MagiCAD for AutoCAD

Release notes for version 2026 UR-2

25/02/2026

MagiCAD

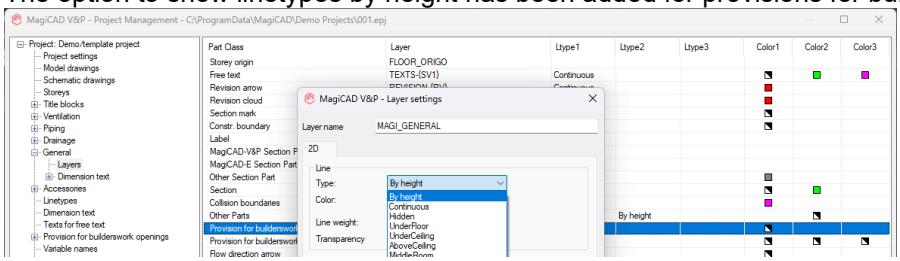
Content

1 New features

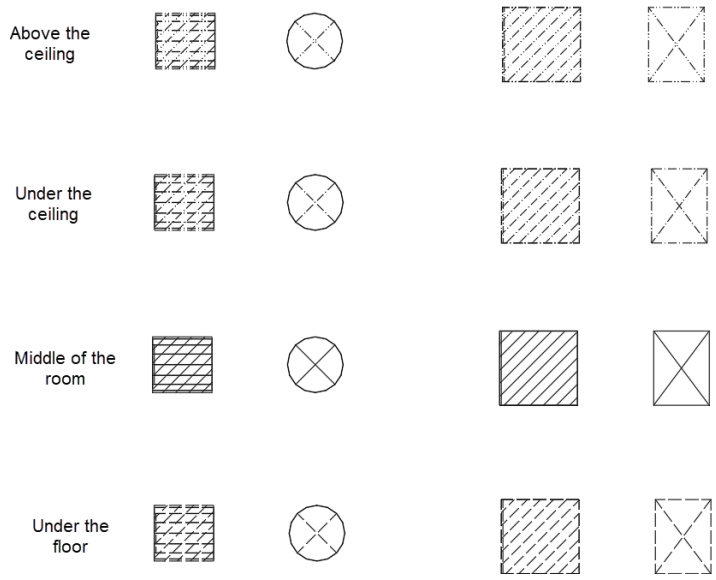
1.1 Common

Linetypes of the provisions for builderswork openings can now be set by height

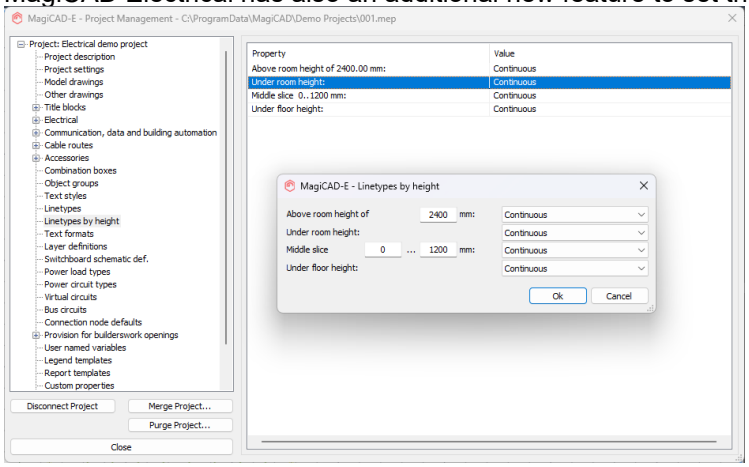
The option to show linetypes by height has been added for provisions for builderswork openings:



Example:

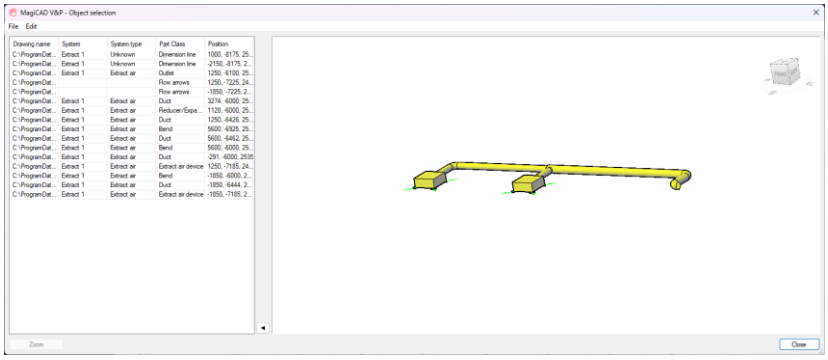


MagiCAD Electrical has also an additional new feature to set these heights for the linetypes:



MagiCAD Object Viewer

When you have MagiCAD objects selected active in a drawing, you can now find a MagiCAD Object Viewer function from the right-click menu. Using it will open a 3D preview window containing only the selected objects where you can quickly see and examine them in a 3D view without the need to handle the whole model at once or even export to an external application.



-MAGIUPD10-command added for VP

For "object groups" and to "override pressure" (related to UK calculation updates) the update drawing data command has been updated with the new properties.

Note: "object groups" are scheduled to be released in 2027 MR. More information at that stage.

1.2 Ventilation and Piping

Common

Calculation support for the UK market
MagiCAD for CAD has now been updated with calculation standards and functions to support the UK market.

Ventilation and Heating & Cooling
A Flow summation and pressure drop calculation function for simple estimation of the pressure drop of the branches.
For Ventilation the pressure drop can be selected to be calculated according to Cibse.

Domestic Water
Added the standards:
UK CIPHE
European EN 806
UK BS 8558

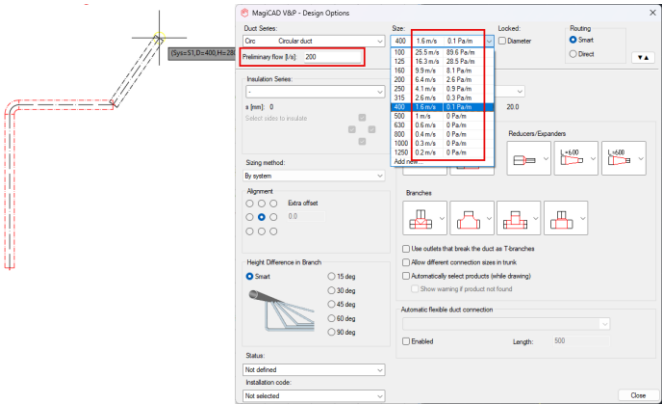
The return joint calculations do also have the option to set "UK Domestic Hot Water Return Calculation - Based on CIPHE Method"

Gas
Sizing calculations have now been added for the gas systems, with updates to the creation of the gas systems.

