



Swegon Acoustic Design MagiCAD Cloud Plugin for AutoCAD

22/09/2026

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1 General

1.1 About This Document

This document contains instructions on how to install and use *Swegon Acoustic Design MagiCAD Cloud plugin for AutoCAD*.

Swegon Acoustic Design plugin is Autodesk AutoCAD add-in application, and it works on AutoCAD platform with MagiCAD (Both applications required). Plugin integrates Swegon Acoustic Design silencer product selection tool into AutoCAD and allows user to insert, replace and list the Swegon AB silencers in AutoCAD drawing and MagiCAD project.

1.2 Installing the Plugin

1.2.1 Required Software

Swegon Acoustic Design plugin works with the following AutoCAD and MagiCAD versions.

- MagiCAD 2026 with AutoCAD versions 2023-2026
- MagiCAD 2027 with AutoCAD versions 2023-2027

1.2.2 Installation

Administrator privileges are recommended for installation.

1. Download the installation package from MagiCAD portal.
<https://portal.magicad.com/download/ProductSearch?searchStr=Swegon&categoryId=3>
2. Run the installer on your workstation. Notice that the installer installs also other Swegon plugin applications. Installation is done to the same AutoCAD platform version where MagiCAD is installed.

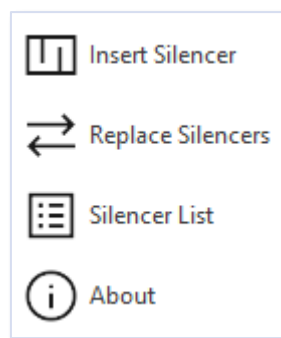
1.3 Starting the Plugin

The plugin app is automatically loaded, and it is ready to be used once AutoCAD is started next time after the plugin installation.

Swegon AB plugins ribbon panel can be found from MagiCAD Connect tab in AutoCAD. When the drop-down button is clicked, the list of available operations will be shown. Plugin contains four operations:

- **Insert Silencer** which contains the insert silencer product from Acoustic Design selection tool.
- **Replace Silencers** which contains the replace silencer product with another silencer with Acoustic Design selection tool.
- **Silencer List** which finds all Swegon AB silencers from AutoCAD drawing and shows the complete list in Acoustic Design.
- **About** which shows a generic information of the plugin application.

The icons of ribbon buttons will adjust according to the AutoCAD colour themes (dark and light). If user changes the colour theme, AutoCAD restart is needed to show correct icons in ribbon buttons.



2 How to use the plugin

2.1 Insert Silencer operation

2.1.1 Product selection

This command opens the Acoustic Design silencer selection tool in plugin browser where user can select the silencer product and filter the products according to the needs.

Plugin reads the market area information from the MagiCAD project and passes this information to selection tool.

The product selection filtering input values will be collected directly from the AutoCAD drawing and MagiCAD ducts. The availability of the technical data depends on the MagiCAD specific calculations. If ductwork is calculated with MagiCAD balancing and sound calculation, then the following data is available:

- Duct size, air flow, direction, type and system type
- Sound generation data in selected duct part

If calculation has not been done, then sound generation and air flow data is not available.

1. *Insert Silencer* operation can be started in three different ways.
 - a. Find the MagiCAD Connect tab, Swegon AB panel and start the *Insert Silencer* operation from the ribbon button.
 - b. Use AutoCAD command line command *SWEGON_AD_INSERT*.
 - c. Open AutoCAD context menu with mouse right-click and select Swegon Acoustic Design > Insert Silencer.
2. Plugin app asks for user to select straight or bend duct part. The selection can be skipped with ESC key. Based on the selection, the plugin app will read the technical data from the selected part and passes that information for Acoustic Design selection tool. Data is used as product filtering values in Acoustic Design.
3. After selection or skip the plugin opens the selection tool into its browser view. Data read from the duct is visible in the selection tool. Click the add button to add the silencer product into MagiCAD project and AutoCAD drawing.

