

GEBERIT PROPLANNER 2025

# **TRAINING MANUAL**

## DETAILED PLANNING 3D

**KNOW  
HOW**  
INSTALLED

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# TABLE OF CONTENTS

<b>1 About this document .....</b>	<b>5</b>
1.1 Characters and symbols .....	5
<b>2 User interface .....</b>	<b>6</b>
2.1 Walls and Installation Walls Window.....	7
2.2 Drawing area.....	7
2.3 Importing Installation Walls Window .....	7
2.4 Layer window .....	7
2.5 Favourites Window.....	7
2.6 Dimensions Window.....	7
2.7 Objects Window .....	8
2.8 Building window .....	8
2.9 Message list window .....	9
2.10 Wizards and settings window.....	9
2.11 Front view and 3D view windows .....	10
2.12 Article Information Window .....	10
2.13 Project window .....	11
2.14 Toolbars .....	12
2.14.1 General toolbar .....	12
2.14.2 Detailed planning 3D toolbar.....	13
2.14.3 Preview toolbar .....	14
2.15 Navigating in the floor plan, front view and 3D view .....	14
<b>3 Preparation .....</b>	<b>15</b>
3.1 Creating a new project .....	15
3.1.1 Entering project data.....	16
3.1.2 Adapting building and calculation settings .....	16
3.2 Adapting the user interface .....	21
<b>4 Detailed planning 3D planning example .....</b>	<b>22</b>
4.1 Creating an installation wall with quick entry.....	22
4.1.1 Selecting an Installation Unit.....	22
4.1.2 Adapting Calculation Settings .....	23
4.1.3 Using the Quick Entry .....	25
4.1.4 Working with Your Planning Example.....	33
4.1.5 Defining the Paper Format and Drawing Scale.....	52
4.2 Planning a complex room.....	56
4.2.1 Selecting an Installation Unit.....	56
4.2.2 Adapting Calculation Settings .....	57
4.2.3 Hiding the Drawing Frame .....	59
4.2.4 Drawing Rooms, Doors and Windows .....	59
4.2.5 Drawing Prewalls and Room Separators .....	67
4.2.6 Placing Objects .....	75
4.2.7 Dimensioning the Planning Example .....	95
4.2.8 Defining the Paper Format and Drawing Scale.....	96
4.2.9 Saving the planning example as a 3D AutoCAD .....	97
4.3 Reproducing a room on an imported plan .....	99
4.3.1 Selecting an installation unit .....	99
4.3.2 Hiding the drawing frame .....	99
4.3.3 Importing CAD plans.....	99
4.3.4 Drawing rooms.....	103
4.3.5 Inserting objects.....	111
4.3.6 Hiding CAD plans.....	112
4.4 Room with roof pitch .....	113
4.4.1 Creating a room .....	113

4.4.2	Importing a room .....	114
4.4.3	Inserting roof pitches.....	115
4.4.4	Adapting roof pitches .....	116
4.4.5	Showing roof pitches in the front view .....	117
4.4.6	Inserting Duofix walls .....	118
4.4.7	Displaying roof pitches in the 3D view .....	120
4.4.8	Mirroring rooms .....	121
<b>5</b>	<b>Keyboard shortcuts .....</b>	<b>123</b>
5.1	General .....	123
5.2	Detailed planning 3D .....	124
<b>6</b>	<b>Overview of planning examples .....</b>	<b>126</b>
6.1	Small bathroom .....	126
6.2	Large bathroom .....	127
6.3	Treatment room.....	128
6.4	Attic floor .....	129

# 1 ABOUT THIS DOCUMENT

Use this Training Manual during training but also to repeat what you have already learned.







You will learn how to work with Geberit ProPlanner with the aid of planning examples.

