MagiCAD for AutoCAD

Release notes for version 2025

30/05/2024





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1 New features

1.1 Common

MagiCAD supports AutoCAD and Navisworks 2025

Adding support for AutoCAD and Navisworks 2025. MagiCAD for AutoCAD 2025 will work on AutoCAD 2021-2025.



National Classification Code for generic fittings

It is now possible to individually set the National Classification Codes for the different generic fitting types in Ventilation, Piping and Electrical:

										Product variables	
t i			000004	Description:		Circu	lar duct			Property	Make
			0.15000	UserCode:		Dio			_	National classification code (Segment)	
meter	have code:			National cod						National classification code (Eend)	
nge sen		- Default		< Recist		_				National classification code (T-branch)	
										National classification code (Koranch)	
Drily aid	ected Nange type	alowed		Diject ID fo	14				~	National classification code (Y-branch)	
Postia	duct.			DWO size re	-				~	National classification code (Joint part)	
										National classification code (Plug)	
uct Sace				Poduta						National classification code (Outlet)	
										National classification code (Reducer/Equander)
20	Bend R/D	Ftonlen	Ettelen	Pattype	User	Product	Shepe	Subtype		12	
00	1.00	40	15	Dect		BDEK1				10	
5	1.00	40	15	Band		BDE8-15-1				24	
90	1.00	40	15	Bend		BDE8-30-1				15	
90	1.00	40	15	Bend		0DC0-45-*				PS	
50	1.00	60	15	Bend		BDEB-60+				97	
15	1.00	60	15	Band		8068-93*				P8	
00	1.00	90 90	15	Outet		BDEA-1-11 BDET-1-11				73	
00 30		00		Téranch						P10	
	1.00	80	15	Reducer.		BDED-144				1.44	

2:											Product variables			
<i>.</i>		0	00004				k (heating)		0.00500	rem	Property		Value	
escription:		P	lattic pipe	PEX			k (water)		0.00500	nm	National classification code (S			
berCode:			EX				Lanes Mill	ians factor:	140		National classification code (B			
			6A	-							National classification code (T National classification code (X			
lational code	e -						Zeta value	(DIN 1988:300)	Undefined		National classification code (X National classification code (Y			
bject ID form	sat:						Themal co	nductivity	20.0000	W/mK	National classification code (il			
							BWO size I			_	National classification code (P			
							0110 9201			~	National classification code (D	utiet)		
Material											National classification code (R	educer/Expander)		
Code:		P	ΕX											
Type:			ndefined				Ere 85 925	1:2014 and EN 165	25 metalolar calcular	(ano)	P2 P3			
			- Carried					1.2014 010 014 100	Lo gri ion caccia	(((((((((((((((((((((((((((((((((((((((P3			
🛃 Rexible p											P5			
Tolerance f	for usit	ng short	er standa	d flexible	length:		0.0				26			
											P7			
200											PB			
		Dout	Valve	Zon	Ben	Fit on	Redu	UV1	B	exble le	P9 P10			
Sze D	Din													
12 8	8.0	12.0	10	10	1.500	5	0		0					
12 8 15 1	8.0 10.0	12.0 15.0	10 10	10	1.500	5	0		0		P11			
12 8 15 1 18 1	1.0 10.0 13.0	12.0 15.0 18.0	10 10 15	10 15	1.500	5	0		0		P11 P12			
12 8 15 1 18 1 22 1	1.0 10.0 13.0 16.0	12.0 15.0 18.0 22.0	10 10 15 15	10 15 15	1.500 1.500 1.500	5 5 5	0		0		P11			
12 8 15 1 18 1 22 1 28 2	1.0 10.0 13.0 16.0 20.0	12.0 15.0 18.0 22.0 28.0	10 10 15 15 20	10 15 15 20	1.500 1.500 1.500 1.500	5 5 5 5	0 0 0 0 0		000000000000000000000000000000000000000		P11 P12 P13			
12 8 15 1 18 1 12 1 18 2 12 2	1.0 10.0 13.0 16.0	12.0 15.0 18.0 22.0	10 10 15 15	10 15 15	1.500 1.500 1.500 1.500 1.500	5 5 5	0		0		P11 P12 P13 P14			
12 8 15 1 18 1 22 1 28 2 32 2 40 2	1.0 10.0 13.0 16.0 20.0 23.2	12.0 15.0 18.0 22.0 28.0 32.0	10 10 15 15 20 25	10 15 15 20 25	1.500 1.500 1.500 1.500 1.500	5 5 5 5 5	0 0 0 0 0 0		000000000000000000000000000000000000000		P11 P12 P13 P14			



