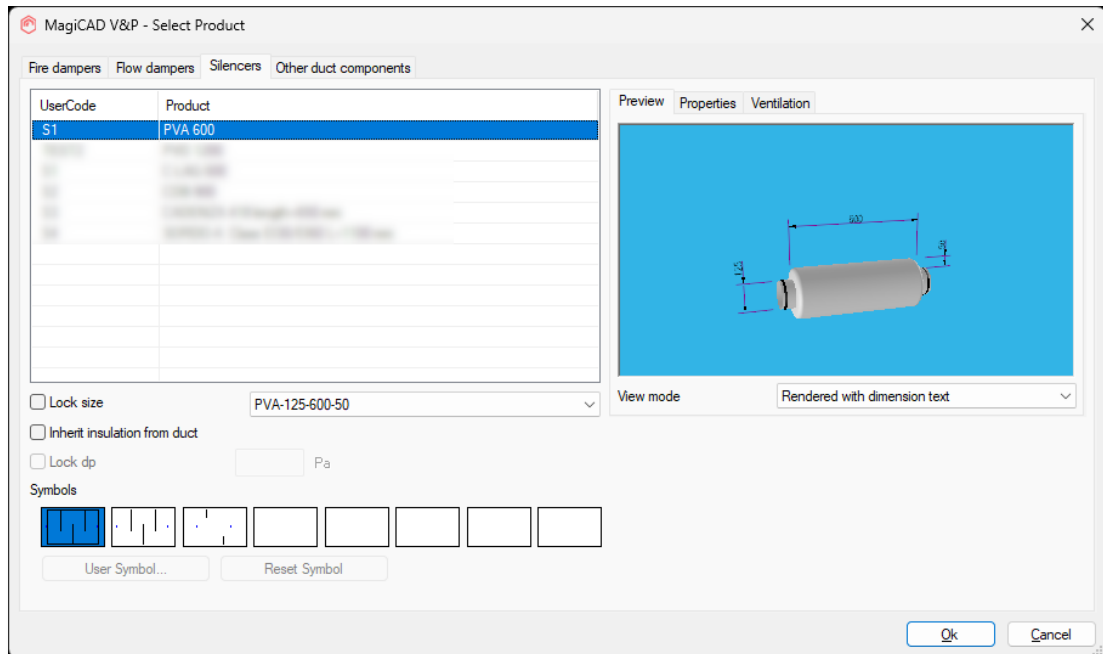
Product variables section:

Property	Value
Product variable	
National code	
Installation code	Not selected
National classification ...	
HyperLink	
P1	
P2	
P3	
P4	
P5	
P6	
P7	
P8	
P9	
P10	
P11	
P12	
P13	
P14	
P15	

At the bottom of the dialog, there is an "Edit in MagiCAD Create..." button on the left, and "Ok" and "Cancel" buttons on the right.

Once all the selections have been made proceed by clicking the OK button.

- Next MagiCAD insert view is opened, proceed by clicking OK button in order to place the silencer to the duct:

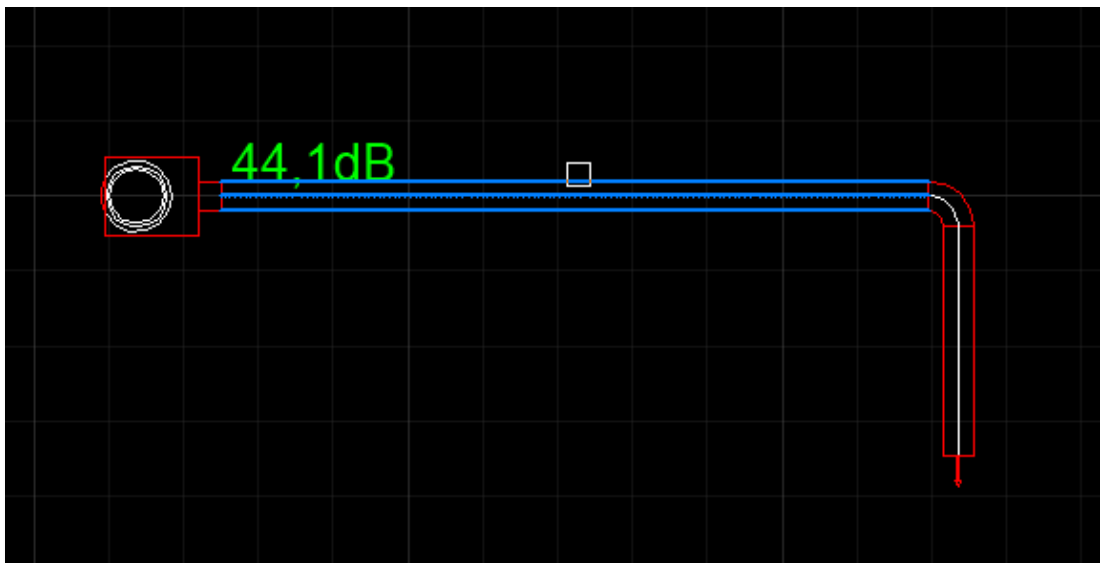


3.3 LindQST for dampers

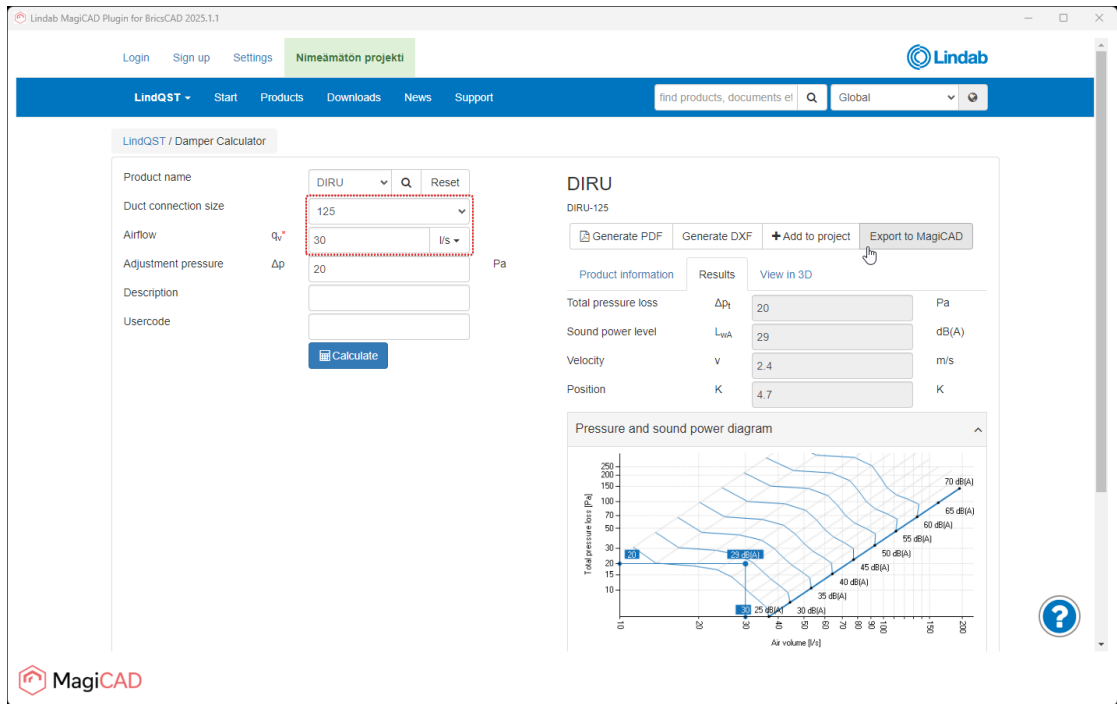
This command opens LindQST for selecting suitable damper products into MagiCAD project.

