MagiCAD for BricsCAD

Release notes for version 2026

23/05/2025

MagiCAD

Content

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.
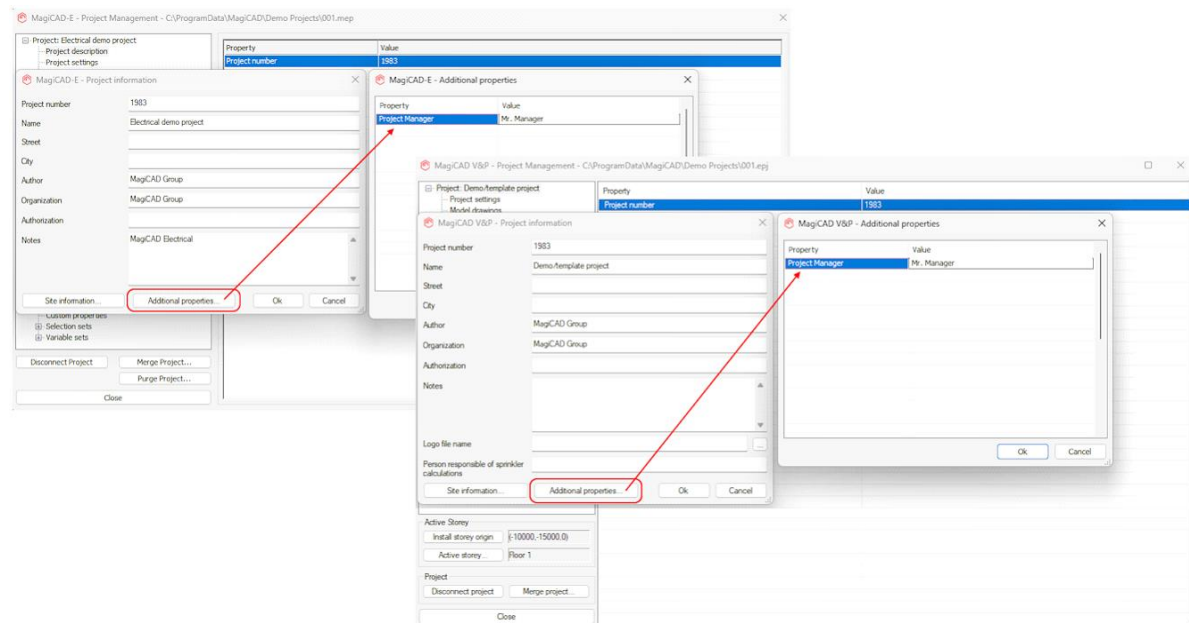
Product browser online database address change

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

<u>Common</u>

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.
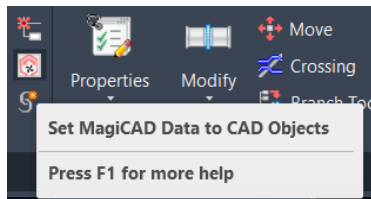
In addition to the above, insulation series also have new properties for Code and Class.
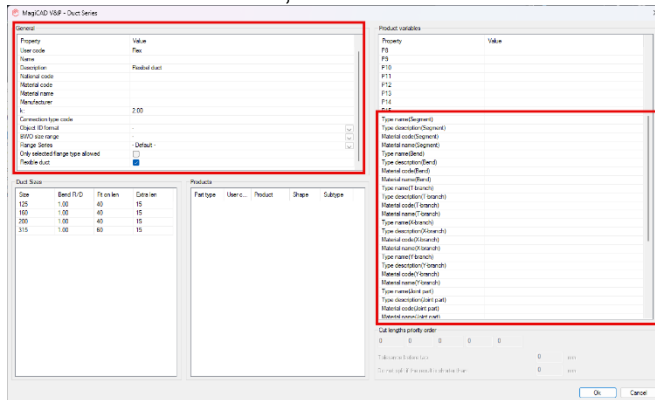
**Hyperlink, Manufacturer, and P1-P15 properties for generic products**

