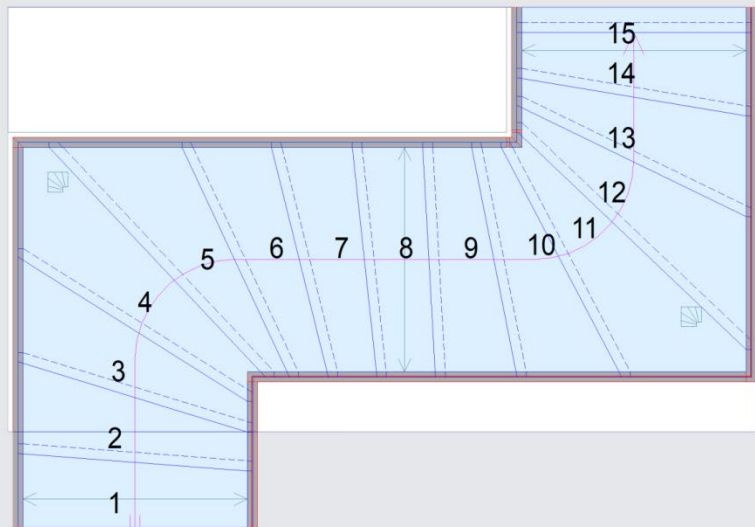
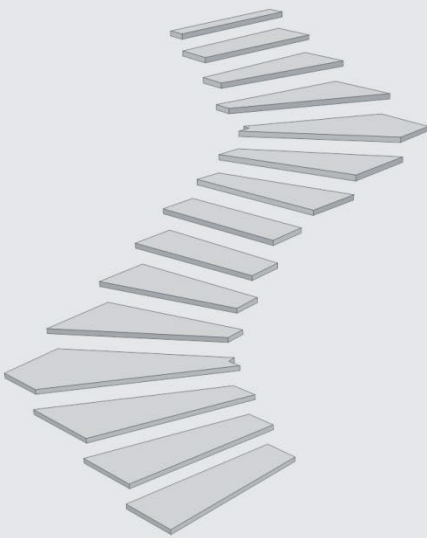




Compass Software

S-SHAPE STAIRCASE CONSTRUCTION



INSTRUCTION MANUAL

Construction S-Shape Staircases

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1. General

This manual will explain the construction steps for s-shaped staircases which are slightly different from standard staircases (straight, l-shaped, u-shaped, etc.). After the initial calculation of the staircase all other steps are the same as with other staircase types.

There are two ways to construct an s-shaped staircase. Which one to choose depends on the given conditions on-site.

Both options use the free form construction tool (for more details go to chapter 4 and 5)..

Construction S-Shape Staircases

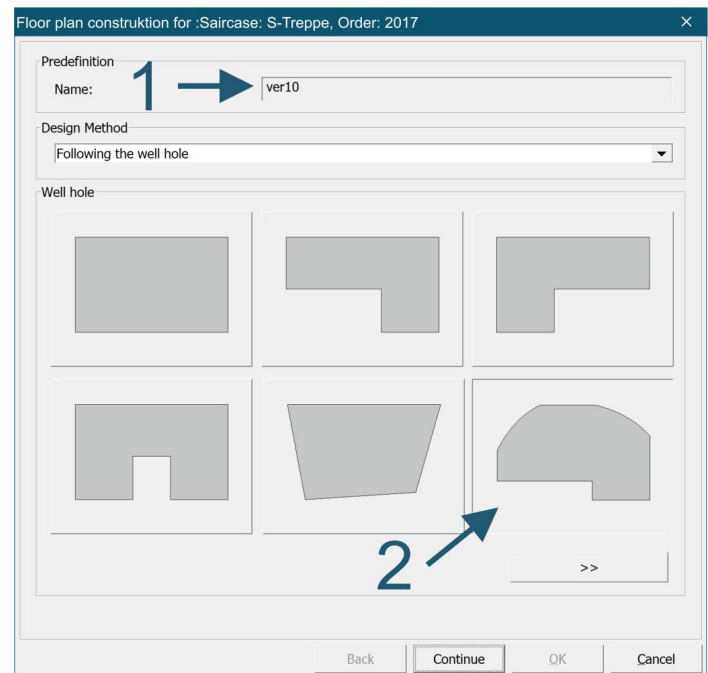
2. Construction Using a Square Well Hole

First start a new order/staircase.