Swegon AB Acoustic Design MagiCAD Cloud Plugin for AutoCAD 2026.9.2

Product selector

Region

Market area ⓘ

Global

Connection shape

Circular

Rectangular

Rectangular Elbow

Splitter

Circular Elbow

Input

Connection Dimension

315

mm

Airflow

120

l/s

Velocity (gross area)

= 1.54 m/s

Sound

☒ Sound requirement
 ☐ Required insertion loss

Sound requirement

Metric

dB(A)

Value

55

Sound before silencer

63

125

250

500

1k

2k

4k

8k

60

dB

60

dB

60

dB

60

dB

60

dB

60

dB

60

dB

= 67 dB(A)

Sound

System Effects

Silencer Inlet Condition

Ideal Conditions - 3 to 4 diameters of straight duct

Silencer Outlet Condition

Ideal Conditions - 3 to 4 diameters of straight duct

SHOW PRODUCTS

Displaying 13 out of 13
silencers

Swegon AB Acoustic Design MagiCAD Cloud Plugin for AutoCAD 2026.9.2

SHOW PRODUCTS

Displaying 13 out of 13 silencers

Product

☒ All

☐ SORDO-A

☐ CLA-A

☐ CLA-B

☐ SORDO-B

☐ SORDO-C

Filter

Max length

1100 mm

Max pressure drop

Pa

Certificates

☐ EPD

☐ Byggsvarubedömningen

☐ Nordic Swan

☐ M1

☐ Type approval

RESET FILTERS

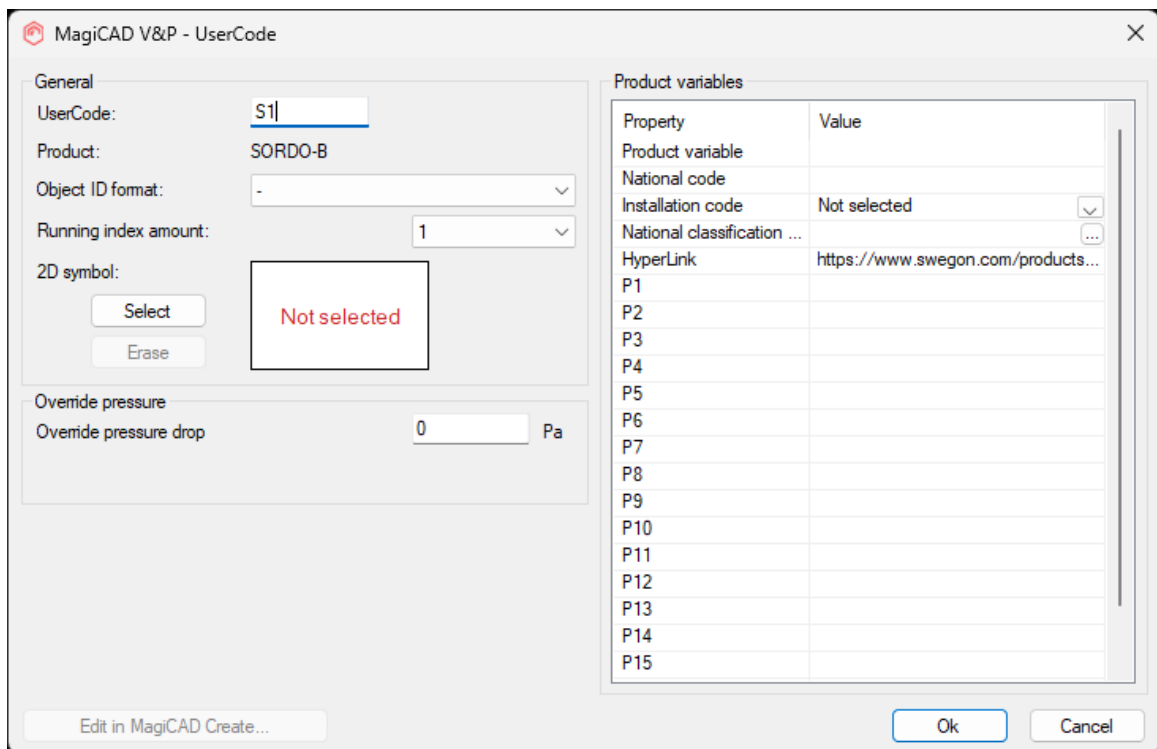
Name	Length	Pressure drop	GWP-GHG A1-A3	65	125	250	500	1k	2k	4k	8k	dB(A)	
 CLA-A CLA-A-315-500	500 mm	0 Pa	16.1 kg CO ₂ e	-4	-6	-7	-9	-12	-8	-8	-5		ADD
				22	22	18	16	13	10	<10	<10		
				56	54	53	51	48	52	52	55	59	
 CLA-A CLA-A-315-1000	1000 mm	1 Pa	30.1 kg CO ₂ e	-6	-10	-12	-17	-24	-21	-12	-7		ADD