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.
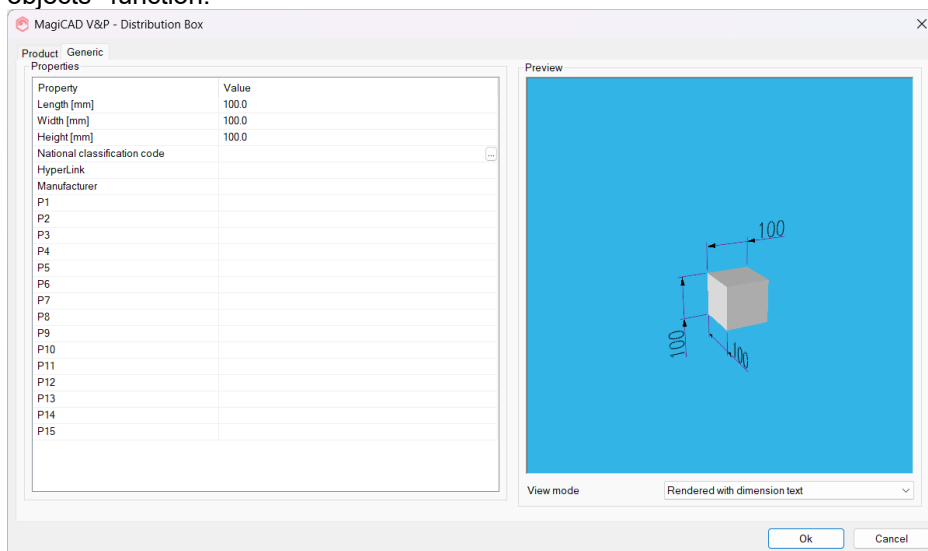
The products included are:

Generic Distribution box

Generic Manifold

Generic Heating & Cooling plant

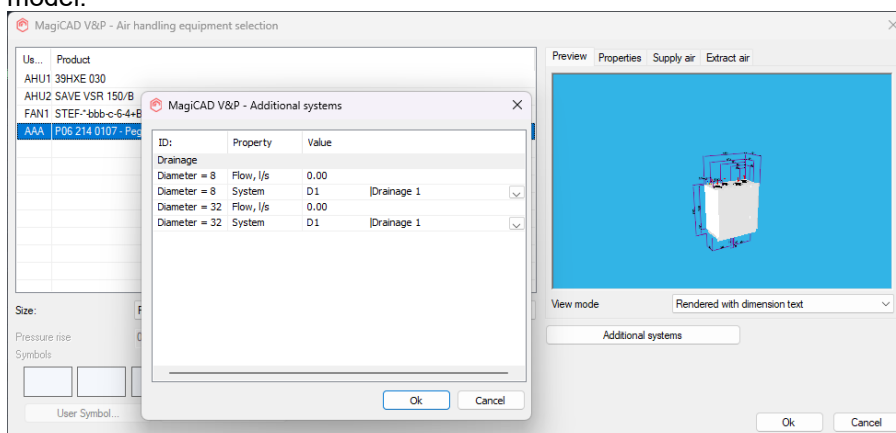Generic Manhole

Set MagiCAD Data to CAD Objects

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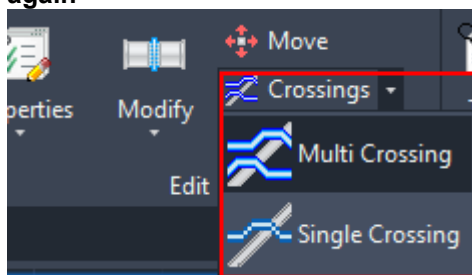
Ventilation