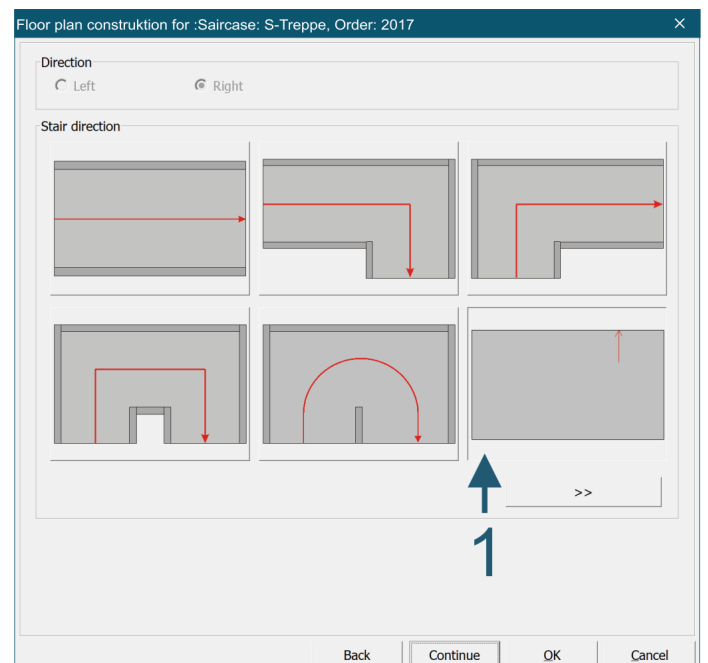
Select the construction option. The construction assistant will pop up.

Now pick the **predefinition** (1) of your choosing and then select the button for **free form construction** (2). Click on **OK** to call up the free from construction.

Now you can draw your well hole. For more information refer to chapter 4, which explains it with a rectangular well hole.



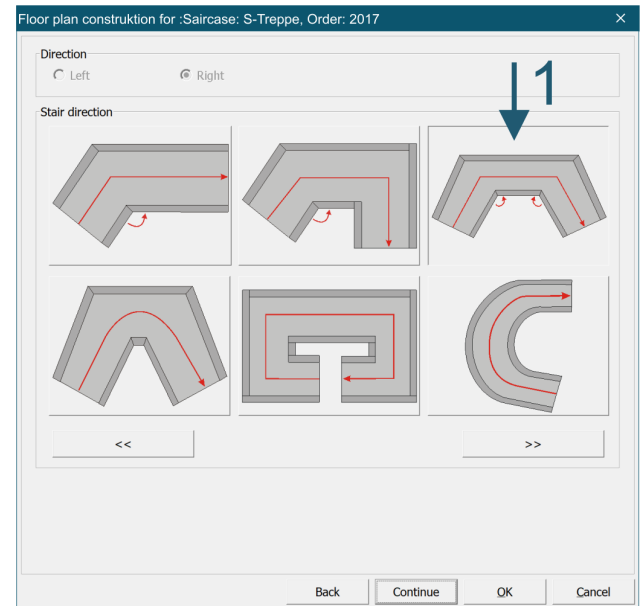
After you have finished the free form construction, your drawn polygon will be displayed in the **assistant** (1). Choose this shape and continue by clicking on **continue**.



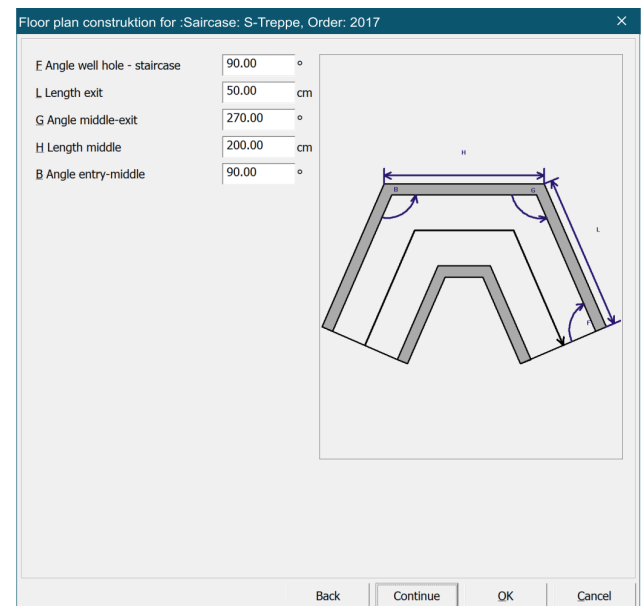
Construction S-Shape Staircases

You can define the winding of the stair in the next step.

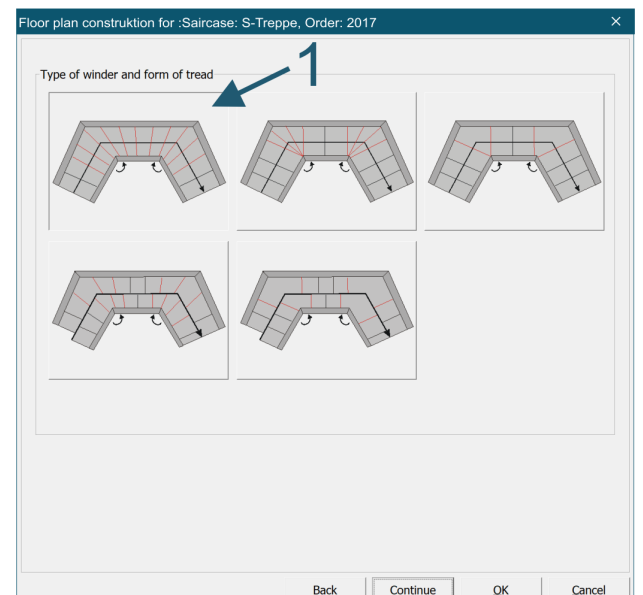
Please select **2 quarter turns with angle specification** (1). Now continue to the next page by clicking **continue**.