				22	22	18	16	13	10	<10	<10		
				54	50	48	43	36	39	48	53	54	
 CLA-B CLA-B-315-500	500 mm	4 Pa		-4	-6	-8	-14	-25	-19	-14	-8		ADD
				15	15	11	<10	<10	<10	<10	-		
				56	54	52	46	35	41	46	52	54	
 CLA-B CLA-B-315-1000	1000 mm	4 Pa		-6	-10	-14	-26	-45	-42	-21	-12		ADD
				15	15	11	<10	<10	<10	<10	-		
				54	50	46	34	15	18	39	48	48	
 SORDO-A SORDO-A-315-500	500 mm	0 Pa	11.8 kg CO ₂ e	-1	-3	-4	-7	-10	-7	-6	-2		ADD
				18	17	<10	<10	-	-	-	-		
				59	57	56	53	50	53	54	58	61	
 SORDO-A SORDO-A-315-800	800 mm	0 Pa	17.9 kg CO ₂ e	-1	-4	-7	-12	-17	-14	-8	-4		ADD
				18	17	<10	<10	-	-	-	-		
				59	56	53	48	43	46	52	56	58	
 SORDO-A SORDO-A-315-1100	1100 mm	0 Pa	24.1 kg CO ₂ e	-2	-5	-9	-17	-25	-21	-10	-6		ADD
				18	17	<10	<10	-	-	-	-		
				58	55	51	43	35	39	50	54	56	
 SORDO-B SORDO-B-315-500	500 mm	2 Pa		-4	-8	-10	-17	-24	-28	-19	-11		ADD
				22	21	13	<10	<10	-	-	<10		
				56	52	50	43	36	32	41	49	50	
 SORDO-B SORDO-B-315-800	800 mm	2 Pa		-4	-9	-13	-22	-31	-35	-21	-13		ADD
				22	21	13	<10	<10	-	-	<10		
				56	51	47	38	29	25	39	47	48	
 SORDO-B SORDO-B-315-1100	1100 mm	2 Pa		-5	-10	-15	-27	-39	-42	-23	-15		ADD
				22	21	13	<10	<10	-	-	<10		
				55	50	45	33	21	18	37	45	46	
 SORDO-C SORDO-C-315-500	500 mm	0 Pa		-3	-6	-7	-11	-14	-10	-8	-3		ADD
				18	17	<10	<10	-	-	-	-		
				57	54	53	49	46	50	52	57	59	
 SORDO-C SORDO-C-315-800	800 mm	0 Pa		-3	-7	-10	-16	-21	-17	-10	-5		ADD
				18	17	<10	<10	-	-	-	-		
				57	53	50	44	39	43	50	55	56	