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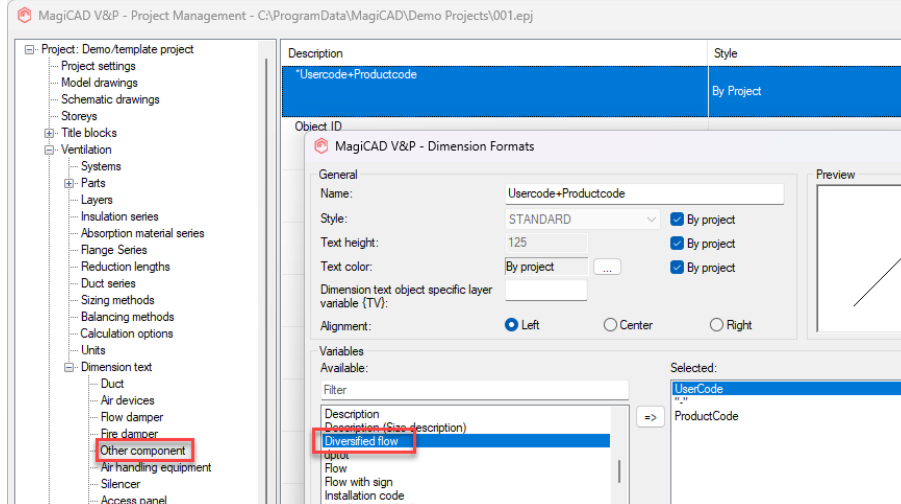
## Showing the operation point with the dp value locked in part properties without balancing

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:
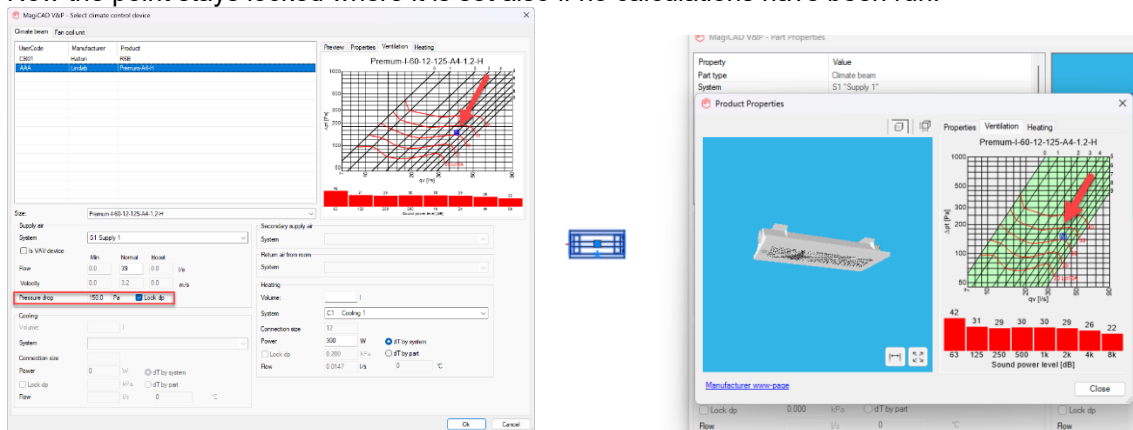
Warning to new Part properties

