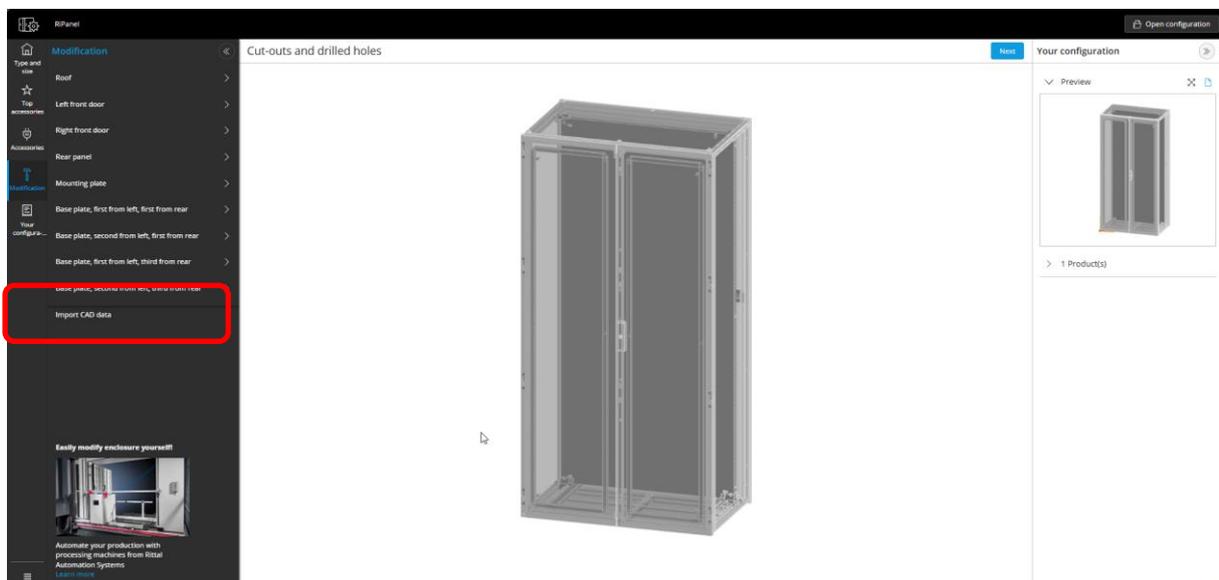# Import CAD Files in RiPanel

With Rittal RiPanel CAD Import, drawings can be easily uploaded to the configurator and projected onto selected surfaces in the modification area.

This guide explains the individual steps and answers frequently asked questions about the RiPanel CAD import.
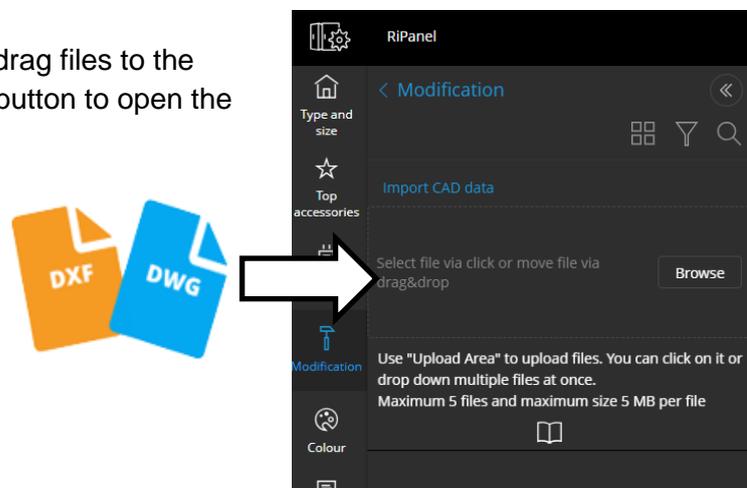
Where can I find the CAD import in RiPanel?

In the navigation bar in the area of "Modification" underneath the selection of the surfaces to be modified.

How do I upload data?

