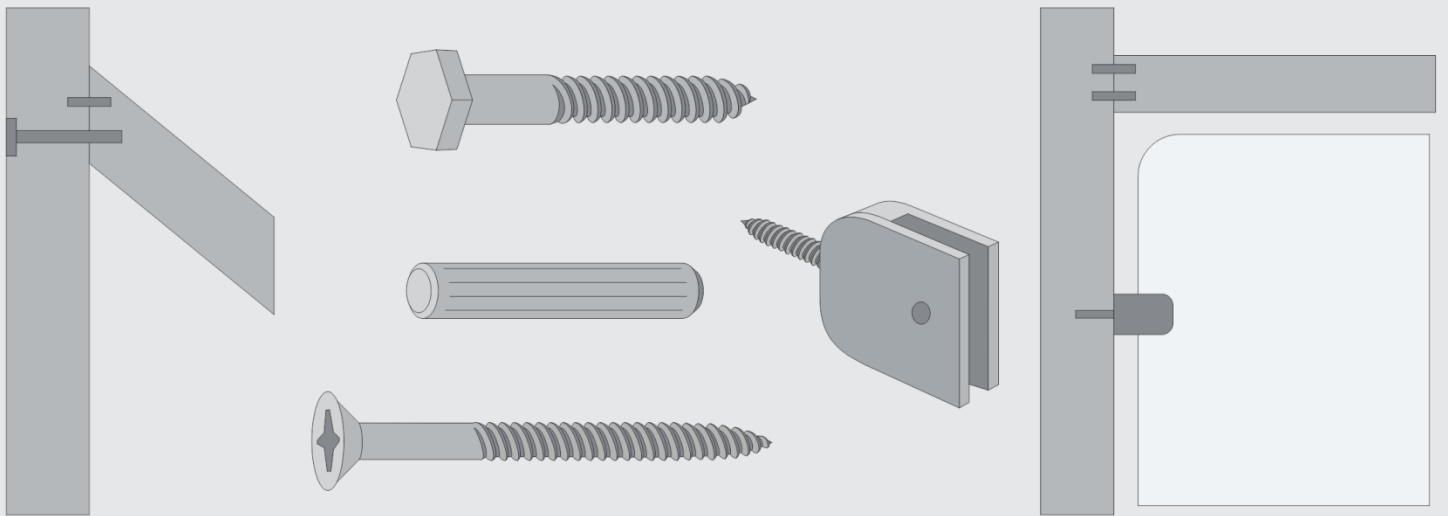




Compass Software

CREATE DRILLING PATTERNS



INSTRUCTION MANUAL

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1. General

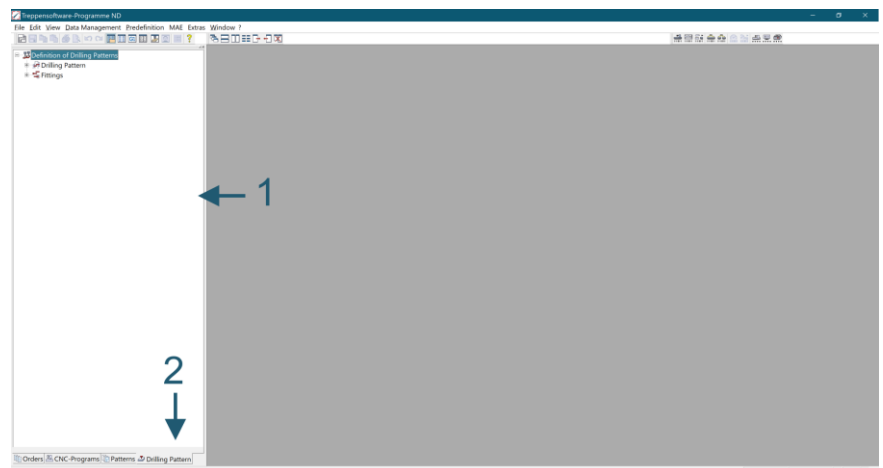
Drilling patterns are created in the workspace. The workspace can be opened by selecting it in View > Workspace or through the icon in the toolbar.

