



# MagiCAD for BricsCAD

Release notes for version 2026

23/05/2025

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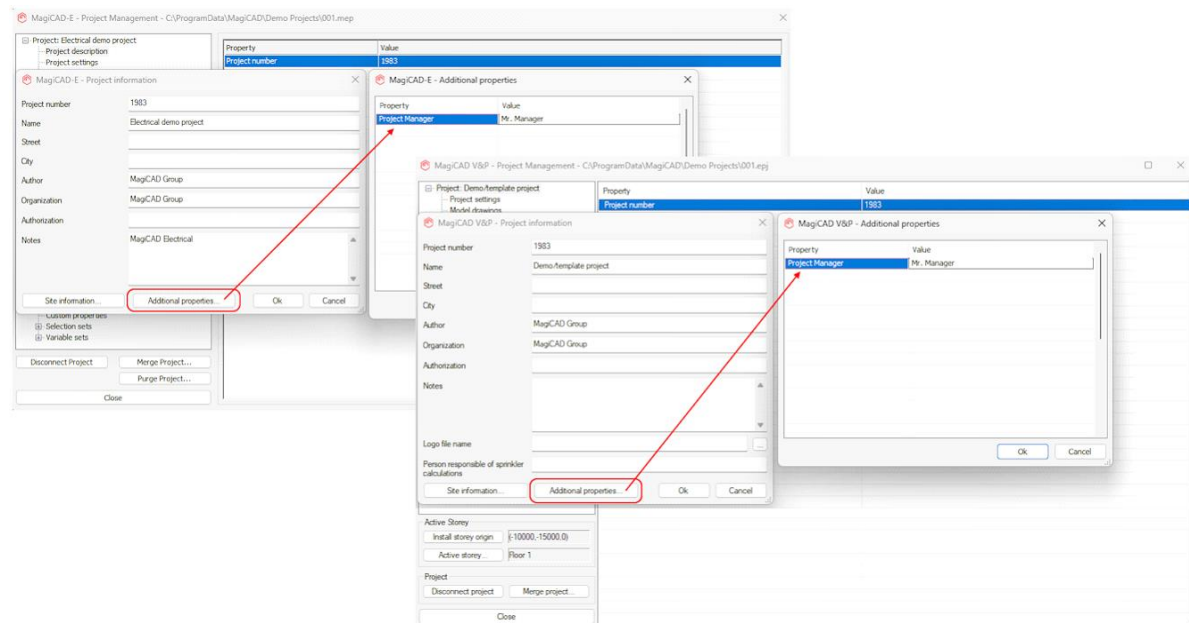
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## 1 New features

### 1.1 Common

#### Custom project properties

You can now define up to 30 custom project properties for ventilation, piping and electrical projects. The created properties can then be used in IFC property sets and as title block attributes. Ideally, this helps unify the use of properties as the same property can be used in IFC as part of the project, site, or building data and shown in the title blocks of printout drawings as part of the project data.



#### Product browser online database address change

Product browser online database address has been changed. This should not have any effect when fetching products from the online database.

This update has been made to better ensure safe data transfer.

## 1.2 Ventilation and Piping

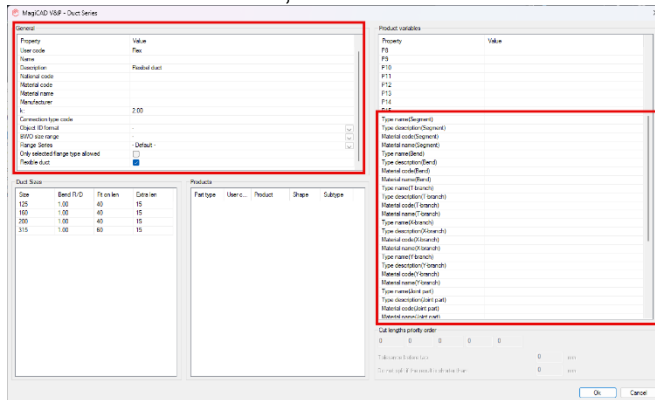
### Common

#### New information fields to duct/pipe series and insulation series + max character amount changes MCCAD

New properties for duct, pipe, drainage and insulation series, as well as generic products, enable more detailed information to be included about parts and products. The new properties also support the needs of national classification systems.

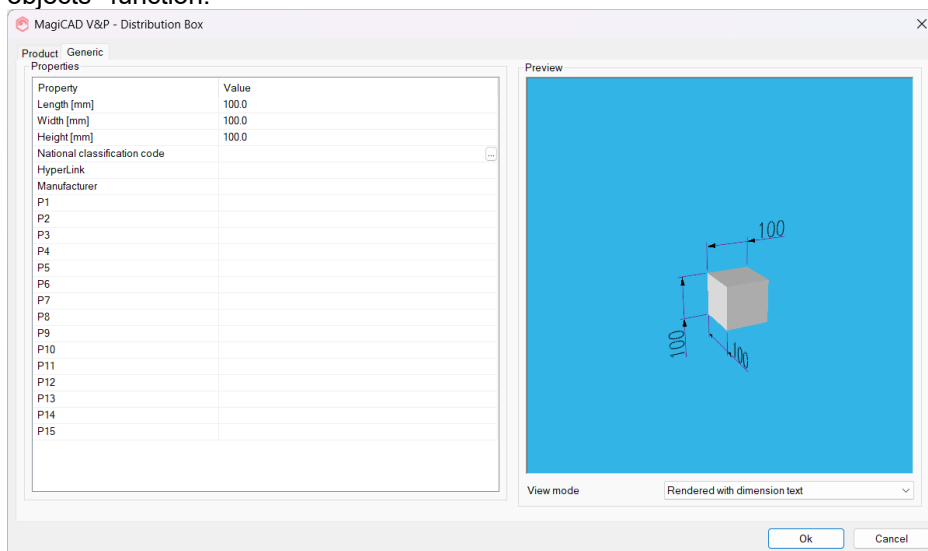
Duct, pipe, drainage, and insulation series have new series-specific properties for Name, Manufacturer, and Hyperlink, as well as part-specific properties for Type name, Type Description, Material code, and Material name.