The topics at a glance:

- User interface with toolbars
- Planning examples
- Keyboard shortcuts

## 1.1 Characters and symbols

The following characters and symbols are used in this training manual:

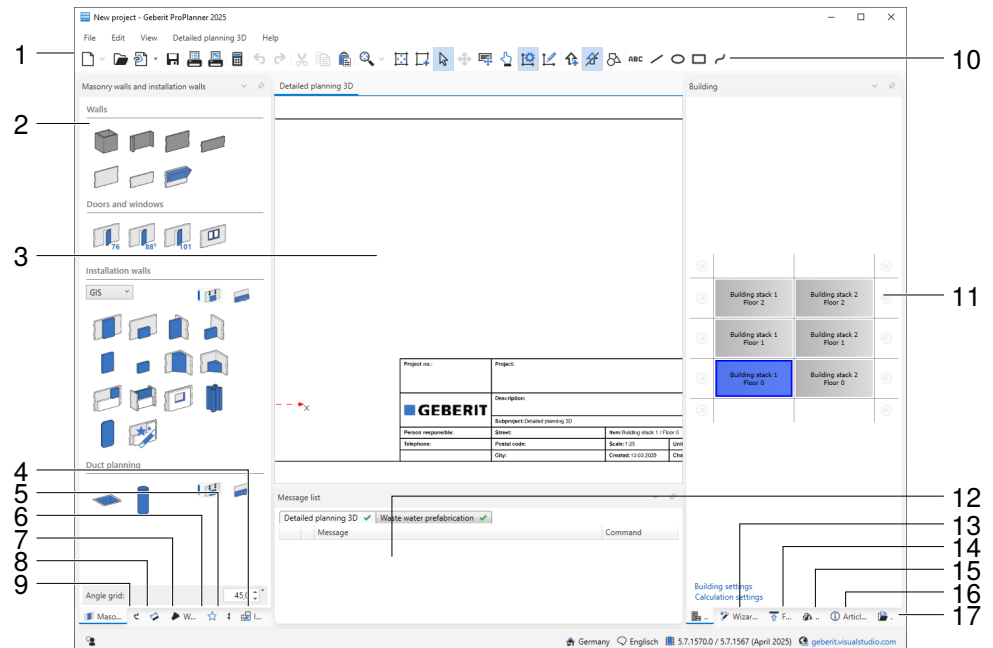
Symbol	Designation	Meaning
	Info	Reference to additional information on the subject under Help or in another training manual
	Hint	Hint for an easier or better approach
	Note	Basic information on a specific procedure
	Action	Instruction for action consisting of only one step
		Instruction for action consisting of several steps
	Result	Result of an action



Find further information using the **Help** menu or by pressing **F1**.

## 2 USER INTERFACE

The following window appears once you have created a new project with the Detailed planning 3D subproject:



- 1 General toolbar (see "General toolbar", page 12)
- 2 **Masonry walls and installation walls** window
- 3 Drawing area
- 4 **Import installation walls** window
- 5 **Layer** window
- 6 **Favourites** window
- 7 **Waste water prefabrication** window
- 8 **Dimensions** window
- 9 **Objects** window
- 10 Detailed planning 3D toolbar (see "Detailed planning 3D toolbar", page 13)
- 11 **Building** window
- 12 **Message list** window
- 13 **Wizards and settings** window
- 14 **Front views** window
- 15 **3D view** window
- 16 **Article information** window
- 17 **Project** window

## 2.1 Walls and Installation Walls Window

The **Masonry walls and installation walls** window contains objects and functions for the planning of masonry and installation walls with Geberit GIS and Geberit Duofix. Individual drawing modes can be defined for the objects.

## 2.2 Drawing area

Produce your plan for masonry and installation walls (Geberit GIS, Geberit Duofix) in the drawing area. The following commands are possible:

- Import figure or CAD plan
- Create rooms and walls
- Insert doors and windows
- Insert objects
- Edit rooms, walls and objects
- Import walls from installation systems
- Create walls with the Installation wall quick entry bar

## 2.3 Importing Installation Walls Window

You can import and edit installation walls created with the Installation systems module.

## 2.4 Layer window

You can define the visualisation in the drawing area in the **Layer** window.

As soon as you use figures or CAD plans in your planning, the **Images and CAD plans** area also appears, in which you can manage figures and CAD plans.

## 2.5 Favourites Window

The **Favourites** window contains all objects that have been saved as Favourites.

## 2.6 Dimensions Window

The plan can be measured in various styles.

## 2.7 Objects Window

The **Objects** window contains sanitary objects, such as bathtubs, washbasins and WCs, as well as additional objects with which installations can be planned. The objects are shown as standard with large symbols in the **Objects** window.