Follow these steps to insert damper from LindQST to MagiCAD project:

1. Click the "LindQST for dampers" button from LindQST plugin ribbon panel.
2. Select the duct where you want to add damper to (this step can be skipped with ESC button):



- LindQST damper calculator is opened. If you selected the duct in MagiCAD, information read from it is now populated automatically into corresponding fields in LindQST (fields highlighted in red):



Lindab MagiCAD Plugin for BricsCAD 2025.1.1

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LindQST / Damper Calculator

Product name DIRU Q Reset

Duct connection size 125

Airflow q_v 30 l/s

Adjustment pressure Δp 20 Pa

Description

Usercode

Calculate

DIRU

DIRU-125

Generate PDF Generate DXF + Add to project Export to MagiCAD

Product information Results View in 3D

Total pressure loss Δp_t 20 Pa

Sound power level L_{wA} 29 dB(A)

Velocity v 2.4 m/s

Position K 4.7 K

Pressure and sound power diagram

Total pressure loss [Pa]

Air volume [l/s]

70 dB(A)

65 dB(A)

60 dB(A)

55 dB(A)

50 dB(A)

45 dB(A)

40 dB(A)

35 dB(A)

30 dB(A)

25 dB(A)

20 dB(A)

15 dB(A)

10 dB(A)

5 dB(A)

0 dB(A)

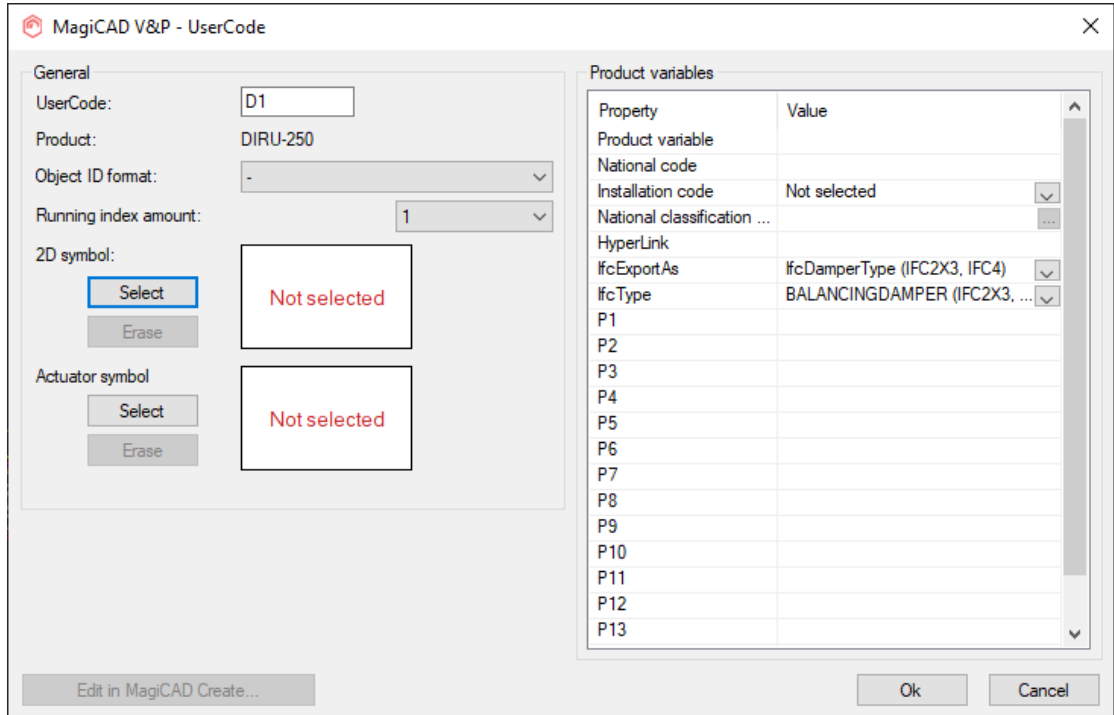
0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100

?

- Proceed by selecting the product and calculate it. Then click Export to MagiCAD button in order to insert selected damper into MagiCAD project.

5. LindQST view is closed and MagiCAD user code and symbol selection view is opened:



The dialog box is titled "MagiCAD V&P - UserCode". It contains two main sections: "General" and "Product variables".

General section:

- UserCode:
- Product:
- Object ID format:
- Running index amount:
- 2D symbol:

Not selected
- Actuator symbol:

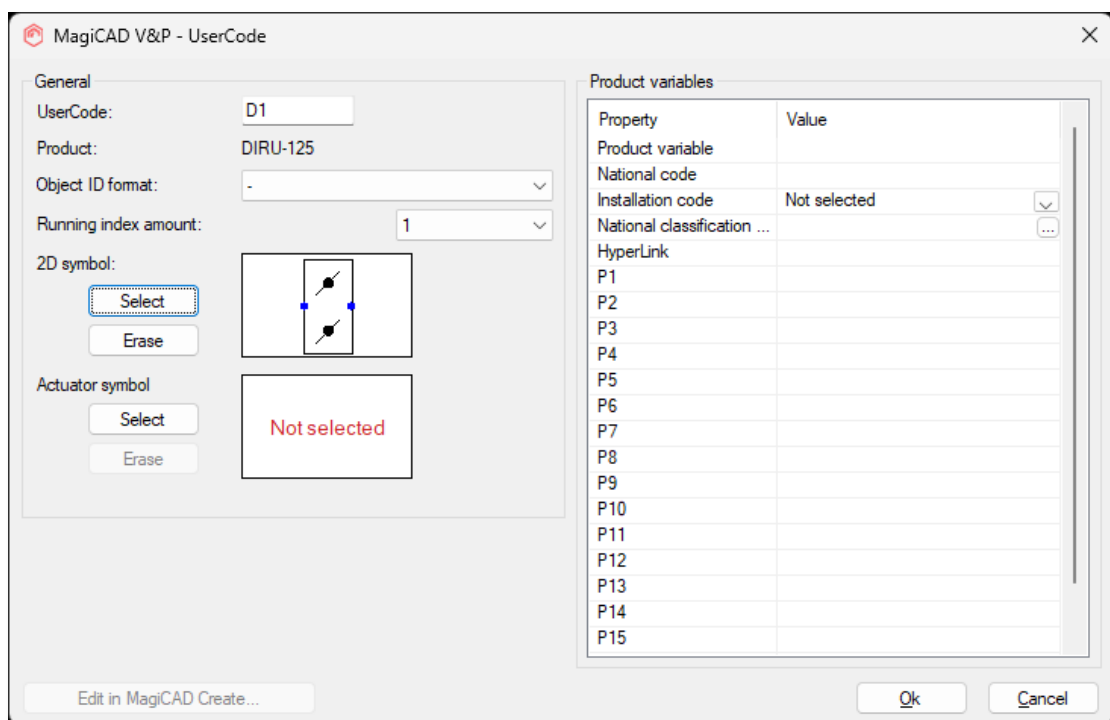
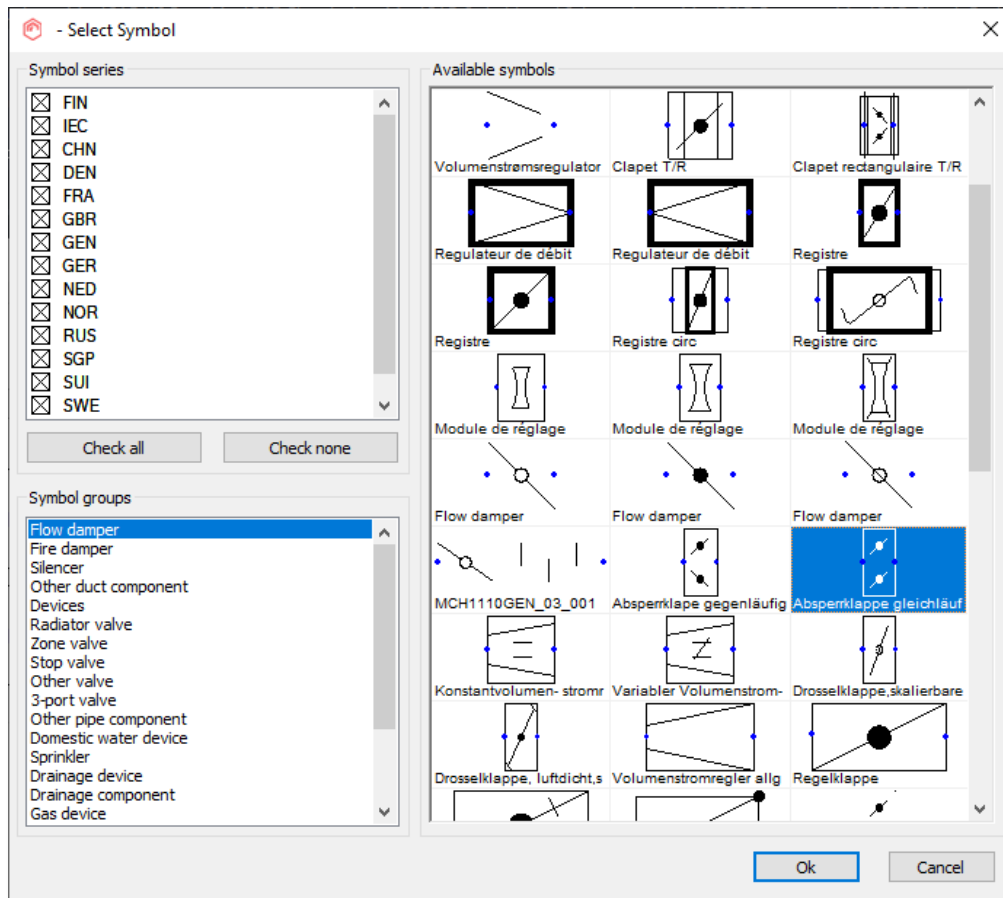
Not selected

Product variables section:

Property	Value
Product variable	
National code	
Installation code	Not selected
National classification ...	
HyperLink	
IfcExportAs	IfcDamperType (IFC2X3, IFC4)
IfcType	BALANCINGDAMPER (IFC2X3, ...)
P1	
P2	
P3	
P4	
P5	
P6	
P7	
P8	
P9	
P10	
P11	
P12	
P13	

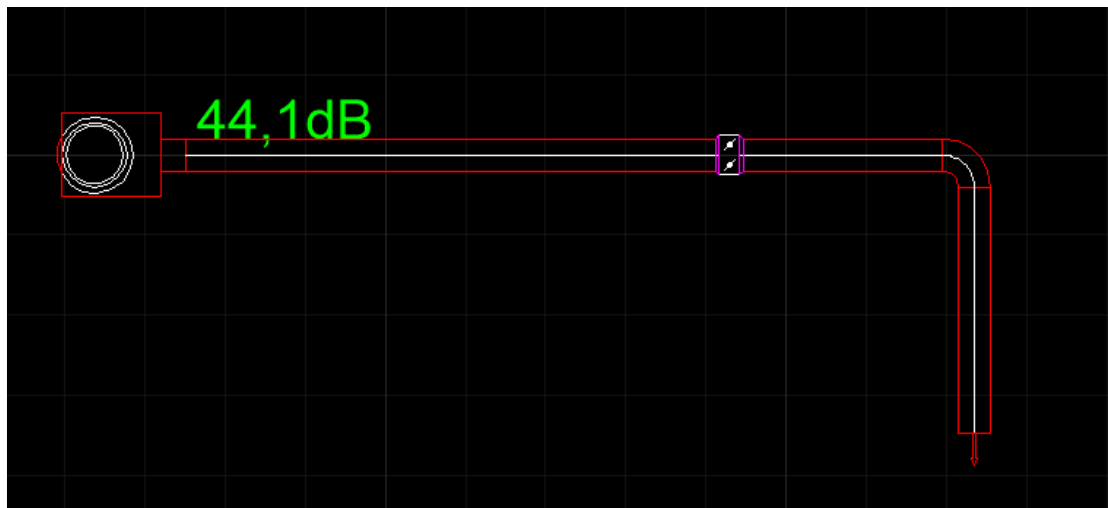
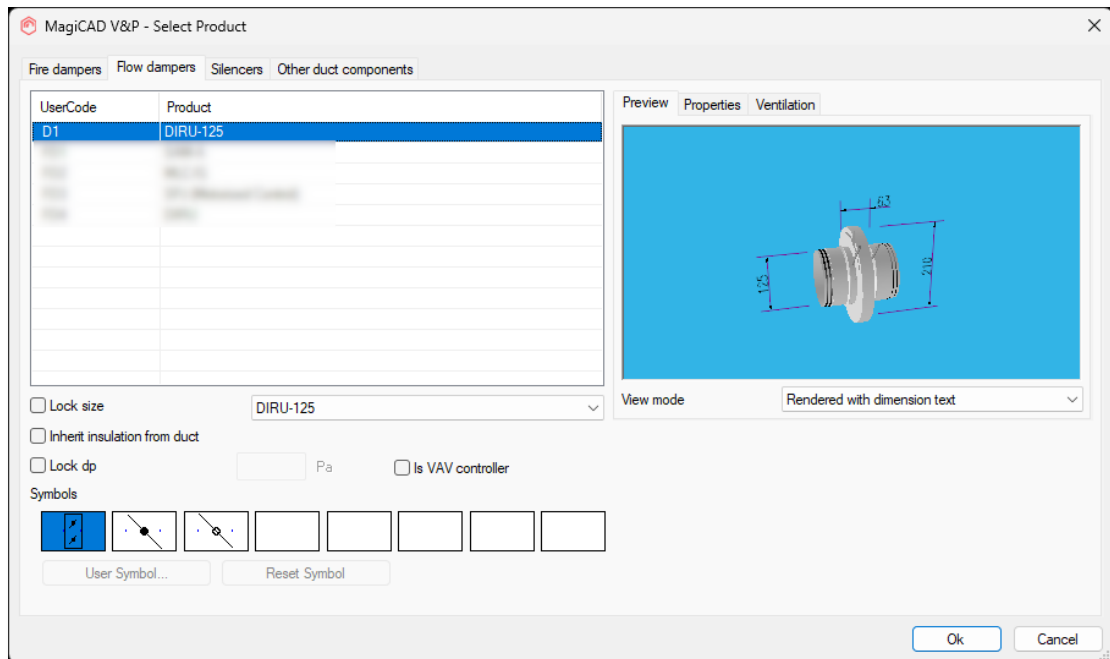
At the bottom, there is a button "Edit in MagiCAD Create..." and "Ok" and "Cancel" buttons.

