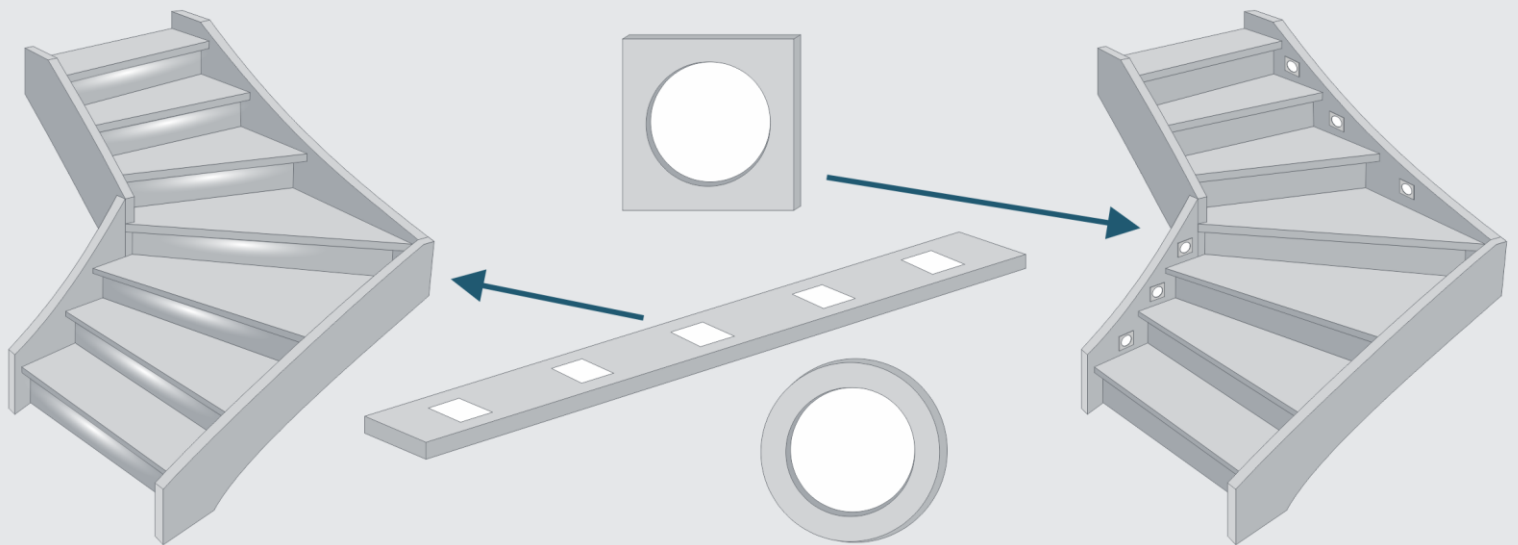




Compass Software

CAD LIGHT (LED-LIGHT STRIPS, AND SPOTLIGHTS)



INSTRUCTION MANUAL

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Instruction Manual for CAD-Light

1. General

Light is a module which makes it possible to position different spotlights (round, square, rectangular) into the stringers. Furthermore, it is possible to insert light strips on treads (in front of the riser), underneath treads (on the tread extension), and underneath child protection bars.

The corresponding parameters are defined in the prerequisites and can be assigned during construction. Settings for cable grooves, cables going through the tread, and transformer drillings can still be changed in the construction settings.

The following chapters describe the procedures in more detail. The chapters are ordered according to the natural step-by-step approach.

2. Create Drilling Pattern for Light Strips

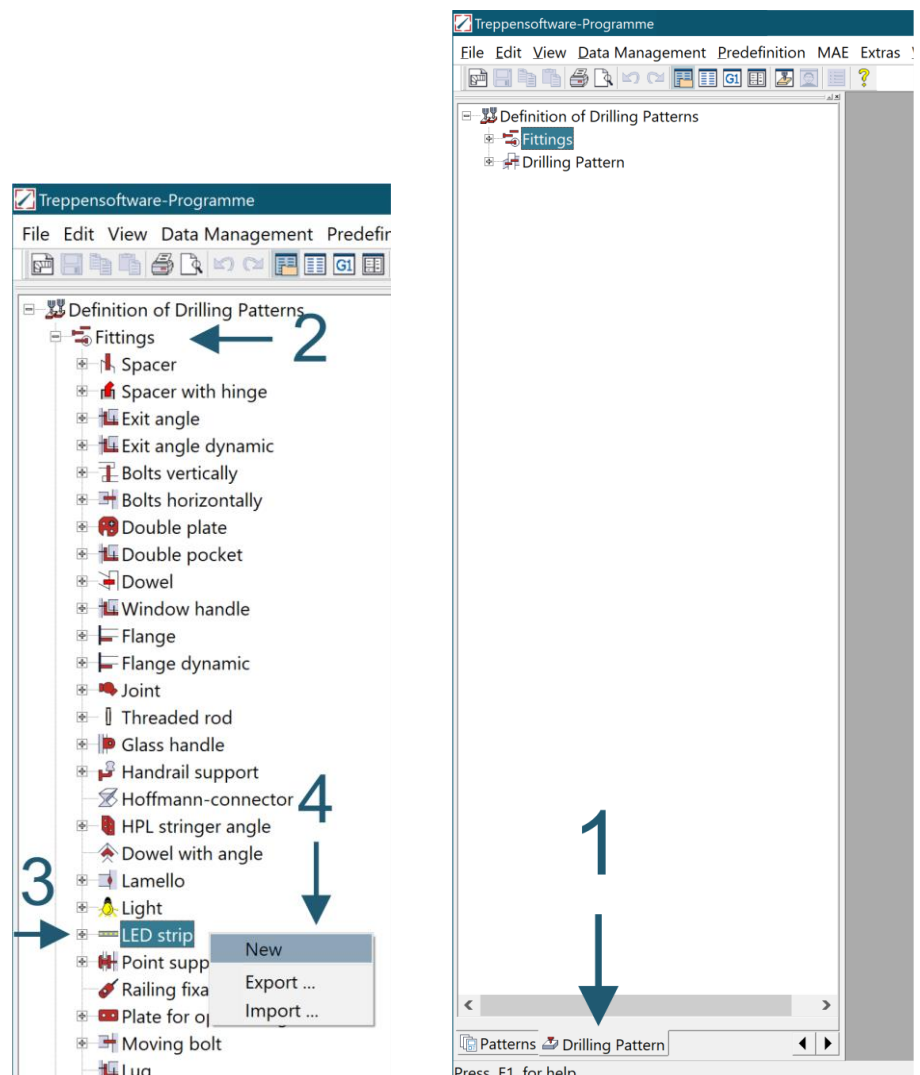
As described under Chapter 1, light strips can be applied in many different ways. This first requires you to create light strip types in the drilling pattern tree. Please proceed as follows.

Go to heading **Drilling Pattern** (1).

There select **Fittings** (2).

The drilling parts tree will open.

Click on **LED strip** (3) with a right click and then on **New** (4).