You can select between the following views in the pop-up window:

- **Large symbols**
- **Tree**
- **Dropdown**

## 2.8 Building window

The building in the **Building** window comprises floors, building stacks and installation units and can be extended as required.

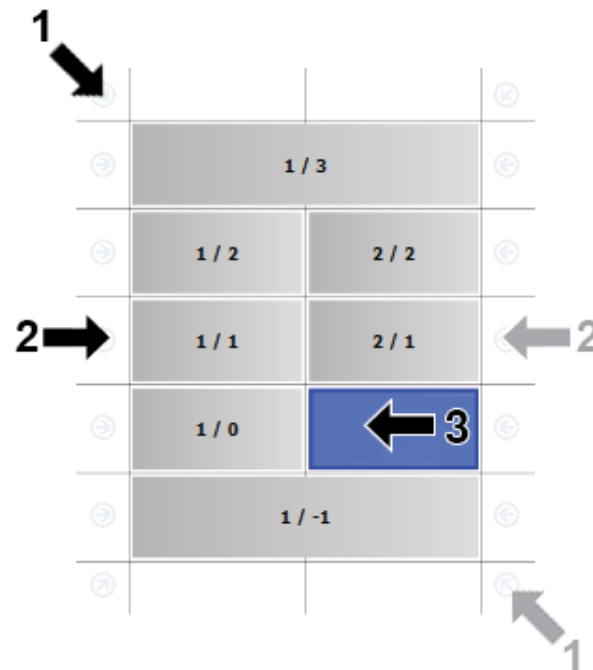
An installation unit is the smallest unit, in which it is possible to plan and for which a material list can be created. The installation unit can contain one or several rooms.

The plan of the installation unit highlighted in the **Building** window is shown in the working area. As soon as objects have been placed in the installation unit, the installation unit appears light-blue in the building.

Use the respective links to access the **Building settings** and the **Calculation settings**.

If you need to, you can alter the building structure using the pop-up menu and add or remove floors etc.

The following figure shows the position at which areas can be highlighted:



- 1 Area for highlighting the building
- 2 Area for highlighting a floor
- 3 Area for highlighting an installation unit



To retain an overview in the building, you can zoom into the building in the **Building** window by turning the mouse wheel.

## 2.9 Message list window

Depending on the calculation, the **Message list** window displays a report that contains the calculation errors, warning notes and information. Error messages are displayed with a red symbol and warnings with a yellow symbol. Information does not have a symbol. The messages for Detailed planning 3D and Waste water prefabrication can be called up using the various tabs.

The same messages are displayed grouped together. Clicking on ► shows all grouped messages.





- Clicking on the error message enlarges the fault in the drawing area and highlights it in a colour corresponding to the degree of severity.
- Errors can be corrected in the message list using the **Command** column or the tool tip in the drawing area.

## 2.10 Wizards and settings window

Select the following functions in the **Wizards and settings** window:

- Enter project data and subproject data
- Define building and calculation settings
- Define module settings for Detailed planning 3D

## 2.11 Front view and 3D view windows

Window	Function
	<b>Front view</b> Shows the front view of the view selected. Gives an overview of the profiles and dimensions required. <ul style="list-style-type: none"> <li>• Zoom: Rotate the mouse wheel forwards or backwards or press the <b>W</b> and <b>S</b> keys</li> <li>• Move: Move the mouse while holding down the mouse wheel</li> </ul>
	<b>3D view</b> Gives a spatial impression of the planning. <ul style="list-style-type: none"> <li>• Zoom: Rotate the mouse wheel forwards or backwards or press the <b>W</b> and <b>S</b> keys</li> <li>• Rotate: Move the mouse while holding down the right mouse key</li> <li>• Move: Move the mouse while holding down the mouse wheel</li> </ul>

## 2.12 Article Information Window

As soon as a subproject has been calculated, you can call up views, dimensional sketches and installation manuals for articles from the Geberit product range in the **Article information** window. If available, you can call up installation videos on YouTube via a link. You need to be connected to the internet for this.