Here you can enter the respective parameters. As shown in the example on the right, you will have to enter information for the length and angle. When finished click on **continue**.



On the next page you can select the type of winding in the corner, e.g. **winded** (1). **Continue** to the next page.



Construction S-Shape Staircases

Now you will be able to enter the height specifications.
After finishing you may **continue** to the next page.

Floor plan construction for :Saircase: S-Treppe, Order: 2017

Flight Height
Referenz edge
Finished floor-Finished floor

G FFL to FFL: 280.00 cm

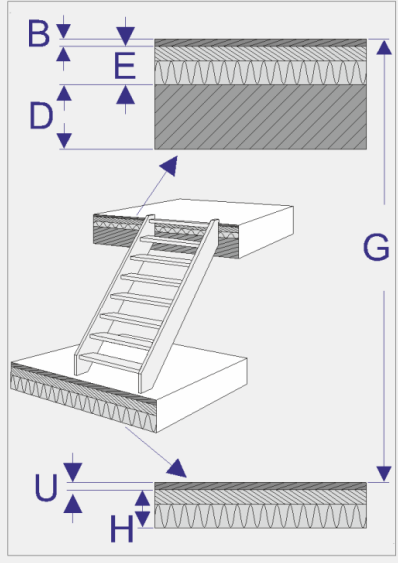
Covering Thickness Top
B Thickness: 1.00 cm

Screed top
E Thickness: 5.00 cm

Well Thickness
D Well thickness: 20.00 cm

Covering Thickness Bottom
U Thickness: 1.00 cm

Screed bottom
H Thickness: 5.00 cm



Back Continue OK Cancel

In a next step you can define walls around the well hole. You can finish the assistant by confirming with **OK**.

Floor plan construction for :Saircase: S-Treppe, Order: 2017

W Wall thickness 10.00 cm

Offside

☒ No walls

☐ Create walls manually

☐ Walls follow well hole

Number of walls 1

Inside

☒ No walls

☐ Create walls manually

☐ Walls follow well hole

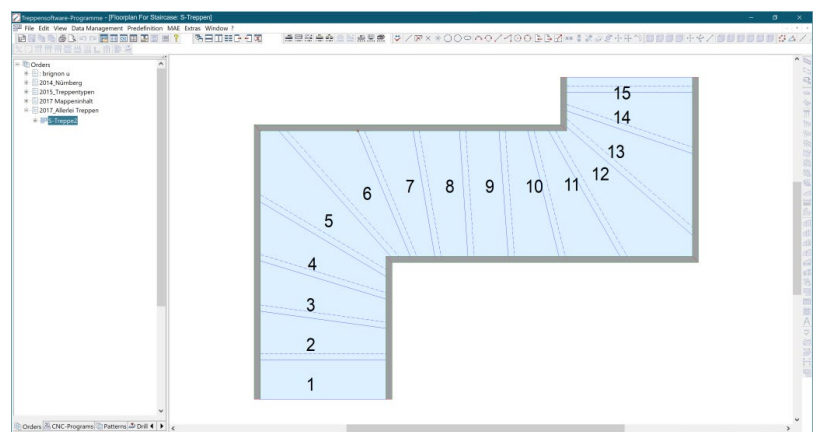
Number of walls 1



Back Continue OK Cancel

The initial calculation will be displayed.

The following steps and possibilities are identical to all other types of constructions.



Construction S-Shape Staircases

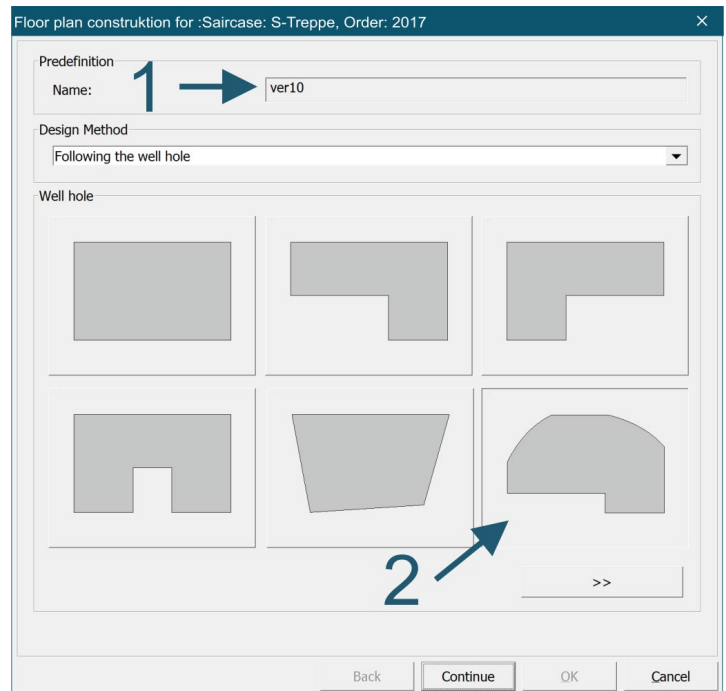
3. Construction Using an S-Shaped Well Hole