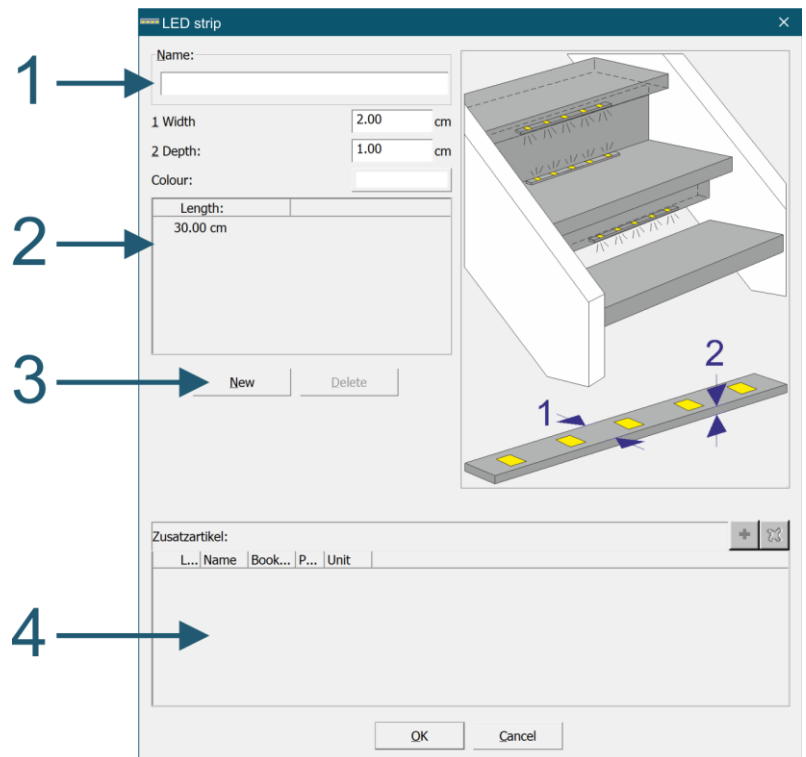
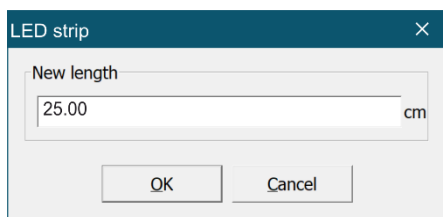


Instruction Manual for CAD-Light

The menu depicted on the right will open.

Please put in a name in under **Name** (1).
Beneath you will have to fill in the width
and depth of the light string.

For **Length** (2) choose **New** (3),
insert the length,
and confirm with **Ok**.



It is possible to record different lengths here,
which then can be chosen from in construction.
Just repeat the process.

Under the heading **corresponding article** (4) it is possible to select respective articles with the
pushbutton, if the option exists.

To finish, confirm the data with **Ok** and it will be saved.

Instruction Manual for CAD-Light

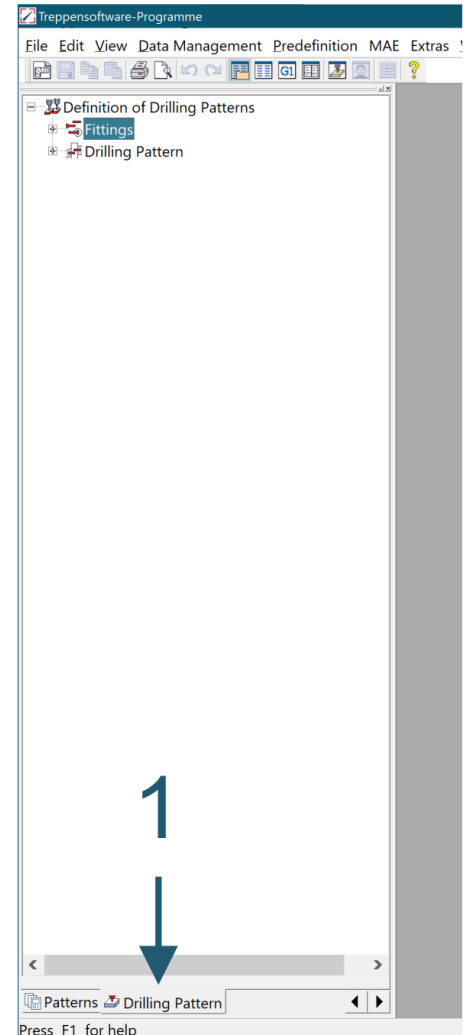
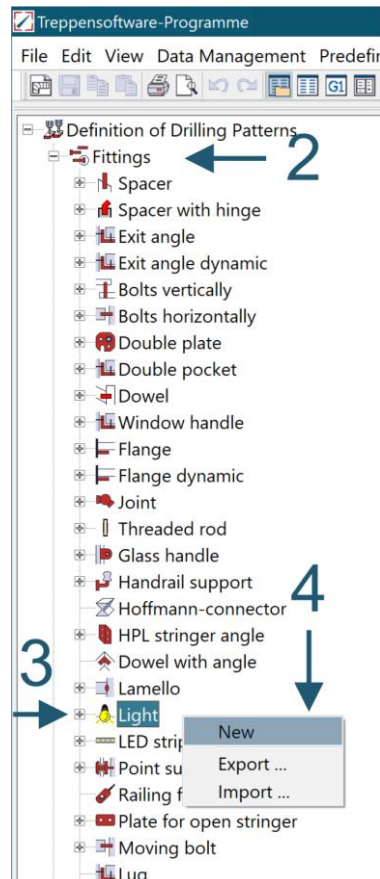
3. Create Drilling Patterns for Lights

Go to heading **Drilling Pattern** (1).

Please select
Fittings (2).

The drilling parts
tree will open.

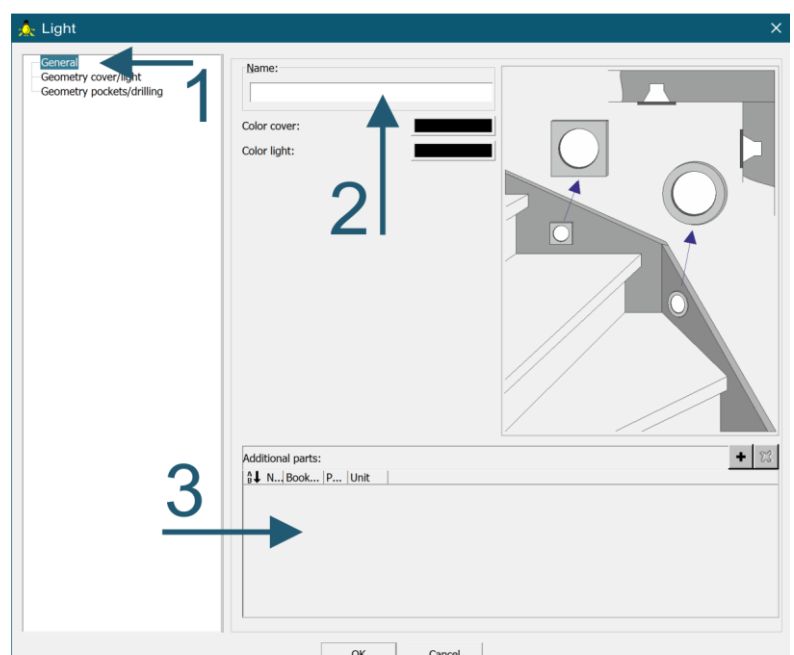
With a right click
select the drilling part
Light (3), then click
New (4).



The menu shown on the right will
open.