You can obtain the following information:

- Photo and drawing of a selected article
- Dimensional sketches
- Link to the Geberit product catalogue
- Installation manual and installation notes in PDF format
- ZIP file with CAD drawing in DWG or DXF format
- Links to YouTube videos

## 2.13 Project window

The **Project** window displays the project currently open with its subprojects.

You can select the following functions in the **Project** window:

- Enter project data and subproject data
- Add, delete subprojects etc.
- Import subprojects from other projects



Access additional information under Help at **Detailed planning 3D > User interface**.

---

## 2.14 Toolbars



### 2.14.1 General toolbar

All basic functions of Geberit ProPlanner can be called up via the general toolbar.
















Deactivated buttons appear light-grey.

Button	Command
	Create a new project
	Open an existing project
	Add a subproject
	Save a project
	Show/print lists
	Show/print graphics
	Calculate a subproject
	Undo the last command
	Redo an undone command
	Cut an object and copy it to the clipboard
	Copy an object to the clipboard
	Paste an object from the clipboard
	Zoom into the drawing frame
	Extend a drawing
	Reduce a drawing
	Zoom in to all objects
	Select a zoom area with the mouse

Button	Command
	Adapt the drawing frame to the drawing
	Add a drawing frame












### 2.14.2 Detailed planning 3D toolbar

The following functions are available for the Detailed planning 3D module:

Button	Command
	Select objects
	Move object
	Move infotexts and dimensions
	Move drawing area
	Automatically assign reference point
	Set reference point
	Add front view
	Display front view arrows
	Import figure or CAD plan
<b>ABC</b>	Insert text
	Insert line
	Insert ellipse
	Insert rectangle
	Insert cotter pin

### 2.14.3 Preview toolbar

The following functions are available in the preview of the **Quick entry** window:

Button	Command
	Display floor plan
	Display front side
	Display rear
	Display left wall side
	Display right wall side
	Zoom in to all objects
	Zoom in
	Zoom out
	Select objects You can use the arrow keys to move highlighted objects a centimetre at a time. Simultaneously pressing and holding down <b>CTRL</b> allows you to move highlighted objects a millimetre at a time.
	Move drawing area
	Display dimension lines Pressing and holding down the mouse key lets you move dimension lines.

## 2.15 Navigating in the floor plan, front view and 3D view

Navigate as follows in the floor plan, in the front view and in the 3D view:

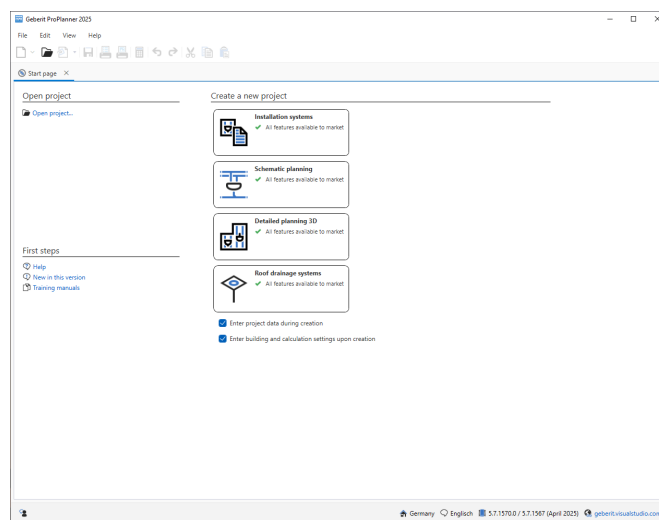
Function	View	
	Floor plan/Front view	3D view
Enlarge or reduce view	Turn the mouse wheel or press the <b>W</b> or <b>S</b> key.	
Move the view	Move the mouse while holding down the mouse wheel.	Move the mouse while holding down the mouse wheel. - or - Move the mouse while holding down the left mouse key.
Turn the view	—	Move the mouse while holding down the right mouse key.

## 3 PREPARATION

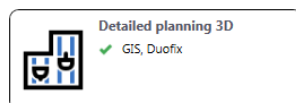
All the examples in this training manual should be created in a Geberit ProPlanner file. To do so, first create a new project by way of preparation. Then adapt the building and name the installation units.