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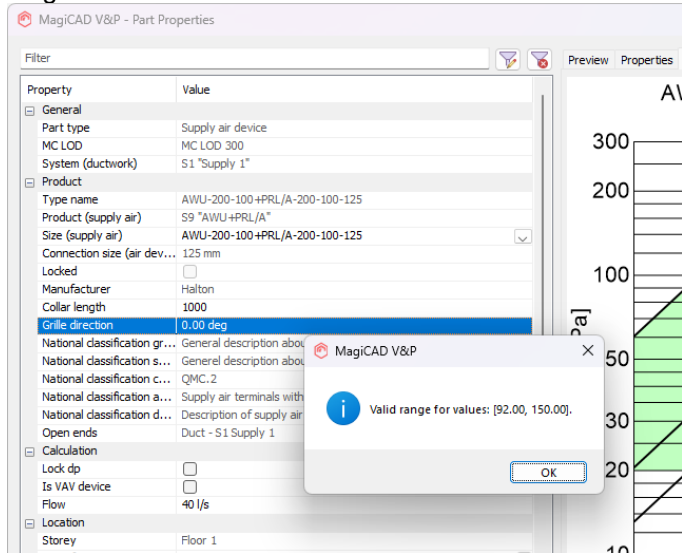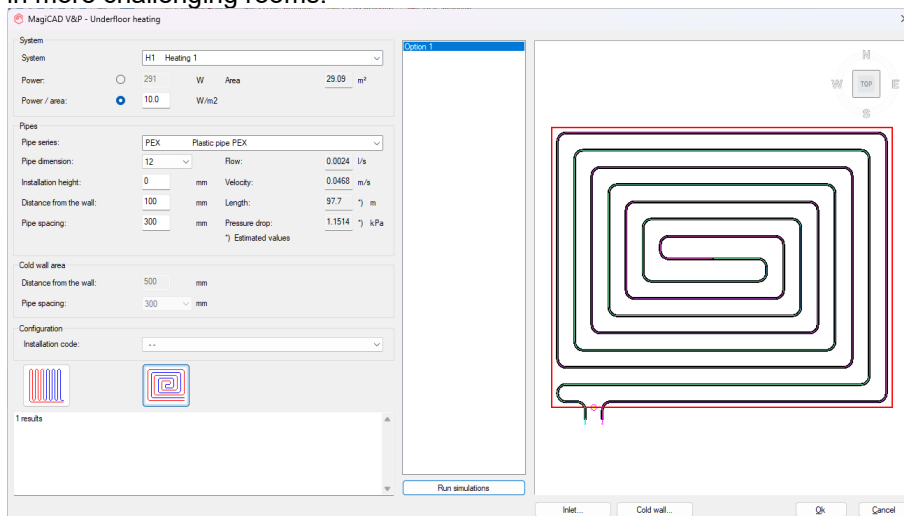

Piping

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.

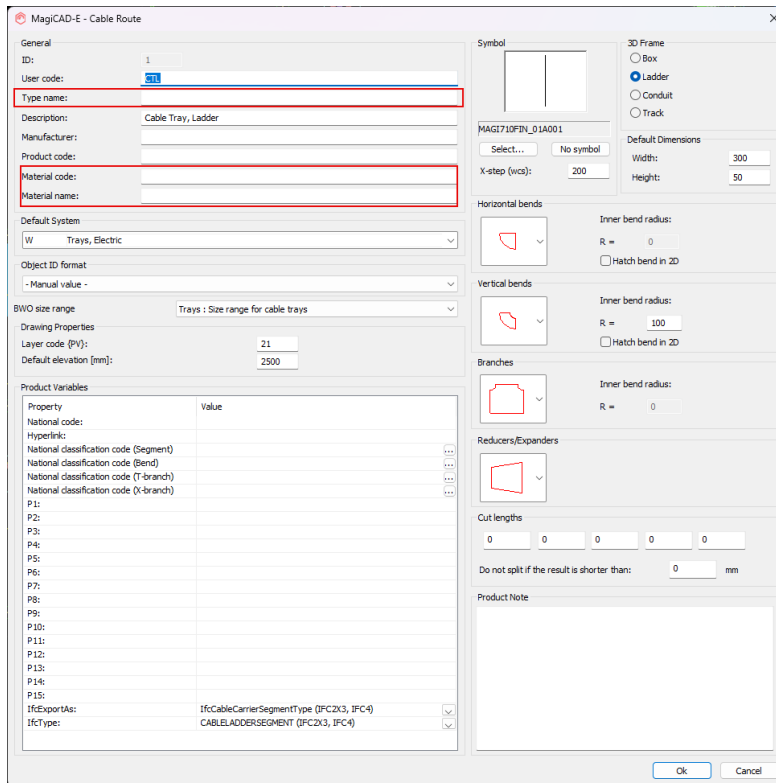## 1.3 Electrical

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.

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.

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.
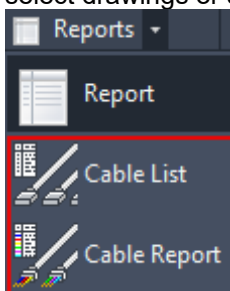
1.5   Room

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.