In the menu **General** (1) fill out the
box **Name** (2). Below you are able to
choose a color for the depiction.

Under the heading **corresponding
article** (3) it is possible to select
respective articles with the
pushbutton, if the option exists.



Instruction Manual for CAD-Light

Please enter the parameters for the article under the heading **Geometry cover/light** (1).

First, you will be able to choose the kind of cover in the first pad under **Cover** (2).

You can choose from: round, rectangular, or –not existent-. If existent, please fill out the parameters, here.

The second pad **Light** (3) serves to choose the kind of spotlight you want. You can choose from: round or rectangular.

Under the heading **Geometry pockets/drilling** (1) you will have to put in the parameters for the required pockets and cable drillings. Either one or two pockets are possible. For example, one for the cover, if it is also to be embedded, and one for the spotlight itself. Furthermore, it is possible to specify a drilling for cables going through.

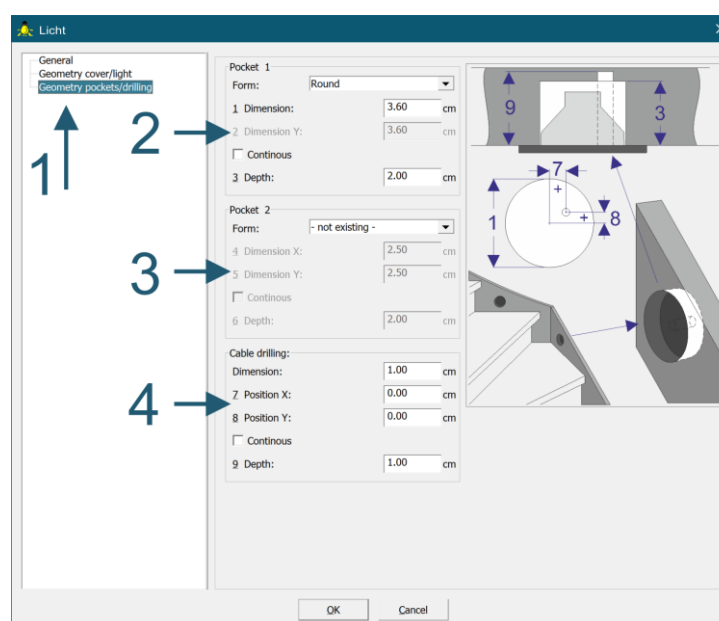
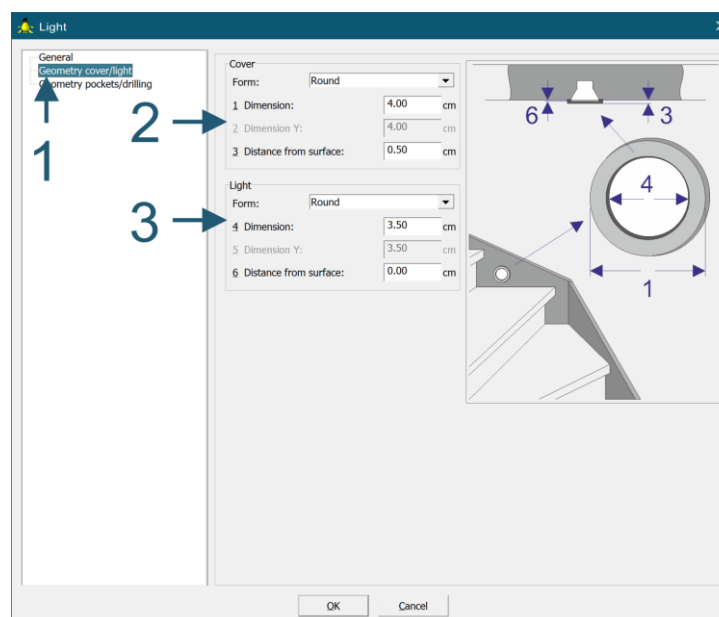
Please select the kind of pocket you need in the first pad **Pocket 1** (2).

You can choose from: round, rectangular, or –not existent-.

After, please enter the parameters.

Please do the same for the second pad **Pocket 2** (3). If you do not require the second pocket set the parameter on **not existent**.

In the third pad **Cable drilling** (4), please enter the drilling parameters. The help graphics in the program will support you and give detailed descriptions of the parameters.



To finish please confirm with **Ok** to save input. Repeat the process to record further light types.

Instruction Manual for CAD-Light

3.1 Assign Drilling Pattern Lights

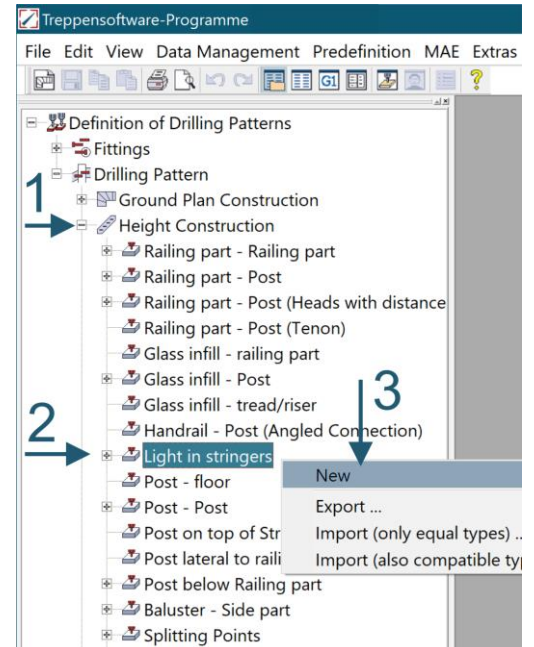
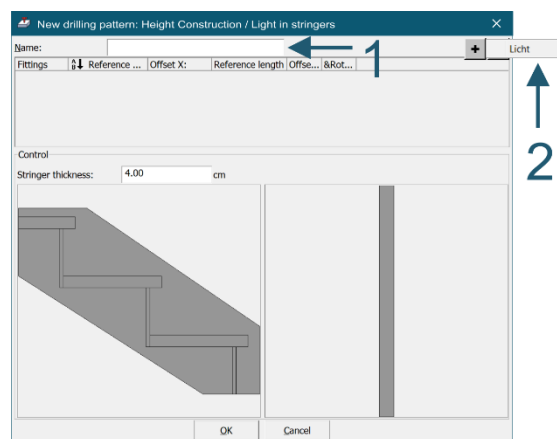
After recording the drilling part lights, you will have to assign it to a drilling pattern.

In order to do this, please open the list **Height Construction** (1) under drilling patterns and with a right click select **Light in stringers** (2).

Please select **New** (3) in the popup menu.

Please enter a name in the box **Name** (1).

Then select **Lights** (2) with the **pushbutton**.



The menu below will appear which gives you the following possibilities.

Please select the type in the **first box** (1).