All drilling patterns are based on fittings, e.g. dowels, screws and so on, or special connection pieces (Hoffmann connector, angled clampings). All fittings are created using the same dialog, which has to be filled out.

Once a fitting has been created it can be inserted into drilling patterns.

The drilling patterns are matched to specific connections in the construction predefinitions and are placed automatically into the construction if the respective connection is being used.

From the **workspace** (1), select the tab **drilling pattern** (2).

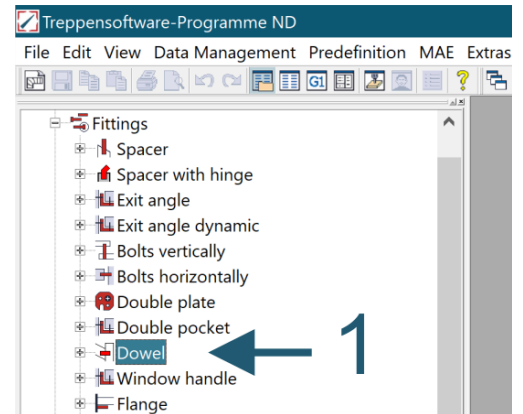


Instruction Manual Create Drilling Patterns

2. Create Fittings

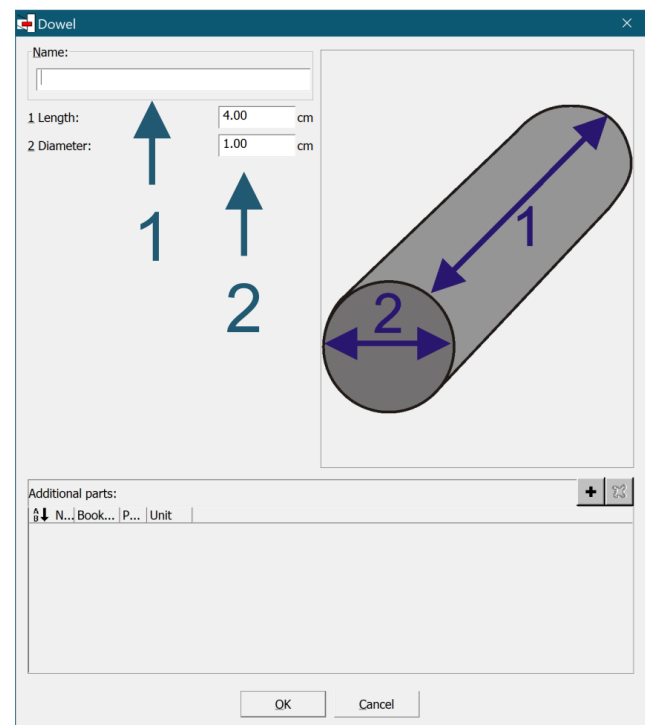
Creation of fittings on the example of a dowel and a screw.

To open the form double click on **dowel** (1).



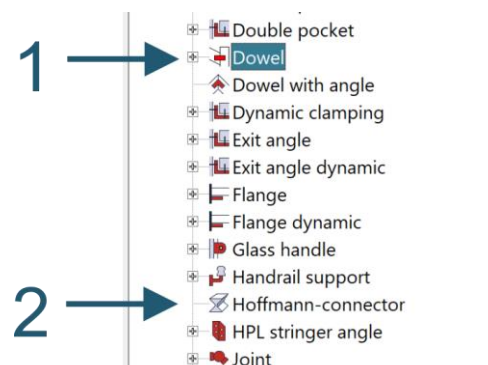
Enter the name (1) and parameters (2) of the dowel.

When all values are correct, close the form by clicking **OK**.



By clicking the + (1) you can open the submenu, which will display the dowel you have just created.