First start a new order/staircase.

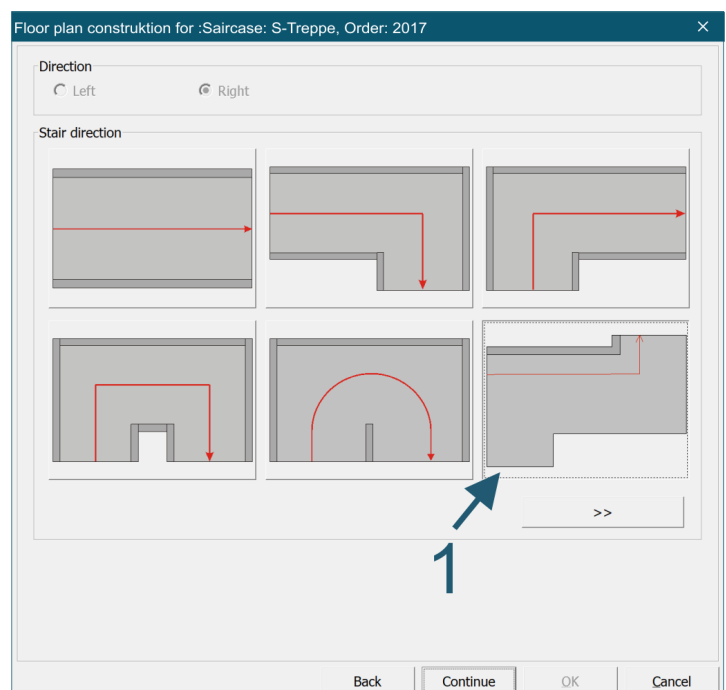
Select the construction tool. The construction assistant will pop up.

Now pick the **predefinition** (1) of your choosing and then select the button for **free form construction** (2). Click on **OK** to call up the free from construction.

Now you can draw your well hole. For more information refer to chapter 5, which explains it with a s-shaped well hole.

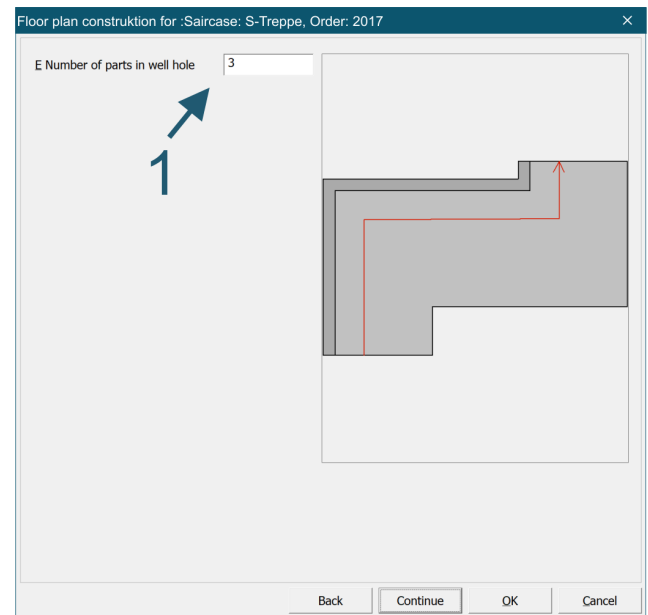


After you have finished the free form construction, your drawn polygon will be displayed in the **assistant** (1). Choose this shape and continue by clicking on **continue**.