Ventilation

Calculated velocity and pressure loss of ducts while drawing
To better assist the user when drawing ducts we added the possibility to get an overview of the flow's velocity and pressure loss.
When drawing ducts and pipes, a preliminary flow can be given which will calculate and show the flow's velocity and pressure loss for the different sizes of the ducts and pipes.

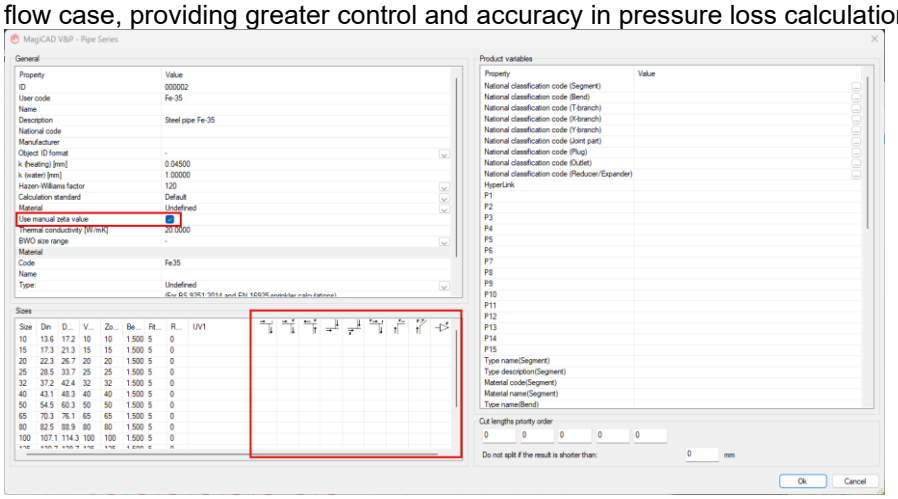
The calculation is assuming a density of 1.2 kg/m3 and 18.13 x 10^-6 Pa*s as the dynamic viscosity, so the settings in the project for the system is not used, as this estimate is done before selecting the system.



Piping

Custom Zeta values for pressure drop calculation

Standard zeta values for pressure drop calculation are not always suitable for each specific situation. You can now select whether the calculations should use the values in the calculation standard or manually defined custom zeta values. The custom values can be defined according to pipe size and flow case, providing greater control and accuracy in pressure loss calculation.

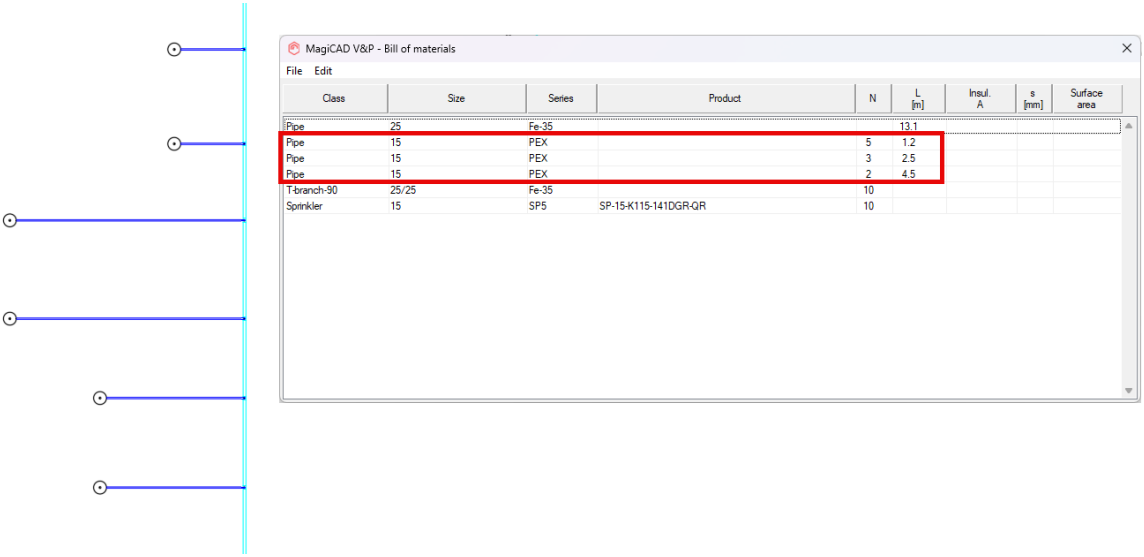


Sprinkler

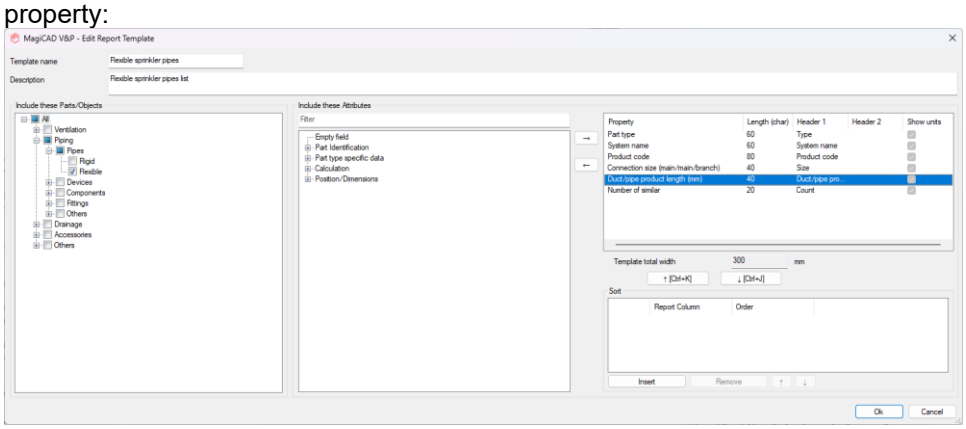
Calculating the sum of flexible pipes of various lengths in Bill of Materials