2D symbol can be selected for the damper by clicking the Select button.



Once all selections have been made proceed by clicking the OK button.

- Next MagiCAD insert view is opened, proceed by clicking OK button in order to place the damper to the duct:

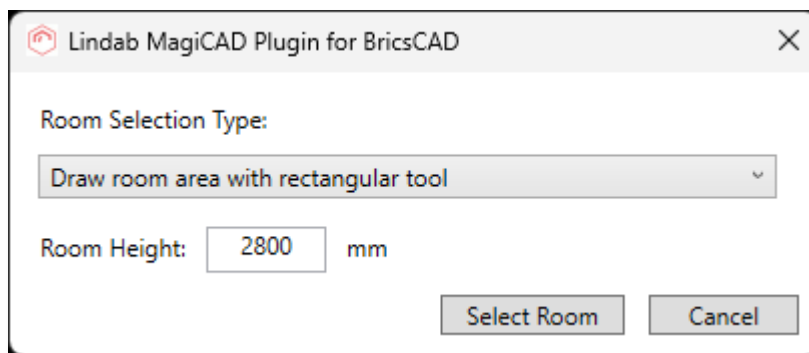


3.4 Open rooms

Open Rooms command allows user to select the room area(s) from MagiCAD drawing and export the room geometries to LindQST. User can add products to the rooms in LindQST Indoor climate designer and take advantage of the room functionalities in LindQST. Once the ventilation design for the rooms is ready, user can insert products to MagiCAD drawing.

Follow these steps to use the Open rooms command:

1. Click Open Rooms command from the plugin ribbon panel.
2. Room selection type dialog is opened.

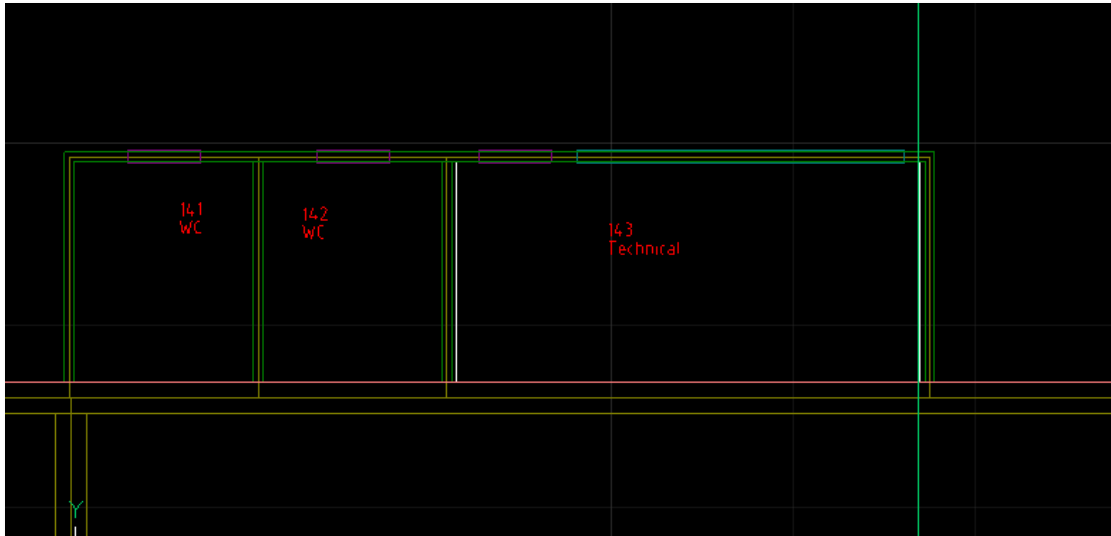


From this view user can choose the way to show the room area. Following options are available:

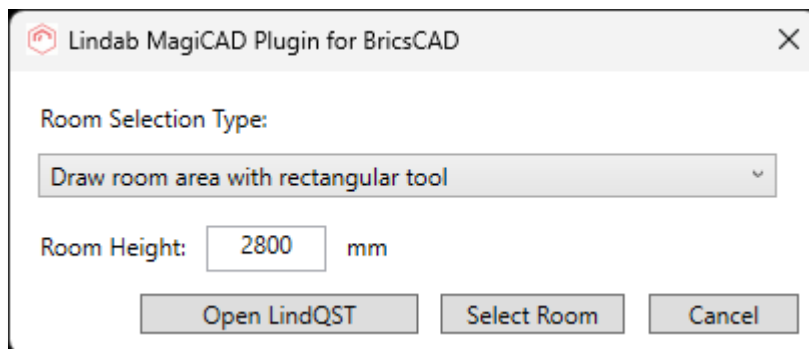
- Draw room area with rectangular tool
- Draw room area with line tool

In this example case we choose to use rectangular tool as the room we are going to select has rectangular shape. Notice that also the room height is defined in the dialog above. By default it has the height level defined in MagiCAD floor settings. Once the selections have been made click Select Room button.