### 3.1 Creating a new project

1. Start Geberit ProPlanner.  
✓ The Geberit ProPlanner home page appears.

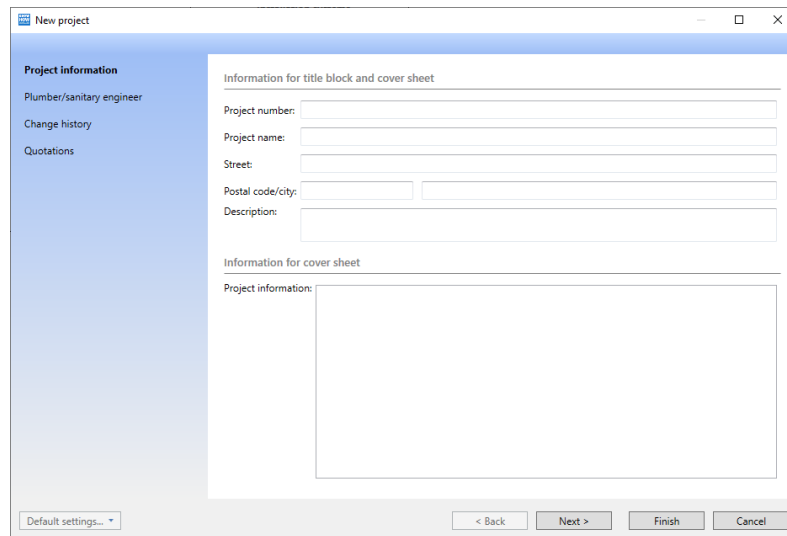


2. Make sure that **Enter project data during creation** and **Enter building and calculation settings upon creation** are activated.  
☒ Enter project data during creation  
☒ Enter building and calculation settings upon creation
3. Create a new project by clicking on Detailed planning 3D.



- ✓ The **New project** window appears.

### 3.1.1 Entering project data



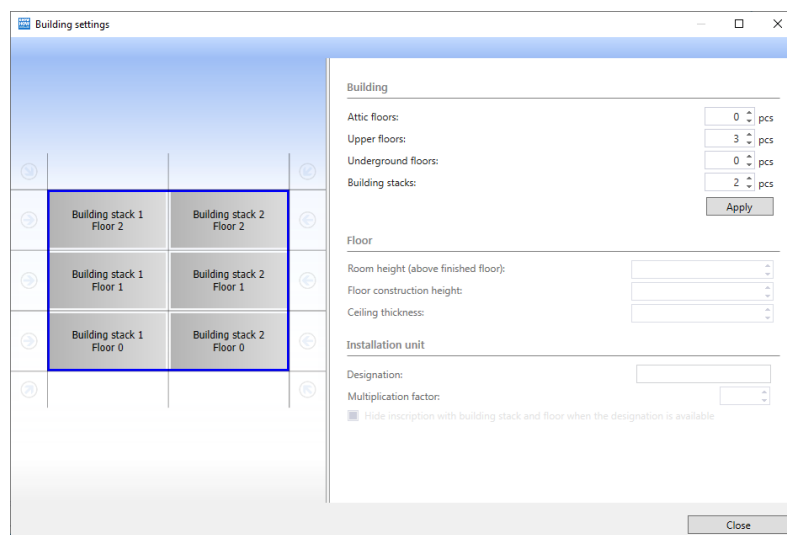
- Enter the required information and confirm with **Finish**.
  - ✓ The **New project** window is closed and the **Building settings** window appears.



More information on creating projects and subprojects is available in the training manual **Installation and basic functions** and in the Help at **Basics > Projects and subprojects**.