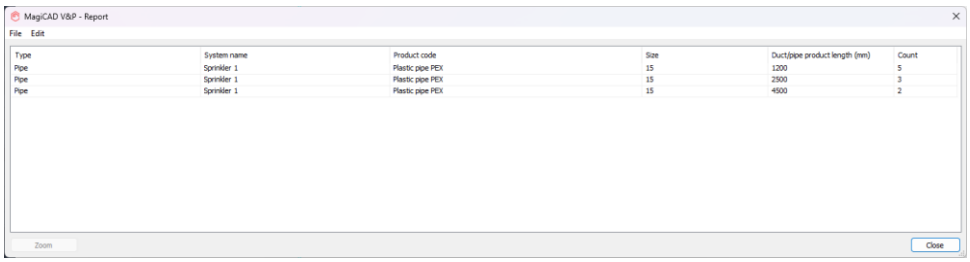
In the Bill of Materials, to better take into account that flexible pipes are often installed as pieces of set lengths, the flexible pipes are no longer summed to a total length of all kinds of segment lengths but instead calculated based on the specific length of the pieces.

These are then summed to a total number of each length to get a better overview of the total bill of materials.



Note that this update is regarding the old Bill of Materials.
These lists are possible to create using the Report, using the "Duct/pipe product length (mm)"-property:

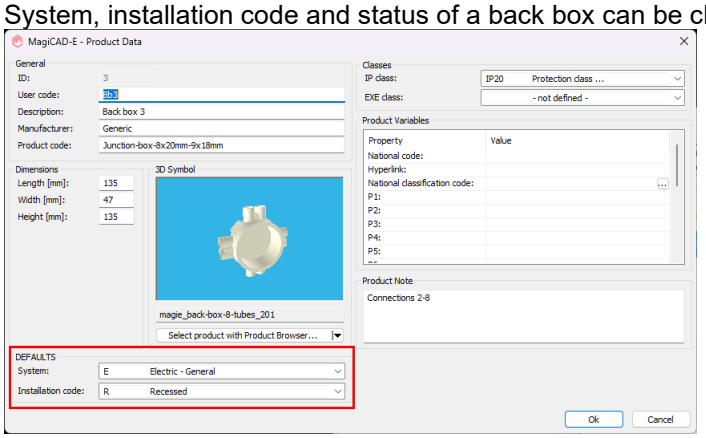




1.3 Electrical

New attributes for combination boxes
Following new attributes have been added to combination boxes:
Installation code
IP Class
EXE Class
Impact Rating

System, installation code and status for back boxes
Now it is possible to define default system and default installation code for back box product.
When installing a product with back box and some status is defined to the product, back box will also get the same status.
System, installation code and status of a back box can be changed with Change Properties.



Improvements to set "owned cables" for packets with Change Properties
System column is now working properly in Cables Owned By Packet dialog.

Improvements to Symbol manager's possibility to select all or none
Added select all and none buttons to symbol selection in switchboard and circuit symbol dialogues.

New project properties for cable trays, lighting tracks, LED-stripes and busbars
New properties added to cable trays, lighting tracks, LED-stripes and busbars

Cable trays (box, ladder, track, conduit):
Object type name (segment)
Object type description (segment)
Object type name (bend)
Object type description (bend)
Object type name (T-branch)
Object type description (T-branch)
Object type name (X-branch)
Object type description (X-branch)
IP class (whole series = all objects)
EXE class (whole series = all objects)

Lighting tracks:
Object type name (segment)
Object type description (segment)
Object type name (bend)
Object type description (bend)
Object type name (T-branch)
Object type description (T-branch)
Object type name (X-branch)
Object type description (X-branch)
IP class (whole series = all objects)
EXE class (whole series = all objects)
Voltage (default 400V)
Number of phases (default 3)

LED-stripes:
Object type name (segment)
Object type description (segment)
Object type name (bend)
Object type description (bend)
Object type name (T-branch)
Object type description (T-branch)
Object type name (X-branch)
Object type description (X-branch)
IP class (whole series = all objects)
EXE class (whole series = all objects)
Number of phases (default 1 and for now always 1)

Busbars:
Object type name (segment)
Object type description (segment)
Object type name (bend)
Object type description (bend)
Object type name (T-branch)
Object type description (T-branch)
Object type name (X-branch)
Object type description (X-branch)
IP class (whole series = all objects)
EXE class (whole series = all objects)
Voltage (default 400V)
Number of phases (default 3)

Many new instance properties available (prop palette and IFC etc.) for many different object groups
Following attributes have been enabled in properties palette and IFC property sets.

CABLE TRAYS (BOX, LADDER, TRACK):
Angle (bends only!)
Inner bend radius (bends, T-branches and X-branches)
Size (width x height)
Elevations of fittings:
- Top elevation
- Top elevation, absolute
- Top elevation, absolute [m]
- Center elevation
- Center elevation, absolute
- Center elevation, absolute [m]
- Bottom elevation
- Bottom elevation, absolute
- Bottom elevation, absolute [m]

CONDUITS:
Size (value from diameter, but should be same Pset property for both trays and conduits)
Elevations (segments only because there are no fittings):
- Top elevation
- Top elevation, absolute
- Top elevation, absolute [m]
- Center elevation
- Center elevation, absolute
- Center elevation, absolute [m]
- Bottom elevation
- Bottom elevation, absolute
- Bottom elevation, absolute [m]
NOTE! Top = the highest elevation along the route, bottom = the lowest elevation along the route and center = the average center elevation along the route.

CABLES / E:
Size (value from diameter, but should be same Pset property as for trays and conduits)
Elevations:
- Top elevation
- Top elevation, absolute
- Top elevation, absolute [m]
- Center elevation
- Center elevation, absolute
- Center elevation, absolute [m]
- Bottom elevation
- Bottom elevation, absolute
- Bottom elevation, absolute [m]
NOTE! Top = the highest elevation along the route, bottom = the lowest elevation along the route and center = the average center elevation along the route.