(eneral		Symbol	30 Frane
n: 3			O fax
			Claster
	able Canal	_	C) Conduits
	ace cara		Oteat
Renufacture:		MAGI/10FDN 01A021	
freduct code:		Saket Ne sw	Default Dimensions
Index in Sustem			Widtly: 50
I Hestric - General		K skep (wcs): 100	Height: 130
Assect 10 formet		Referentei benefa	
- Narual value -			Inner bend reduct
- Heruel Velue -		<u> </u>	A
O size range	Channels : Size range for cable channels		
traving Properties			Hatch band in 20
aver code (PV):	22	Vertical bends	
Setauit elevation (mm):	800		Inner bend nedkus:
			8- 0
Yorkut Variables		NU 1	
Property	Take		Hatch band in 20
National code:		Branches	
Hupedick			Street band radius:
National classification code (Sec			
National classification code (Per			R = 0
National classification code (1-b			
National classification code (X-b	ranch)	Reductra Expandera	
P2:			
PG P3			
PA		v	
P6			
Ph			
82		Cut longths	
Pa		0 0	0 0 0
PR			
P10:		Do not split if the result is all	tortor than: 0 mm
P11:			
P12:		Product Note	
P13			
P14			
P15:			
If:Deport/e:	IfcCableCamerGegnereType (IFC203, IFC4)	w.	
McType:	CABLETFLUNCHOSEGMENT (JPC2K3, JPC4)		

National classification codes support for generic products

It is now possible to add National Classification Codes to products which aren't part of the project file or have been completely generic:

Generic Distribution box

Generic Manifold

Generic Heating / Cooling plant

Connection node None

Generic manhole

CAD-objects converted into MagiCAD objects

Switchboards

Provisions for Voids (set in the project)

Examples:	
Offset Verifialm Park Backbool Product Product <th< th=""><th>×</th></th<>	×
Min distance for separate buldeswork openings (h) 100 Height Immi 100.0	
Ubt dreid i di deringe derine attachte estade National dissification code Dis andre avand freeze / modula 0 Obstande avand freeze / modula 0	
Unit Parallel Nuchd uge nite 0	×
0. Qe	ncel
MagiCAD V&P - Create Connection Node X destRication D number: Symbol Select.	

D number:			Not selected	Select		
estination Drawing			Not selected	Reset		
None	◯ Left					
) This	ORight					
O Upward	Front		Direction angle (UCS):	0		
Downward	O Back		Show direction when install			
Properties						
Property		Value				
Flow [/s]		0.0				
Pressure Drop [Pa]		0.0				
National classification of	ode					



Running the IFC Export without opening the dialog

In some cases there is a need to fast and easily export the currently open drawing to an IFC file. This can be done using the command "-MAGIIFCEXPORTCURDWG" / "-MAGIIFCCD".

This works by running the command and then giving the name of the Selection set according to which one wants to export it. So at least one selection set must have been created and saved in the IFC Export dialog.