If you have not created a dowel yet, there will be no + in front of the fitting.
For example see **Hoffmann-connector** (2).



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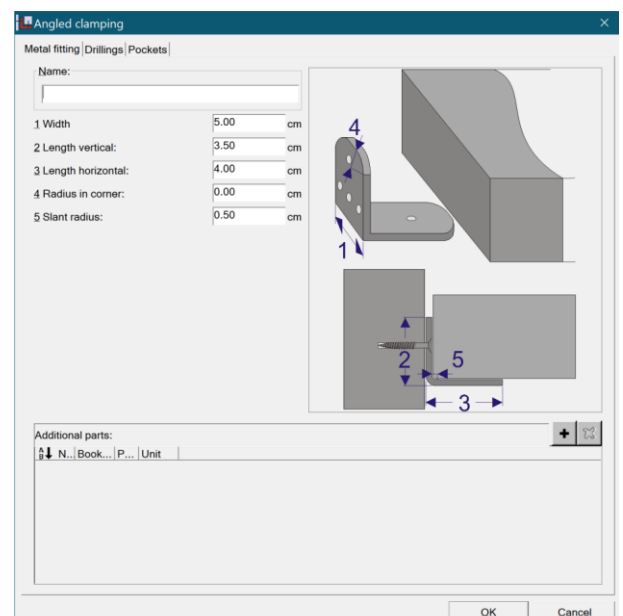
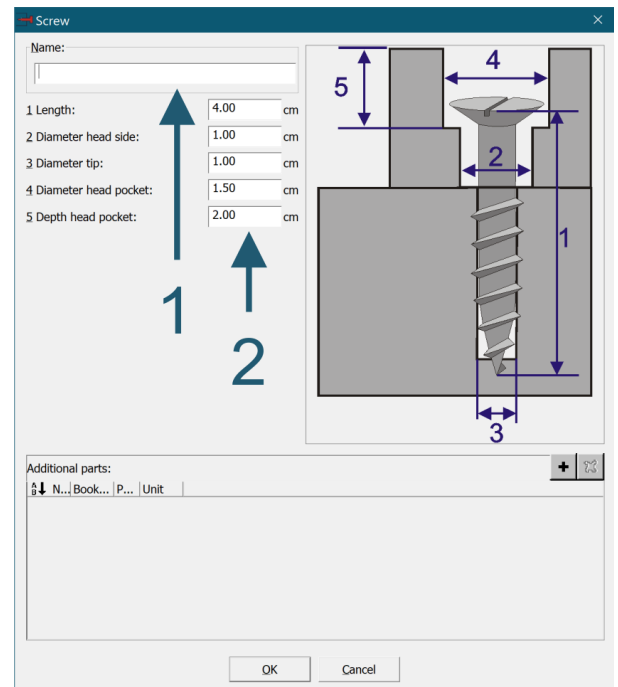
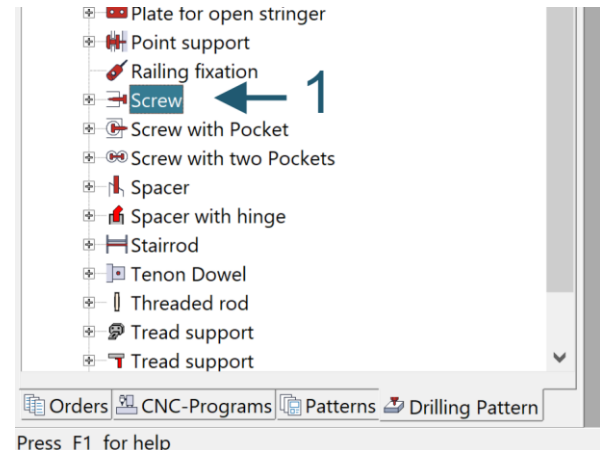
By clicking double on **screw** (1) you can open the form.

Enter the name (1) and parameter (2) for the screw here.