CABLES / C,D,BA:
Size (value from diameter, but should be same Pset property as for trays and conduits)
Elevations:
- Top elevation
- Top elevation, absolute
- Top elevation, absolute [m]
- Center elevation
- Center elevation, absolute
- Center elevation, absolute [m]
- Bottom elevation
- Bottom elevation, absolute
- Bottom elevation, absolute [m]

NOTE! Top = the highest elevation along the route, bottom = the lowest elevation along the route and center = the average center elevation along the route.

LIGHTING TRACKS:
Angle (bends)
Inner radius (bends, T-branches and X-branches)
Size (width x height)
Elevations of fittings:
- Top elevation
- Top elevation, absolute
- Top elevation, absolute [m]
- Center elevation
- Center elevation, absolute
- Center elevation, absolute [m]
- Bottom elevation
- Bottom elevation, absolute
- Bottom elevation, absolute [m]

BUSBARS:
Angle (bends)
Branch lengths (bends, T-branches and X-branches), e.g. 300-300 for bend, 300-300-300 for tee or 300-300-300-300 for x (when all lengths are 300mm), longest length first (since we can’t really know the correct direction)
Size (width x height)
Elevations of fittings:
- Top elevation
- Top elevation, absolute
- Top elevation, absolute [m]
- Center elevation
- Center elevation, absolute
- Center elevation, absolute [m]
- Bottom elevation
- Bottom elevation, absolute
- Bottom elevation, absolute [m]

LED-STRIPES:
Angle (bends)
Inner radius (bends, T-branches and X-branches)
Size (width x height)
Elevations of segments:
- Top elevation, absolute
- Top elevation, absolute [m]
- Center elevation, absolute
- Center elevation, absolute [m]
- Bottom elevation, absolute
- Bottom elevation, absolute [m]

Elevations of fittings:
- Top elevation
- Top elevation, absolute
- Top elevation, absolute [m]
- Center elevation
- Center elevation, absolute
- Center elevation, absolute [m]
- Bottom elevation
- Bottom elevation, absolute
- Bottom elevation, absolute [m]

SWITCHBOARDS:
Number of phases (should be always 3, but should show and have it exportable)
Elevations:
- Bottom elevation
- Bottom elevation, absolute
- Bottom elevation, absolute [m]
- Center elevation
- Center elevation, absolute
- Center elevation, absolute [m]
- Top elevation
- Top elevation, absolute
- Top elevation, absolute [m]

COMBINATION BOXES:
Elevations:
- Bottom elevation
- Bottom elevation, absolute
- Bottom elevation, absolute [m]
- Center elevation
- Center elevation, absolute
- Center elevation, absolute [m]
- Top elevation
- Top elevation, absolute

- Top elevation, absolute [m]

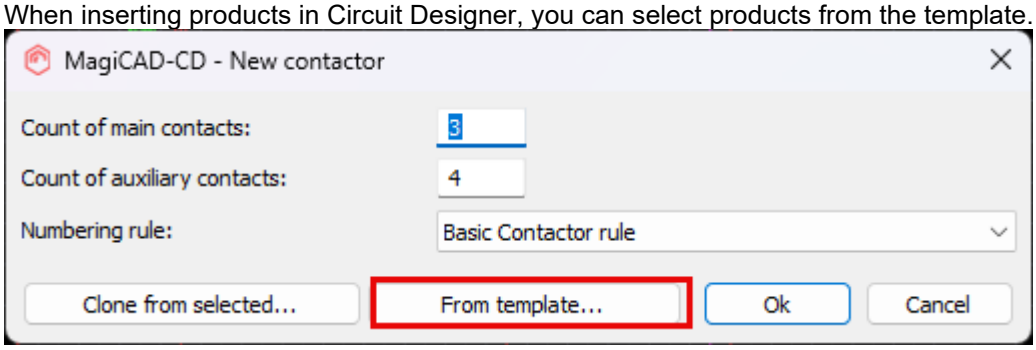
DEVICES E & C,D,BA:
Elevations:
- Bottom elevation
- Bottom elevation, absolute
- Bottom elevation, absolute [m]
- Center elevation
- Center elevation, absolute
- Center elevation, absolute [m]
- Top elevation
- Top elevation, absolute
- Top elevation, absolute [m]