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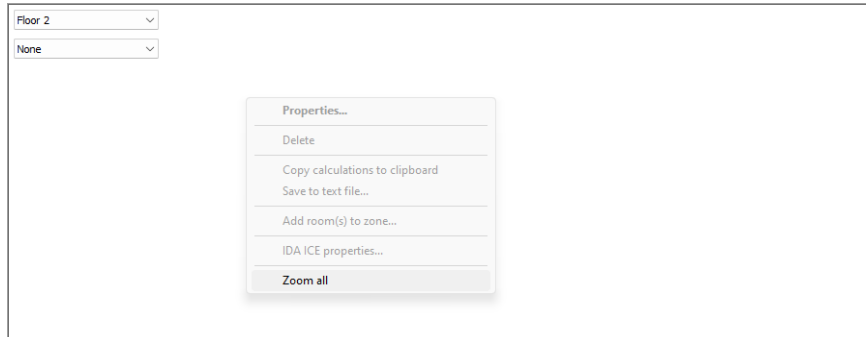
1.6 Schematics

"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:

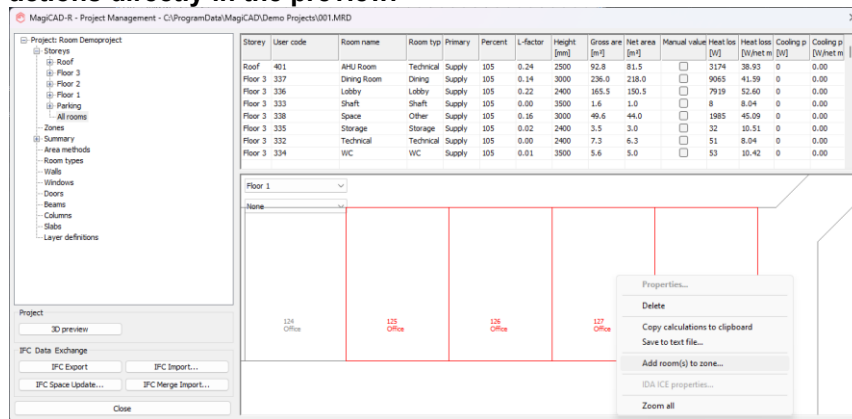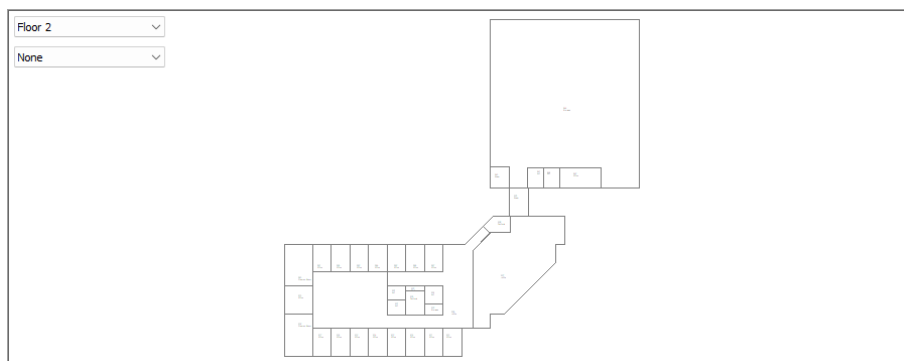| SÄÄTÖ-, VALVONTA- TAI OHJAUSKOHDE	LAITETUNNUS	KÄY/SEIS	HIDAS/NOPEA	LUKITUS	AUKI / KIINNI	KÄYNTITILA DI	HÄLYTYS DI	PULSSITULO DI	ANALOG. LÄHDÖT AO	ANALOG. TULOT AI	RISTIRIITAHÄLYTYS	RAJA-ARVOHÄLYTYS +	RAJA-ARVOHÄLYTYS ++	RAJA-ARVOHÄLYTYS -	RAJA-ARVOHÄLYTYS --	LIUKUVA RAJA-ARVOHÄL.	HÄLYTYSVIIVE	TREND-SEURANTA
Hätäseiskytkin	HS01			X			X											
Jäätymisvaara	TAZ14						X											
LTO-verkoston paine	PE75									X		X		X				
Lämpötilamittaus	TE01									X								
Lämpötilamittaus	TE02									X	X		X					
Lämpötilamittaus	TE04									X	X		X					
Lämpötilamittaus	TE10									X		X	X					
Lämpötilamittaus	TE30									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.
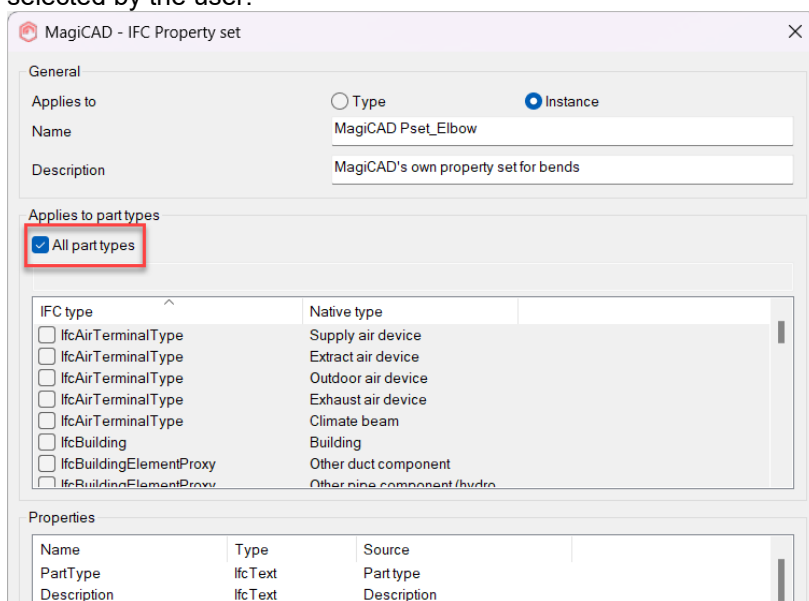
Project merge took a long time, didn't create new, and sometimes crashed
Issues with project merge has been corrected:
Duct series merge didn't work correctly.
Copy-pasting duct serie caused crash.
Deleting copy-pasted duct serie caused crash.