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2.1.2 Product installation with MagiCAD

This chapter describes how the plugin will add the product to MagiCAD project and AutoCAD drawing , after the product is selected and configured in Acoustic Design. Product is added to MagiCAD project and then it's installed in the AutoCAD drawing, into user defined part of duct and as 3D geometry model.

1. First the product will be added to MagiCAD project and user code dialog is visible for user. Give the user code for the silencer and click OK button. Silencer is added to the MagiCAD project.



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

General section:

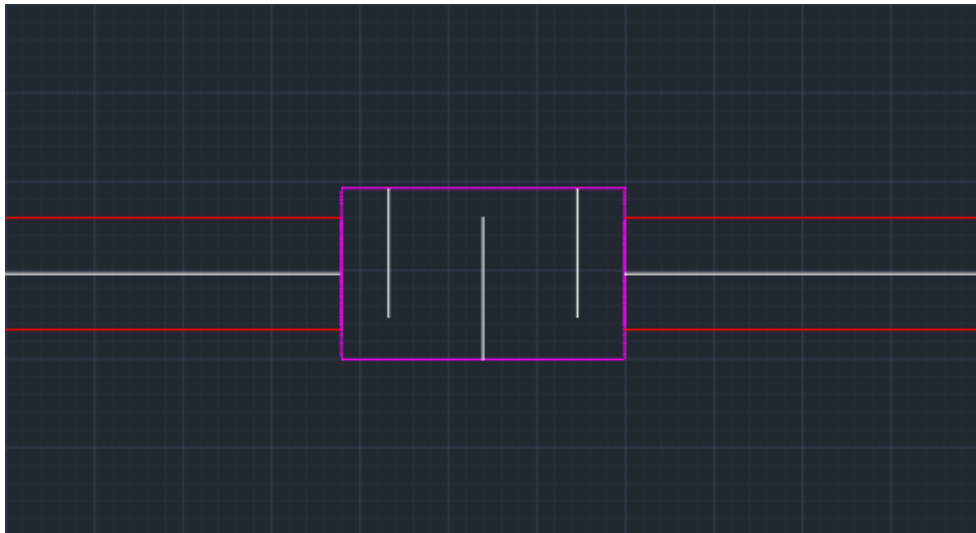
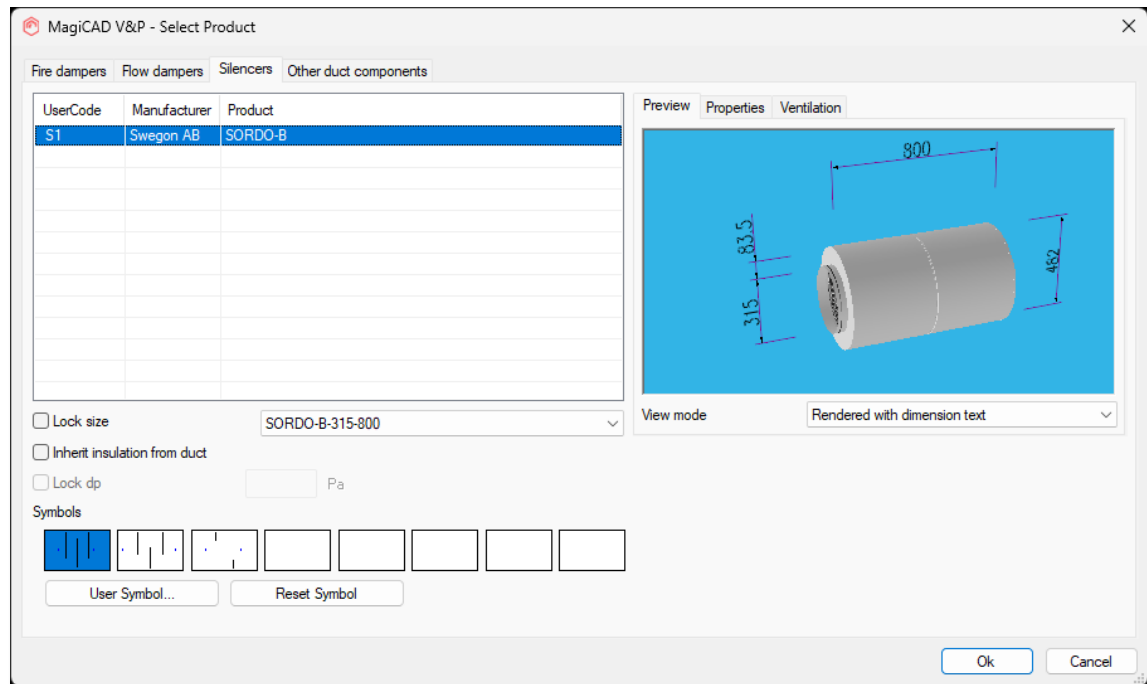
- UserCode:
- Product:
- Object ID format:
- Running index amount:
- 2D symbol: (with "Select" and "Erase" buttons)
- Override pressure: Pa
- Override pressure drop: Pa

Product variables section:

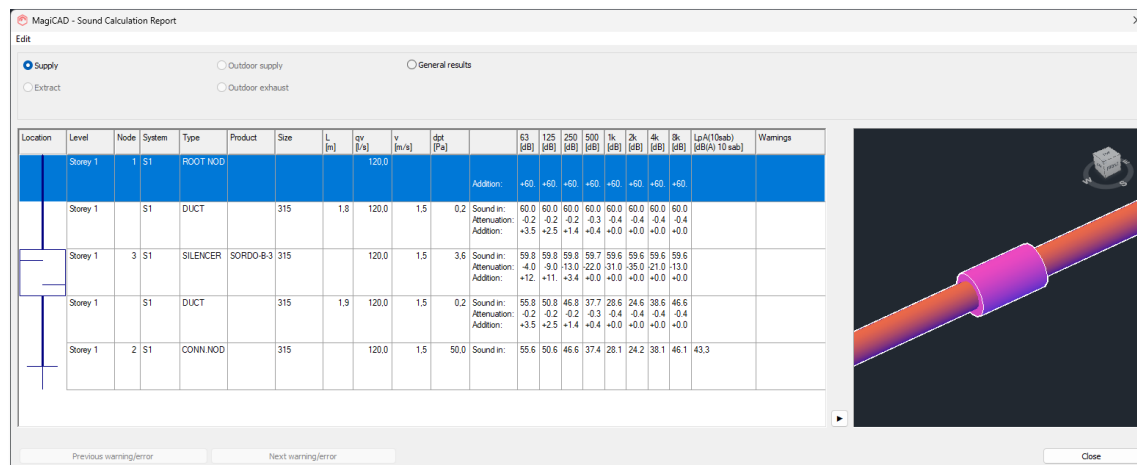
Property	Value
Product variable	
National code	
Installation code	Not selected
National classification ...	
HyperLink	https://www.swegon.com/products...
P1	
P2	
P3	
P4	
P5	
P6	
P7	
P8	
P9	
P10	
P11	
P12	
P13	
P14	
P15	

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

- Next MagiCAD shows the Select Product dialog where user selects the recently added silencer to be inserted into drawing. Click OK to start the operation, drag and drop the silencer into selected duct part.