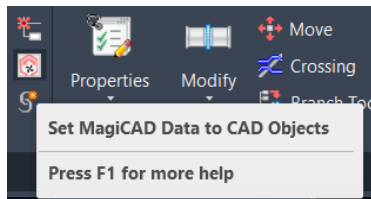
In addition to the above, insulation series also have new properties for Code and Class.



#### Hyperlink, Manufacturer, and P1-P15 properties for generic products

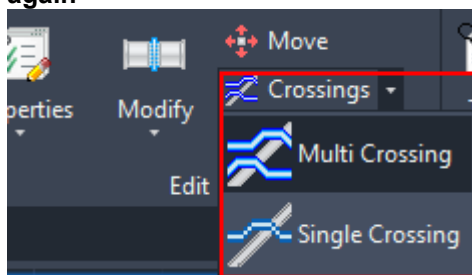
Hyperlink, Manufacturer, and P1-P15 properties can now be added to generic products as well as CAD-products which have been turned into MagiCAD Objects using the "Set MagiCAD Data to CAD objects"-function.





The products included are:  
Generic Distribution box  
Generic Manifold  
Generic Heating & Cooling plant  
Generic Manhole  
Set MagiCAD Data to CAD Objects

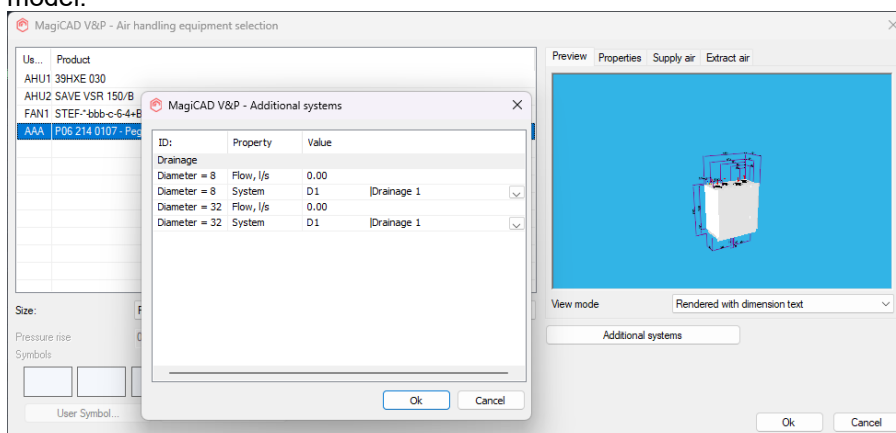
**Crossing renamed to "Multi Crossing" and the old "Single Crossing" is available via a button again**



## Ventilation

### **Drainage connections for air handling units**

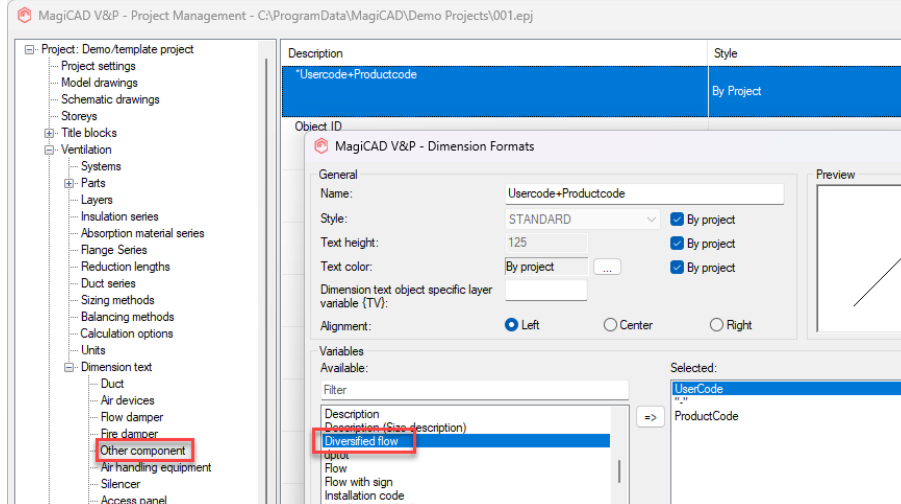
Now possible to select drainage connections for air handling units if the products have them in the model:



**Note:** As of now for the 2026 MR release products with the connections aren't yet available but are coming.

## Diversified flow in Other components

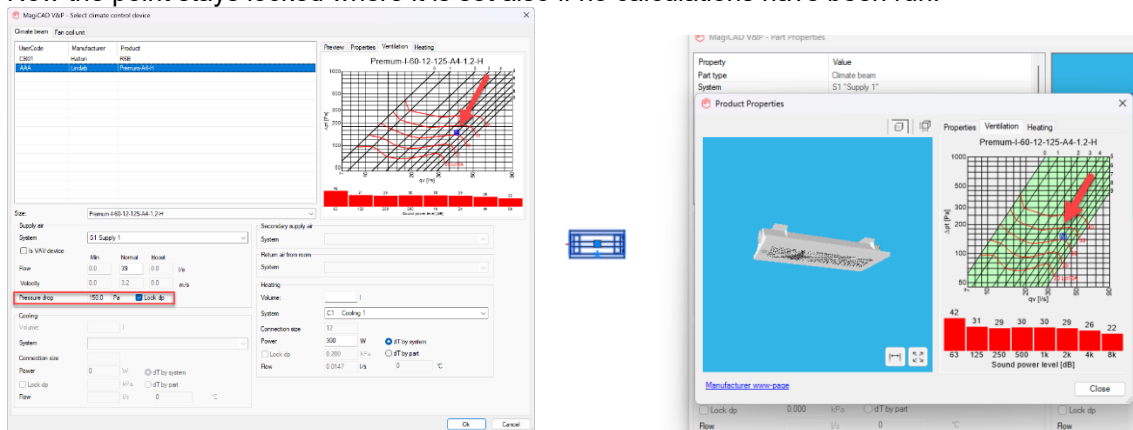
Diversified flow has been added to Other components, as a property in the Part Properties as well as the reporting functions like dimension texts and property sources for the IFC:



## Showing the operation point with the dp value locked in part properties without balancing

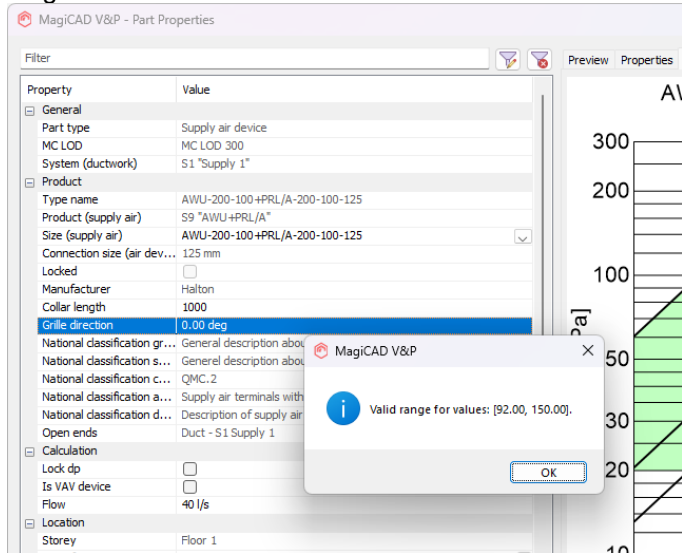
Earlier the operation point was not shown in the set position after installation, without running balancing first.

Now the point stays locked where it is set also if no calculations have been run:



### Warning to new Part properties

A warning has been added to the new part properties dialog to inform the user if a too long collar length has been selected.

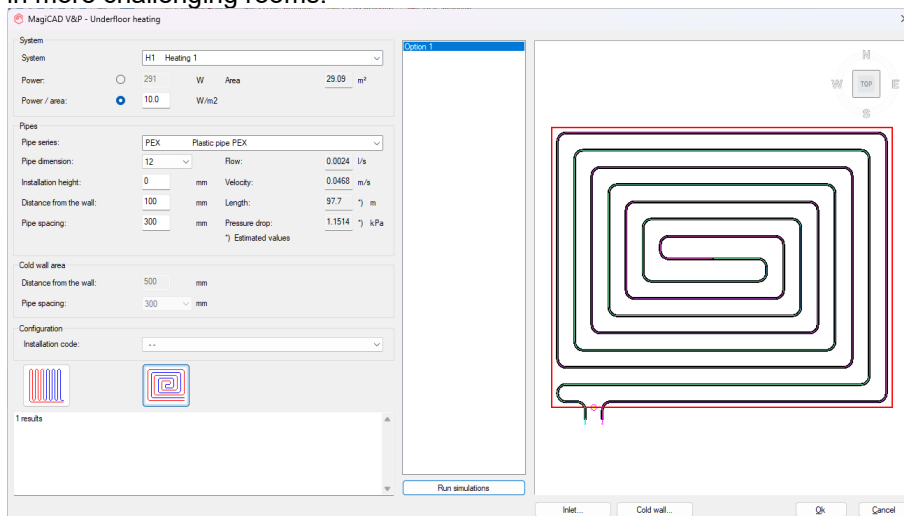


### Piping

#### Auto-Routing Underfloor Heating function improvements

It's now possible to use a spiral pattern in the Auto-Routing Underfloor Heating function to give more options for the design.

The algorithm itself has also been improved to better give different layouts and have possible solutions in more challenging rooms.



**Note:** The spiral pattern does not recognize obstacles.

### 1.3 Electrical

#### Showing object group name in the drawing

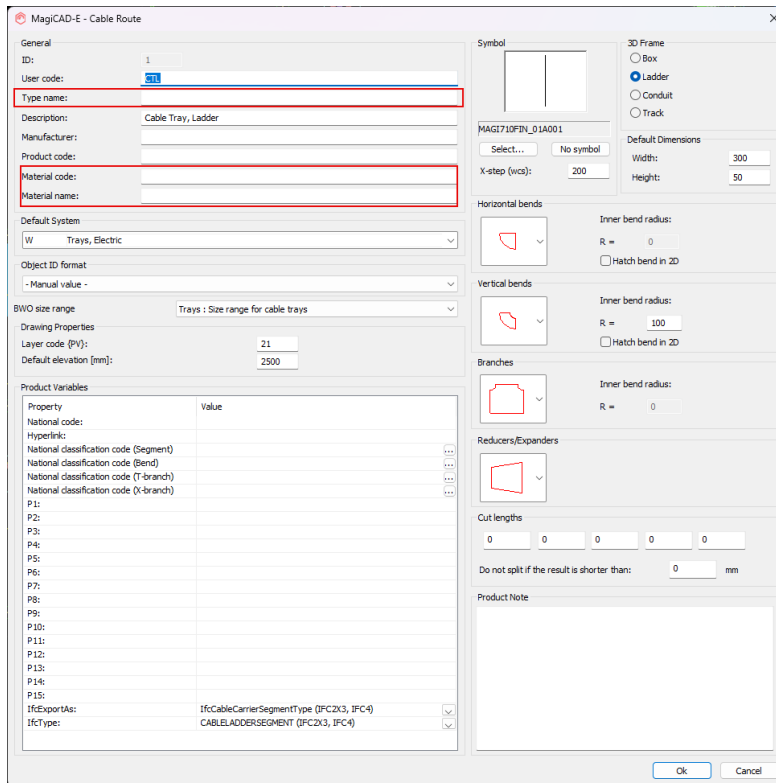
Group name is shown at the installation point of a group when group boundary is visible.



#### New information fields for cable trays, conduits, lighting tracks, busbar and LED-stripes

Type name have been added to cable trays, conduits, lighting tracks, busbars and LED-stripes.  
Material code and Material name have been added to cable trays and conduits.