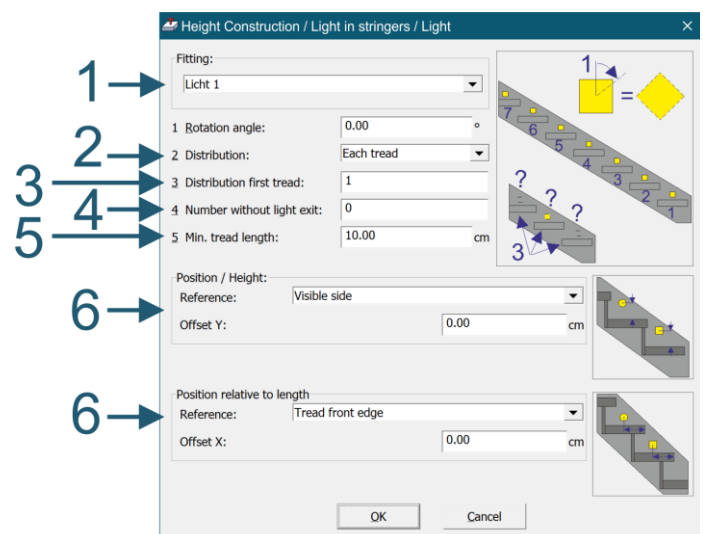
The **second box** (2) makes it possible to choose above which tread you want the light (above each tread or above every 2,3,... tread).

Box (3) and (4) determine the beginning and end of the light.

In **box** (5) you can determine the minimal length of a tread above which a light can be positioned.

Box (6) serves to position the light. Please select the respective parameters in the boxes. The help graphics in the program will support you and give more detailed descriptions of the parameters.

Please finish by closing the menu with selecting **Ok**.



Instruction Manual for CAD-Light

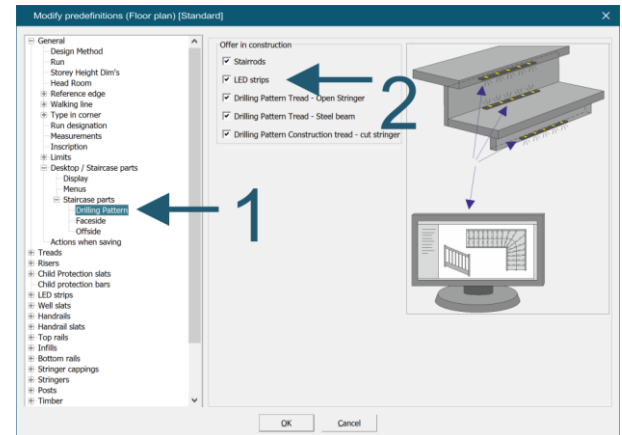
4. (Layout) Light Strips in the Prerequisites

Please open the layout prerequisites in which the light is to be considered.

Under **General** and **Desktop/Staircase parts**, select the heading **Staircase parts** (1).

The menu on the right will appear.

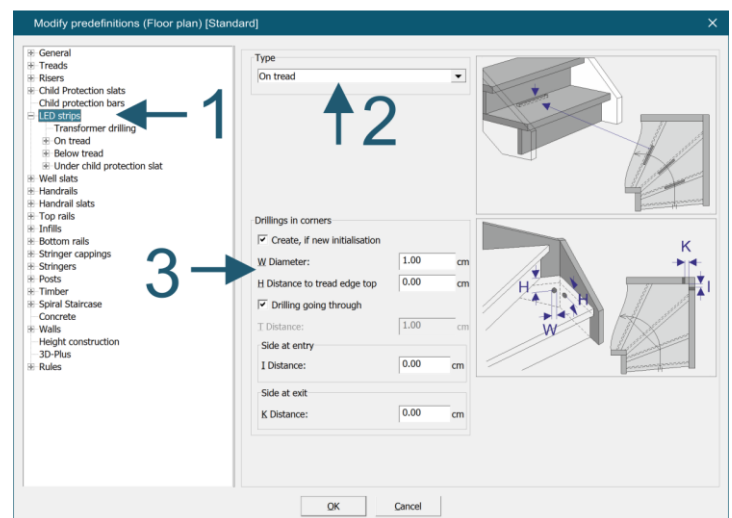
Please check the box **LED strips** (2).
Now the option will be offered in the construction and it is possible to insert and edit light strips manually.



It is also possible to activate this option later during construction under the **construction defaults**.

Under the heading **LED strips** (1) it is possible to preset the **Type** (2).

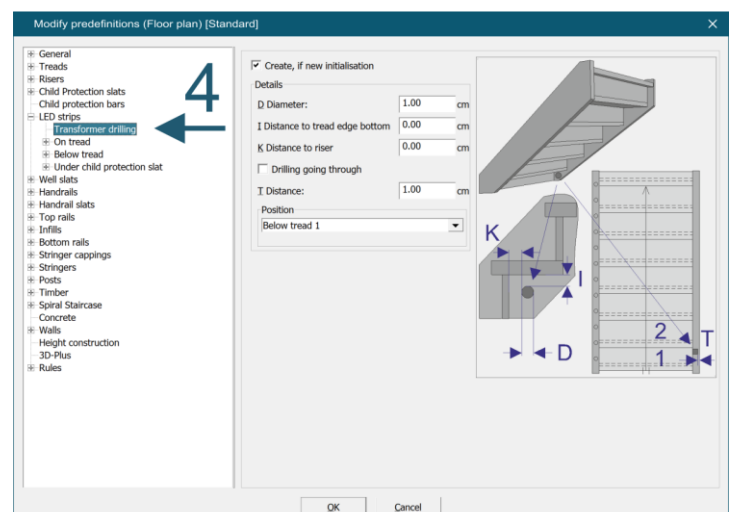
You can choose from
none,
below tread,
below child protection bar,
and **on tread**.



The heading **Drillings in corners** (3) assigns the entered drillings when calculating the staircase initially.

The same goes for **Transformer drilling** (1).

The help graphics in the program will support you and give more detailed descriptions of the parameters.



Instruction Manual for CAD-Light

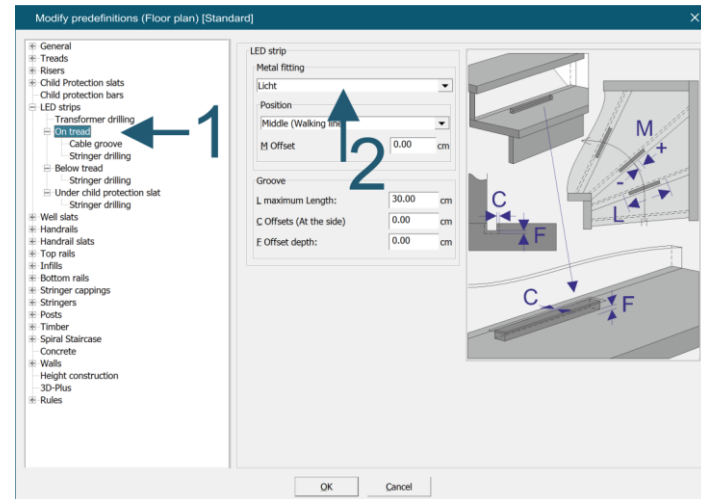
The pad **light strips** and **On tread** (1) gives you the opportunity to enter the prerequisites for light strips that are to be positioned on treads.

Please select the desired light strip type under **Metal fitting** (2). The creation of drilling parts is described in chapter 3.

Afterwards, please enter the parameters.

Under **Position** (3) please specify whether the cable groove is to run along the interior or exterior side of the staircase.

Then, please enter the parameters in the subpad **Stringer drilling**. The help graphics in the program will support you and give more detailed descriptions of the parameters.