Export alalog.				
📀 MagiCAD - IFC export				
Selection set	Save	Save as	Delete	Rename
TEST IFC command			Storey mappi	ng
Oreste separate files (uses model dwg names / Oreste new file (all to one file) Append to existing file IFC file to create Orgin Storey Use MCR origin if present WCS UCS	(FC file names)		Use this	Model drawing . Piping VP_Roor1.dwg . Piping VP_Roor2.dwg . VPiping VP_Roor3.dwg . Ventilation VP. Roor1.dwg . Ventilation VP_Roor3.dwg . Ventilation VP_Roor3.dwg . Ventilation VV_Parking.dw . Ventilation VV_Roof.dwg
Use storey coordinates in ifc storey				
Property settings Export custom properties	Object selection Object selection	•		
NS3420 Provision for voids	Predefined selection - Model drawings: 3			

Note that even if the selection set has multiple drawings saved, that this command only exports the current drawing. Otherwise the other options are exported according to the selection set.

F1-button opens the MagiCAD Help Manual

When hovering over the feature's button in MagiCAD for AutoCAD and then pressing the F1-button, the corresponding chapter opens in the MagiCAD Help Manual.

This is to assist the user in more easily finding the correct information about a specific feature from the Help Manual.





IFCAPPLICATION and IFCORGANIZATION in IFC4

IFCAPPLICATION and IFCORGANIZATION have both been added to the IFC-file. IFCAPPLICATION is read from the program, and IFCORGANIZATION is read from here:

📀 MagiCAD V&P - Project Management - C:\ProgramData\MagiCAD\Demo Projects\001.epj

Project: Demo/template project	Property	Value
Project settings	Project number	1983
Model drawings Schematic drawings	Name	Demo/template project
- Storevs	Street	
Title blocks	City	
• Ventilation	Author	MagiCAD Group
	Organization	MagiCAD Group
Drainage	Authorization	
🛓 General	Notes	
Linetypes	Logo file name	
··· Dimension text	Person responsible for sprinkler calculations	
 Texts for free text 		
Provision for builderswork openings		



1.2 Ventilation and Piping

Common

Coating parameter for insulation series

A coating parameter has been added to the different insulation series:

ID:	000007	Product variables		
UserCode:	T100	Property National classifica	Value	
Description:	Thermal insulation 100mm	P1	3.1	
	memai insulation rounini	P2		
National code:		P3		
Material:		P4		
Coating		P5		
coaung		P6		
		P7		
Type:	Continuous ~	P8		
Color:		P9		
Lolor:	White/Black ~	P10		
Line weight:	By default 🗸 🗸	P11		
Max diameter [mm]	Thickness [mm]	Max width [mm]	Max height [mm]	Thickness [mm]
9999	100	9999	9999	100

Piping

Improved automatic underfloor heating layouts

The Auto-Routing Underfloor Heating function takes better account of different room shapes and cold walls.

The machine learning algorithm for the Auto-Routing Underfloor Heating function has been improved. The function now takes better account of different room shapes, obstacles, and cold walls, resulting in quality layout suggestions for users.

🕙 MagiCAD V&P - Underf	floor h	neating					
System System		H1 Heating 1		~	Option 1 Option 2		N
	0	431 W	Area	43.14 m ²			
Power / area:	0	10.0 W/m	2				
Pipes		-					
Pipe series:		PEX Plastic pip		~			
Pipe dimension:		12 ~	Flow:	0.0035 I/s			
Installation height:		0mm	Velocity:	0.0693 m/s			
Distance from the wall:		100 mm	Length:	151.6) m			
Pipe spacing:		300 mm	Pressure drop: *) Estimated values	2.6474 ") kPa			₹111111111
) Estimated values				
Cold wall area							
Distance from the wall:		1000 mm					
Pipe spacing:		200 v mm					
Configuration							
Installation code:				~			
2 results							
				-	Run simulations		
						Inlet Cold wall	Qk Cancel



Changing the filling of radiator for several ones

The color filling of radiators had to be done manually, and couldn't be done for multiple radiators, but now we have added the option to do it using Change Properties:

MagiCAD V&P - Change Property		×	VigCoD165 - Nation property Notes Fatige System System	Ville Herr garlier HY Statistics, screensovers S (7 S C Stores	
Configuration	Save Save As Delete	Rename	Territoria Federative Manadative Distance Bringento (polyative) Bringento (polyative) Bringento Distance Hannyim Landi	11 - 403 110 - 116 - 305 - 40 From 2006 5 - 50 - 60 5 - 50 5 - 5	
Property			fediet etc. etc. supervert	Table constants	- Veneral Review
ropeny			See		Corrections
illed			Lean da Enciettrates auro 80		Doskyation
lieu			Fearing Fooding power: 800 Complexities days and	Table also	with M Thursday
			Record Sales processing and		C Data Communications
Heating, cooling and special systems (1)	Value to:	S	Residence 2	S 5.0	The second s
		- 46	Connector so: N		
	— — — —		Distantion	2010.0	62000000
- Water systems	Draw filled radiator		Deculeedpover. 5/4.	a heart 1016	
			Percet lan discription power 107. Non 100		
Draw filled radiator				AL 19 10 10	and a second sec
0			Dept M Dept 6		
			in.		
			Ret offred		
			Patrosteala. Days		and the second s

Sprinkler

Calculation of dry sprinkler systems

Dry sprinkler systems are used when part of the sprinkler network is situated in conditions below the freezing point or above the boiling point of the sprinkler fluid. The dry part of the network is filled with air or nitrogen and separated from the rest of the network with a dry pipe valve. When the sprinklers operate in case of a fire, the pressure in the dry system decreases and the dry valve opens filling the section with water. An accelerator may also be used to speed up the release of air from the pipes. Filling the empty network with water is a complex task. The movement of water is affected by many different factors, including water source properties, dry valve properties, network design, initial gas pressure, and sprinkler head properties. MagiCAD allows you to define all of the related factors and calculate an accurate water delivery time for the dry sprinkler system. More information here.





Possibility to enter pressure/water flow values for the water source

The new version of MagiCAD supports Pressure level/Water flow curve for the water source. The Pressure level/Water flow curve can be freely defined by the user. No object needs to be installed in the network to use Pressure level/Water flow curve of the water source when calculating the network. In the report the water source diagram is shown with the operating points of all the calculated design areas to verify that the required pressure doesn't go above the pressure curve.



This can also be used to quickly simulate the pump without actually installing it.

Drainage

Better calculation warning when sprinkler network starts with a valve

It was noted that the warning "Part outside of flowroutes", which normally indicates that there is additional open ends in the network, could be improved when a device is the part with the open ends. Now a warning "Device has unconnected connections" is shown in these cases instead.

Level variables updated for drainage Devices and Manholes & Roof drains

The name of the category has been changed to "Drainage device" in the project tree and a number of new properties are available in dimension text:





New properties in Dimension text: Bottom of part Bottom of part, absolute Bottom of part, WCS Connection level Connection level, absolute Connection level, WCS Top of part Top of part, absolute Top of part. WCS

In Report template: Bottom of part Bottom of part, absolute Connection level Top of part Top of part, absolute



Manholes & roof drain in the Report: Bottom of part, absolute Top of part, absolute

"Maximum nominal flow" in drainage pipes

"Maximum nominal flow" is now shown in the properties of drainage pipes and is also available in the dimension texts, reports and IFC properties:

Filter	😼 (
Property	Value	
Product		
Type name	Drainage pipe PP	
Drainage series	PP Drainage pipe PP	~
Connection size (drainage connection)	110 mm	~
Locked		
Insulation (drainage)		
Diameter	110 mm	
Length [mm]	2100.598	
Fall	10.0 ‰	
Inner diameter	103.6 mm	
Outer diameter	110 mm	
General		
Part type	Drainage pipe	
MC LOD	MC LOD 300	
System (drainage)	D1 "Drainage 1"	
 Calculation 		
Flow	12 l/s	
Nominal flow sum	12 l/s	
Maximum nominal flow	6 l/s	
 Location 		
Storey	Floor 2	
Top of part	-91.5112.5 mm	
Center of part	-146.5167.5 mm	
Bottom of part	-201.5222.5 mm	