**General**

ID: 1

User code: 501

Type name: Cable Tray, Ladder

Description: Cable Tray, Ladder

Manufacturer:

Product code:

Material code:

Material name:

Default System: W Trays, Electric

Object ID format: - Manual value -

BVO size range: Trays : Size range for cable trays

Drawing Properties

Layer code (PVI): 21

Default elevation [mm]: 2500

Product Variables

Property	Value
National code:	
Hyperlink:	
National classification code (Segment)	
National classification code (Bend)	
National classification code (T-branch)	
National classification code (X-branch)	
P1:	
P2:	
P3:	
P4:	
P5:	
P6:	
P7:	
P8:	
P9:	
P10:	
P11:	
P12:	
P13:	
P14:	
P15:	
IfcExportAs:	IfcCableCarrierSegmentType (IFC2X3, IFC4)
IfcType:	CABLELADDERSEGMENT (IFC2X3, IFC4)

**Symbol**

MAGI710FIN\_01A001

Select... No symbol

X-step (wci): 200

**3D Frame**

☐ Box

☒ Ladder

☐ Conduit

☐ Track

Default Dimensions

Width: 300

Height: 50

**Horizontal bends**

Inner bend radius: R = 0

☐ Hatch bend in 2D

**Vertical bends**

Inner bend radius: R = 100

☐ Hatch bend in 2D

**Branches**

Inner bend radius: R = 0

**Reducers/Expanders**

**Cut lengths**

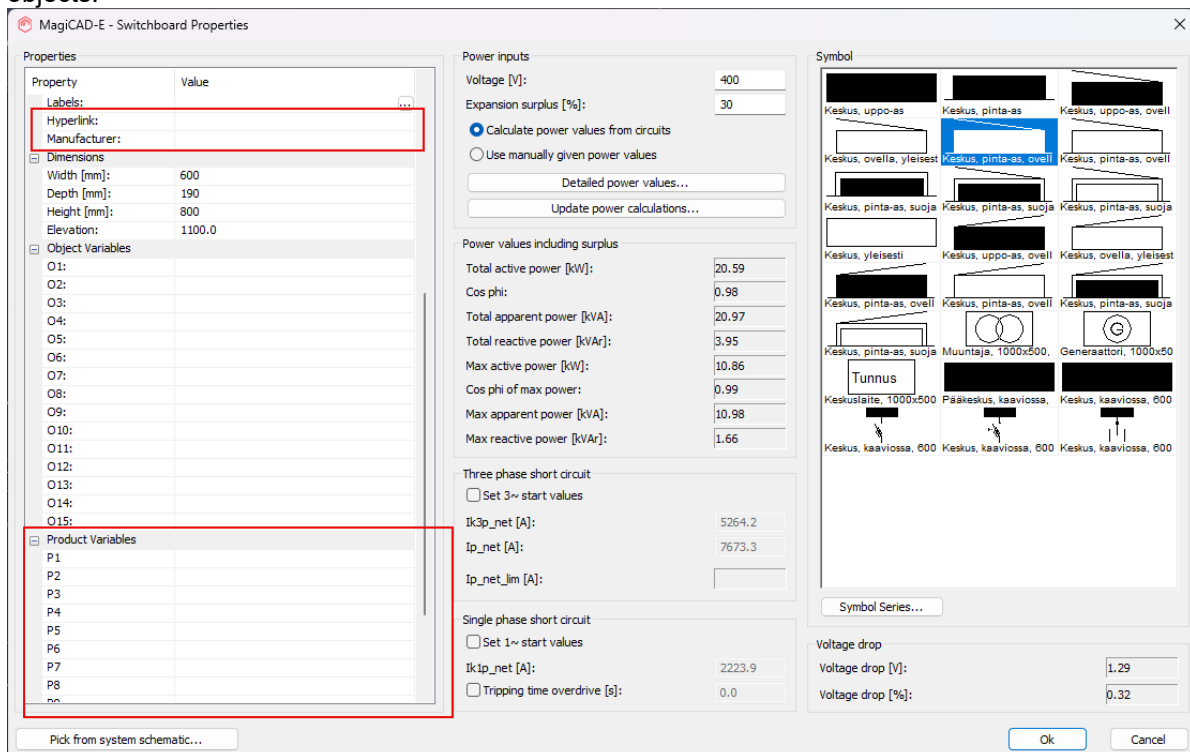
0 0 0 0 0

Do not split if the result is shorter than: 0 mm

**Product Note**

Ok Cancel

**Hyperlink, manufacturer and product variables added to switchboards and converted objects**  
Hyperlink, manufacturer and P1-P15 attributes have been added to switchboards and converted objects.



**Properties**

Property	Value
Labels:	
Hyperlink:	
Manufacturer:	
Dimensions	
Width [mm]:	600
Depth [mm]:	190
Height [mm]:	800
Elevation:	1100.0
Object Variables	
O1:	
O2:	
O3:	
O4:	
O5:	
O6:	
O7:	
O8:	
O9:	
O10:	
O11:	
O12:	
O13:	
O14:	
O15:	
Product Variables	
P1:	
P2:	
P3:	
P4:	
P5:	
P6:	
P7:	
P8:	
P9:	
P10:	
P11:	
P12:	
P13:	
P14:	
P15:	

**Power inputs**

Voltage [V]: 400

Expansion surplus [%]: 30

☒ Calculate power values from circuits

☐ Use manually given power values

Detailed power values...

Update power calculations...

**Power values including surplus**

Total active power [kW]:	20.59
Cos phi:	0.98
Total apparent power [kVA]:	20.97
Total reactive power [kVAR]:	3.95
Max active power [kW]:	10.86
Cos phi of max power:	0.99
Max apparent power [kVA]:	10.98
Max reactive power [kVAR]:	1.66

**Three phase short circuit**

☐ Set 3~ start values

Ik3p_net [A]:	5264.2
Ip_net [A]:	7673.3
Ip_net_lim [A]:	

**Single phase short circuit**

☐ Set 1~ start values

Ik1p_net [A]:	2223.9
Tripping time overdrive [s]:	0.0

**Symbol**

Symbol Series...