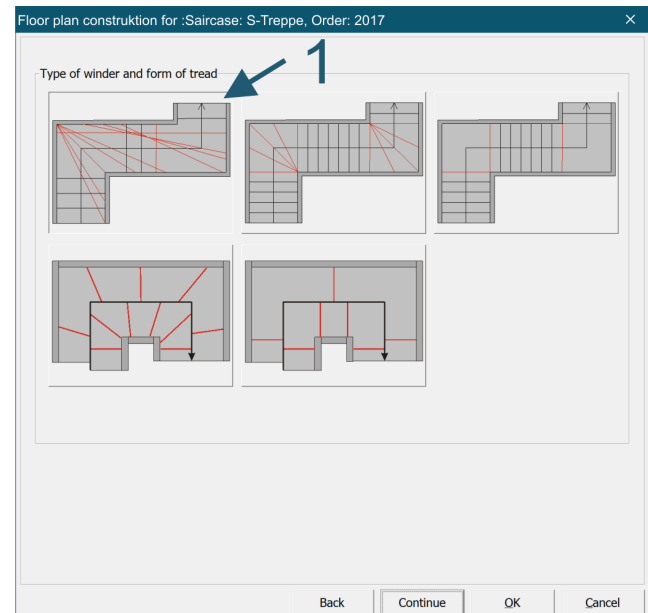


Construction S-Shape Staircases

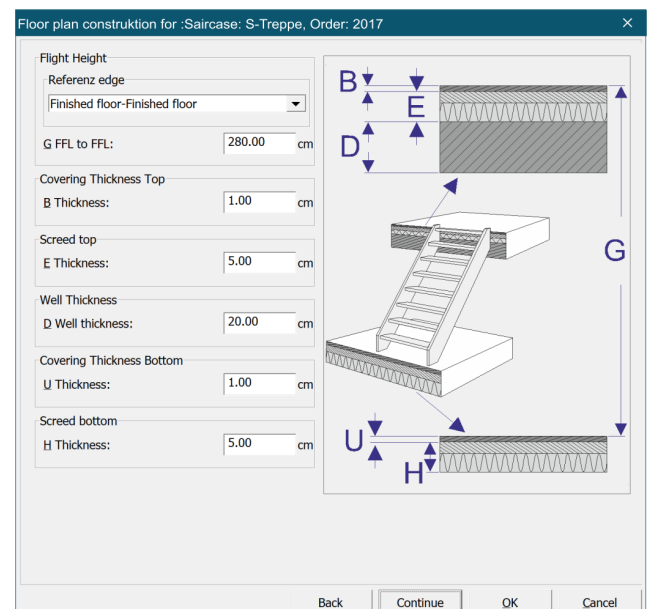
On the next page you will be able to enter the **number of parts in the well hole** (1). In this case please enter 3 and **continue**.



Define the **type of winding** (1) and **continue** to the next page.

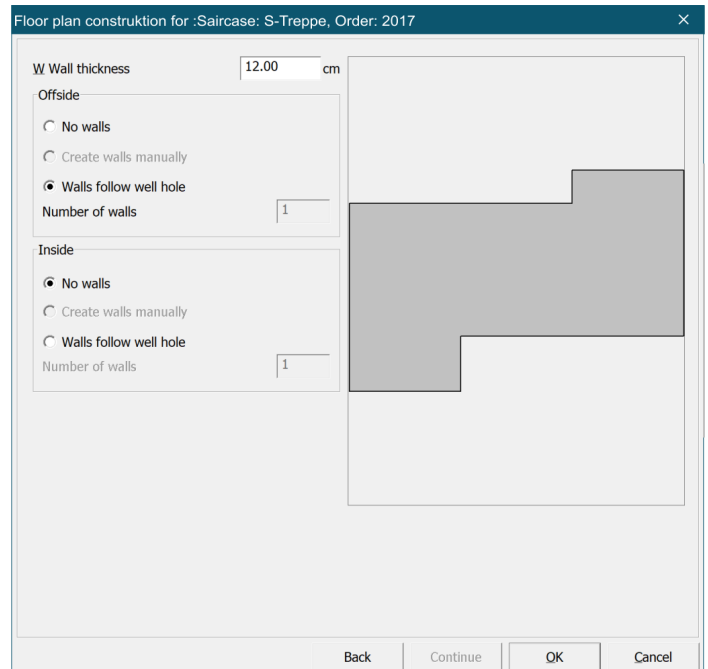


Now you will be able to enter the height specifications.
After finishing you may **continue** to the next page.



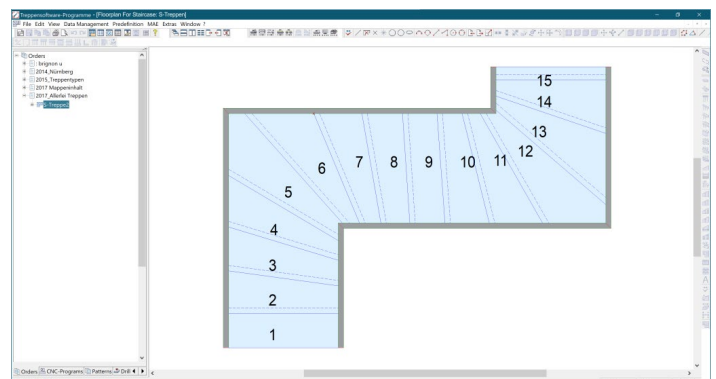
Construction S-Shape Staircases

In a next step you can define walls around the well hole. You can finish the assistant by confirming with **OK**.