3. Run the MagiCAD Sound Calculation to see the report from the ductwork.



2.2 Replace Silencers operation

This chapter describes how the plugin will replace the silencer in AutoCAD drawing with another silencer selected from Acoustic Design.

Plugin reads the market area information from the MagiCAD project and passes this information to selection tool.

The product selection filtering input values will be collected directly from the AutoCAD drawing, MagiCAD ducts and selected product. The availability of the technical data depends on the MagiCAD specific calculations. If ductwork is calculated with MagiCAD balancing and sound calculation, then the following data is available:

- Duct size, air flow and type
- Market area specific product codes
- Sound generation data in duct parts next to the silencer. Sound data will be read from both sides of the silencer, and the highest values will be used.

If calculation has not been done, then sound generation and air flow data is not available.

1. *Replace Silencers* operation can be started in three different ways.
 - a. Find the MagiCAD Connect tab, Swegon AB panel and start the *Replace Silencers* operation from the ribbon button.
 - b. Use AutoCAD command line command `SWEGON_AD_REPLACE`.
 - c. Open AutoCAD context menu with mouse right-click and select Swegon Acoustic Design > Replace Silencers.
2. Plugin app asks for user to select the silencer product from drawing which will be replaced. The command can be cancelled with ESC key. Based on the selection, the plugin app will read the technical data from the selected product and surrounding ducts and passes that information for Acoustic Design selection tool. Data is used as product filtering values in Acoustic Design.
3. After silencer selection the plugin opens the selection tool into its browser view. Data read from the silencer and ductwork is visible in the selection tool. The current silencer is highlighted in the selection tool. Click the replace button to replace the current silencer with another silencer product.

Swegon AB Acoustic Design MagiCAD Cloud Plugin for AutoCAD 2026.9.3

Product selector

Region

Market area
Global

Connection shape

Circular
Rectangular
Rectangular Elbow
Splitter
Circular Elbow

Input

Connection Dimension
315
mm

Airflow
120
l/s

Velocity (gross area)
= 1.54 m/s

Sound

☒ Sound requirement
☐ Required insertion loss

Sound requirement

Metric
dB(A)

Value
55

Sound before silencer

63
125
250
500
1k
2k
4k
8k

60
dB
60
dB
60
dB
60
dB
60
dB
60
dB
60
dB
60
dB

Sound
= 67 dB(A)