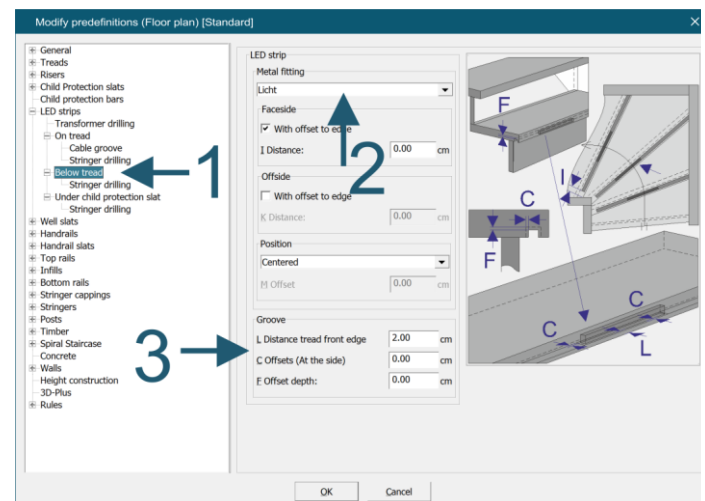
The pad **light strips** and **Below tread** (1) gives you the opportunity to enter the prerequisites for lightstrips that are to be positioned below treads.

Please select the desired light strip type under **Metal fitting** (2). The creation of drilling parts is described in chapter 3.

Afterwards, please enter the parameters.

In **box** (3) please check whether the groove is to go interior or exterior over the tread edge.

To finish enter the parameters in the subpad **Stringer drilling**. The help graphics in the Program will support you and give more detailed descriptions of the parameters.



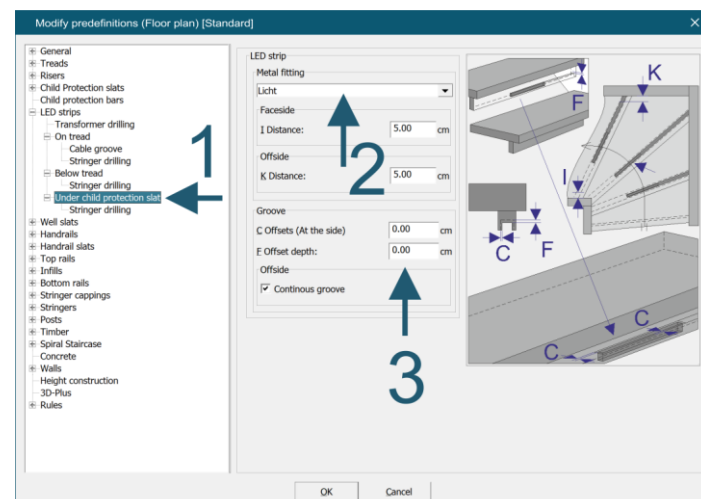
The pad **light strips** and **under child protection list** (1) gives you the opportunity to enter the prerequisites for light strips that are to be positioned below child protection bars.

Please select the desired light strip type under **Metal fitting** (2). The creation of drilling parts is described in chapter 3.

Afterwards, please enter the parameters.

In **box** (3) please check whether the groove is to run interior or exterior.

To finish enter the parameters in the subpad **Stringer drilling**. The help graphics in the program will support you and give more detailed descriptions of the parameters.



Instruction Manual for CAD-Light

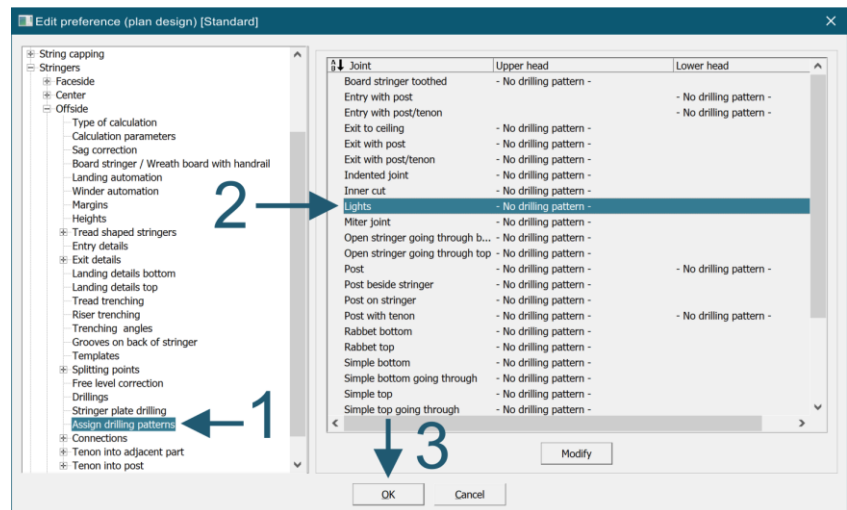
5. (Height Construction) Spotlights in the Prerequisites

It is possible to determine a light pattern assignment for the stringers in the prerequisites for height constructions. This light pattern is then considered during the initial calculation of the staircase, and can be changed during construction if needed.

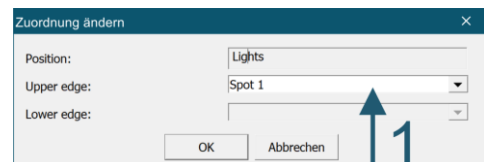
To enter a drilling pattern please proceed as follows. Please open the prerequisites for the height construction in which the lights are to be inserted.

Please select the kind of stringer under the heading stringers (e.g. exterior). In the subpad please select **Assign drilling patterns** (1) and there **Lights** (2).

Double click with your mouse or select the Button **Modify** (3), the following menu will appear.



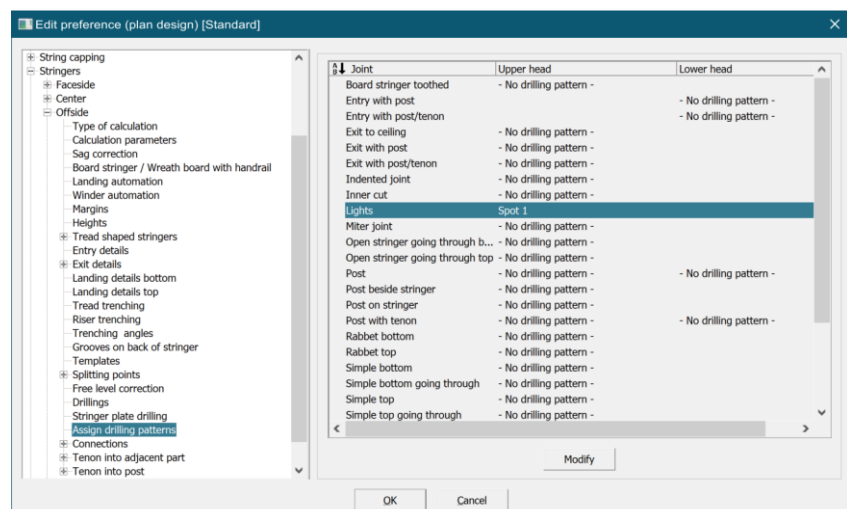
In **box** (1), please select from the list the appropriate drilling pattern which you have created in the drilling pattern tree (see chapter 3) before.



The button **Ok** will bring you back to the main window.

Please repeat the process if you need to assign for other types of stringers (interior, middle).

To finish, save the prerequisites with the button **Ok** at the bottom of the window.