### 3.1.2 Adapting building and calculation settings

#### 3.1.2.1 Defining the building size



1. Define the number of floors as follows in the **Building** area:
  - **Attic floors:** 0
  - **Upper floors:** 4
  - **Underground floors:** 0
  - **Building stacks:** 1

2. Confirm your entries with **Apply**.

The 'Building settings' dialog box is shown. The left pane displays a building stack diagram with four levels: 'Building stack 1 Floor 3', 'Building stack 1 Floor 2', 'Building stack 1 Floor 1', and 'Building stack 1 Floor 0'. The right pane contains the following settings:

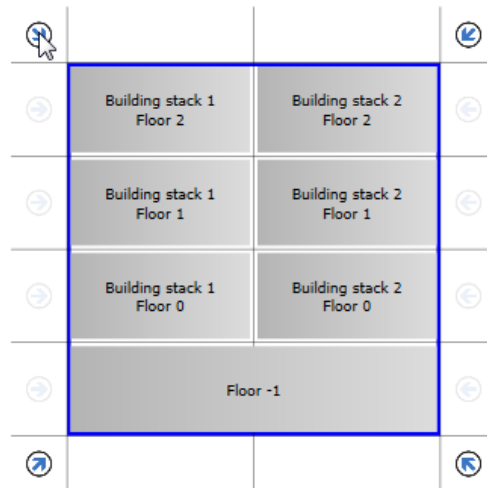
- Building**
  - Attic floors: 0 pcs
  - Upper floors: 4 pcs
  - Underground floors: 0 pcs
  - Building stacks: 1 pcs
  - Apply** button
- Floor**
  - Room height (above finished floor): [input field]
  - Floor construction height: [input field]
  - Ceiling thickness: [input field]
- Installation unit**
  - Designation: [input field]
  - Multiplication factor: [input field]
  - ☒ Hide inscription with building stack and floor when the designation is available

A 'Close' button is located at the bottom right of the dialog.

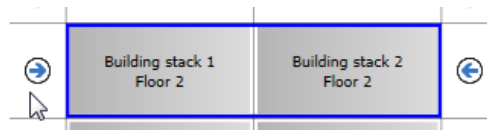
### 3.1.2.2 Selecting the Building, Floors and Installation Units

The building in the **Building settings** window and in the **Calculation settings** window consists of floors, building stacks and installation units.

Click on one of the arrows at the corners of the building to select the complete building.



Click on one of the arrows on the right or left beside the floor to select a floor.



Click on the installation unit to select an installation unit.



You can simultaneously select several installation units or floors by pressing **CTRL** at the same time.

### 3.1.2.3 Naming installation units

1. Highlight the installation unit **Building stack 1 Floor 0**.
2. Enter **Small bathroom** as the label in the **Designation** field in the **Installation unit** area.
3. Activate **Hide inscription with building stack and floor when the designation is available** to hide the existing labels.