Voltage drop

Voltage drop [V]: 1.29

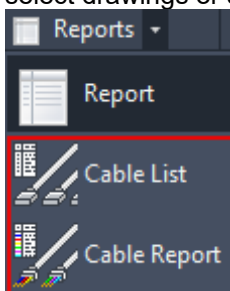
Voltage drop [%]: 0.32

Ok Cancel

## 1.4 Circuit Designer

### New functions Cable Report and Cable list

New functions, Cable List and Cable Report, which allows you to create a list or a report of control cables from multiple drawings. When you start either of the functions, you can decide whether to select drawings or select a folder and all control cables of those drawings are shown in a single list.

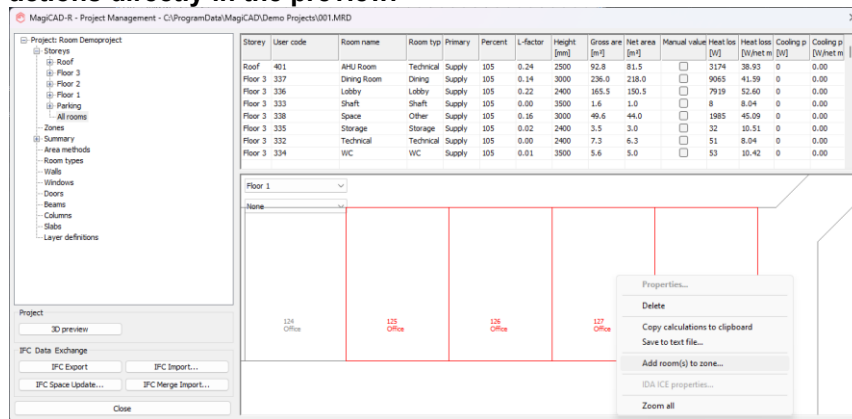


## 1.5 Room

### Zones and preview improvements

Names and numbers of the rooms are now available in the previews in the project to get a better overview of which rooms are which.

A context menu which opens with right-click now makes it available to perform different actions directly in the preview.

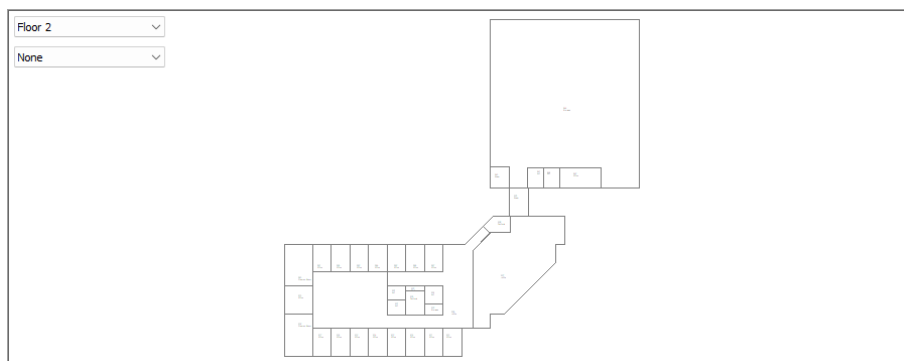
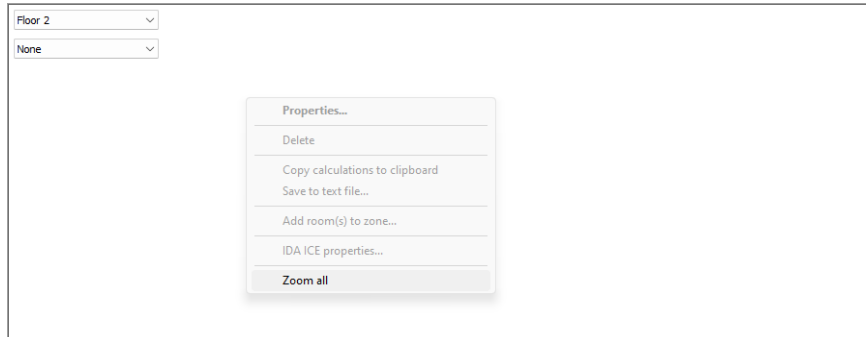


The screenshot displays the MagiCAD-R Project Management window. On the left is a project tree with categories like Storeys, Zones, Summary, Area methods, Room types, Walls, Windows, Doors, Beams, Columns, Slabs, and Layer definitions. The main area features a table of room data and a 3D preview of Floor 1.

Storey	User code	Room name	Room type	Primary	Percent	L-factor	Height [m]	Gross area [m²]	Net area [m²]	Manual value [m²]	Heat loss [W]	Heat loss [W/m²]	Cooling p [W]	Cooling p [W/m²]
Roof	401	AHU Room	Technical	Supply	105	0.24	2500	92.8	81.5		3174	38.93	0	0.00
Floor 3	337	Dining Room	Dining	Supply	105	0.14	3000	236.0	218.0		9065	41.59	0	0.00
Floor 3	336	Lobby	Lobby	Supply	105	0.22	2400	165.5	150.5		7919	52.60	0	0.00
Floor 3	333	Shaft	Shaft	Supply	105	0.00	3500	1.6	1.0		8	8.04	0	0.00
Floor 3	338	Space	Other	Supply	105	0.16	3000	49.6	44.0		1985	45.09	0	0.00
Floor 3	335	Storage	Storage	Supply	105	0.02	2400	3.5	3.0		32	10.51	0	0.00
Floor 3	332	Technical	Technical	Supply	105	0.00	2400	7.3	6.3		51	8.04	0	0.00
Floor 3	334	WC	WC	Supply	105	0.01	3500	5.6	5.0		53	10.42	0	0.00

The 3D preview shows Floor 1 with four office rooms labeled 124, 125, 126, and 127. A context menu is open over room 127, offering actions: Properties..., Delete, Copy calculations to clipboard, Save to text file..., Add room(s) to zone..., IDA ICE properties..., and Zoom all.