6. (Layout) Light Strips in Construction

The light strips which have been assigned in the prerequisites have been depicted in the initial calculation in the ground plan construction.

It is now possible to make changes in the settings during construction. Furthermore, it is possible to enter additional light strips, delete them, or edit them. Even if no light strips have been considered in the prerequisites, you will still be able to assign some manually during construction.

If the light strip option was not selected in a prerequisite, it is still possible to activate this option during construction (in construction defaults under general/parts).

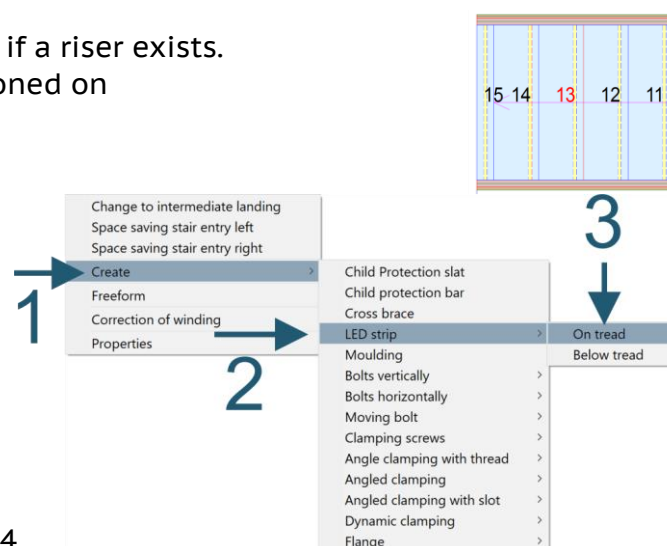
6.1 Insert Light Strips on the Tread

Important! Light strips on treads can only be inserted if a riser exists. If a cable groove is wanted, the riser should be positioned on the tread. The riser will hide the cable groove. Otherwise the groove will be missing.

Please select a tread and call up the menu on the right by clicking right. Select **Create** (1), then **LED strip** (2), and there select **On tread** (3).

This will assign the values you have entered in the prerequisites to the light strip.

How to edit light strips will be explained in chapter 6.4.

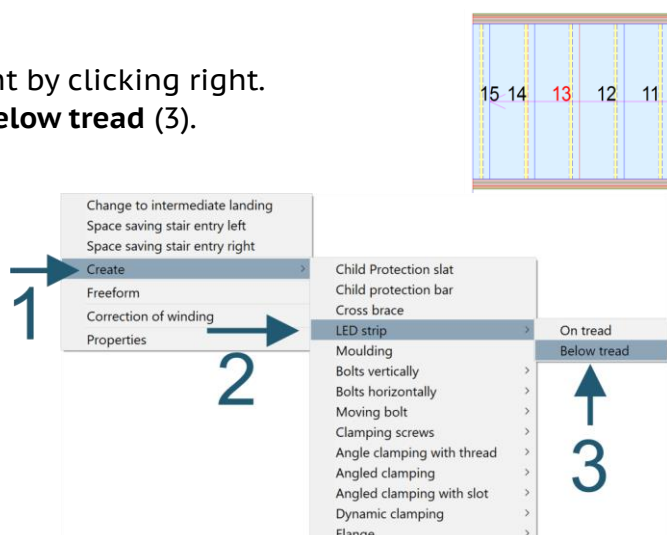


6.2 Insert Light Strips below the Tread

Please select a tread and call up the menu on the right by clicking right. Select **Create** (1), then **LED strip** (2), and there select **Below tread** (3).

This will assign the values you have entered in the prerequisites to the light strip.

How to edit light strips will be explained in chapter 6.4.



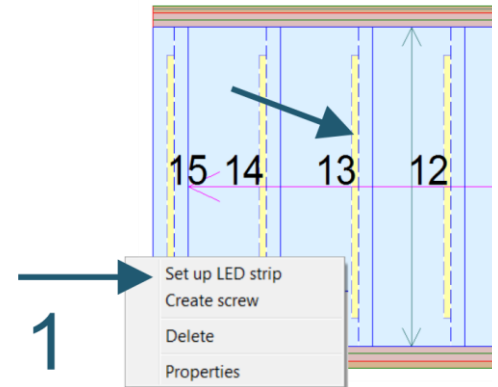
Instruction Manual for CAD-Light

6.3 Insert Light Strips below Child Protection Bars

Please select the child protection bar you want to edit.
Call up the menu on the right by clicking right and select **Set up LED strip** (1).

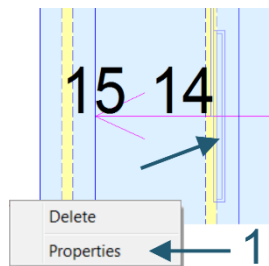
This will assign the values you have entered in the prerequisites to the light strip.

How to edit light strips will be explained in the next chapter.



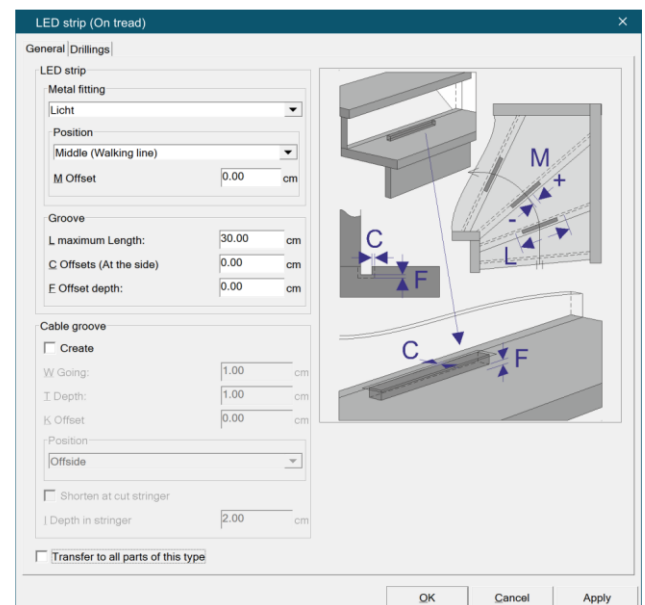
6.4 Edit Light Strips

Select the light strip you want to edit with a left click. Then, with a right click, call up the menu and select **Properties** (1).



The menu on the right will appear.

Here you will be able to conduct the desired changes. The respective settings are explained in more detail in the help graphics of the staircase software.

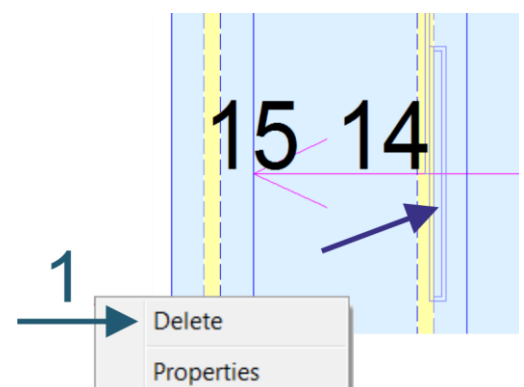


6.5 Delete Light Strips

With a left click select the light strip you want to delete.

Call up the menu with a right click and select **Delete** (1).

The light strip has been deleted.