1.3 Electrical

Support for Dialux Evo

You can now import IFC files from Dialux Evo with the Dialux Import function. When importing, you need to select a floor from which luminaires will be imported into the current MagiCAD drawing. Those luminaires then need to be mapped to luminaire types in the project. After pressing OK, the corresponding luminaires are then installed to the locations defined in the Dialux IFC file.

•	Drag position	
ces		
Count	Is mapped to	Import
8		
4		
	Count	Count Is mapped to

Improvements for busbar trunking systems

Now you can define the default branch length of fittings for a busbar type in the project, by default the length is 300 mm.

The Change Fitting Length function now works also for supply and circuit units, and the length is generally measured from center to center in all fittings.

Voltage drop and short circuit calculations are now implemented.

Cable Sizing & Circuit Management now shows busbars correctly

When connecting a switchboard to a busbar, you are now notified when the connection has succeeded.

Group function improvements

Circuits, combination boxes and converted CAD objects can be added to object group templates. Now when installing objects during group editing, user is asked whether installed objects should be added to the group

uuuuu		
🙆 Magi	CAD-E	\times
?	Do you want to add created object(s) to the group being edited?	
	Yes No	

When creating a new group, after selecting objects from the drawing, in the command line you can now see how many objects were part of some other group and how many are not in any group. Objects in groups: 6 Objects not in groups: 16



Now when updating a group and group object is moved, connected objects which are not in a group are moved as well.

Improvements for Bus systems

Zoom button has been added to bus connections dialogue. Zoom also works on devices which are located on different drawing. You can also zoom to multiple objects.

Circuits & devices	Number of connect	Bus current [mA]:	Cable length [mm]	Warnings
₽- D1	36	0.0	54224.074	Host not linked
- D2	1	0.0	1837.078	Host not linked
- D3	4	0.0	36325.09	Host not linked
- D4	6	0.0	5785.793	Host not linked
B. D5	2	0.0	12944.035	Host not linked

Warning is shown if you try to add a device or a cable to bus circuit which already belongs to another bus circuit.



Bus host and Bus circuit attributes have been added to Object ID format.

Supporting more attributes in functions

Support for a lot of attributes have been added to different functions.

Part property line Ref.Point X(SOS) Ref.Point X(WCS) Ref.Point Y(SOS) Ref.Point Y(WCS) Operation area, r1 Operation area, r2 Operation area, angle Operation area, direction

Part properties Attenuation difference



Max no. sub-device connections Cable corner radius Room/Zone Power per length Dimension text Case-X (for swb): Active power Active power with surplus Apparent power Cos phi Reactive power Total active power Voltage Number of phases Power load type description Attenuation difference Max no. sub-device connections Cable corner radius Room/Zone Power per length Ref.Point X Ref.Point X(WCS) Ref.Point Y Ref.Point Y(WCS) Operation area, r1 Operation area, r2 Operation area, r3 Operation area, angle Operation area, direction Report Attenuation difference Max no. sub-device connections Cable corner radius Room/Zone Power per length lk1p_net lk3p_net IP net IP_net_lim Total active power Voltage Number of phases Power load type description Storey origin z



Case-X Active power Active power with surplus Apparent power Cos phi Reactive power

Object ID Storey origin z Active power Voltage Number of phases Power load type description Attenuation difference Max no. sub-device connections Cable corner radius Room/Zone Power per length Bus circuit Bus host

Legend Attenuation difference Max no. sub-device connections. Cable corner radius Room/Zone Power per length Total active power Voltage Number of phases Power load type description

IFC property set Total active power Voltage Number of phases Power load type description Attenuation difference Max no. sub-device connections Cable corner radius Room/Zone Power per length



1.4 Circuit Designer

Update more data from switchboard schematic

Now when defining label texts in Circuit Designer, you can select from where the information is gathered, whether it is user defined in the circuit schematics or if it's coming from the linked switchboard schematics.