**"Zoom all" makes it possible to refocus the project in case it is out of bounds or too small to see:**



## 1.6 Schematics

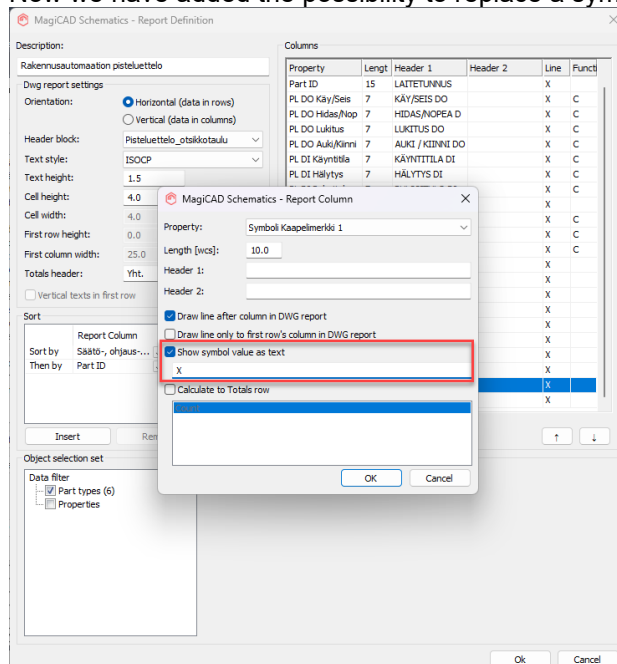
**"Symbol" type property can now be shown as text and not just as the symbol itself**

When creating a report the "Symbol"-value was the symbol itself, which wasn't functional for some types of reports:

SÄÄTÖ-, VALVONTA- TAI OHJAUSKOHDE	LAITETUNNUS	LITÄNNÄN PERUSTIEDOT										OHJELMONTITIEDOT							
		DIG. LÄHDÖT DO					DIG. TULOT DI												
		KÄY/SEIS	HIDAS/NOPEA	LUKTUS	AUKI / KIINNI	KÄYNTITILA DI	HÄLYTYS DI	PULSSITULO DI	ANALOG. LÄHDÖT AO	ANALOG. TULOT AI	BISSIBIT HÄLYTYS	RAJA-AJROHJALTYYS +	RAJA-AJROHJALTYYS -	RAJA-AJROHJALTYYS --	RAJA-AJROHJALTYYS ---	LUKUIVA RAJA-AJROHJAL	HÄLYTYSVOIVE	TREND-SIGANTA	
Hätäseisytin	HS01		X			X													
Järjymysvaara	TAZ14						X												
LTD-verkoston paine	PE75								X			X		X					
Lämpölämmitys	TE01									X									
Lämpölämmitys	TE02								X		X		X						
Lämpölämmitys	TE04								X		X		X						
Lämpölämmitys	TE10								X			X	X						
Lämpölämmitys	TE30								X			X	X						

X		X		X														
X																		
X		X		X														
X		X		X														
X		X		X														
X		X		X														
X		X		X														
X		X		X														
	X																	
	X																	
	X																	
X		X		X														

Now we have added the possibility to replace a symbol-value with text:



												X
X			X		X							X
X												X
X		X		X								X
X		X		X								X
X			X	X								X
X			X	X								X
X		X		X								X
X		X			X							X
X		X		X								X
	X											
	X											
	X											
X		X		X								X

## 2 Resolved issues

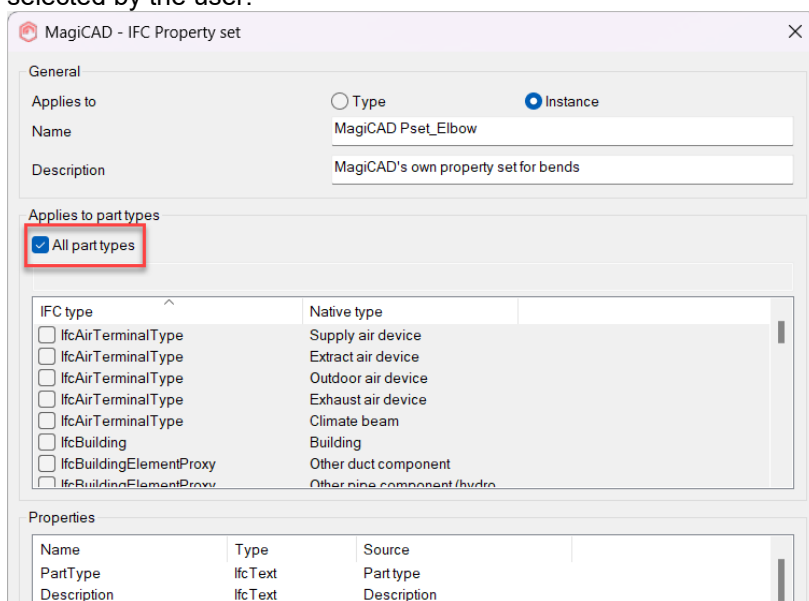
### 2.1 Common

#### It was not possible to pick the height level from CAD object when making a crossing

MagiCAD's crossing tool didn't recognize MagiCAD Room objects. This has been fixed and they are now recognized by the function.

#### Property set manager lost binding if "All part types" was selected

The non-default bindings listed in the list below "All part types" weren't selected when this option was selected by the user.



#### Project merge took a long time, didn't create new, and sometimes crashed

Issues with project merge has been corrected:

Duct series merge didn't work correctly.

Copy-pasting duct serie caused crash.

Deleting copy-pasted duct serie caused crash.