This fitting is a bit more complex. For that reason it has more values that need to be filled in. The different options are explained through the helpful graphical explanations.

When all values are correct, close the form by clicking **OK**.

More complex fittings have several pages that need to be filled out in the form. (For example angled clamping).



Instruction Manual Create Drilling Patterns

3. Define Drilling Patterns

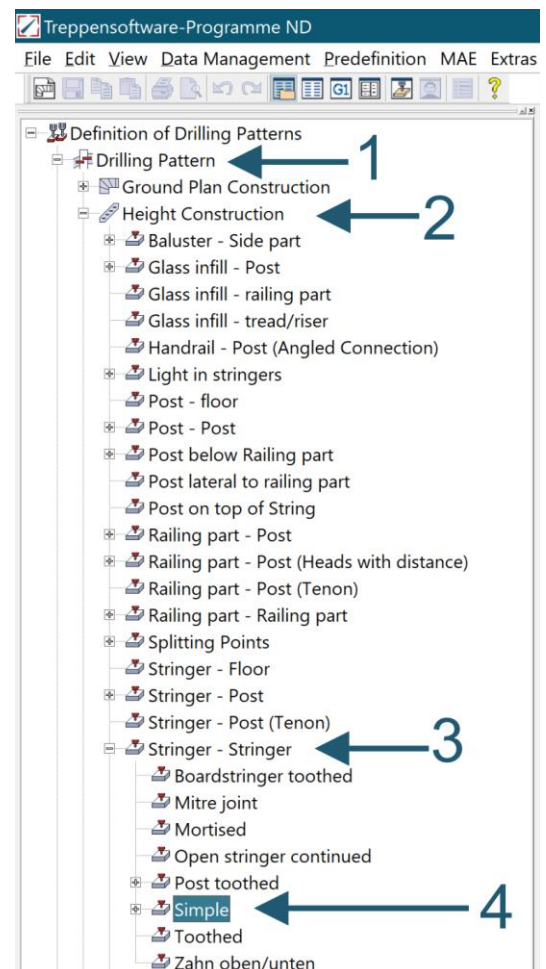
After creating the fittings, they have to be matched with a drilling patterns.

Please open the drilling patterns by clicking on the + in front of drilling pattern. It is possible to select between drilling patterns for the groundplan and height construction here.

In our example we will be using a dowel for the connection of the stringer on the side of the wall.

In order to do this open the **drilling pattern** (1) then height **construction** (2), then **stringer-stringer** (3) and select **simple** (4).

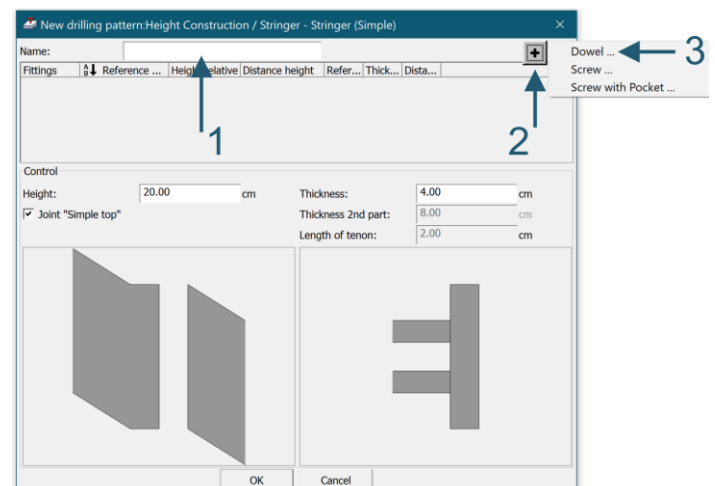
The form can be opened by double clicking on **simple** (4).



Enter the name (1) of the connection.

By clicking on the + (2) you will open a selection.

For our example select **dowel** (3).



