ETS NORD SILENCERIQ MagiCAD Plugin for AutoCAD

User guide

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General

About this document

This document contains instructions on using ETS NORD SILENCERiQ MagiCAD plugin with AutoCAD.

ETS NORD SILENCERiQ MagiCAD plugin for AutoCAD allows user to insert silencers from the SILENCERiQ selection web application into MagiCAD for AutoCAD.

Installing the software

Required third-party software

ETS NORD SILENCERiQ MagiCAD plugin works with the following MagiCAD and AutoCAD versions:

- MagiCAD 2025 and AutoCAD 2021-2025
- MagiCAD 2026 and AutoCAD 2023-2026

Before installation

- 1. Workstation administrator privileges are recommended for installation.
- 2. Notice if you have several AutoCAD versions on your workstation. Before you run the plugin installer, start MagiCAD to make sure that ETS NORD SILENCERiQ MagiCAD Plugin installs on the same AutoCAD platform as MagiCAD.

Installation

1. Download the installer file from MagiCAD portal to your workstation:

https://portal.magicad.com/download/ProductSearch?searchStr=ETS&categoryId=3

2. Run the ETS NORD SILENCERiQ MagiCAD plug-in installer on your workstation.



Starting the program

The plugin is automatically loaded and is ready to be used once MagiCAD and AutoCAD are started next time after the plugin is installed.

Locate the MagiCAD Connect tab from the AutoCAD ribbon. Once the ETS NORD SILENCERiQ MagiCAD plugin is loaded, the ETS NORD ribbon panel and button can be found from the MagiCAD Connect tab.



Figure 1 Panel and button



Functions

ETS NORD SILENCERiQ MagiCAD plugin for AutoCAD UI overview

Plugin contains the following operations:

Insert operation



This command inserts a new silencer to MagiCAD with ETS NORD SILENCERiQ selection application software.



Follow these steps to insert ETS NORD silencer to MagiCAD drawing:

- Draw and balance the duct in MagiCAD. This is important because ETS NORD SILENCERiQ MagiCAD plugin sends the duct dimension, airflow, and sound data to the SILENCERiQ web application. These values will help SILENCERiQ web application to show compatible silencers.
- 2. Click the "Insert" button from ETS NORD SILENCERiQ MagiCAD plugin ribbon panel or give the "ETS_INSERT" command.
- 3. Once the operation is started, user is first prompted to select a duct or bend where the silencer will be connected into. The user can also cancel this selection by pressing the Esc button and the duct data will not be sent and so the user must make these selections in the web application.
- TTS_SILENCER_INSERT ETS MagiCAD Plugin Connection module Select duct or bend where device will be connected or continue without data by pressing Esc button:

Figure 2 Prompt asking the user to select the duct or bend where the silencer will be connected

ETS NORD					English +
Select silencer types					0 of 9 salicitad
۲	0		-		— 0
NKE SBencer	NKL Bend silencer	NKU Bend sliencer	NRF 100 / NRP 100 Silencer	NRF 50 / NRP 50 Silencer	NRFB 100 / NRPB 100 Silencer
	0	0			
NRPV/NRPV Bend silencer	NTP/NTF Sliencer	NTPA/NTFA Silencer			
MSK/MSP/MSC Silancor	MSKI/MSPI/MSCI Silancer	MRKA/MRPA/MRCA Silencer			
					Next
			-		
			Company About Ue Products		Get in Touch
Peterburi tee 53 11415 Tallinn			Contact Us Privacy Job vacancilos		
+572 600 7360 Info®dsnord.ce					
ICAD					

4. After this the SILENCERiQ selection web application is opened.

Figure 3 SILENCERiQ selection application window



< Select silencer types													
Search Products													
Silencer Type		Shape	Attenuation Material	Nominal Size		Le	ength			Oper	able		
Show All		Show Al -	Show Al .	Show All		• •	• Show All •			an Sv	zw Al		•
							101		500	1000	2022	4040 8500	
Airflow (l/s)	0				Noise levels befor	re (Hz) o	0	0	0	0	0	0 0	
Showing 265 products (265	of 265)							k					
	NKE 100-600 Round siler	ncer											
	Diamotor, Dt	100 mm.		Attenuation								_	
	Longh, L:	600 mm		68 N	7 125	20	10	25	2000	4000	9000	Add	
	Absorption Material:	Polyetter		Result								Sound	
	Altow, Vs.			83	125 23	90	500	1000	5000	4000	0000	1540-st	
	Pressure drop, Pac	1.		*	, ,		19	25	38	38	28		
	NKE 100-1000 Round sile	encer											
	Diameter D	500 mm		Attenuation									
	Length 1	5000 mm		6	125 2	30	500	1000	2000	4000	8008	Add	
	Emperative Manufac	Polostar			16. 11		27	10	49	40	47		
	Editors UK			Result								data	
	Pressare drop, Pa.			4	16 1	90 11	47	1000	-49	4000	41		
	NKE 125-600 Round siler	ncer											
	Decoder D.	195 aux		Attenuation	126	90	500	1800	2006	4000	8000		
	Leigh, L	800 mm		7	7 1		17	27	21	25	23	Add	
	Absorption Melenal	Puljesie		Rosult								Sound	