You can use the upload window to drag files to the dashed area or click on the upload button to open the explorer and upload files.
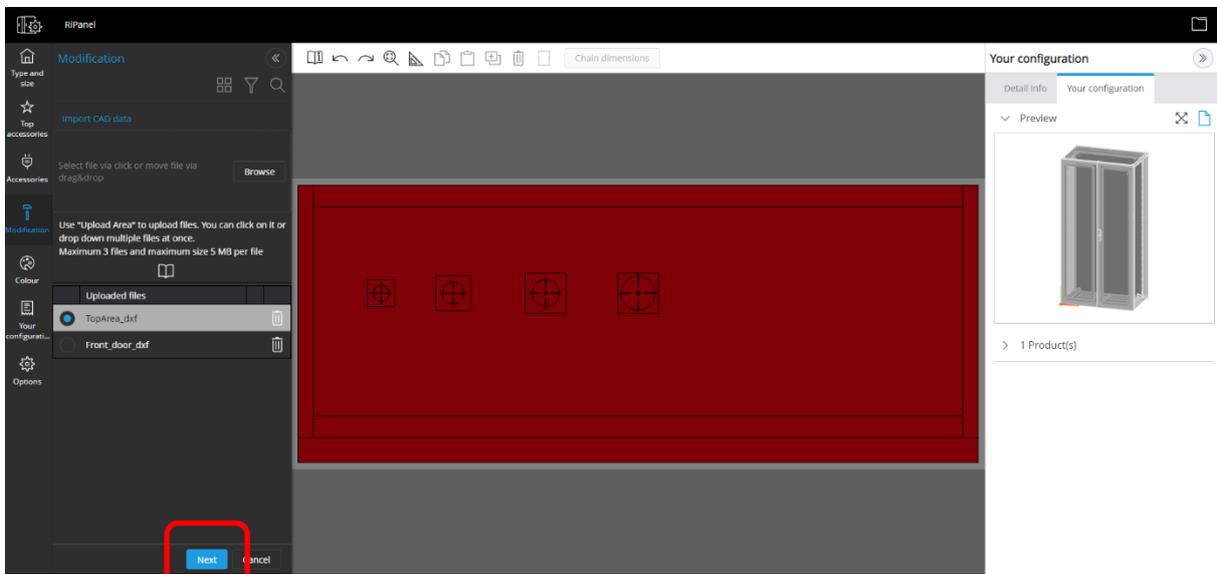
Which formats are supported by RiPanel CAD Import?

RiPanel CAD import supports .dwg and .dxf formats. Furtheremore up to five files can be uploaded in one session with up to 5 MB each.
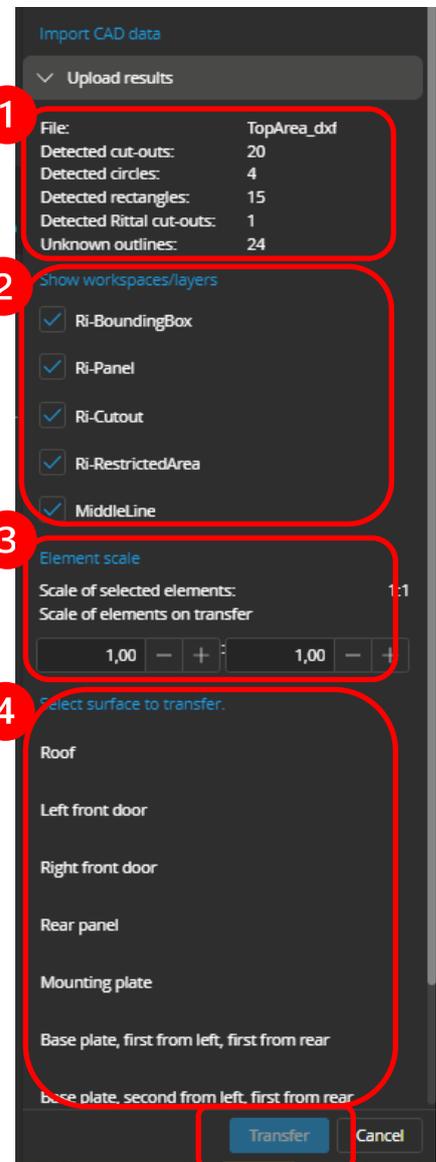
How do I open a file?

The uploaded file is displayed underneath the upload window. By clicking the file, a preview of the uploaded drawing will appear. Afterwards the "Next" button on the bottom must be clicked, to get to the next step.