Also, for every attribute which you define in the settings, there is a selection "Update to label block" which defines whether the data is written to the label block (of every page) or not.

All the same attributes which can be used when creating switchboard schematics from plan drawings, can be linked from switchboard schematics to circuit schematic drawings.

🙆 MagiCAD-CD	- Label text definition X
Property:	Content 1
Value	
\bigcirc User defined	
O System schema	itics
Description-1	~
Attribute name:	P DRAC1
Attribute name:	P_DRACI
Update to label t	blocks
	Ok Cancel

Label text definitions are copied from page templates when creating circuit schematic drawings from switchboard schematics, so these attribute mappings are not needed to be done for every drawing separately.

Control Cable Symbol with both ends

Now you can show both ends of control cable symbols. Radio buttons have been changed to checkboxes for allowing to show both primary and secondary connections at the same time.

Destination:					BAC1								1	Vi	isible				
Cable	ID:				Con	ontroll						Visible							
Cable	typ	e:			ммс	4MO 19x1,5				Visible									
Cable	syn	nbol	leng	jth ([mm]		2	5.0				C) Syı	nbo	lups	ide	dow	n	
Sh	ow (prim	ary	con	necti	ion I	Ds				_								
Sh	ow :	seco	onda	ry c	onne	ectio	n IC	s											
🗌 Alv	vay	s sh	ow a	all co	ondu	ctor	s of	the	cabl	e									
Previe	w																		
										8	8								
	- 4X2:201	N-4X2.202	502.204	5X2.205	502:201	X2.202	5X2.203	o- 7X2201	X2.202	9/A-ES:120	gVA-ES:140								
	Ĩ.	ž	ŝ	4	ŝ	Ĩ	Ŧ	Ĩ	Ĩ	10	ų	12	13	15	16	17	19	66	20
										B	AC1								
	1 - OVE	SAC- N-	BAC- w-	BMC- A-	BAC- CI-	BMC- 0-	BAC- 4-	BMC- m-	BMC	10 - 0MB	-11 OWB	12	13	15	16	17	19	66	20
		C1	- ch	0	c	- di	Ó	0	0	Q.	Ó.								



1.5 Room

Thermal bridge calculation to Room

Under "Heat loss analysis" it is now possible to add the estimated losses for the thermal bridges. The thermal bridges are calculated according to the National Building Code of Finland, D5 (2012).

urfaces and air f	flows						Room picture					
Туре	User code	Area [m2]	U [W/m2K]	dT [℃]	Q [W]	Note				g [°C]:		21.0
Floor Slab	IF1	19.35	2.00	21.0	813	001			1			20.0
Exterior wall	EW1	8.29	0.25	47.0	97					utside temperature		
Exterior window	W1	10.55	1.40	47.0	694							
xterior wall	EW1	6.33	0.25	47.0	74							-26.0
Exterior window	W1	6.27	1.40	47.0	413							
											-	
ructural heat lo						2091				[%]:		0
ipply air heat lo (tract/transfer a		v1:				42 98						0.0
ak heat loss [W						212						
ak neat loss [vi	η;					212			·			
ermal bridges											-	
lame				Length [m]		Thermal conduction [W/	nK] Thermal bridges [W/K]	dT [°C]	Q [W]	[%]:		0
Outer window ju				23.713		0.20	4.743	47	222.898			0.0
Outer door junc				0		0.15	0.00	0	0.00			
unction betwee				2.4		0.06	0.144	47	6.768			
unction betwee			nwards)	0		-0.06	-0.00	0	-0.00	330	[W/net m2]:	42,42
unction betwee				0		0.08	0.00	0	0.00			
unction betwee				8.983		0.07	0.629	47	29.554			
unction betwee	en outer wall a	ind ground floo	or slab	8.983		0.15	1.347 6.863	47	63.33 322.55	0	[W/net m2]:	0.00
							0.803		322.55		Heat loss analysis	
Calculate tota	l thermal bride	ie value as a p	ercentage of su	rface and air f	flow heat lo	osses						
0	%									0	[W/net m2]:	0.00
•	<i>/</i> *										[11]	0.00
l heat loss [W]	:					2765						
										0	[W/net m2]:	0.00
								Ok	Cancel			0