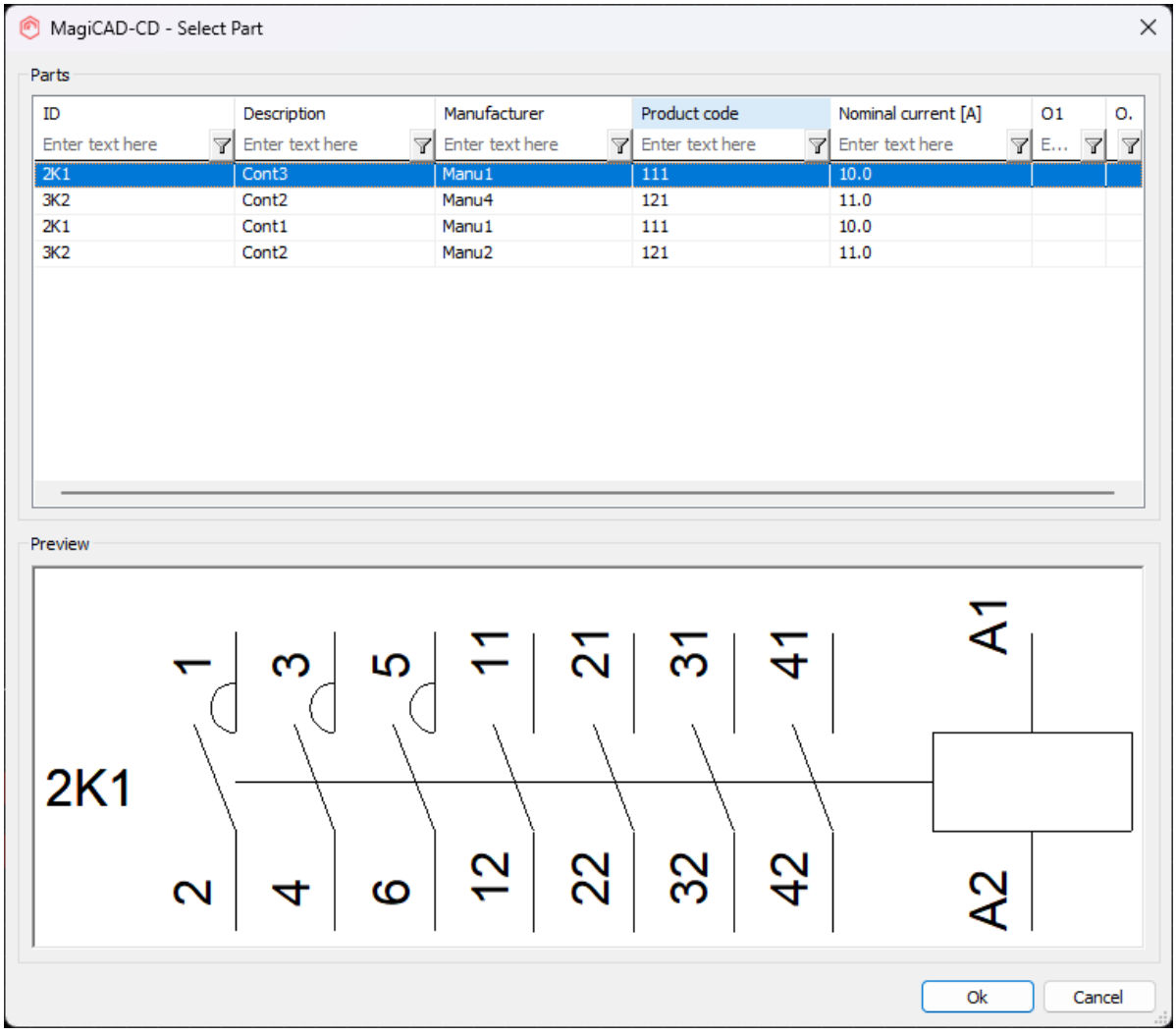
1.4 Circuit Designer

Product templates in Circuit Designer

Now it is possible to create product templates in a drawing. In the template drawing, you can predefine products with product data and those can then be easily be installed to other drawings.

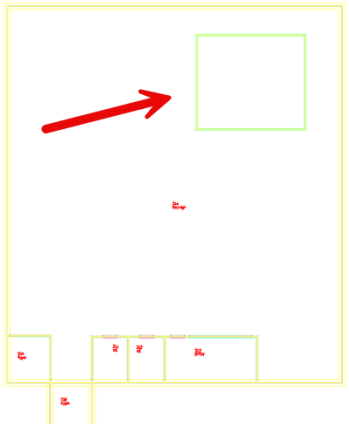
When inserting products in Circuit Designer, you can select products from the template.

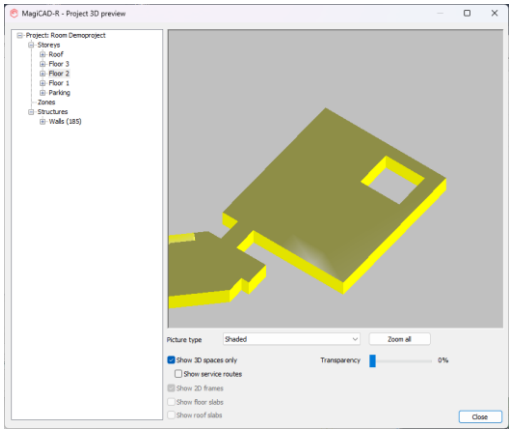




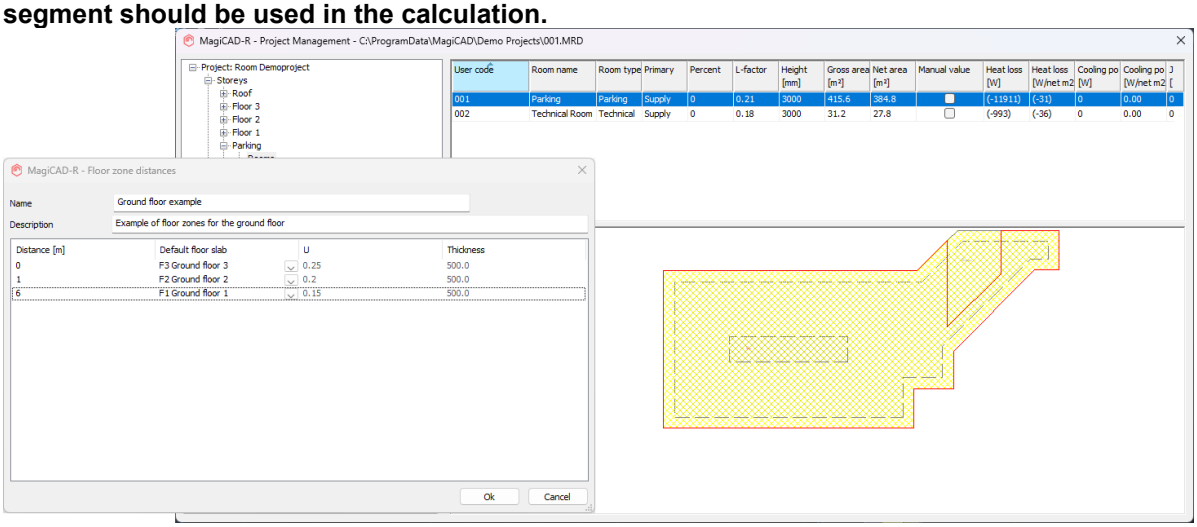
1.5 Room

MagiCAD Room now supports the creation of "holes" in spaces
Now when drawing connected walls within a room, a hole is created in the space, which is taken into account in all functions from the overview, calculation of area, and the IFC Export:





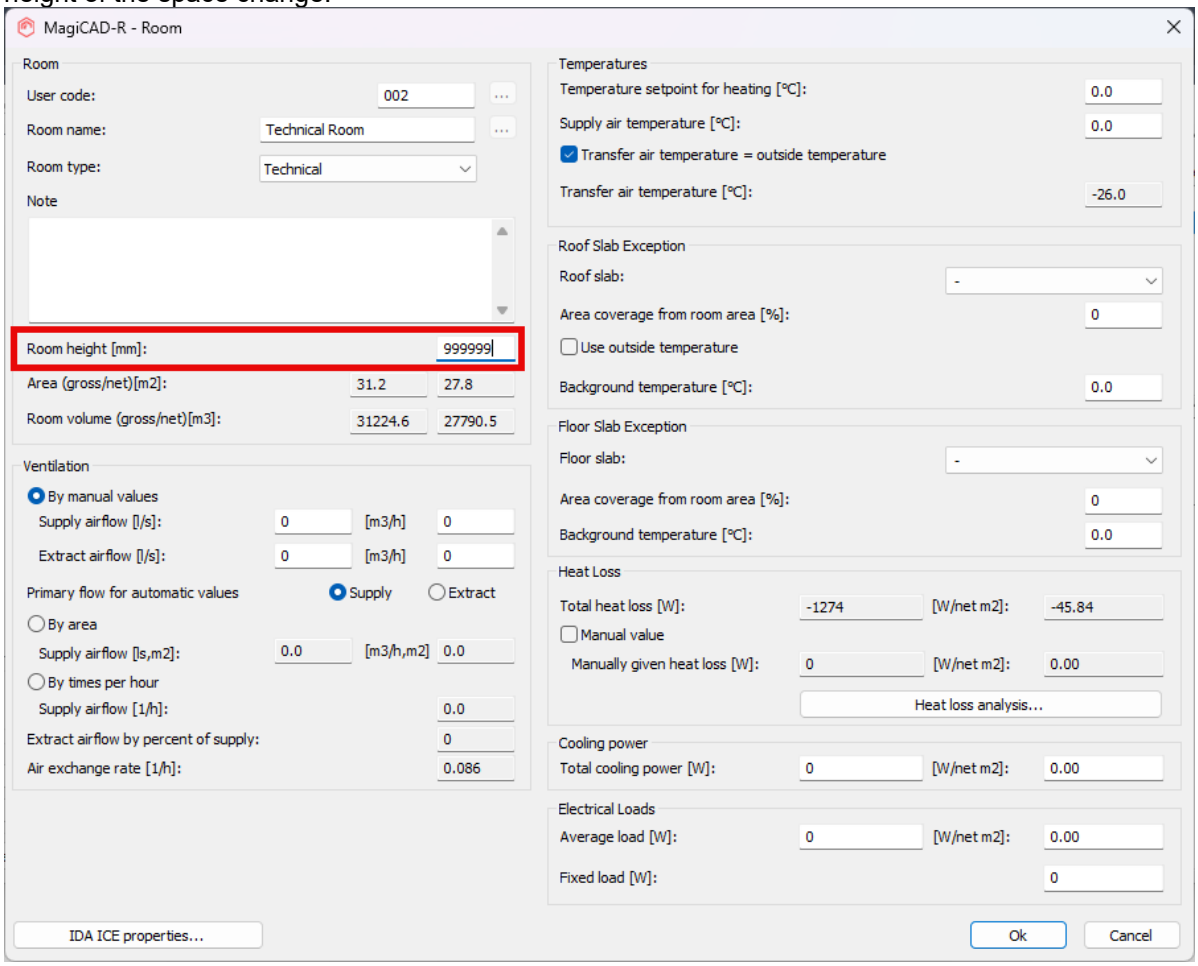
Ground floor zones
Ground floor zones **with different thermal transmittance coefficients can now be created and set on in the project for the floors which are in contact with the ground, to better estimate the heat transfer.**
The user can create several segments in these zones, setting the distance from which a zone-segment should be used in the calculation.



Increase room height in MC Room that now is limited to 50000 mm

The maximum room height was raised to 999 999 mm from its earlier 50 000 mm limitation, to better take into account and not limit demands for much higher spaces.

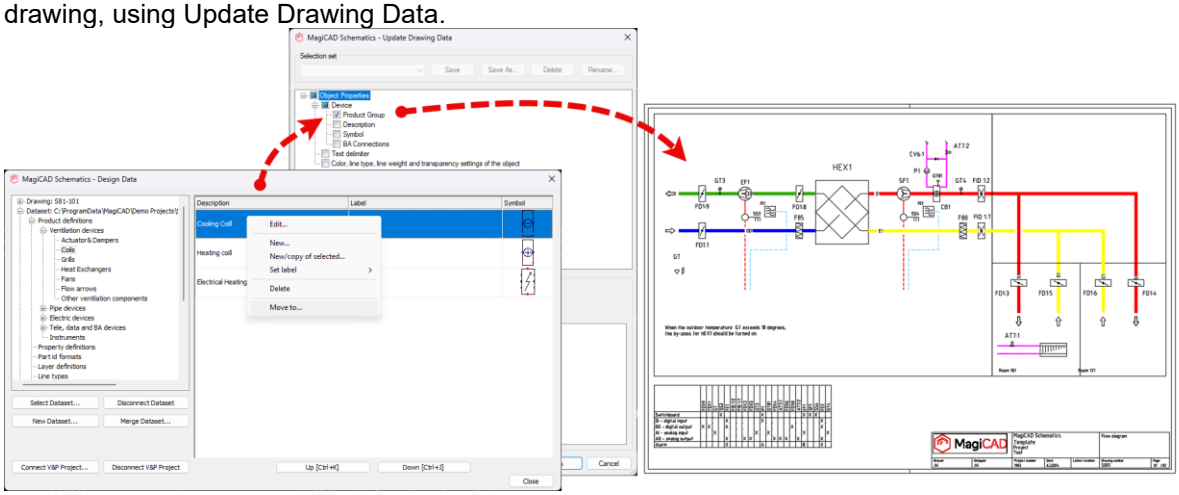
We also increased the maximum wall and column height to 999 999mm as well to be in line with the height of the space change.