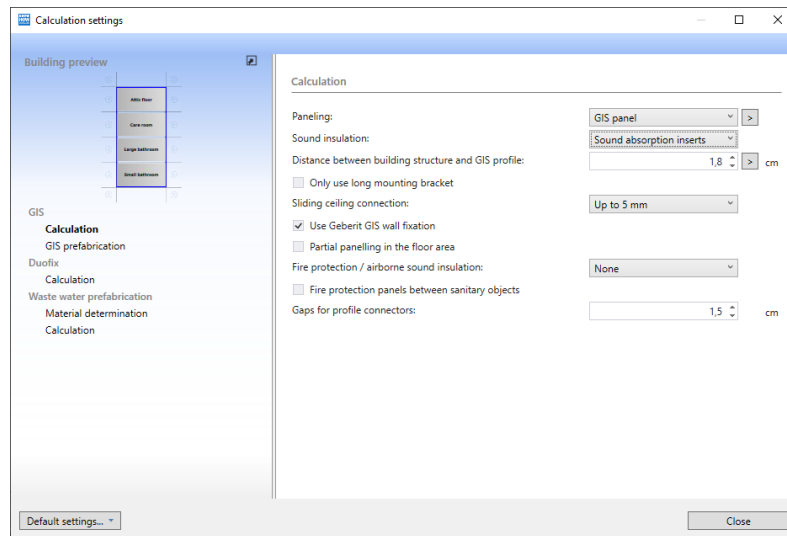


4. Name all the other installation units in this way as follows:



5. Click on **Close** to apply the settings.
  - ✓ The **Calculation settings** window appears.

### 3.1.2.4 Defining calculation settings



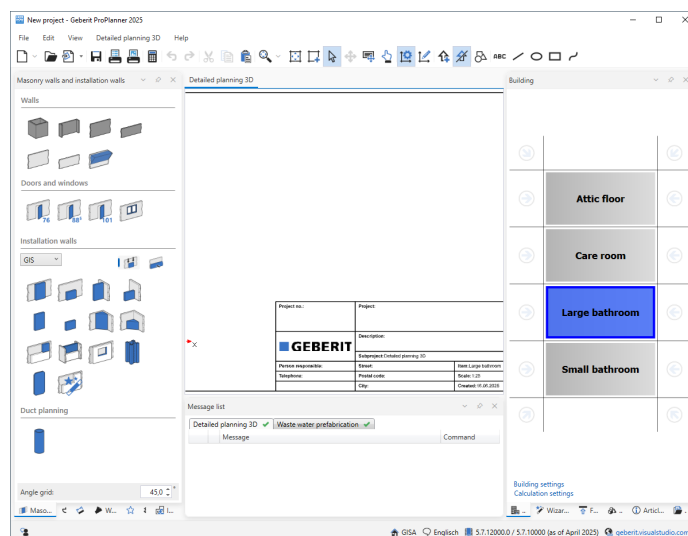
The settings in the **Calculation settings** window apply to the entire building complete with all floors and installation units. You can define different properties for the single floors and installation units, if need be. To do this, highlight the required floor or installation unit and enter the settings. The settings of the building and the settings of other floors and installation units are retained.

The default settings are retained for these training examples and can be adapted, as required, for the respective installation unit at the start of the training examples.



You can define the settings as default settings using the **Default settings** button if you wish to use the settings for other subprojects.

- Click on **Close** to apply the settings.
- ✓ The detailed planning view appears.



## 3.2 Adapting the user interface

We recommend using the **Default window arrangement 1** when working with this training manual.



---

Find out in the **Installation and basic functions** training manual or under Help at **Basics > Window layout** how to call up and adapt this window layout.

---

## 4 DETAILED PLANNING 3D PLANNING EXAMPLE

Use the Detailed planning 3D module to plan Geberit installation walls with objects, such as washbasins, shower trays, WCs or bathtubs. You can also insert wall/floor openings, like windows and doors. You have the option of using a floor plan, front view or 3D view. Draw Geberit Duofix and Geberit GIS installation walls and import image files as a template.

With the aid of four planning examples, learn in steps how to create installations using Detailed planning 3D. The first example is a simple installation with an installation wall and 3 objects. This installation is created using the Installation wall quick entry. Then you will learn how to dimension an installation.

The second planning example is a complete installation. The arrangement of the walls of the room are drawn and you will also learn how to insert doors and windows. Then you will design several room dividers and prewalls, both room-height and part-height, free-standing and incorporating corners. Finally you will place some objects, such as a bathtub and a WC.

In the third planning example you will create a plan based on an imported CAD plan. You will learn how to import the CAD plan, draw walls and place objects.

Create a room with a roof pitch in the fourth planning example. You will create a mirrored copy of the room at the end of the training example.

### 4.1 Creating an installation wall with quick entry

This chapter covers the following topics:

- Creating installation walls using the Installation wall quick entry
- Placing objects
- Adapting objects
- Dimensioning drawings

A graphic visualisation of the planning example can be found at the end of the training manual (see "Small bathroom", page 126).