The initial calculation will be displayed.

The following steps and possibilities are identical to all other types of constructions.



Construction S-Shape Staircases

4. Free Form Construction Rectangular

After initiating the free form construction, you will have many possibilities to construct your polygons.

The following example will describe one of those possibilities.

Click right into the free space. A selection will appear.

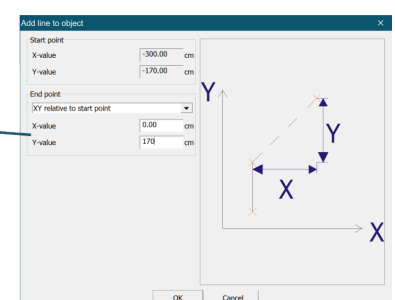
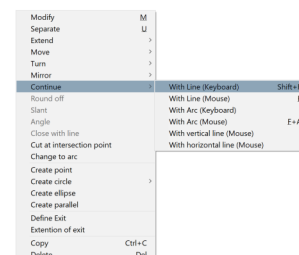
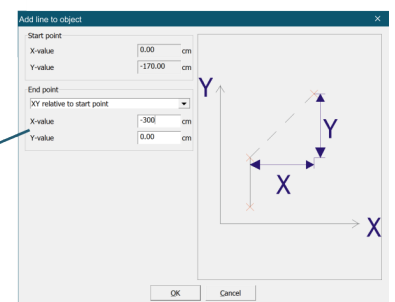
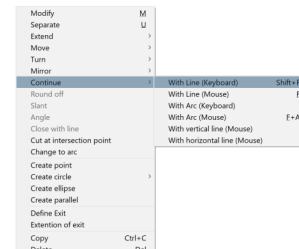
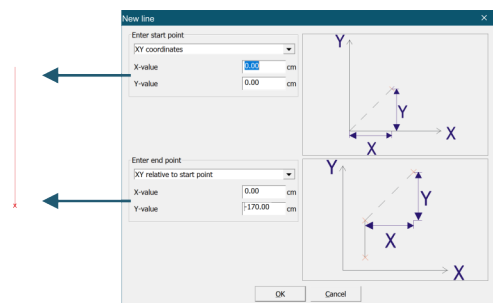
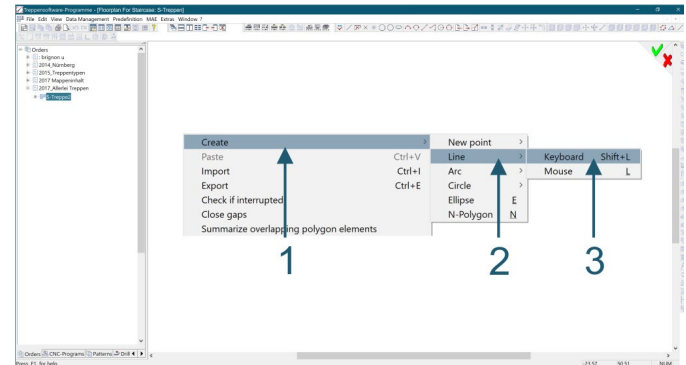
Choose **create** (1) and then **line** (2) and **keyboard** (3).

The dialog for the first line will appear. We have selected the coordinate system for this example by checking the appropriate boxes. The example shows 170 cm perpendicular. By selecting **OK** the first line will be drawn (see next to arrows).

Click right on the bottom end of the line and from the menu select **continue** and then **with line (keyboard)**.

Enter the end-point in the coordinate menu as shown in the example on the right.

Repeat the step above with a third line as shown on the right.

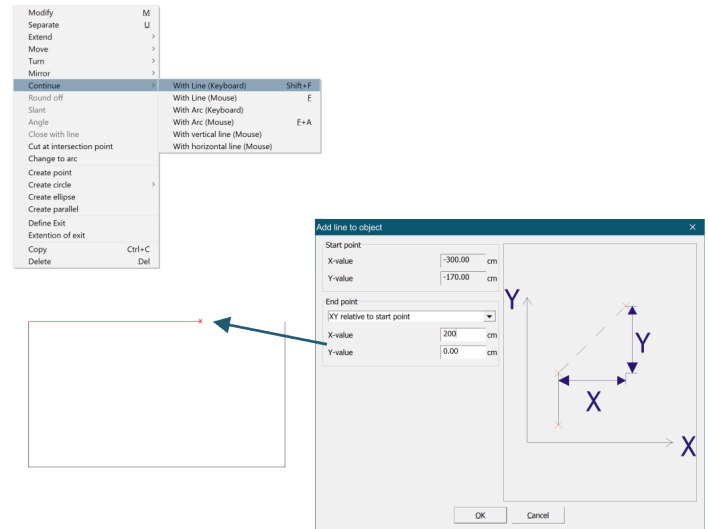


Construction S-Shape Staircases

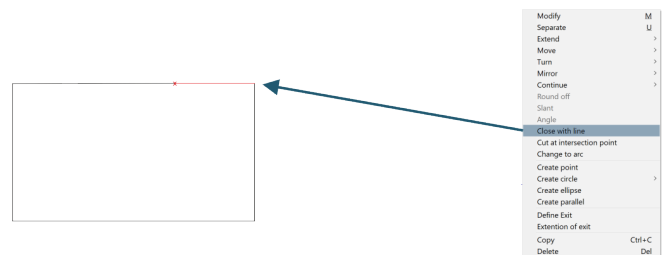
Repeat for a fourth line as shown in the example on the right.