System Effects

Silencer Inlet Condition
Ideal Conditions - 3 to 4 diameters of straight duct

Silencer Outlet Condition
Ideal Conditions - 3 to 4 diameters of straight duct

SHOW PRODUCTS

Displaying 13 out of 13 silencers

Replace: SORDO-B-315-800

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MagiCAD CLOUD

Swegon AB Acoustic Design MagiCAD Cloud Plugin for AutoCAD 2026.9.3

SHOW PRODUCTS

Displaying 13 out of 13 silencers

Replace: SORDO-B-315-800

Product

☒ All
 ☐ SORDO-A
 ☐ CLA-A
 ☐ CLA-B
 ☐ SORDO-B
 ☐ SORDO-C

Filter

Max length

1100 mm

Max pressure drop

Pa

Certificates

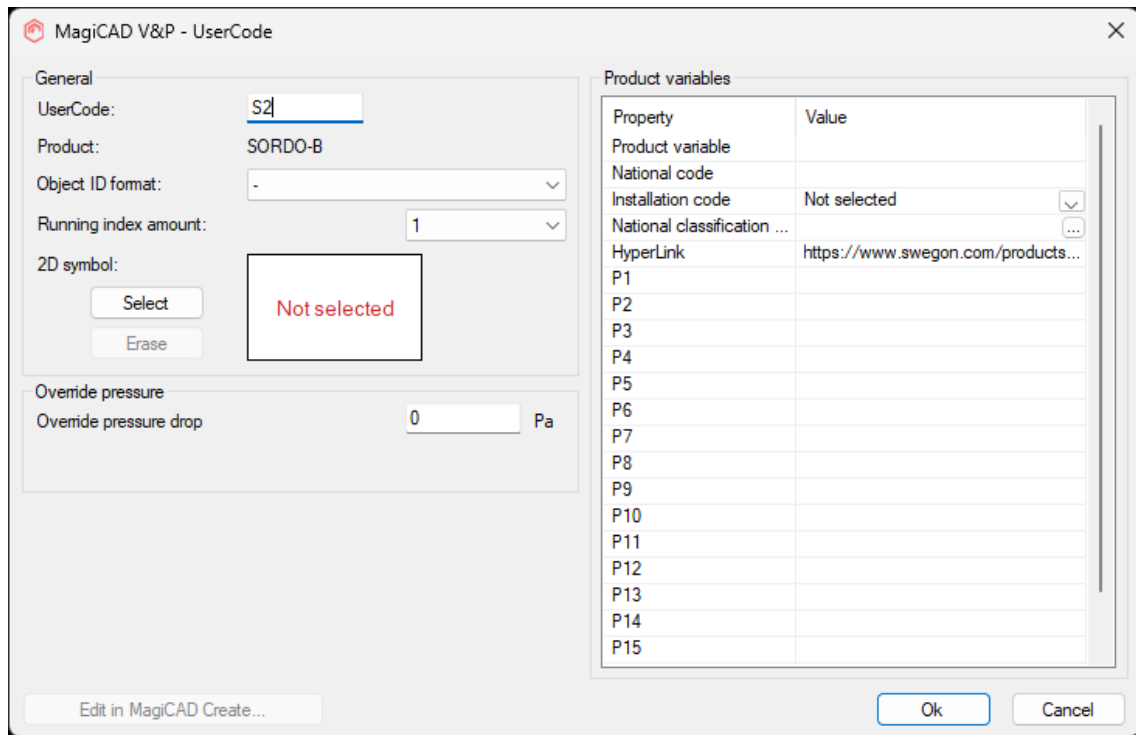
☐ EPD
 ☐ Byggsvarubedömningen
 ☐ Nordic Swan
 ☐ M1
 ☐ Type approval

RESET FILTERS

Name	Length	Pressure drop	GWP-GHG A1-A3	63	125	250	500	1k	2k	4k	8k	dB(A)	
SORDO-B SORDO-B-315-1100	1100 mm	2 Pa		-5	-10	-15	-27	-39	-42	-23	-15		REPLACE
SORDO-B SORDO-B-315-800	800 mm	2 Pa		-4	-9	-13	-22	-31	-35	-21	-13		REPLACE
CLA-B CLA-B-315-1000	1000 mm	4 Pa		-6	-10	-14	-26	-45	-42	-21	-12		REPLACE
SORDO-B SORDO-B-315-500	500 mm	2 Pa		-4	-8	-10	-17	-24	-28	-19	-11		REPLACE
CLA-B CLA-B-315-500	500 mm	4 Pa		-4	-6	-8	-14	-25	-19	-14	-8		REPLACE
SORDO-C SORDO-C-315-1100	1100 mm	0 Pa		-4	-8	-12	-21	-29	-24	-12	-7		REPLACE
CLA-A CLA-A-315-1000	1000 mm	1 Pa	30.1 kg CO ₂ e	-6	-10	-12	-17	-24	-21	-12	-7		REPLACE
SORDO-A SORDO-A-315-1100	1100 mm	0 Pa	24.1 kg CO ₂ e	-2	-5	-9	-17	-25	-21	-10	-6		REPLACE
SORDO-C SORDO-C-315-800	800 mm	0 Pa		-3	-7	-10	-16	-21	-17	-10	-5		REPLACE
SORDO-A SORDO-A-315-800	800 mm	0 Pa	17.9 kg CO ₂ e	-1	-4	-7	-12	-17	-14	-8	-4		REPLACE
CLA-A CLA-A-315-500	500 mm	0 Pa	16.1 kg CO ₂ e	-4	-6	-7	-9	-12	-8	-8	-5		REPLACE
SORDO-C SORDO-C-315-500	500 mm	0 Pa		-3	-6	-7	-11	-14	-10	-8	-3		REPLACE

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4. Pugin removes the current silencer from the drawing and adds the replacement silencer into MagiCAD project in a same way as in insert operation and the same MagiCAD User Code dialog is shown to user. The original silencer won't be removed from the MagiCAD project. The operation continues in a same way from here as the insert operation.