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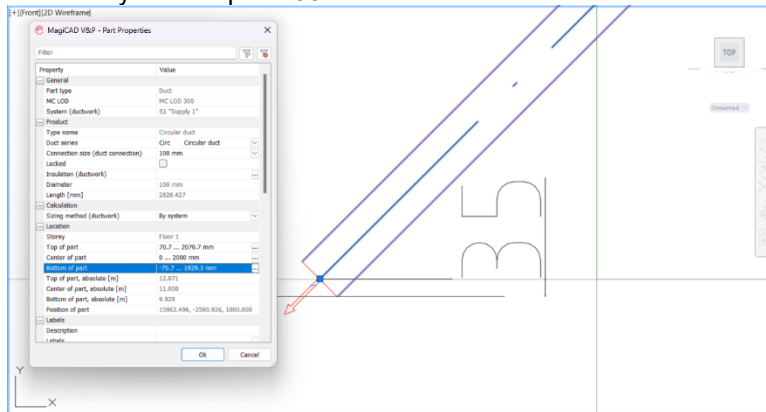
Now the correct elevations are shown in both for sloping segments.

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:

Piping

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

The UserCode of Heating & Cooling plant product wasn't exported to the IFC, which has now been corrected.
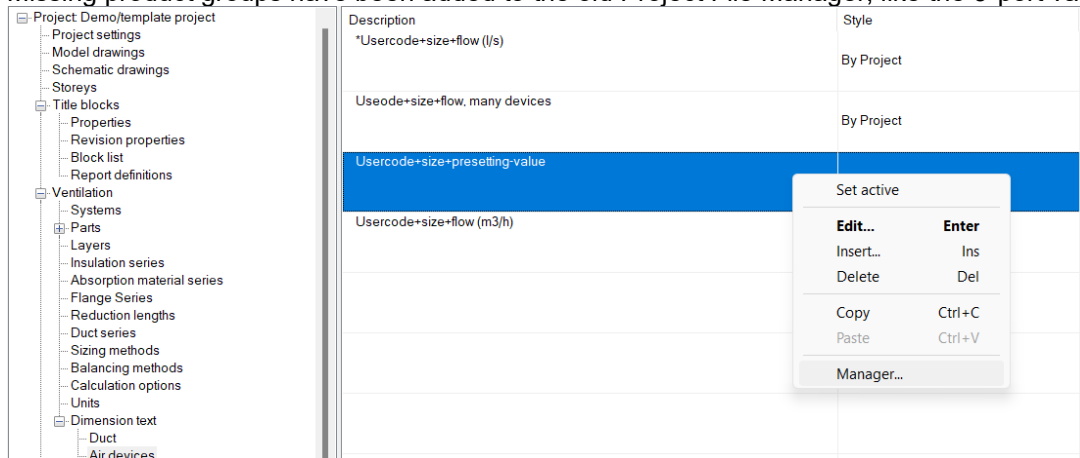