The end-point of the line has to be shortened by the length of the exit width of the staircase (see arrow).

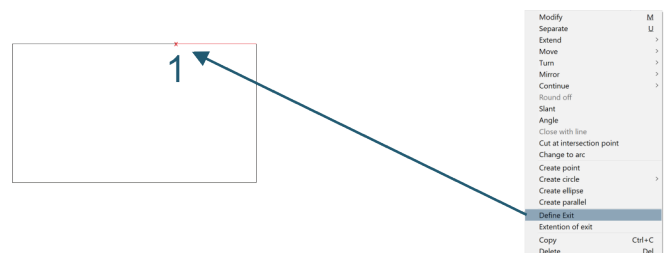
Since the exit of the tread is always defined on the left, it has to be allocated on this point, once you are done.



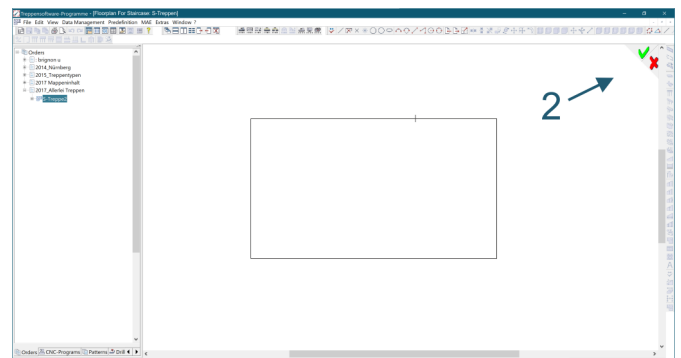
After you have created the fourth line click right on one of the two open end-points and select **close with line**. This command will close the polygon.



Last, select the **intersection** (1) and in the menu designate it as the **exit**. This defines the left exit of the staircase.



By leaving the free form construction **tool** (2) you will save the polygon. The system will return you to the construction mode where you initially called up the free form construction.

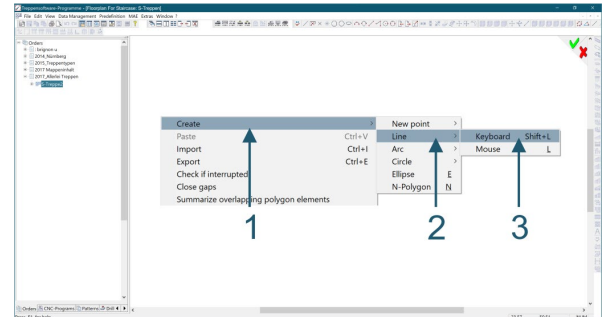


Construction S-Shape Staircases

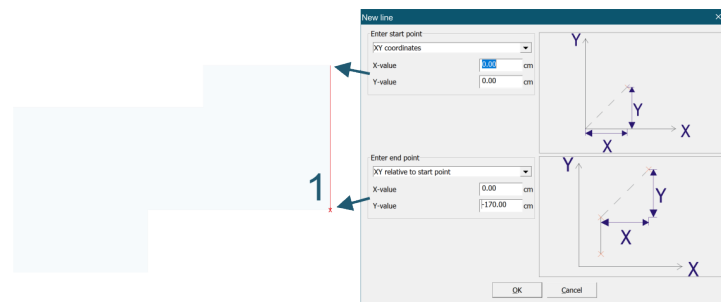
5. Free Form Construction S-Shape

The following example will show how to create a well hole in s-shape using the free form construction tool.

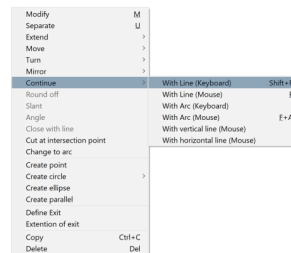
Click right into the empty space. A menu will appear. Select **create** (1) and then **line** (2) and **keyboard** (3).