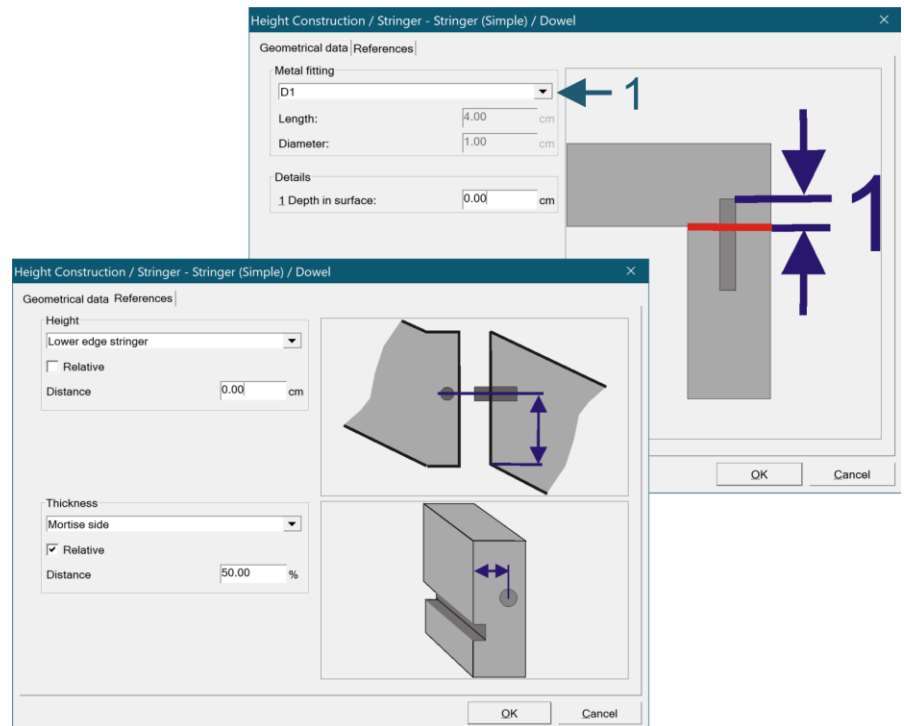
Instruction Manual Create Drilling Patterns

Now open the **list** (1).

Select the fitting from this the list of fittings you have entered before. Values that are grayed out cannot be changed as the information is taken out of the fitting info directly.

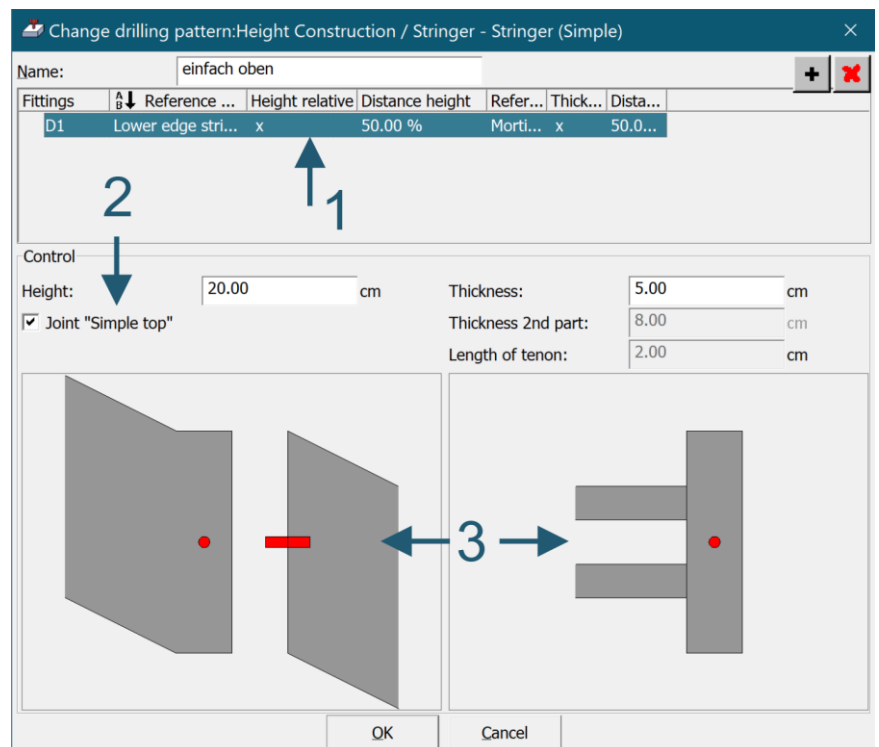
The position of the fitting in relation to the chosen reference edge can be set as fixed or relative as a percentage.