1.6 Schematics

Updating product groups in Schematics

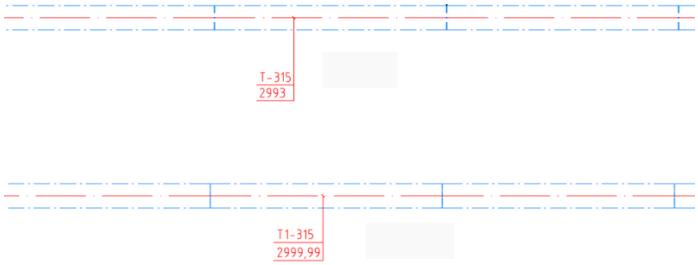
Earlier when moving a symbol to another product definition group the information wasn't updated to the drawing, meaning that any connection to creating reports of certain groups was lost.
This has now been improved so that the user can update the information from the Dataset to the drawing, using Update Drawing Data.



2 Resolved issues

2.1 Common

Incorrect cut lengths for split segments when using joint part products
When using joint part products the cut lengths weren't correct. For example in the image below the set length was 3000 mm, but the using product joint parts they had the wrong final length:



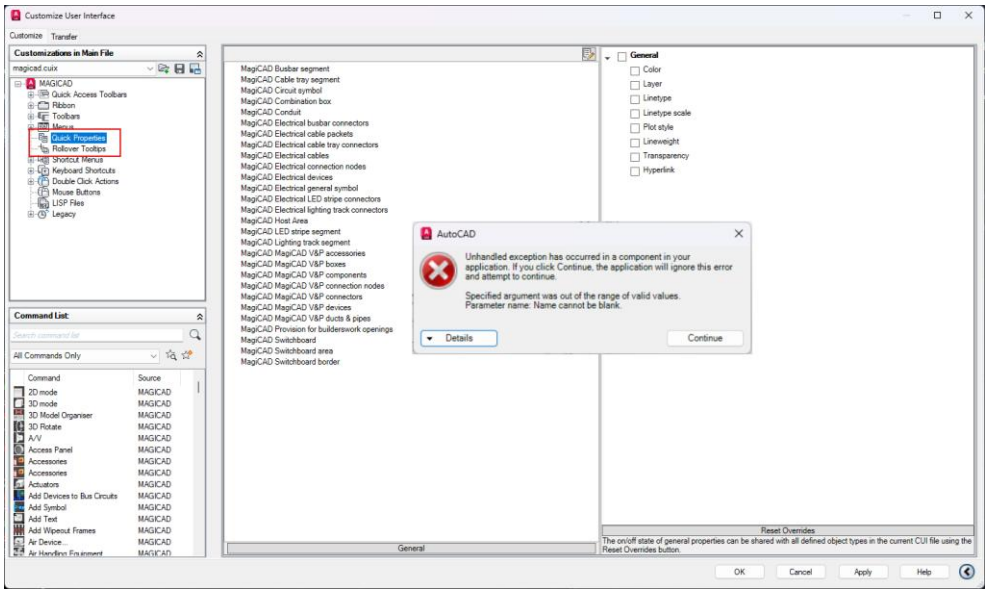
This has now been corrected and the lengths are cut to what the user has been set, also when the duct series uses joint part products.

Property-renaming for parts and series
Renaming of various properties for the different series:

Electrical:
- Renamed the “Type name” property of cables, conduits, cable trays, lighting tracks, LED-stripes and busbars to “Series name”.
Also in Part Properties (so from “Name” of series and “Type Name” of cables to “Series name” in all places).

V&P:
- Renamed the “Type name” in Part Properties of V&P segments and fittings to “Product description”. Then it is similar to MCE.
- Renamed the “Series, material” in Part Properties of V&P segments and fittings to “Material code”.

Editing MagiCAD's Quick Properties and Rollover Tooltips
Due to some broken properties editing MagiCAD's Quick Properties and Rollover Tooltips in threw and "Unhandled exception"-error:



The issue has been corrected and these can now be edited without issues.

IFC Object selection filter did not remember settings when adding multiple filters
Object selection filter didn't remember settings when adding multiple filter rules.

2.2 Ventilaion and Piping

Common

Some old report configurations were broken
Saved Report Configurations had in some cases the wrong filter selections and names for the Report Templates which were in use.
Now the correct filter selections and names are shown again.

Using the Product Browser sometimes caused MagiCAD to crash
In some cases, when using MagiCAD's Product Browser, the program crashed.
The issue has now been corrected.

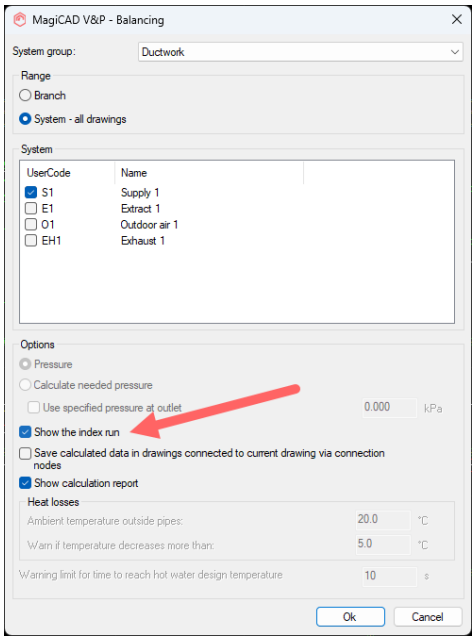
Surface area calculation result differences between MagiCAD for Revit and MagiCAD for CAD
There were differences to how the results were for example for the surface area of T-branches between Revit and MagiCAD for CAD.
Now MagiCAD for CAD's surface area calculations take side branches into account.

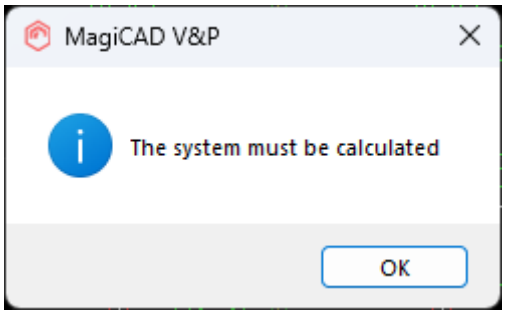
Different National Classification Codes for integrated/not integrated reducers
The insulation National Classification Code for integrated reductions didn't work correctly in the IFC Export. Instead of the National Classification Code for the insulation, it showed it for the reduction.
Now accessory insulation is exported correctly to IFC.