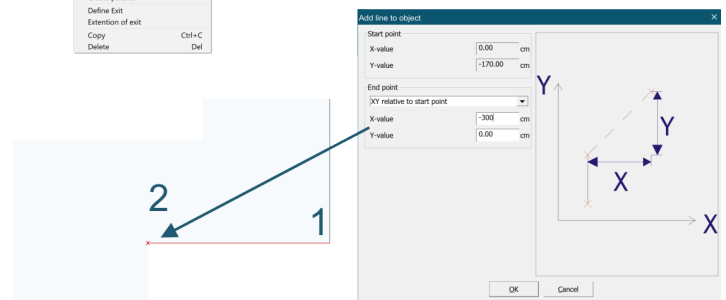
The dialog for the first line will appear. As described in chapter 4, the coordination tool is going to be activated. Enter your coordinates. By confirming with **OK**, the first **line** (1) will appear (see the two arrows).



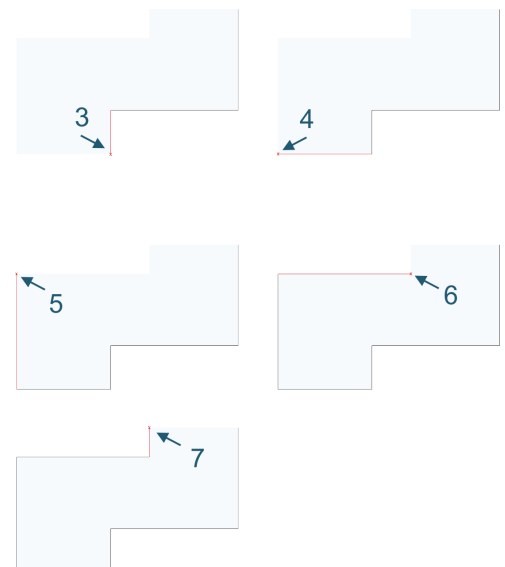
Click right on the bottom end-point of the **line** (1) and select “continue” and **with line** (keyboard).



Enter the end-point for the second **line** (2).

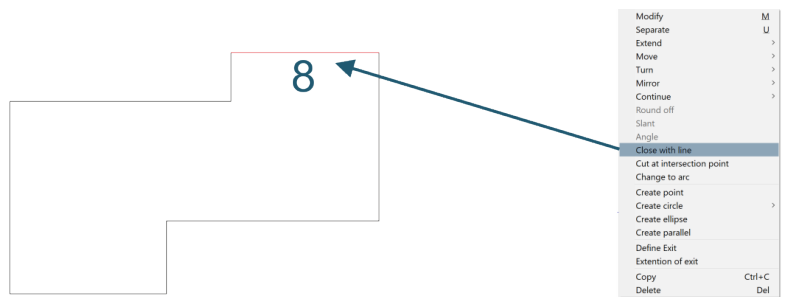


Repeat this step for the next **lines** (3-7) as shown in the example on the right.

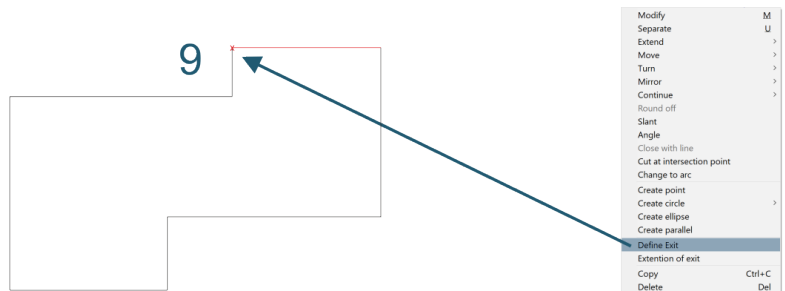


Construction S-Shape Staircases

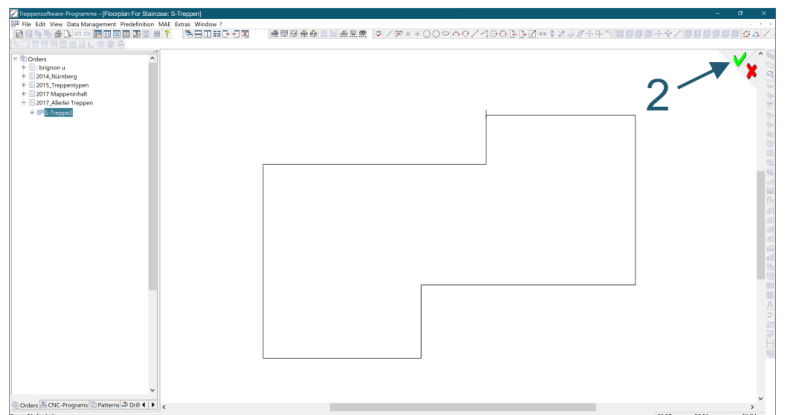
After you have created the second to last line, click right on one of the two open end-points and select **close with line** (8) like before. This process will close the polygon.



To finish, select the left end-point of the last **line** (9) and designate it as the **exit** in the menu. This defines the left exit point of the staircase.



You will save the polygon by closing the free form construction **tool** (2). The program will return you to the construction, where you initially called it up.



To download the designed staircase, please click on this [link](#).