5. After the web application gets the right parameters, it will show the list of compatible silencers:

Figure 4 Compatible silencers from the SILENCERiQ



eneral		Product variables		
serCode:	NKE	Property	Value	
roduct:	NKE 100	Product variable		
hiect ID format:		National code		
oject ib toimat.	·	Installation code	Not selected	\sim
unning index amount:	11	 National classification 	L	
) sumbol:		HyperLink		
o symbol.		IfcExportAs	IfcDuctSilencerType (IFC2X3, IF	~ ~
Select	$ \cdot \times \cdot $	lfcType	NOTDEFINED (IFC2X3, IFC4)	\sim
Fraee		P1		
Lidac		P2		
		P3		
		P4		
		P5		
		P6		
		P7		
		P8		
		P9		
		P10		
		P11		
		P12		
		P13		

6. After clicking "Add" the MagiCAD insert dialog will open. In this dialog the user must specify the user code. The 2D symbol selection is optional.

Figure 5 MagiCAD insert dialog



7. Next the MagiCAD V&P – Select Product dialog is opened. Here the user can select the device to be inserted into the drawing and the 2D symbol can still be adjusted. In the ventilation tab the curve data can also be inspected. When the selections have been adjusted the user continues by pressing the ok button.

dampers	Flow dampers 5	ollencers Other duct components			
serCode	Manufacturer	Product	Preview	Properties Ventilation	
IKE	ETS NORD	NKE 100			
ITPA	ETS NORD	NTPA 630			
ITPA	ETS NORD	NTPA 100			
ITP	ETS NORD	NTP 100			
ITFA	ETS NORD	NTFA 100			
ITF	ETS NORD	NTF 100			
ITF	ETS NORD	NTF 100			
IRPB	ETS NORD	NRPB 100			
IRFB	ETS NORD	NRFB 100			
IKU	ETS NORD	NKU 100			
IRF	ETS NORD	NRF 100			
KL	ETS NORD	NKL 200		\mathcal{D}	
IKE	ETS NORD	NKE 100			
DS	ETS NORD	NKE 100		i i	
13	Swegon AB	CAV L=1200			
11	FläktGroup	BDER-30-060			
12	FläktGroup	BDER-40-030			
il4	Swegon AB	CADENZA 1017 length = 650mm			
Look size		NKE 100 CO0	View mod	le Rendered	
LOCK SIZE		NKE 100-600	~		
innent inst	liation from duct				
Lock dp		Pa			
nbols					
	•				
Use	r Symbol	Reset Symbol			

Figure 6 Select Product window in MagiCAD V&P

8. The user now inserts the silencer into a spot of their choice. The silencer can be inserted into a duct or into free space.



Figure 8 The silencer being inserted in the middle of a duct





9. After silencer insertion the user can insert more copies of similar silencer or finally exit the insert function by pressing the Esc button.

Figure 9 The silencer successfully inserted into a duct





10. Demonstrated below is an example how adding a silencer might affect the MagiCAD sound calculation report from the drawing:

Figure 10 The MagiCAD sound calculation report before adding the silencer

			Oou Oou	tdoor supply tdoor exhaust		Clement	results																
_	Level	Node	System	Type	Product	Size	L	qi Lat		y hadd	de	t,		63	125	250 MR1	500	1k	2	4.	Si Liga	LpA(10sab)	Warnings
	Floor 1		51	DUCT	SR 400	400	Pd	0,5	450,0	liest	3,8	10,5	Sound in: Attenuation Addition:	47.4 -0.0 +30.5	45.7 -0.1 +26.5	41.0 -1.6 +22.3	38.8 -3.0 +16.5	43.2 -3.0 +11.1	44.3 -3.0 +2.9	44.1 -3.0 +0.0	44.0 -3.0 +0.0	part of and	
	Floor 1		\$1	DUCT	SR-400	400		0.4	360.0		2.9	0.1	Sound in: Attenuation: Addition:	44.5 -0.0 +19.0	42.7 -0.0 +18.0	36.5 -0.0 •17.0	32.8 -0.0 +15.9	372 -0.1 +14.9	38.2 -0.1 +13.8	38.1 -0.1 +9.8	38.0 -0.1 +2.8		
	Roar 1		\$1	REDUCER	RCU-400-315	400/315			360.0		2.9	0.4	Sound in:	44.5	42.6	36.5	32.9	37.1	38.2	38.0	37.9		
	Ploor 1		51	DUCT	SR 315	315		u	360,0		4,6	0.9	Sound in: Attenuation Addition:	44.5 -0.1 +27.3	42.5 -0.1 +26.3	365 01 +253	32.9 -0.2 +24.2	37.1 -0.2 +23.2	38.2 -0.2 +22.1	38.0 -0.2 +18.1	37.9 402 +11.1		-
-	Floor 1		\$1	DUCT	SR-315	315		0.2	360.0		4,6	0.6	Sound in: Attenuation: Addition:	44.5 -00 +30.3	42.6 -0.0 +27.5	36.7 -0.0 +23.8 -0.6	33.3 -0.0 +19.5	37.1 -0.0 +15.4	38.1 -0.0 +9.7	378 -0.0 -4.5	37.7		
	Floor 1		\$1	DUCT	SR-315	315		2.2	320.0		4.1	15	Sound in: Attenuation: Addition	44.0 -0.2 +24.8	42.1 -0.2 +23.7	36.3 02 +22.7	32.8 -0.4 +21.7	36.5 -0.5 +20.6	37.4 -0.5 +19.6	372 05 +15.6	37.1 -0.5 +8.6		
9	Floor 1		51	DUCT	SR-315	315		0.2	320,0		4,1	0,4	Sound in: Attenuation Addition:	43.8 -0.0 +29.3	42.0 0.0 +26.6	36.3 -0.0 +22.6 -0.0	32.8 -0.0 +18.2	36.1 -0.0 +14.1	37.0 -0.0 -0.2	36.7 -0.0 -2.9	35.5 -0.0 -0.0		
	Floor 1		51	DUCT	SR-315	315		2,2	280,0		3,6	13	Sound in: Attenuation: Addition:	43.3 -0.2 -21.9	41.5 -0.2 +20.8	35.8 -0.2 +19.8	32.3 -0.4 +18.8	35.5 -0.5 -17.7	36.4 -0.5 +16.7	36.1 -0.5 +12.7	35.9 -0.5 -5.7		
5	Floor 1		\$1	DUCT	\$R-315	315		0.2	280.0		3.6	0.3	Sound in: Attenuation Addition	43.2 -0.0 +28.2	41.3 -0.0 +25.5	35.7 -0.0 +21.4	32.2 -0.0 +17.0	35.1 -0.0 +12.7	35.9 -0.0 +6.7	35.6 -0.0 +1.3	35.4 -0.0 +0.0		
	Floor 1		51	REDUCER	RCU-315-250	315/250			240.0		3.1	0.5	Sound in:	42.3	40.4	34.9	31.3	34.1	35.0	34.6	34.5		
	Floor 1		51	DUCT	SR-250	250	3	2,2	240,0		4,9	2.7	Sound in: Attenuation Addition:	42.3 -0.2 +26.6	40.4 -0.2 +25.5	34.9 -0.2 +24.5	31.3 -0.4 +23.5	34.1 -0.5 +22.4	35.0 -0.5 -21.4	34.6 -0.5 +17.4	34.5 -0.5 +10.4		-
	Floor 1		\$1	DUCT	SR-250	250		0.2	240.0		4.9		Sound In: Attenuation: Addition:	42.2 -0.0 +30.8	40.4 -0.0 +28.2	35.1 -0.4 +24.4	31.7 -0.9 +20.2	33.9 -1.5 +16.1	34.7 -1.5 +10.5	34.2 -15 +53	34.0 -1.5 +0.0		
	Roor 1	105	\$1	TAP	PSU-250-125	250/125		+	40.0		3.3	15.6	Sound in:	35.6	33.6	28.1	24.1	26.5	25.2	25.7	25.5		
	Ploor 1		51	DUCT	SR-125	125		0.7	40,0		3,3	1.0	Sound in: Attenuation Addition:	35.5 -0.1 +11.7	33.6 -0,1 +10,7	28.1 -0.1 +9.7	24.1 -0.1 +8.6	25.5 -0.2 +7.6	26.2 -0.2 -6.5	25.7 -0.2 +2.5	25.5 -0.2 -0.0		
	Floor 1	110	\$1	SUENCER	NRF 100-125-300	125			40.0		3.3	1.0	Sound In: Attenuation:	35.5 4.0	33.6 -5.0	28.1 -9.0	24.1 -14.0	25.4 -18.0	26.0 -24.0	25.5 -18.0	25.3 -11.0]	
	Floor 1	_	\$1	DUCT	SR-125	125		1.0	40.0		3.3	-	Sound in:	31.5	28.6	19.1	10.1	7.4	2.0	7.5	14.3		+

Figure 11 The MagiCAD sound calculation report after adding the silencer