7. (Height Construction) Spotlights in Construction

Lights can be positioned into stringers automatically in the height construction. This can be done in the prerequisites (described in chapter 5).

Furthermore, it is also possible to insert, edit, or delete lights manually in the height construction.

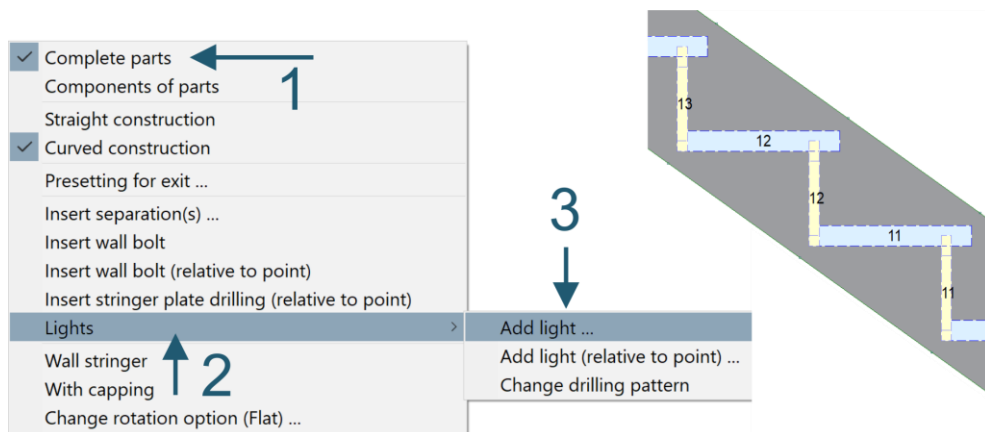
7.1 Insert Spotlights Freely

Open the height construction with the desired stringer, to insert lights freely with your mouse into the stringer.

Important! Lights can only be selected in combination with the construction type **Complete parts** (1).

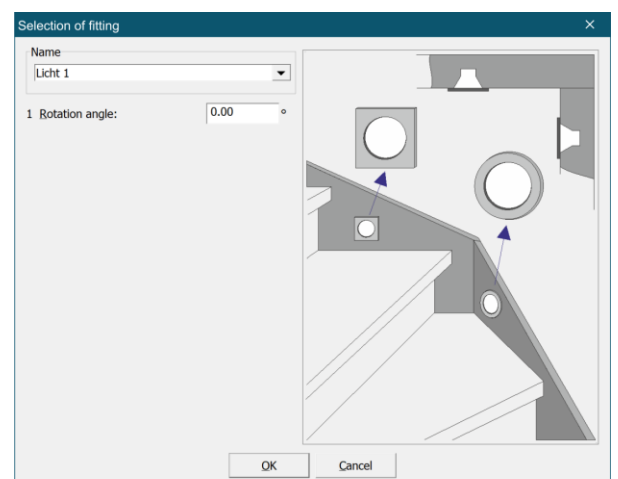
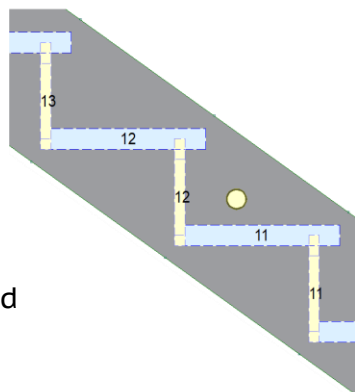
Select the upper or lower stringer with a right click.

In the menu select **Lights** (2) and then **Add light** (3).



In this menu please check the desired light drilling part box (which you had entered in the drilling pattern tree) and confirm by clicking **Ok**.

Now move the mouse to the desired position on the stringer and click left to insert the first light. Now go to the next position and set the next light, etc.



Complete the process with **ESC**.

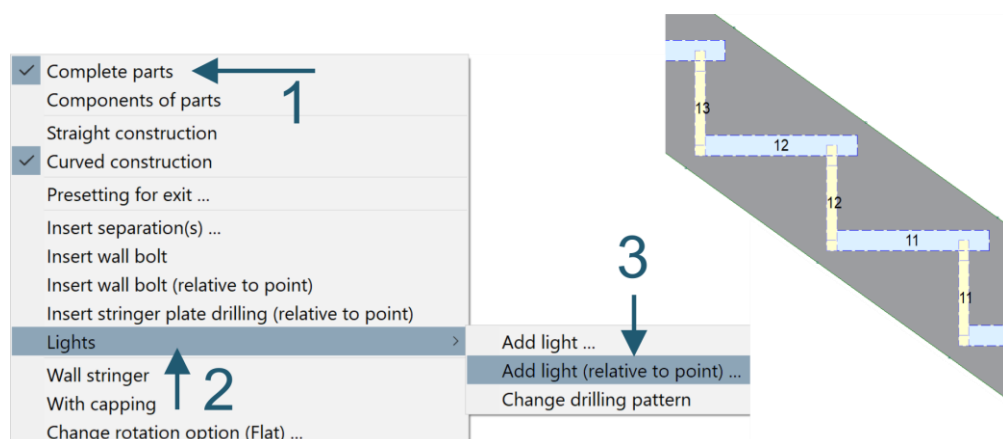
7.2 Insert Spotlights in Relation to Other Parts

To insert lights in relation to other parts into the stringer, open the height construction with the desired stringer.

Important! Lights can only be selected in combination with the construction type **Complete parts** (1).

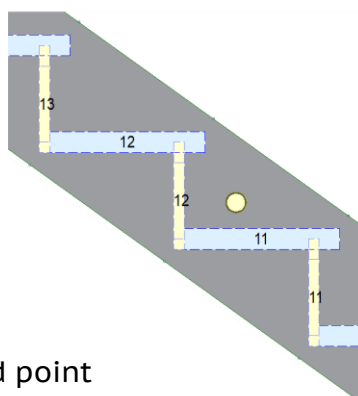
Select the upper or lower stringer with a right click.

In the menu select **Lights** (2) and then **Add light (relative to point)** (3).



In this menu please check the desired **light drilling part** (1) box (which you had entered in the drilling pattern tree) and confirm by clicking **Ok**.

The mouse will now appear as a cross. While moving the mouse over the stringer, the cross will jump to the nearest part.

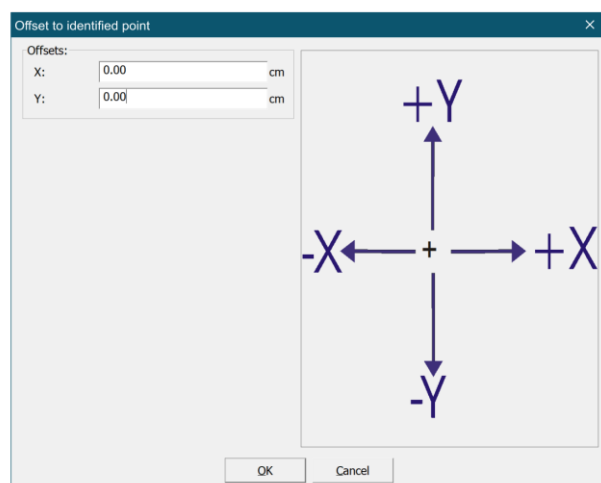
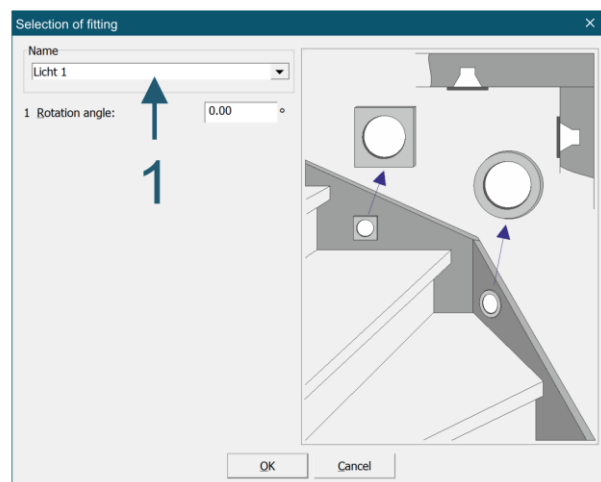


Through this select the desired point of reference and confirm with a click.