Now enter the required parameters on the different pages and verify by clicking **OK**.



Now the **dowel** (1) appears on the main page for the connection **simple top** (2).

A visual control (3) is provided through the top and side view, which reduces erroneous input. The graphical representation will change according to the measurements entered above.



Repeat the procedure to create a second and third dowel in the drilling patterns.

Then close the dialog by clicking **OK**.

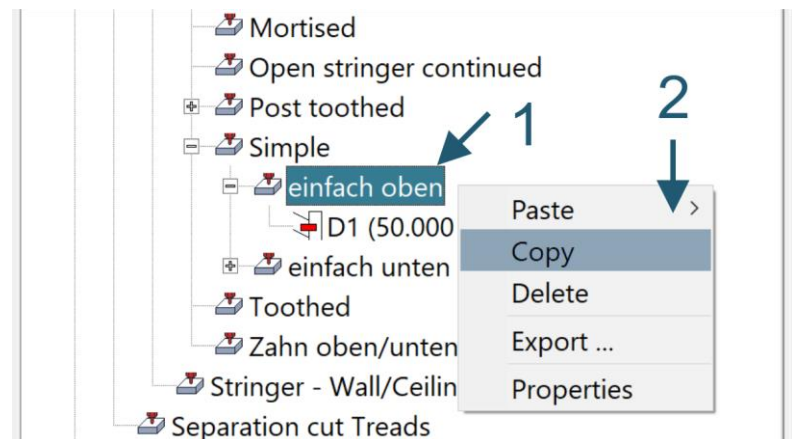
Instruction Manual Create Drilling Patterns

You are now able to view the created drilling pattern in the drilling pattern tree. By clicking the plus icon in front you can open the sub nodes to view the allocated drilling patterns.

Similar drilling patterns can be created by copying an already existing pattern and only slightly changing it. This is usually faster than creating a whole new pattern.

In order to do this click right on the drilling pattern **simple top** (1) and select **copy** (2) from the menu.

The copy will appear below the pattern. Open the copy and change the name to "simple bottom".