3. Proceed by showing the room area with rectangular tool:

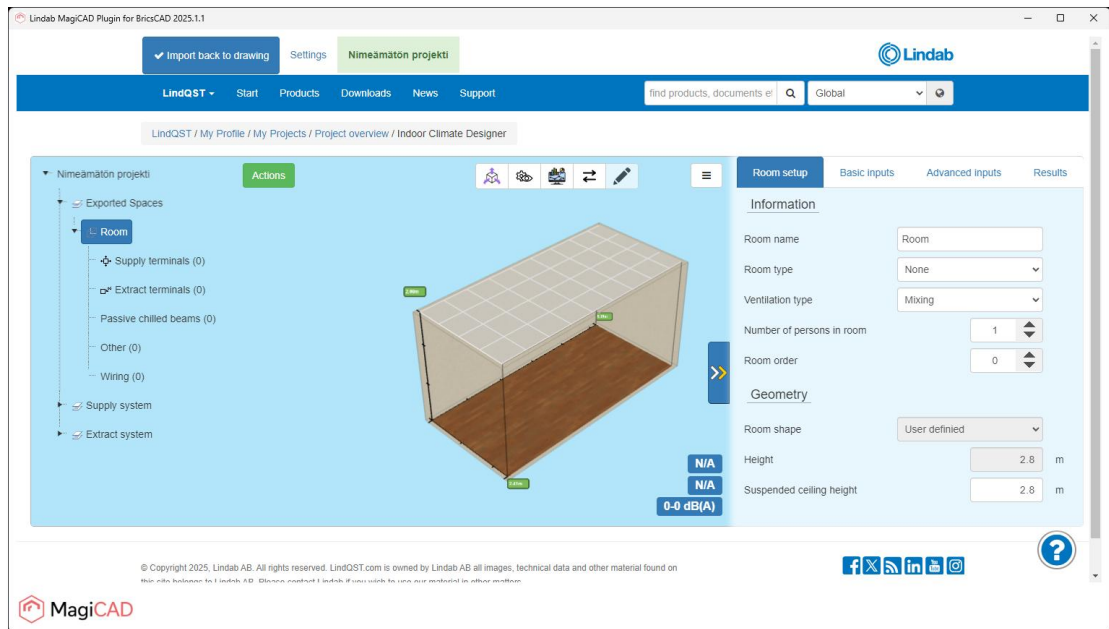


4. Once the area has been selected, the room selection type dialog is opened again allowing you to either select another room or continue to LindQST with already selected rooms.

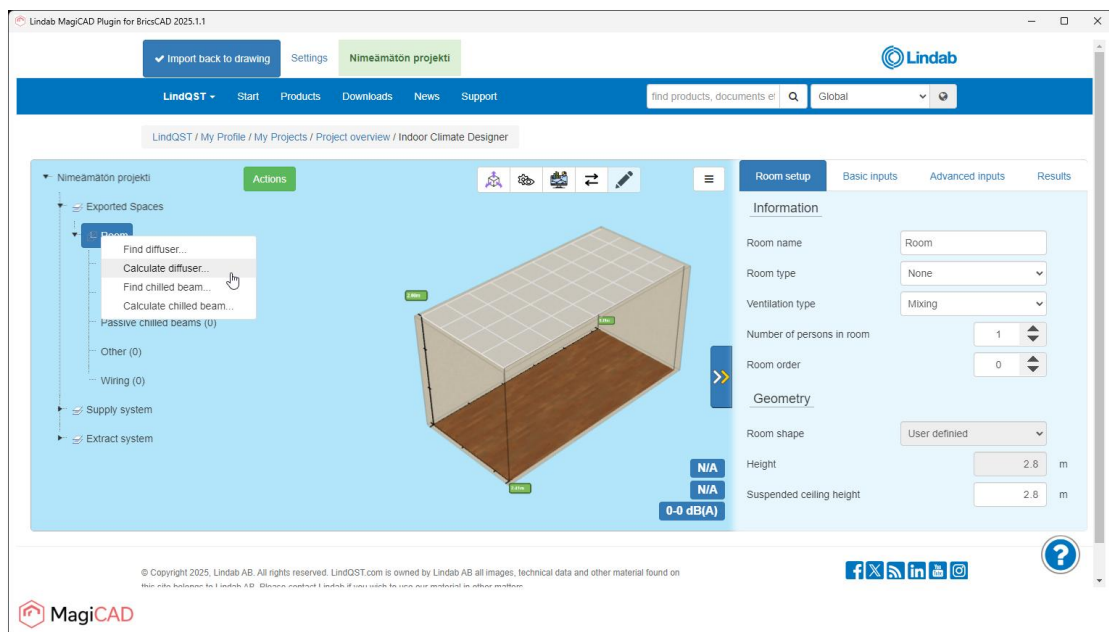


In this example case we click now Open LindQST button in order to open selected room in LindQST Indoor climate designer. Optionally user could select another room first by clicking Select Room button.

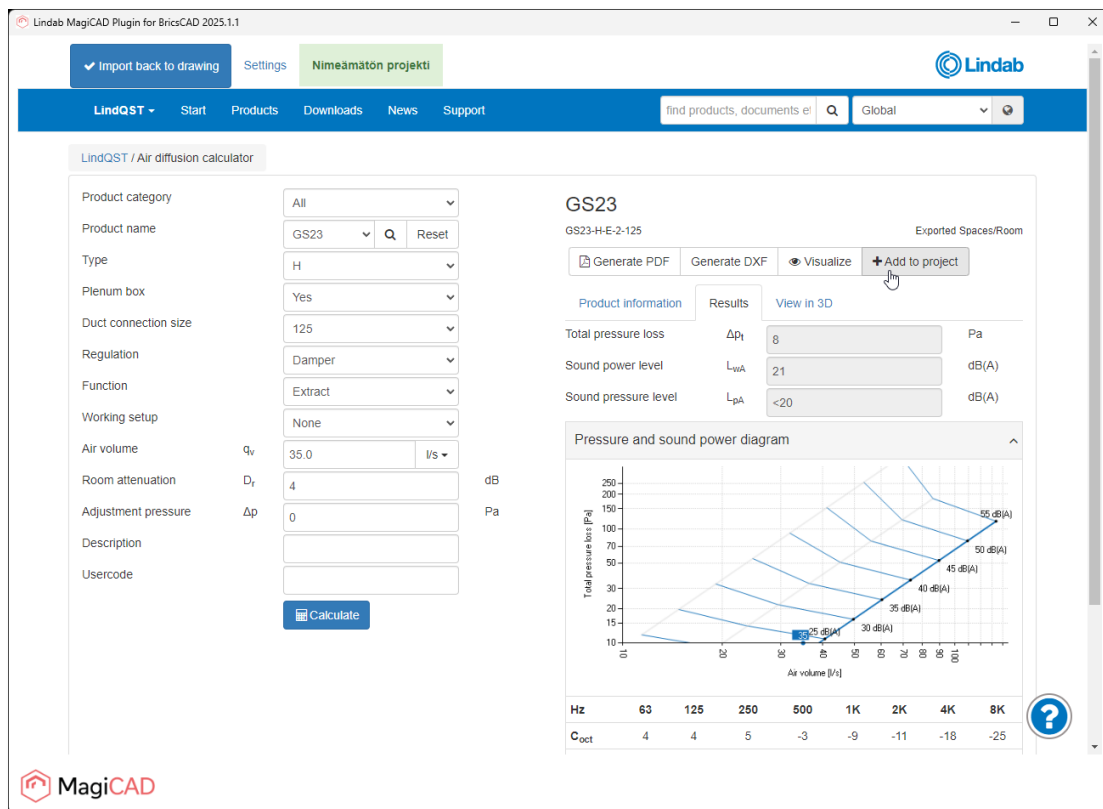
- LindQST Indoor climate designer is opened, and the selected room area is loaded:



- Proceed for example by adding wanted products to the room(s):



7. Select product and click Add to project.



Lindab MagiCAD Plugin for BricsCAD 2025.1.1

Import back to drawing Settings Nimeamaton projekti

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LindQST / Air diffusion calculator

Product category All

Product name GS23 Q Reset

Type H

Plenum box Yes

Duct connection size 125

Regulation Damper

Function Extract

Working setup None

Air volume q_v 35.0 l/s

Room attenuation D_r 4 dB

Adjustment pressure Δp 0 Pa

Description

Usercode

Calculate

GS23

GS23-H-E-2-125

Exported Spaces/Room

Generate PDF Generate DXF Visualize + Add to project

Product information Results View in 3D

Total pressure loss Δp_t 8 Pa

Sound power level L_{WA} 21 dB(A)

Sound pressure level L_{pA} <20 dB(A)

Pressure and sound power diagram

Total pressure loss (Pa)

Air volume (l/s)

Hz	63	125	250	500	1K	2K	4K	8K
C_{oct}	4	4	5	-3	-9	-11	-18	-25

Lindab MagiCAD Plugin for BricsCAD 2025.1.1

Import back to drawing Settings Nimeamaton projekti

LindQST -

LindQST / Air diff

Product category

Product name

Type

Plenum box

Duct connection

Regulation

Function

Working setup

Air volume q_v 35.0 l/s

Room attenuation D_r 4 dB

Adjustment pressure Δp 0 Pa

Description

Usercode

Calculate

Add to project

Please note that any room-related parameter used in the calculation will not be transferred to any existing room.

Project Nimeamaton projekti

Floor Exported Spaces

Room Room

Number of products 1

+ Add

Indoor Climate Designer System Sound Calculator Close

Pressure and sound power diagram

Total pressure loss [Pa]

Air volume [l/s]

55 dB(A) 50 dB(A) 45 dB(A) 40 dB(A) 35 dB(A) 30 dB(A) 25 dB(A)