Lines were missing when printing DWG to PDF
While using one's own line types, they were not working properly when printing from a DWG-file to a PDF, since existing linetypes were reloaded from lin-file when opening the DWG-file.

Ventilation

Sound calculation stopped and showed "The system must be calculated" if "Show the index run" was selected
Sound calculation stopped and showed "The system must be calculated" if the user had also selected "Show the index run".

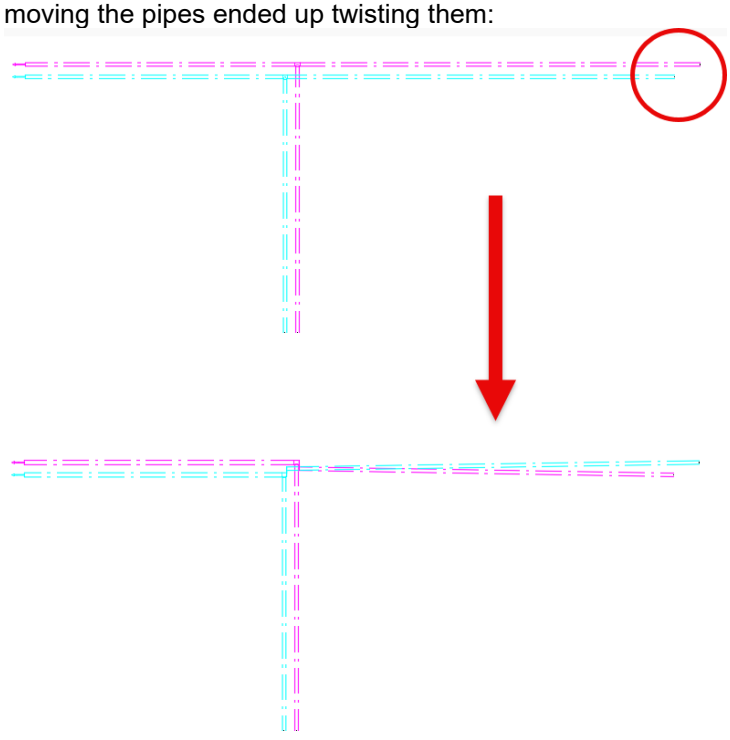




Piping

Calculation / editing broke the connection/pipes, when using None-node in the un-even pipe ends

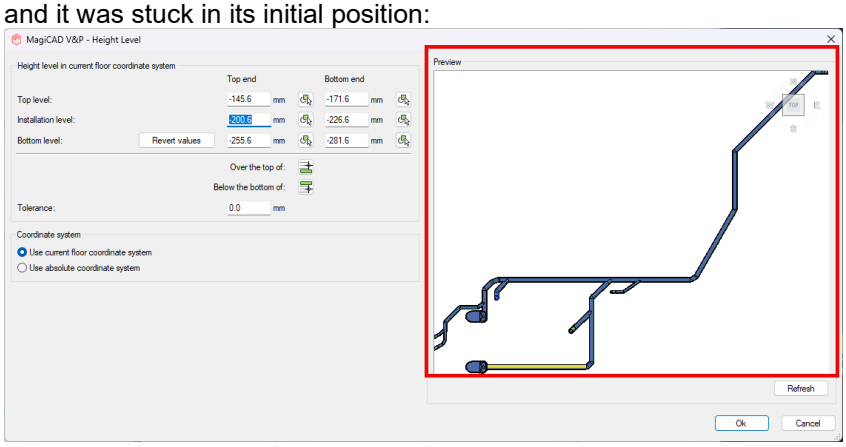
When there were uneven pipes at the end, and a connection node being used at the end, sizing or moving the pipes ended up twisting them:



Calculation did not work with some old generic heating coils (Other Pipe Devices)
Calculation data was not saved for some old Other Pipe Devices.

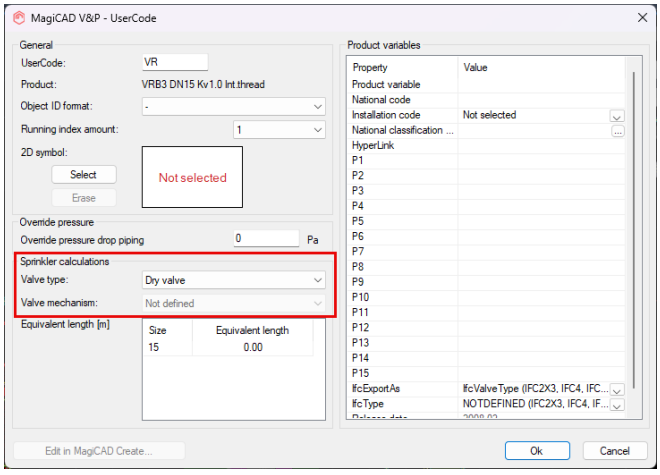
Drainage

Drainage pipe's Height Level-preview did not work correctly
It wasn't possible to 3D-rotate in the preview of the drainage pipe's and sprinkler height level -dialog, and it was stuck in its initial position:



Sprinkler

Sprinkler calculation gives error about unknown component type due to the selected dry valve mechanism
When the valve type is selected the valve mechanism must be set to "Not defined" to work in sprinkler networks. Otherwise the sprinkler calculation gives error about unknown component type.
This has now been updated so that the valve mechanism is set by default to "Not defined" to avoid any issues:



2.3 Electrical

Update Section - Don't remember last options used when creating the section
When creating Sections with MagiCAD Electrical, and the user do not select the Cables but select all other options and then using the Update Section, the selection of settings is mixed up between Cable Routes and Cables
Section options were not saved correctly.

Moving provision activates "is recess" checkbox
Moving provision from either grip point or with move command activates "is recess" checkbox => the provision will look wrong and have wrong information. The only way to fix it was to uncheck it again. Now moving the provision doesn't change any properties.

Options dialogue of busbars and lighting tracks show wrong property
Now busbar, lighting track and cable route options dialogues show both "User code" and "Description". Now busbar, lighting track, cable route and LED stripe options dialogs have selectable columns in product list,