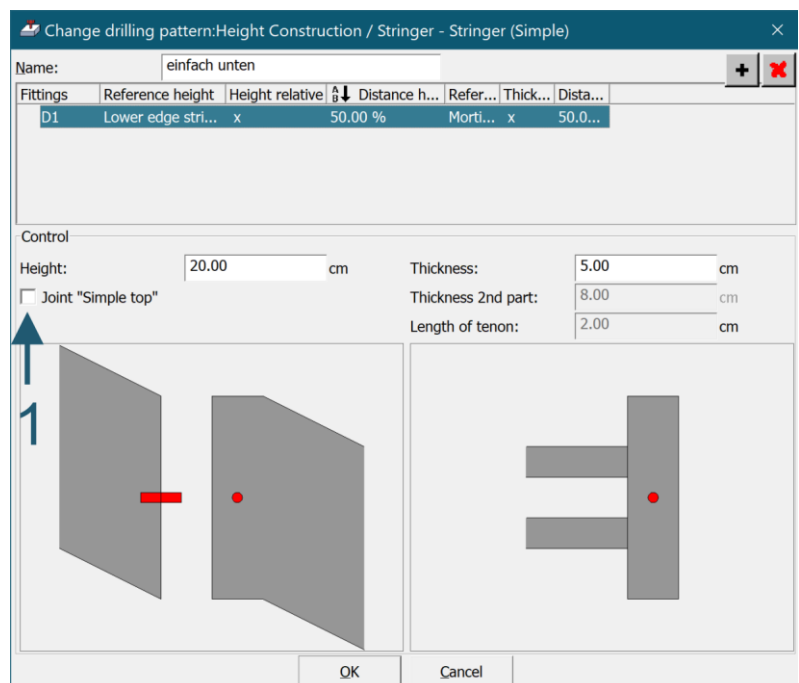


Double clicking on the re-named pattern will open the dialog.

Remove the checked box for **simple top** (1).

The graphic will change to show the lower stringer connection.

The dowels are already there and only the position within the stringer has to be adjusted.



Using this procedure you are able to create and edit all connections in the list for both the groundplan construction and height construction.

Instruction Manual Create Drilling Patterns

4. Match Drilling Patterns in the Predefinitions

The drilling patterns can be allocated when you create predefinitions for groundplan or height constructions. Once you have matched a drilling pattern with a predefinition, it will appear automatically in the staircase drawing for the respective connections between parts.

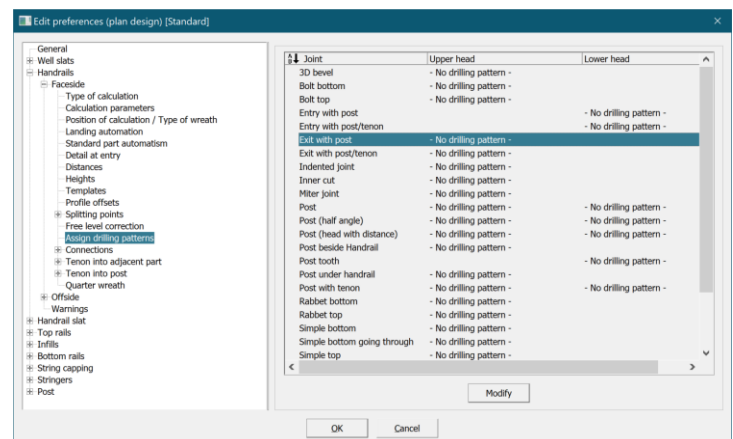
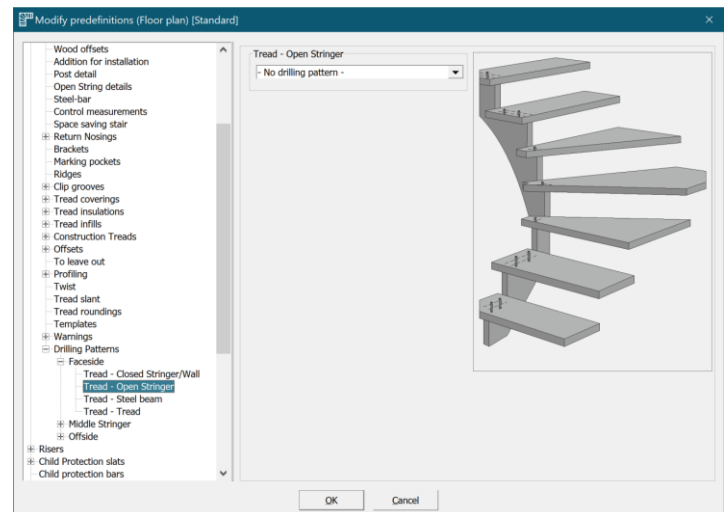
Predefinition groundplan

e.g. Joint tread – open stringer.

or

Predefinition height construction

e.g. handrail – faceside – drilling pattern allocation for the connection of handrails on the offside to other construction parts (posts, other handrails...).



During construction you might have to manually double check the connection or conduct minor changes to accommodate the individual stair. Even though, this process is much faster than having to manually place the connectors. Therefore, investing some time once is worth the effort already after a short time.