Calculation warnings missing for negative flow

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

This has been corrected and it is shown again.

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

If "User code" was missing from pipe series the report printing didn't recognize the series and printed it a several times.

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:
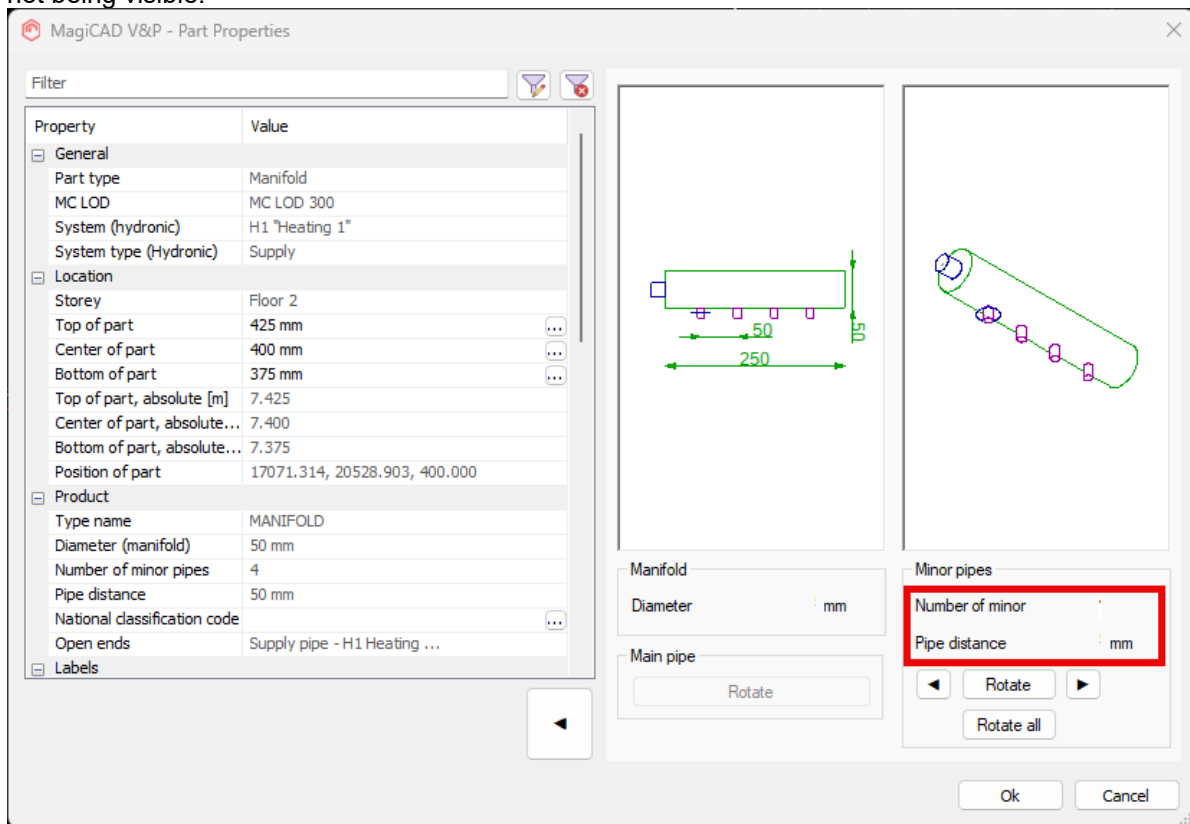
Sprinkler