Import CAD Files in RiPanel

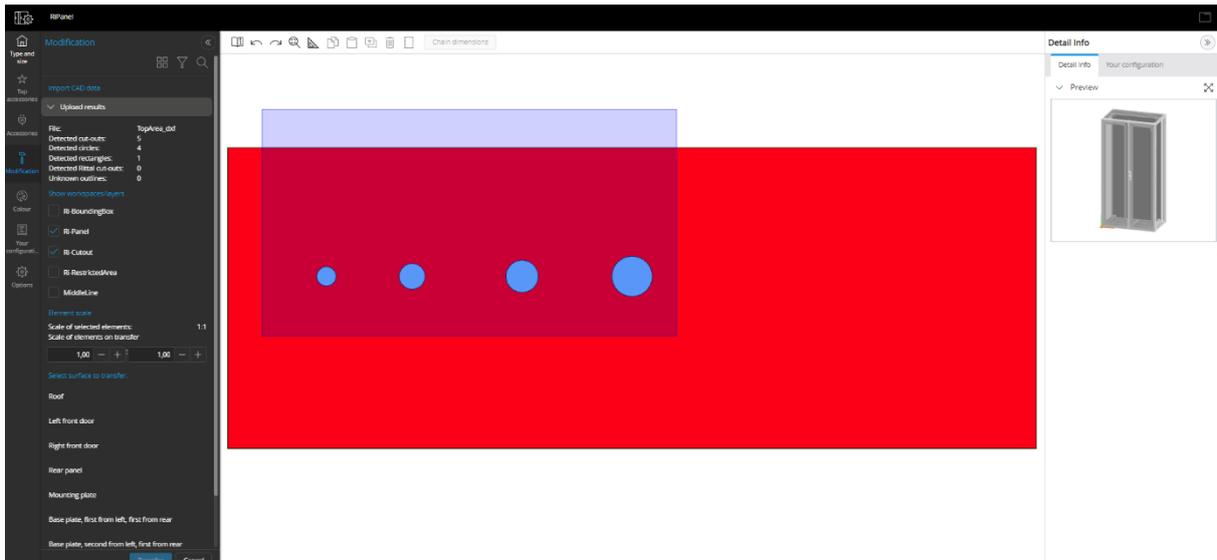## Which information is shown after the upload?

1. Here you can find an overview of the recognized and unrecognized contours

2. Here you can find the detected layers of the drawing. These can be hide or shown using the Checkboxes.

3. Here you can find the detected scale of the drawing and you can enter the scale with which the contours should be transferred.

4. Here you can find all the available surfaces on which you can transfer the uploaded contours with the button underneath the selection.
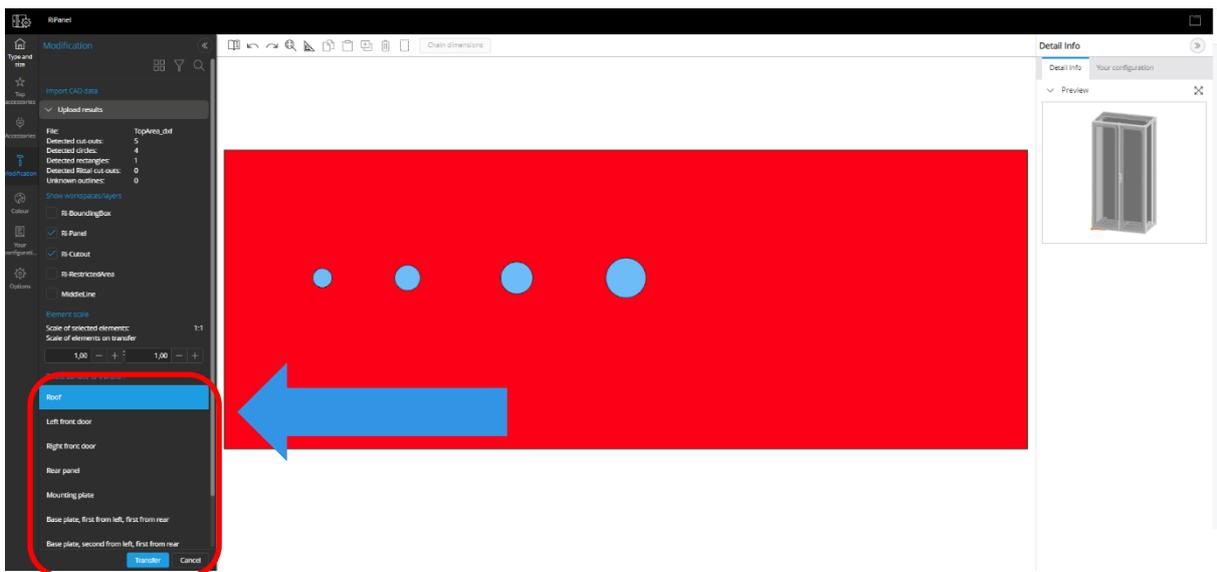
Import CAD Files in RiPanel

How do I import contours from drawings?

You can click on a contour to select it individually. To mark an area, you can use the left mouse button to select several cut outs.