MagiCAD V&P - UserCode

General

UserCode:

Product:

Object ID format:

Running index amount:

2D symbol:

Not selected

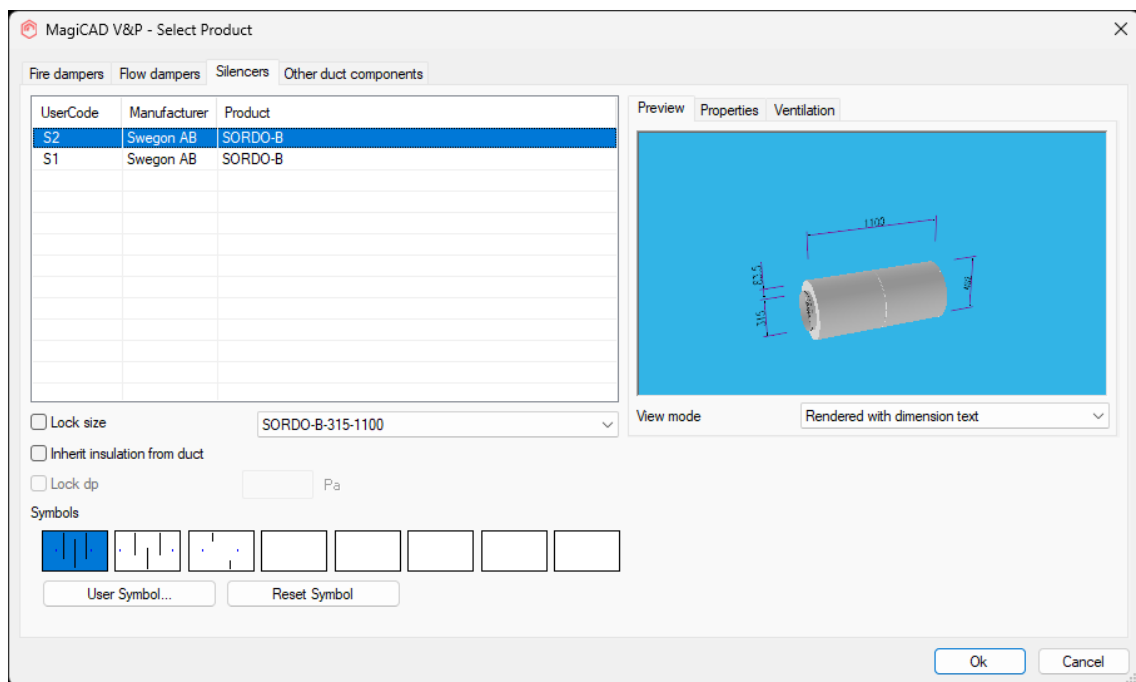
Override pressure Pa

Override pressure drop Pa

[Edit in MagiCAD Create...](#)

Product variables

Property	Value
Product variable	
National code	
Installation code	Not selected
National classification ...	
HyperLink	https://www.swegon.com/products...
P1	
P2	
P3	
P4	
P5	
P6	
P7	
P8	
P9	
P10	
P11	
P12	
P13	
P14	
P15	



MagiCAD V&P - Select Product

Fire dampers | Flow dampers | **Silencers** | Other duct components

UserCode	Manufacturer	Product
S2	Swegon AB	SORDO-B
S1	Swegon AB	SORDO-B

☐ Lock size

☐ Inherit insulation from duct

☐ Lock dp Pa

Symbols

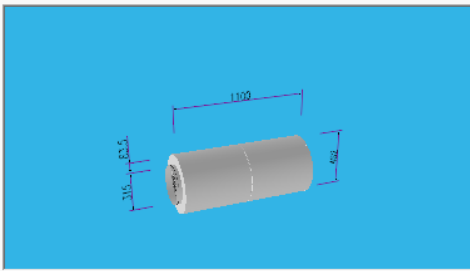




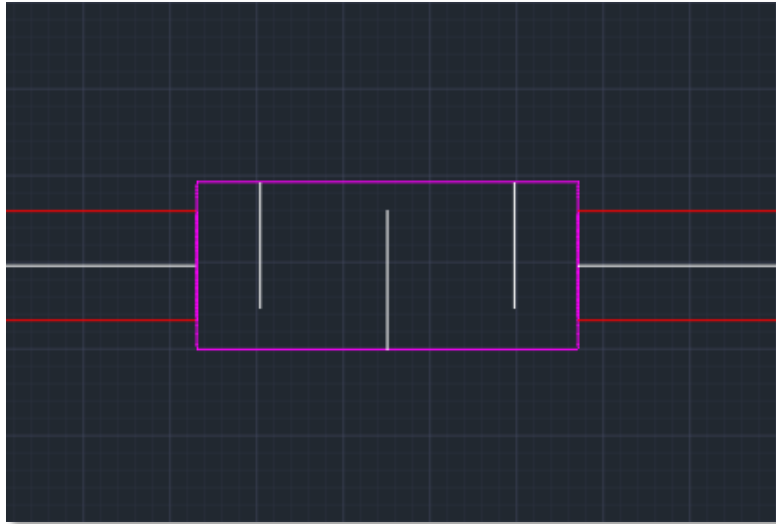




Preview | Properties | Ventilation



View mode:

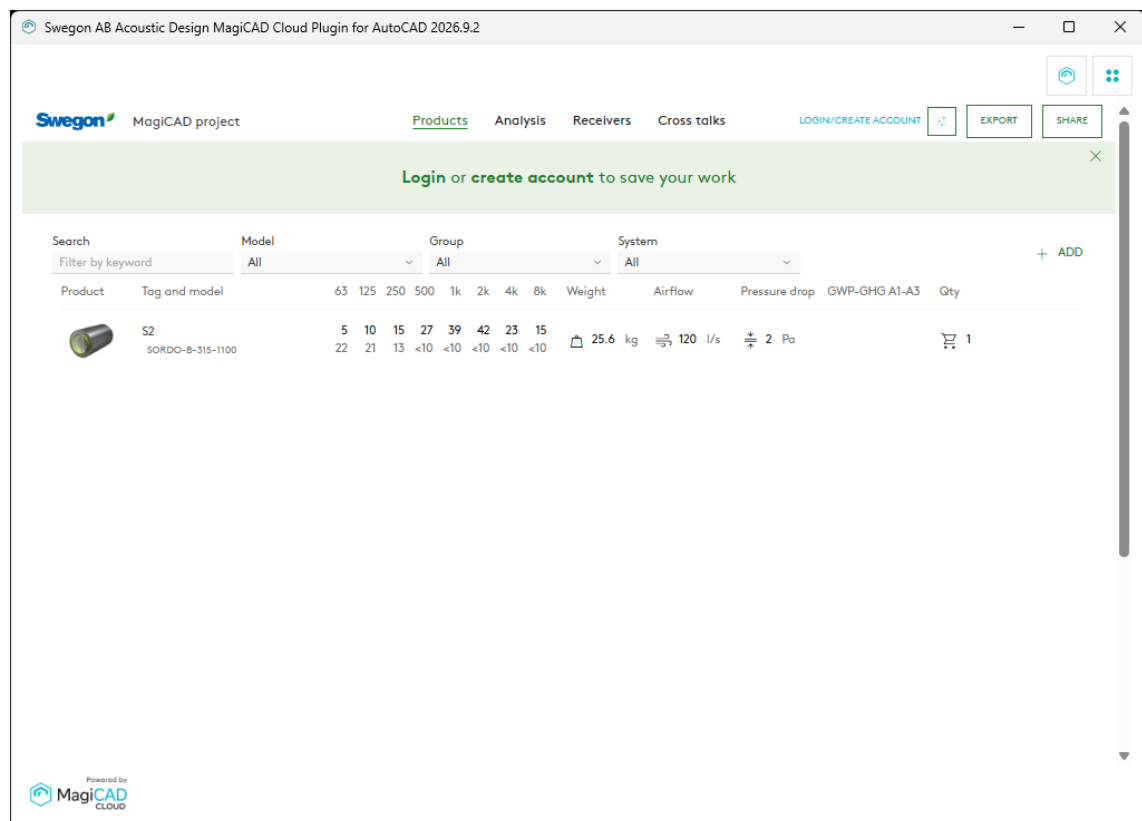


2.3 Silencer List operation

This chapter describes how the plugin will collect the Swegon AB specific silencer information from AutoCAD drawing and MagiCAD project and shows the list of silencers in Acoustic Design.

Plugin reads the market area information from the MagiCAD project and passes this information to selection tool.

1. *Silencer List* operation can be started in three different ways.
 - a. Find the MagiCAD Connect tab, Swegon AB panel and start the *Silencer List* operation from the ribbon button.
 - b. Use AutoCAD command line command `SWEGON_AD_LIST`.
 - c. Open AutoCAD context menu with mouse right-click and select Swegon Acoustic Design > Silencer List.
2. Plugin reads all the Swegon AB silencer products from the AutoCAD drawing and product specific or related information. Selection tool is opened in plugin browser view, and all the silencers are listed in there.



2.4 About operation

This chapter describes the about operation which shows the common information of the plugin application.

1. *Silencer List* operation can be started in three different ways.
 - a. Find the MagiCAD Connect tab, Swegon AB panel and start the *About* operation from the ribbon button.
 - b. Use AutoCAD command line command *SWEGON_AD_ABOUT*.
 - c. Open AutoCAD context menu with mouse right-click and select Swegon Acoustic Design > About.
2. Selection tool is opened in plugin browser view and plugin specific information is shown.