2 Resolved issues

2.1 Common

ByLayer transparency-option

In MagiCAD 2024 we added transparency to the layers in project file. With the new feature MagiCAD user could not longer control the transparency with AutoCAD, and because the new feature does not have byLayers as alternative, the transparency we offered could not distinguish layers with different status.

We now added "byLayer" as an option for the transparency:



Title blocks		Part Class	Layer	6 N	agiCAD \	/&P -	Layer settings			×
Ventilation		Duct	DUCT-{SV1}	~	agrone i		coyer secongs			~
Systems			DUCT-{SV1}-DEVICE-	Lavorr		DI	JCT-{SV1}-DEVICE-{PV}			
⊕ Parts		Supply device	DUCT-{SV1}-DEVICE-	Layeri	Idilic	-				
Layers			DUCT-{SV1}-DEVICE-	1D	2D	3D				
	material series		DUCT-{SV1}-DEVICE-							
- Flange Seri		Flow damper	DUCT-{SV1}-COMPON		nterline					
		Fire damper	DUCT-{SV1}-COMPON	Ty	pe:			\sim		
- Duct series		Silencer	DUCT-{SV1}-COMPON	Co	lor:			~		
···· Sizing meth	iods	Air handling	DUCT-{SV1}-COMPON							
- Balancing r	nethods	Other comp	DUCT-{SV1}-COMPON	Lin	ie weight:			\sim		
···· Calculation	options	Distribution	DUCT-{SV1}-COMPON	Tra	ansparency	,		\sim		
Units		Access panel	DUCT-{SV1}-COMPON	- 10	(0D E I					
Dimension	text	Climate beam	MAGI GENERAL		/2D Edge	Line				
<u>.</u> Piping		Dimension line	DUCT-{SV1}-TEXT	Ту	be:		Continuous	\sim		
ctive Storey		Flow arrow	DUCT-{SV1}-DEVICE-	Col	lor:		By system	\sim		
Install storey origin	(-10000,-15000,0)	Accessories	MAGI_GENERAL					_		
•		Connection	MAGI_GENERAL	Lin	e weight:		ByLayer	\sim		
Active storey	Floor 2	Insulation		Tra	ansparency	,	ByLayer	\sim		
roject		Clearance z					ByLayer			
-		Maintenanc			/2D Detail	s	0			
Disconnect project	Merge project			Ту	be:		10 20			
				Col	or:		30			
0	Close						40			
				Lin	e weight:		50			
				Tra	ansparency		60 70			
							80			
							90			
				🕑 Use	e multiple la	ayers fo	or object			
					Default la					

Note: When opening a drawing which has been created in MagiCAD 2025, with an older MagiCAD, and the option has been set to "ByLayer" the option will be set to 100 in the drawings of the older versions, meaning fully transparent.

Therefore, if they drawings will be opened in an older version the option should be set to 0 in MagiCAD 2025 before doing that.

Custom properties couldn't be added to the Reports or Legends

It wasn't possible to add customer properties, created by the users, to the Report- or the Legendtemplates:





2.2 Ventilaion and Piping

Due to the adjusting collar length in the "Install Product"-dialog, the installation to the correct bottom elevation was difficult or impossible

It wasn't possible to change the bottom elevation without "squeezing" the product's collar, for drainage products and manholes, and in many cases impossible to set it to a higher elevation.