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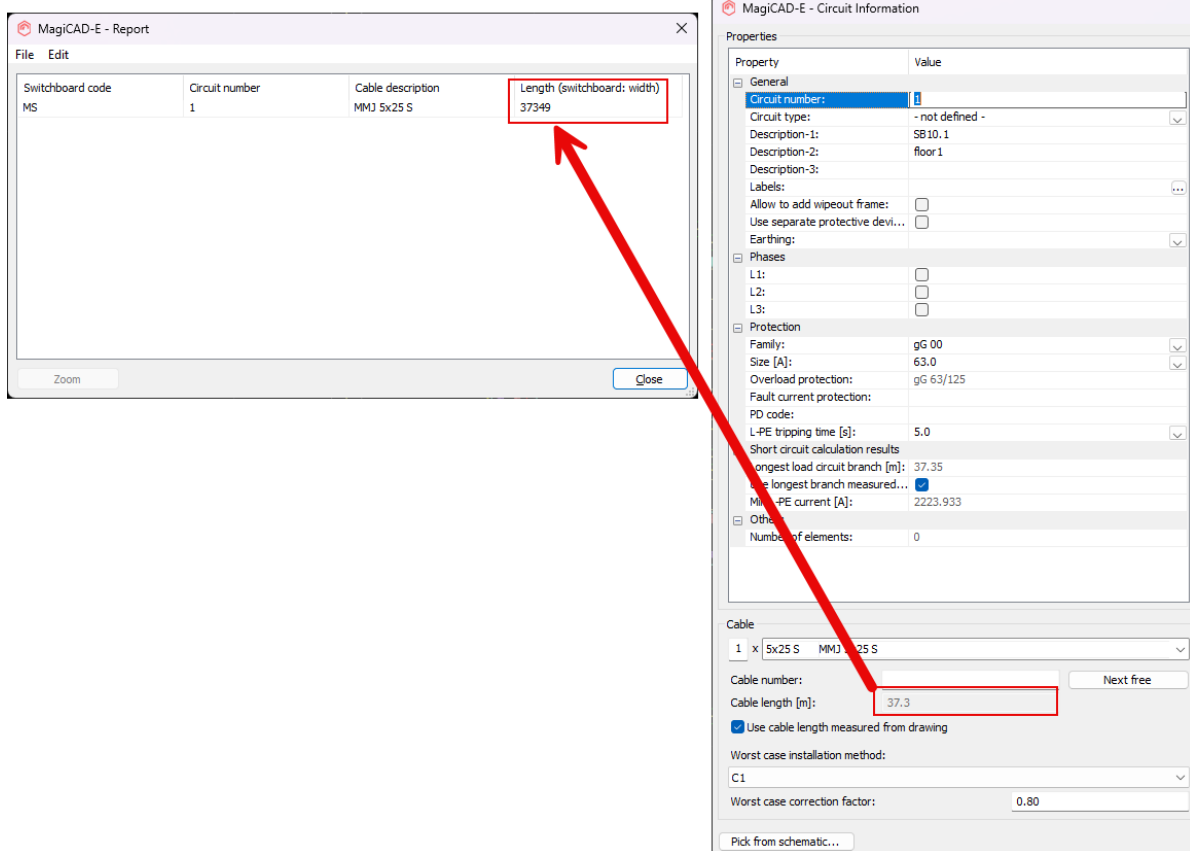Now you can show the cable length of circuit symbols with attribute "Length (switchboard: width)" in Reports and Bill of materials. With "Total length of similar" you can also summarise lengths from the circuit symbols.

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.