MagiCAD Provision for Voids Manager version 2012.11.0.5

User guide
2013

MagiCAD Provision for Voids Manager

Provision for Voids Manager is a free tool for managing the provisions of voids.

This tool can be used e.g. by the structural engineer who can create the actual voids from the provisions of voids.

You do not need MagiCAD to use the tool, but the provisions for voids must have been created with MagiCAD for Revit. Provision for Voids Manager runs on Revit MEP 2013.

The tool is found in the *Add-Ins* panel in Revit.

Some considerations

This module has some restrictions.

The first restriction is that the provisions for voids must have been created with MagiCAD for Revit.

The second restriction is that Revit does not allow writing into a linked file.
This means that the user scenario is the following:
Open the structural project and link the project with the provisions for voids to it. Then run the tool.
If you need to write some comments or change the status of the provision for void, you need to open that project separately.

Program window

Owner	Level	Status	Comments	Size	Host	Coordinates
V	1 Floor	Accepted		200	Wall	(-5135, 3283, 12700)
V	1 Floor	Rejected	Cannot accept a void at this position	150		(8251, -6348, 12889)
V	1 Floor			175		(-3639, -4940, 12889)
V	1 Floor			125		(-3639, -4456, 12620)
V	1 Floor			125		(-3639, -10149, 12620)
V	1 Floor			125		(-3891, -9044, 12889)
V	1 Floor			125		(-3891, -5444, 12889)
V	1 Floor			100		(-2289, -3649, 12889)
V	1 Floor			100		(-89, -3649, 12889)

1 Provisions for voids

The list shows all the provisions for voids that are found in the project.

Owner	This information is given when the provision for void is created. It is defined in the MagiCAD dataset.
Level	Revit level information.
Status	When you click on the column, you can select the status for the provision for void.
Comments	You can write free text in the column.
Size	Size of the provision for void.
Host	The host information is filled if the structural project is not a linked file. The host can be e.g. a wall or a floor. MagiCAD cannot access the host information from a linked structural project.
Coordinates	The coordinates of the provision for voids.

2 Status

Click on the column and select the status from the combo box.
The status is written in the Revit element. The status cannot be changed if the provisions for voids are in a linked file.

3 Comments

Click on any of the comment field and write additional information.
The information is updated to the POV element in the Revit project. The comments cannot be written if the

provisions for voids are in a linked file.

4 Show

Click this button to zoom into the POV element in the Revit project.

5 Create void

When this button is clicked, the actual void is made in the Revit structural element.
The POV element is not removed, it remains in the project.

New features and resolved issues (2012.11.0.5)

The following errors are corrected

- Voids don't penetrate the structural element fully, if the length of the provision for void is in fraction of millimeter. If the wall thickness is e.g. 100.5mm, the void is created only for 100 millimeters.
- Void manager makes some voids/openings to wrong place (Revit 2013). Provisions for voids are in correct places but actual voids/openings are moved 190mm when they are created in the second floor (1st floor is ok).
- Void is not penetrating the whole floor. The provision for the void is created correctly, but for some reason the void family is set to a face in the middle of the floor

- An exception was shown when multiple voids were created in the project.