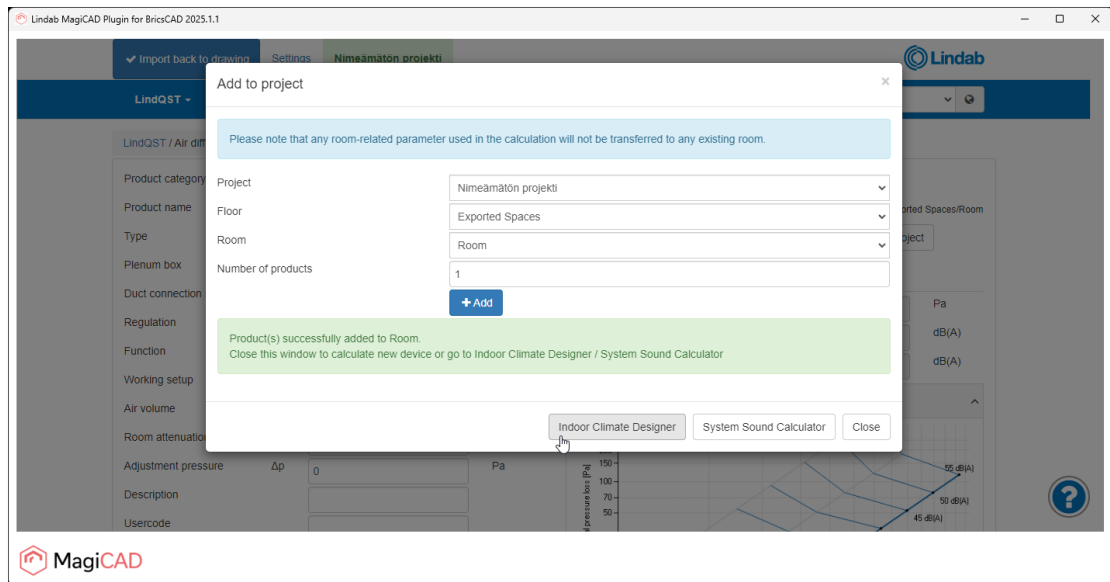
Hz 63 125 250 500 1K 2K 4K 8K

C_{oct} 4 4 5 -3 -9 -11 -18 -25

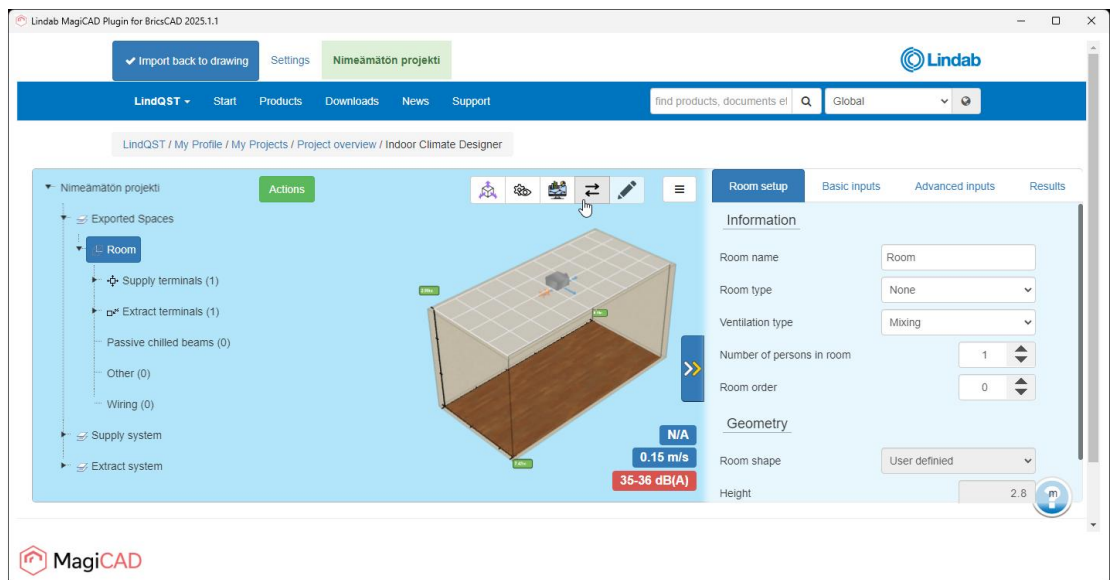


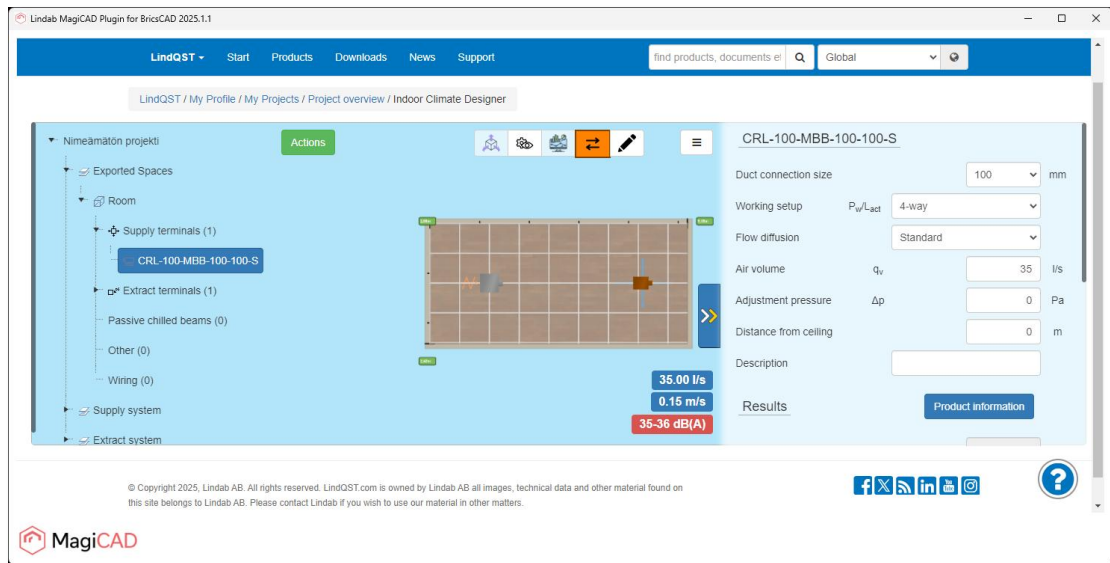
 MagiCAD

8. Add another product if needed.

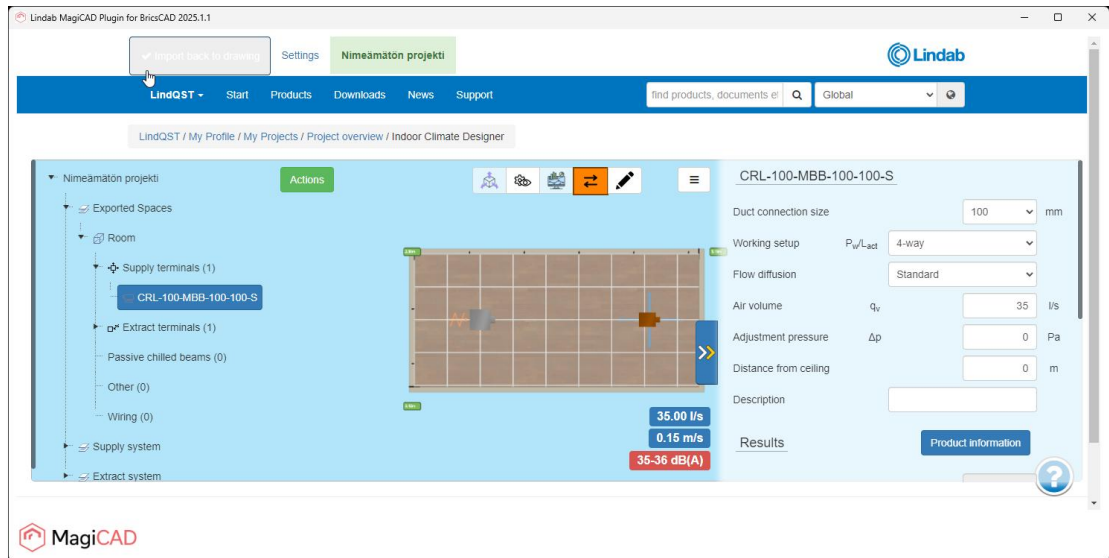


9. Added products are loaded to the room, and placed into the default location. Click Edit button in order to position the products.

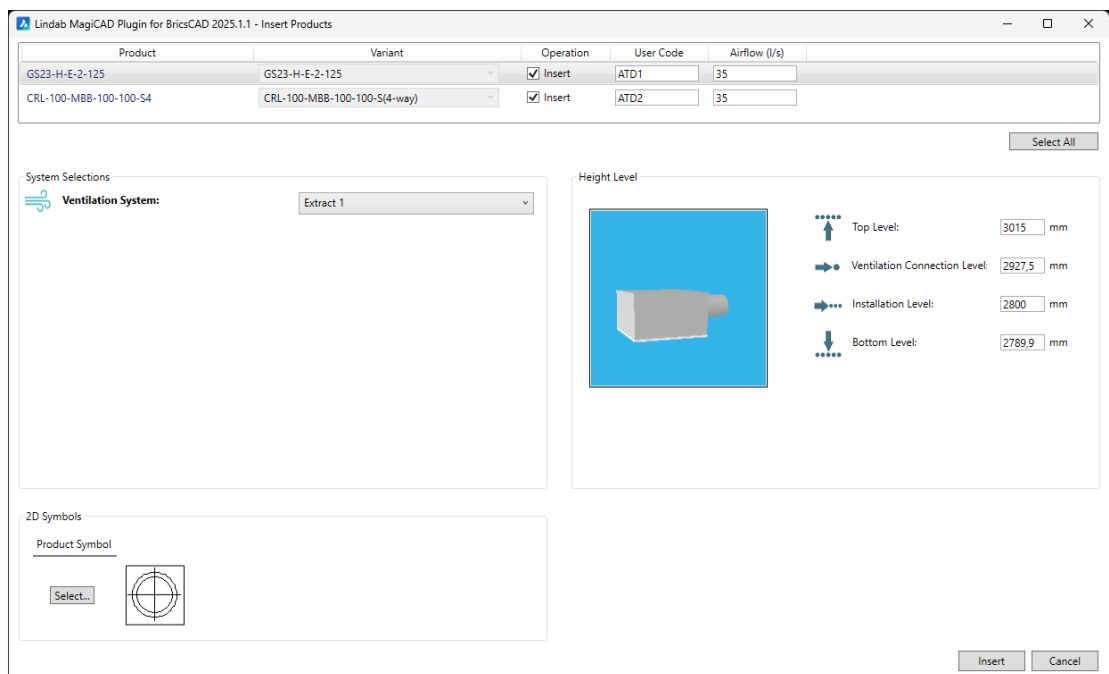




10. Once products are in place and you have finished modifying the room in LindQST, proceed by clicking the Import back to drawing button in order to send added products to MagiCAD:

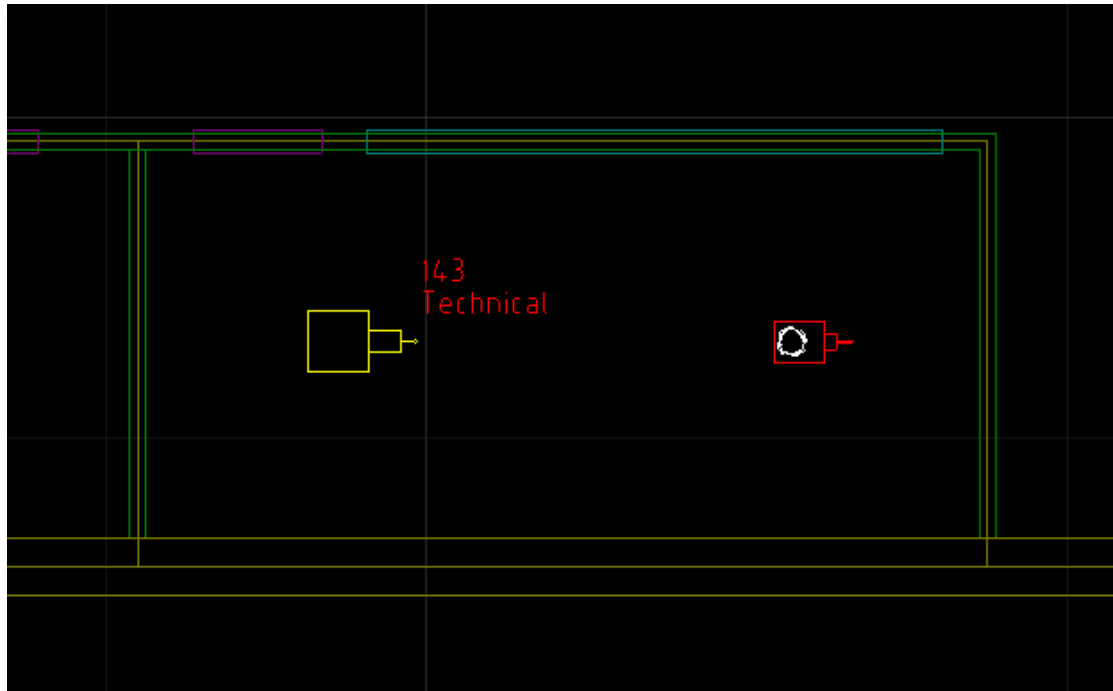


11. LindQST is closed and Insert Products view from the plugin is opened:



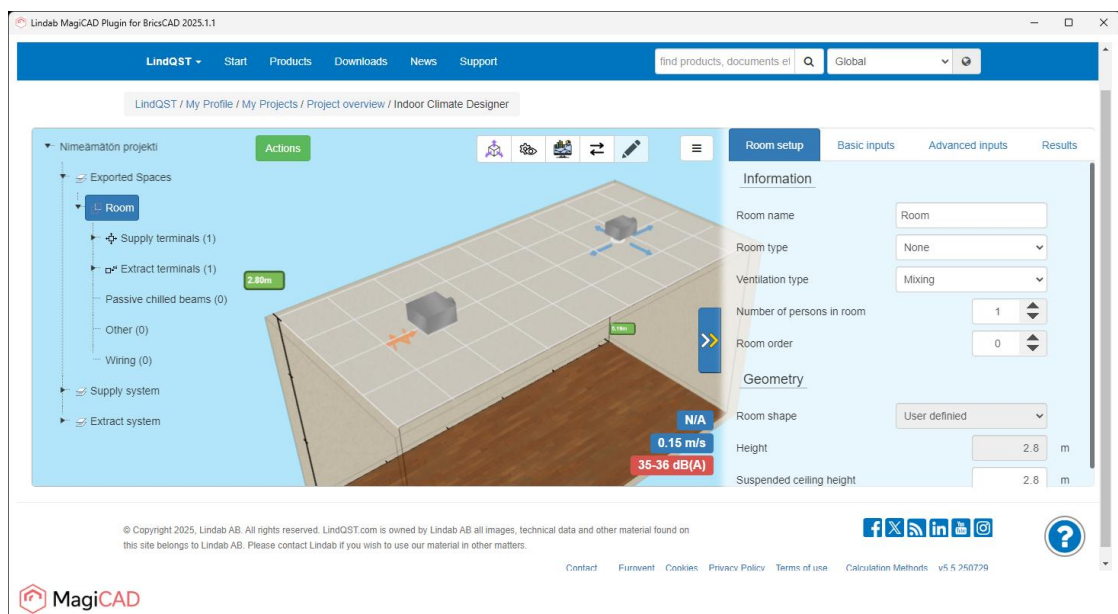
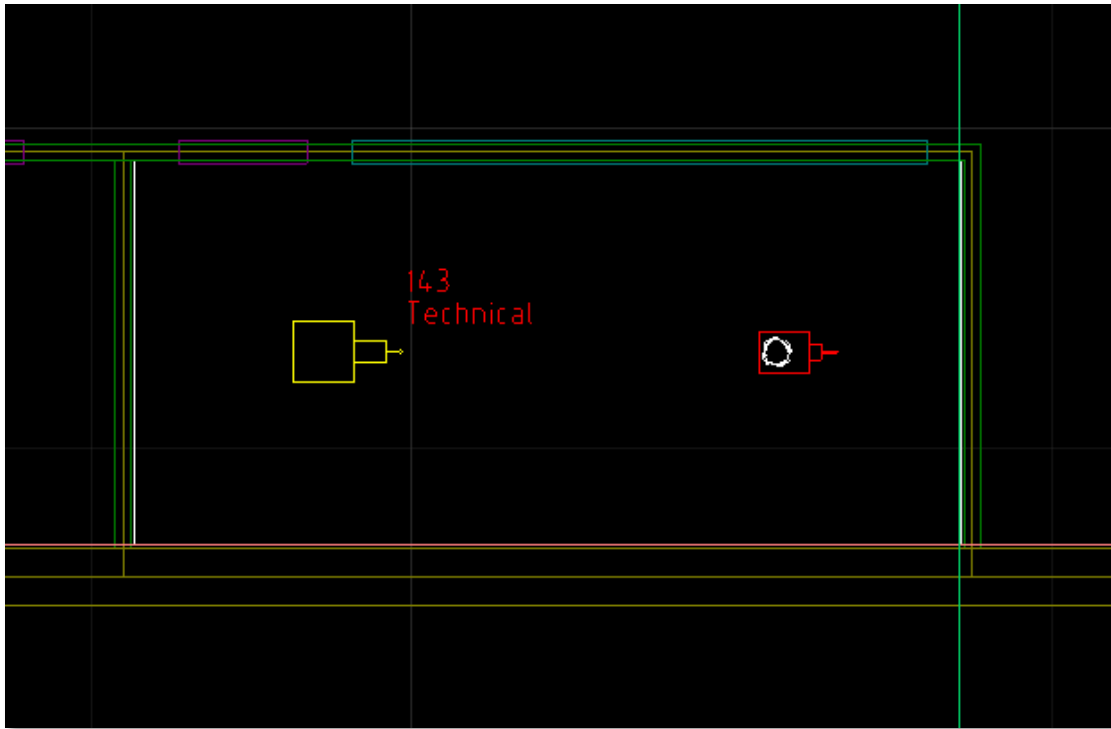
Select required systems for the products. Also 2D symbol can be selected for airborne products. Once selections have been made click Insert button.

12. Products are now placed to the drawing into locations defined in LindQST Indoor climate designer.



The command is now complited.

13. Room can be re-opened with Open rooms command if needed. When the room is opened again, also the existing products in the room are recognized and transferred to LindQST.



14. User can add more products to the room or modify the existing ones if needed. Once modifications to the products have been made, updates can be sent back to MagiCAD and BricsCAD by clicking the Import back to drawing button.