It can be helpful to uncheck unnecessary layers in the left side menu (2), to only get the relevant contours displayed.
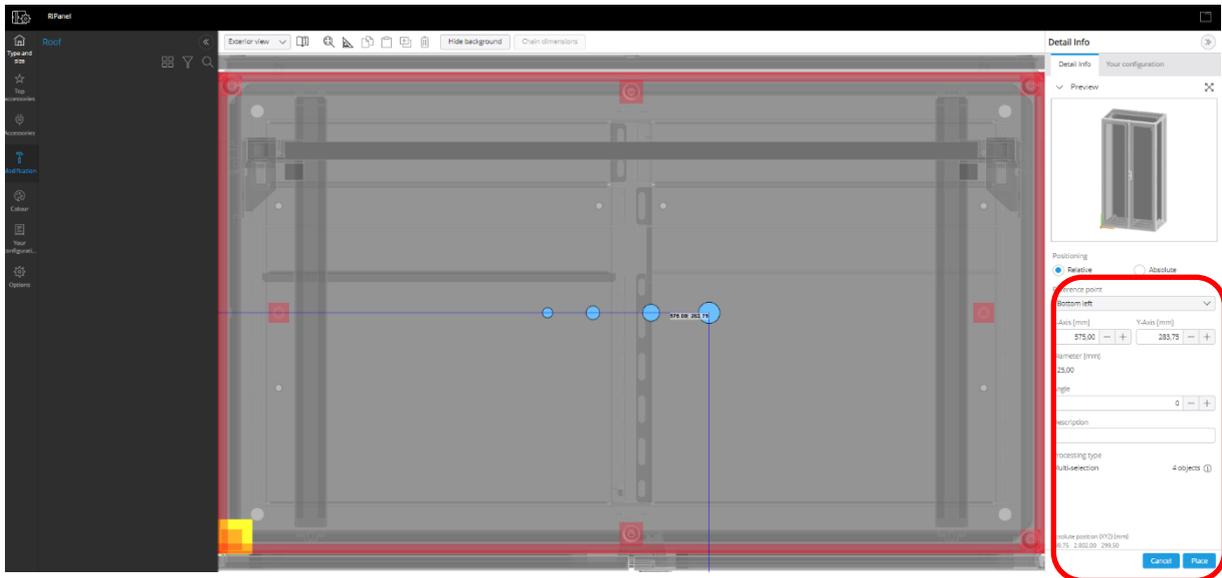

After the desired cut outs are marked, you can select the surface on the left side menu (4), where the cut outs shall be transferred. By clicking "Transfer" you will confirm the selection.
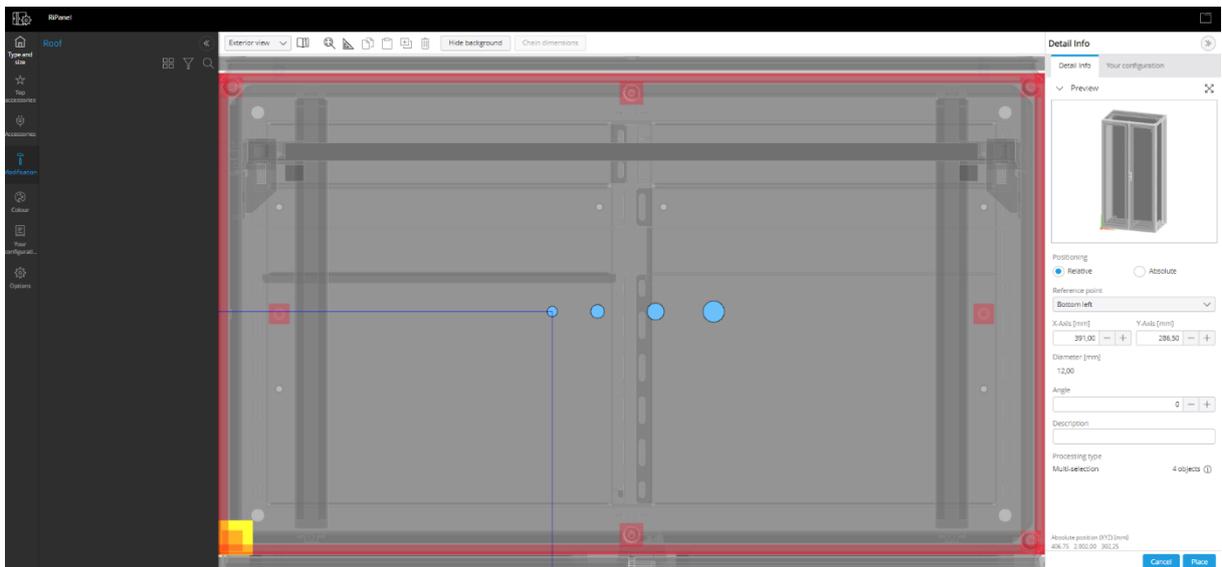
The selected surface will appear together with the transferred cut outs. With the right side menu, you can move the cut outs to the desired position. The distance between the geometries is maintained until the placement is confirmed with "Save"