A menu appears. Please enter the desired distances (horizontal and vertical to the light center) and save with the **Ok** button.

Repeat the process if you wish to insert further lights.

Complete the process with **ESC**.



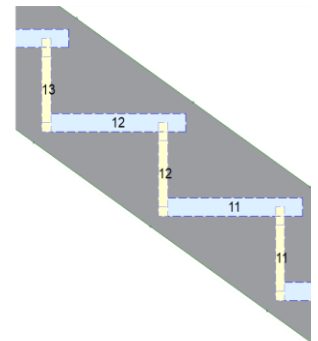
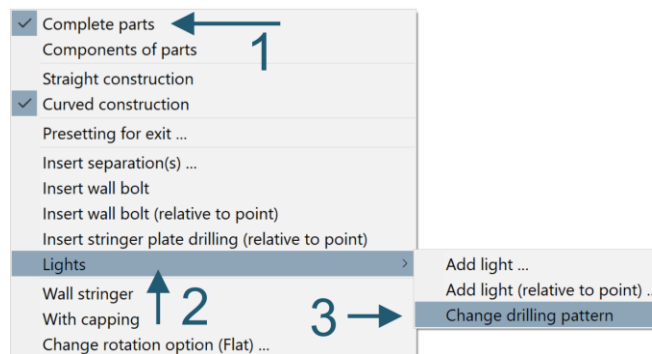
7.3 Insert Spotlights via Drilling Patterns

To insert lights into a stringer via a drilling pattern or to edit an already existing pattern, open the height construction of the desired stringer.

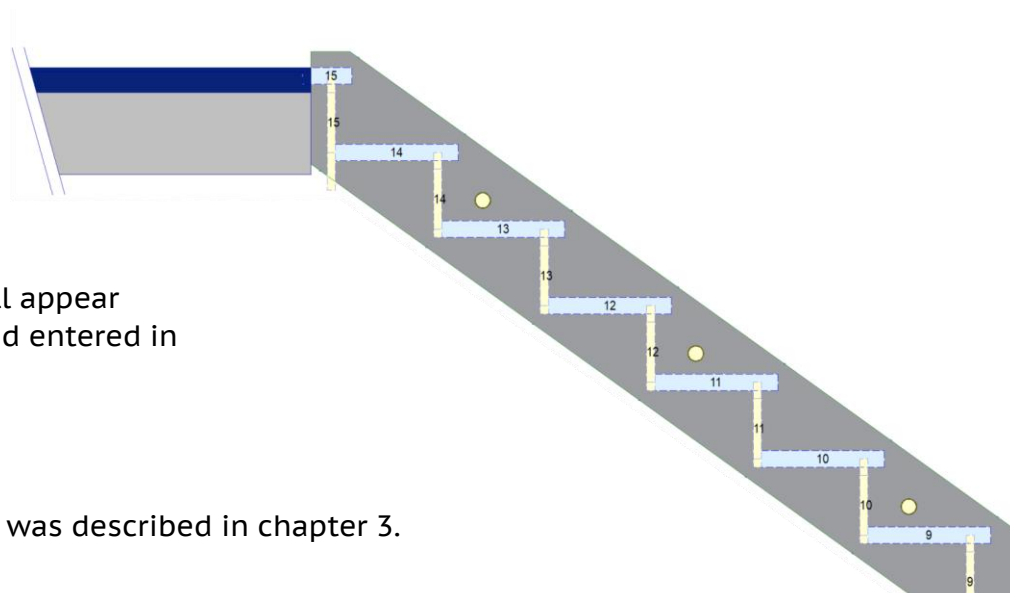
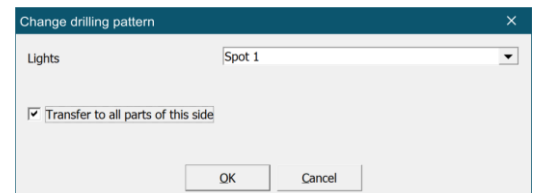
Important! Lights can only be selected in combination with the construction type **Complete parts** (1).

With a right click select the upper or lower edge of the stringer.

In the menu select **Lights** (2) and then **Change drilling pattern** (3).



In this menu select the desired drilling pattern in the drop down menu or if the drilling pattern already exists, choose the new desired pattern and confirm with **Ok**.



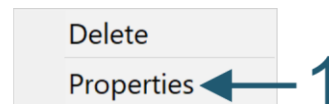
The chosen drilling pattern will appear with the settings which you had entered in the drilling pattern tree.

How to create drilling patterns was described in chapter 3.

7.4 Edit Spotlights

To edit lights click on the light you wish to edit. Open the menu with a right click.

Please select **Properties** (1).



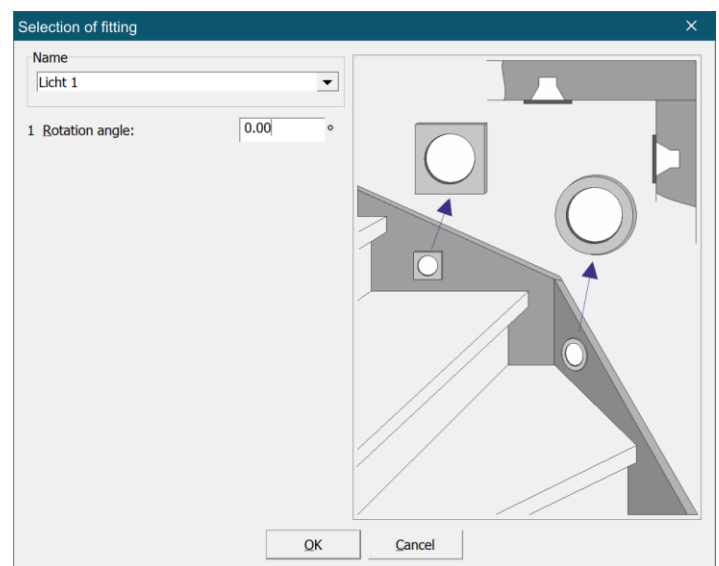
Another menu will appear.

There you will be able to select the new desired light in the drop down menu.

Of course this is only possible if you have already defined several lights in the drilling pattern tree.

To do this see chapter 3 (Create Drilling Patterns for Lights).

To change coordinates is only possible via deleting and inserting new.



7.5 Delete Spotlights

To delete a light select the light with a right click.

By clicking **Delete** (1) you will delete the light.