This has now been improved in such a way that the product isn't squeezed and the bottom elevation can be flexibly adjusted.



Insulation National classification code properties

It was possible to set National Classification Codes to insulation series, but the properties weren't available in any of the report-functions.

These have now been added to: Properties Palette, Old/new Part Properties, Reports, Dimtexts, MagiExport, IFC Export Examples:

Filter	General Name:	Size+insulation		
Property	Style:	STANDARD	~	By project
Product		125		
Type name	Text height:	125		By project
Product (ductwork)	Text color:	By project		🔽 By project
Duct series	Dimension text object specific la	ver		
Connection size (duct connection)	variable {TV}:			
Locked	Alianment:	O Left	Center	OB
Insulation (ductwork)		•	0	0.1
Manufacturer	Variables			
Diameter	Available:			Selected:
Length [mm]	Filter			Connection
Insulation series, thickness	Insulation / P12		=>	Insulation us
Insulation National classification group	Insulation / P13			
Insulation National classification code	Insulation / P14 Insulation / P15			
Insulation National classification abbreviation	Insulation 7 P 15			
Insulation National classification description	Insulation description			
Insulation National classification subgroup	Insulation material code	11 1.0	1	
General	Insulation National classification		1	
Part type	Insulation National classification	n description		
MC LOD	Insulation National classification			
System (ductwork)	Insulation National classification	n subgroup		
Calculation	Insulation thickness			
Sizing method (ductwork)	Insulation user code			



Air flow velocity didn't update

The velocity of the air flow didn't update when changing the size or selecting another device, once a value had been set.

Now the velocity is correctly updated according to the selected size or device:

UserCode	Ma	oufacturer	Produ	-				Preview Properties	Ventilation	
S1	Jev			AK KU L						
\$2	Line		RS16		•					
53	Linc	3ab	C21_1	IBA VBA	2				ACCESSION	
ze:	RS16-V	S-0-315+ME	8-250-315	S - Rotat	ion		~	View mode	Rendered	Ý
🛛 ls VAV	(device							Placement	Orientation	
	Min	Normal	Boost					Celling	0	
Flow	30	40	50	L/s	Collar length	50	mm	⊖ Wall ⊖ Sil	0,0	
Velocity	0.6	0.8	1.0	m/s	Grile direction	0	deg	O Roor	OFree	
mbols	ser Symbo			et Symbo					0	

dp/m was calculated using incorrect length

The dp/m value was incorrectly calculated using only the pipe length instead of the pipe length + fitting equivalent length, and has now been corrected.

Could not change the revision arrow layer color

The color of the revision arrow was always black/white, no matter what color had been selected by the user in the project. This has now been fixed and the correct color is shown in the drawing. **Note:** Existing arrows drawn with a faulty version can't be fixed, they must be redrawn to show correct color.

Crash when saving from paper space

Due to an issue the platform crashed when saving the drawing in paper space. This issues has been corrected.

Water sizing calculation crashed when branch selection was used

Domestic water sizing crashed when branch selection was used.

This took place when some of the automatic circulation water flow standards was used and only hot and cold pipes were selected in branch calculation, and the circulation return water was not selected.

2.3 Electrical

Creating legend moved cables

Sometimes when creating a legend, cables were moved to 0,0,0. This has now been fixed.

Voltage drop issues in switchboard schematics

Reference to plan dwg was reset after reading data from plan dwg in "Switchboard schematic circuit" dialogue which made voltage drop values to disappear.



2.4 Room

Room was not handling slabs correctly in some cases

If the design contained for example 2 different floors at the bottom, which were actually at the same top-level, but were created separately because they had different heights, then the program assumed that the space between 1-3 was actually towards the outside, generating much higher heat losses:



Now the program correctly identifies the spaces and doesn't assume that these spaces are towards the cold outside.