Please note, by default the drilling pattern is always centered, therefore it is important to enter the desired coordinates of the contour or drilling pattern.
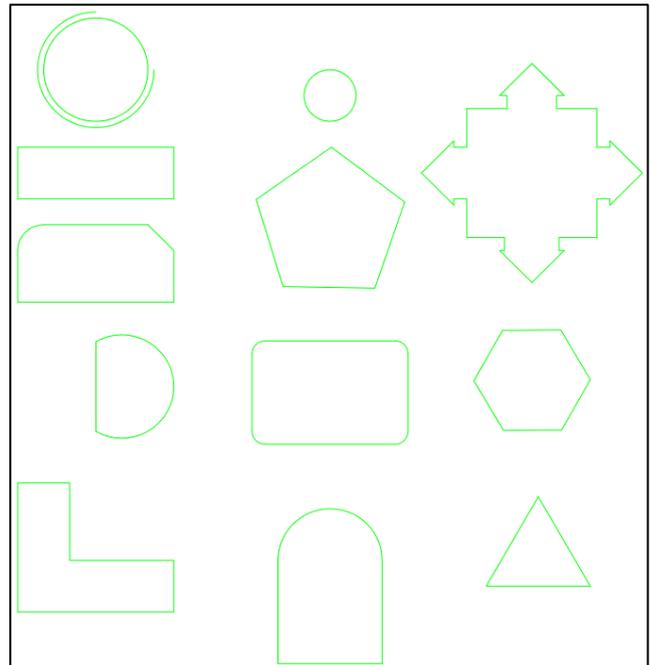

For a drilling pattern, you can change the contour, used to align the drilling pattern, by simply clicking on the desired other contour, while the drilling pattern is marked.

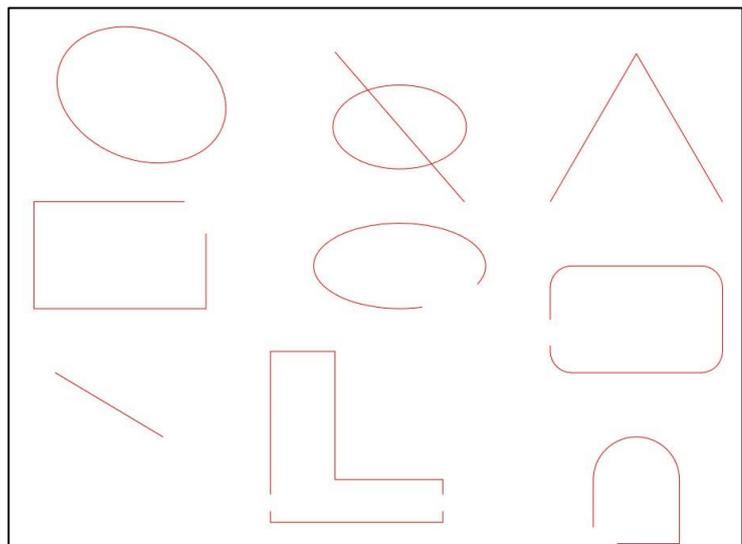## Which geometries are recognized by RiPanel CAD Import?

RiPanel CAD Import recognizes the following contours:

- Circles
- Rectangles
- Rectangles with round corners
- Closed polylines
- Threads

Not recognized:

- Simple lines
- Arcs
- Open polylines
- Ellipses
- Elliptical arcs
- Intersecting lines

How threads are recognized

The following thread sizes are recognized:

- M2,5
- M3
- M4
- M5
- M6

Larger threads are not permitted in RiPanel for technical reasons (insufficient wall thickness/ stability).

The following rules needs to be considered for the identification of a thread:

- The thread must be drawn with a circle and an arc
- The center of the arc and the circle must be identical.
- The distance between the arc and the circle must be between 0.1 and 2mm.
- Arcs must have an angle between 260 and 280 degrees.

The circles must have the following diameters:

- M2,5 → 2,01mm
- M3 → 2,46mm
- M4 → 3,24mm
- M5 → 4,13mm
- M6 → 4,92mm

RiPanel can also identify circles as a thread (without an arc), if they have exactly the diameter mentioned in the above list.