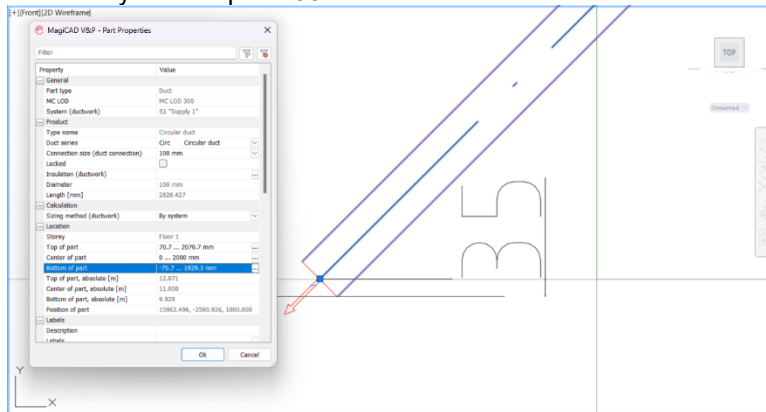
## 2.2 Ventilaion and Piping

### Common

#### The elevations for sloping segments had the wrong top and bottom points in Properties and MagiCAD's new Part Properties

The top- and bottom elevations for sloping segments were wrong in the Properties and in the new Part Properties dialogs.

For example for the bottom elevation here was shown for the "center point" at the bottom end, and not at the very bottom point 35 mm:s lower:



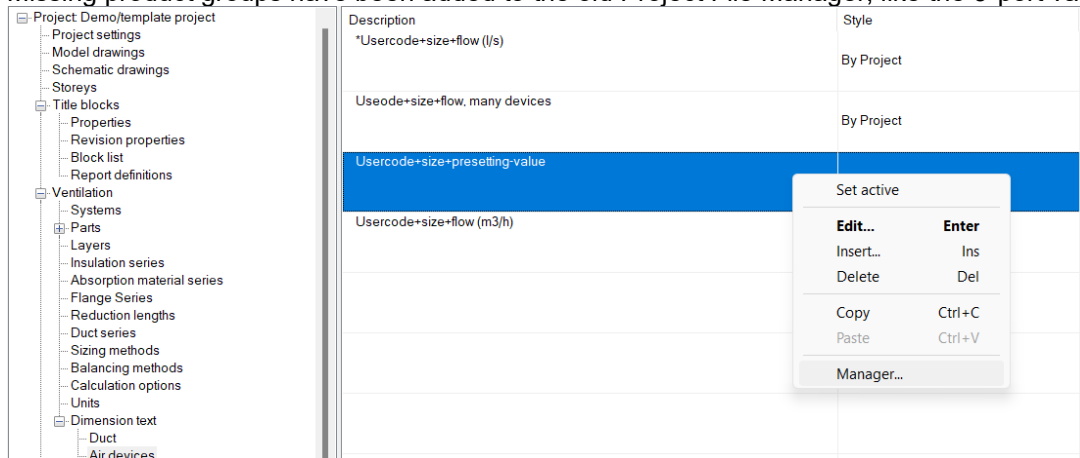
Now the correct elevations are shown in both for sloping segments.

#### Joint part caused the creation of rectangular Provision for circular ducts and pipes

The joint parts caused the Provisions automatically created to be rectangular even in cases where they should have been round, at the points where the round joint parts were.

#### Old project file manager was missing dimension text groups

Missing product groups have been added to the old Project File Manager, like the 3-port valve:





### UserCode of Heating & Cooling plant product wasn't exported to IFC

### Calculation warnings missing for negative flow

The warning for the negative flow wasn't available after MagiCAD 2023 UR-1:



**Pipe series was printed several times if "User code" was missing from pipe series**

[illegible]

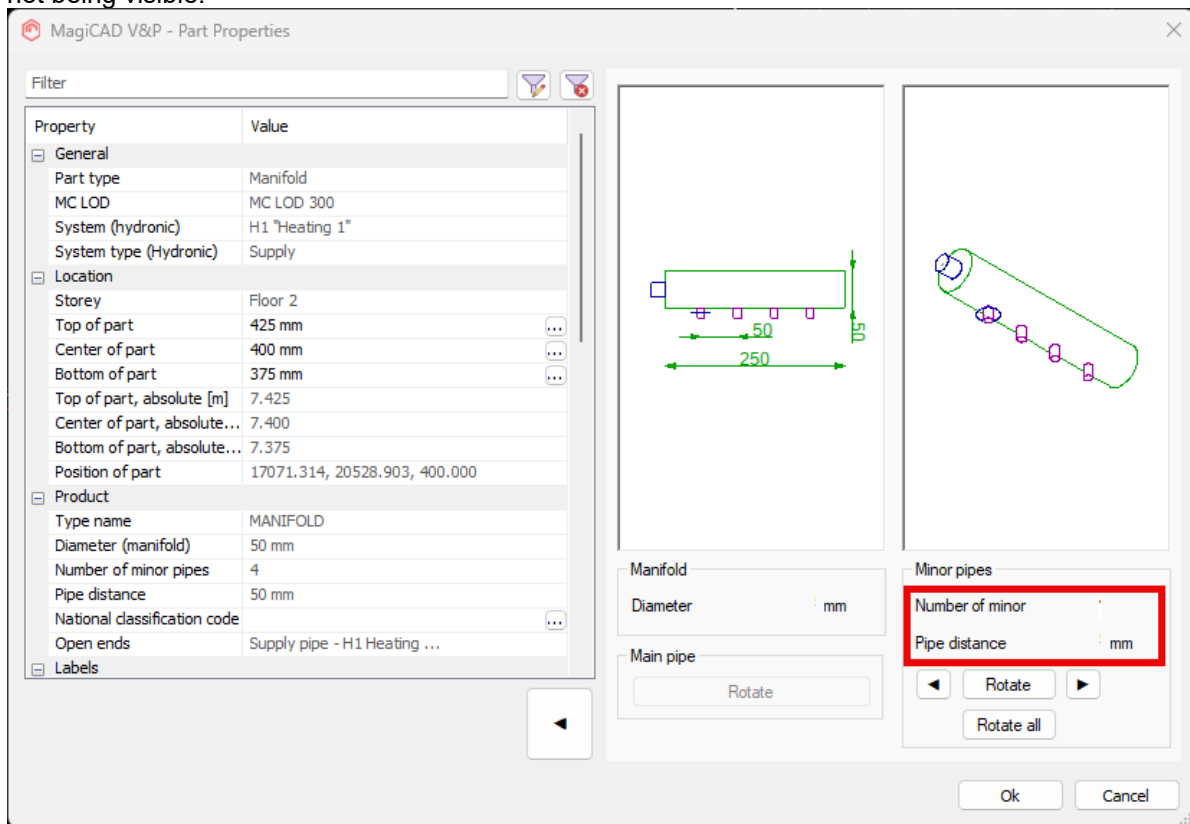
### Calculated power value of manifolds

Only the manually given power value was visible in the manifold and could be then used in dimension text but the calculated power value was not written back to manifold so it couldn't be used then in the dimension text.

Now manifolds do also show the calculated power value.

### Scaling issue with manifolds in the new part properties dialog

The new Part Properties dialog for the generic manifolds didn't scale correctly which led to information not being visible:



### Sprinkler

#### Incorrect adding of the equivalent length

In some cases one T-branch was left out from the calculation. This is now corrected.

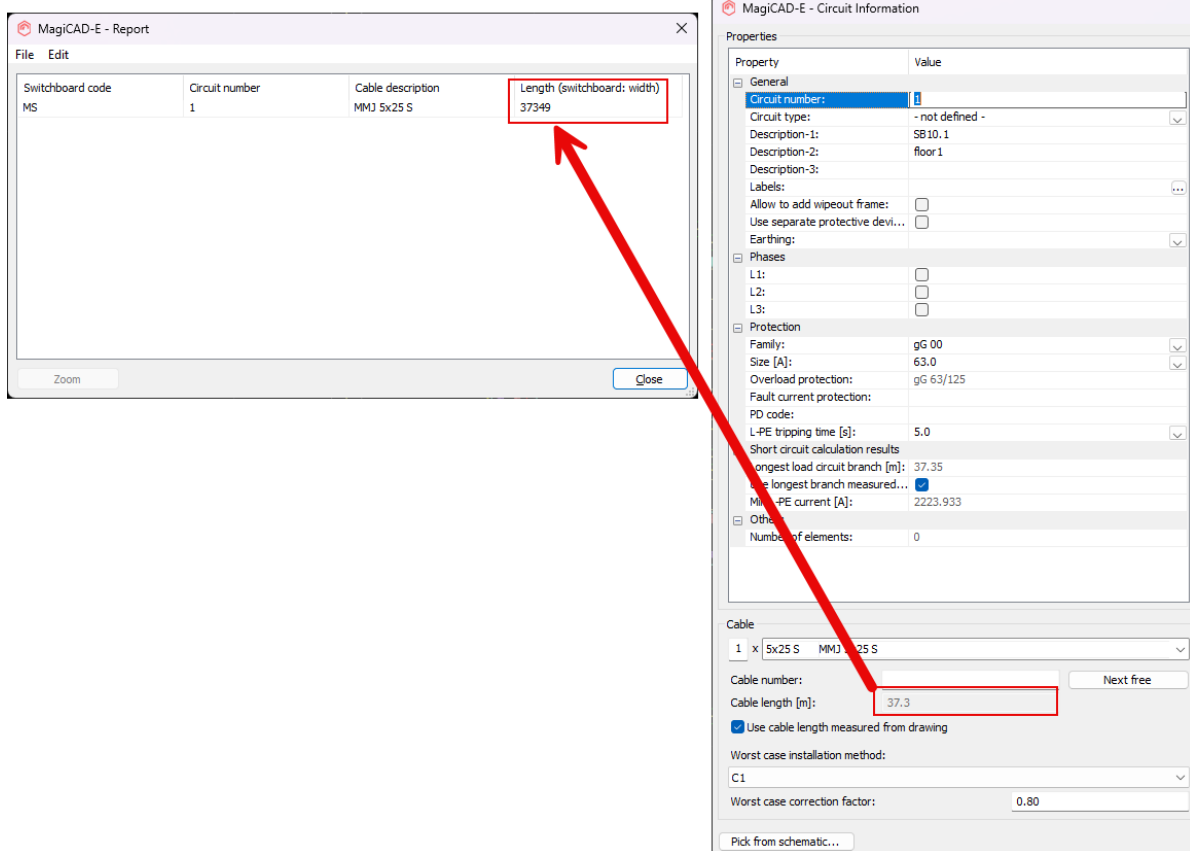
## 2.3 Electrical

### "Save as" didn't work in Edit electrical project software

When saving project file with Save as, it didn't create a new file. Now it makes the new file as it should.

### Length attribute wasn't showing the cable length of circuit symbols in reports

Now you can show the cable length of circuit symbols with attribute "Length (switchboard: width)" in Reports and Bill of materials. With "Total length of similar" you can also summarise lengths from the circuit symbols.



### Wall installation symbols of luminaires were shown incorrectly

After exploding 2D symbol of wall luminaire with curves, negative angle was incorrectly converted to positive making the symbol look broken.

Now angles are converted correctly.

### Voltage drop and SC calculation problems

Voltage drop and 3~ short circuit calculation do not reset longest branch length value to zero

Power calculation includes orthogonal length in longest branch length

Power calculation updates longest branch length also to dimension text if *Update to drawing(s)* is used

**Change Width and Height were broken, bends got messed up**

When changing width of cable trays to either very small or to very large, bends between the changed segments were not changed properly.

**Copy didn't make circuit line connections to packet**

When copying data circuit, which is connected to cable packet with a cable, connection was not made to the copied object. Now packet connection is done to the copied object if the circuit part of the cable touches the packet.

**Copying packets didn't not make the connections to the main packet for other than the last branch**

When copying cable packet branch from the main packet multiple times in different places on the main packet. Only the last copied branch were connected to the main cable packet.

Now all branches are connected to the main cable packet.

**Suspension Length of Luminaries in IFC Export didn't not match the length defined in the drawing**

Luminaires were shown in wrong elevation in IFC export when they had suspension length defined. Now suspension length is taken into account correctly in IFC export.

## 2.4 Room

### **Fatal Error after installing windows and doors**

Fixed an issue which caused MagiCAD to crash when installing multiple windows and doors during the same session.

This was due to memory being overloaded.

This has now been corrected and the workflow won't cause a crash.