#### 4.1.1 Selecting an Installation Unit



1. Show the **Building** window.
2. Select the **Small bathroom** installation unit.



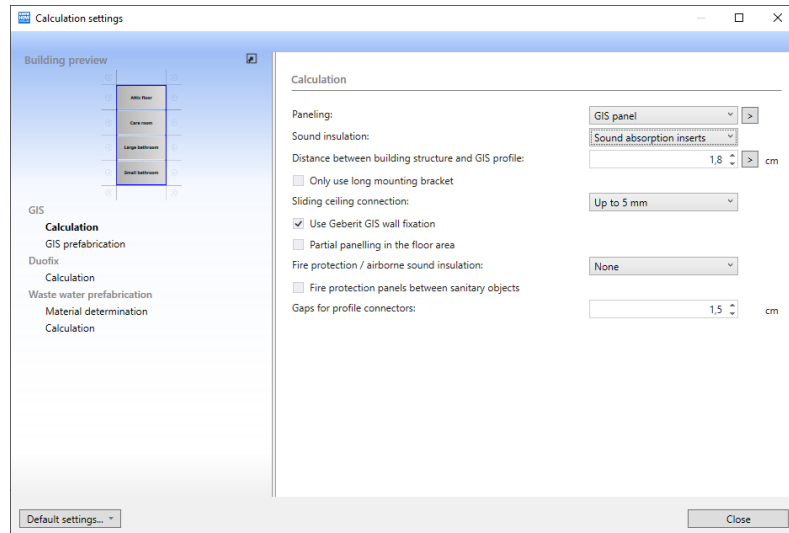
### 4.1.2 Adapting Calculation Settings

The calculation settings are adapted at the start of planning.

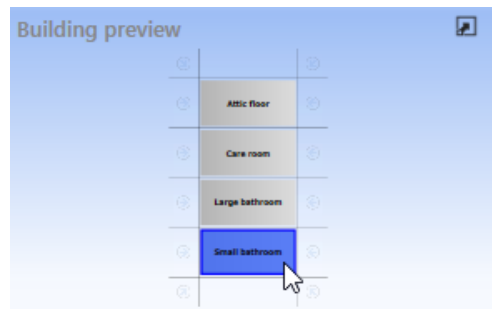


1. Click on the **Calculation settings** link in the **Building** window.

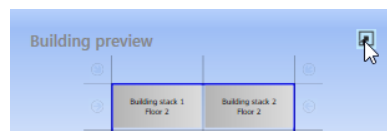
✓ The **Calculation settings** window appears.



2. Mark the **Small bathroom** installation unit in the **Building preview** area.



If you need to, you can enlarge the **Building preview** by clicking on the symbol **Enlarge building**.

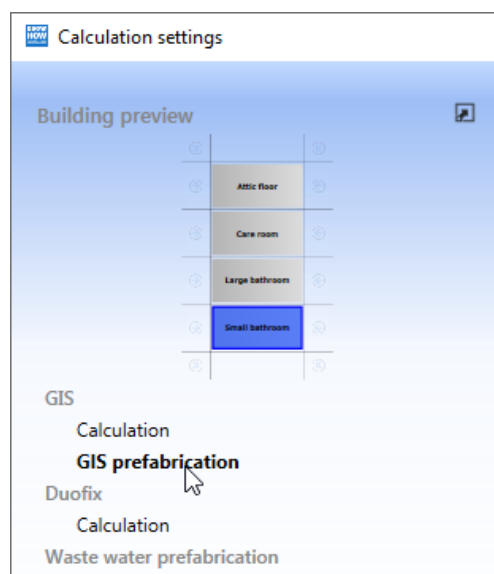


3. Select the **Paneling** with **GIS panel** and the **Sound insulation** with **Sound absorption inserts** in the **Calculation** area.

Calculation

Paneling:	GIS panel	>
Sound insulation:	Sound absorption inserts	
Distance between building structure and GIS profile:	1,8	> cm
<input type="checkbox"/> Only use long mounting bracket		
Sliding ceiling connection:	Up to 5 mm	
<input checked="" type="checkbox"/> Use Geberit GIS wall fixation		
<input type="checkbox"/> Partial panelling in the floor area		
Fire protection / airborne sound insulation:	None	
<input type="checkbox"/> Fire protection panels between sanitary objects		
Gaps for profile connectors:	1,5	cm

4. Click on **GIS prefabrication** under **GIS**.



5. Deactivate **Prefabricate** in the **GIS prefabrication** area.

GIS prefabrication

<input type="checkbox"/> Prefabricate	
Maximum wall segment dimension 1:	260,0 cm
Maximum wall segment dimension 2:	130,0 cm

6. Click on **Close** to apply the settings.

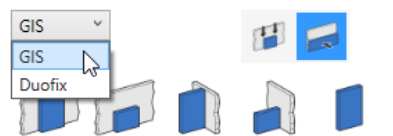
### 4.1.3 Using the Quick Entry

Create an installation wall with the **GIS** and **Duofix** tools or the installation wall quick entry. Use the installation wall quick entry to plan an installation wall including objects and then insert it into the drawing area. The use of the **GIS** and **Duofix** tools will be explained in the planning example "Planning a complex room".

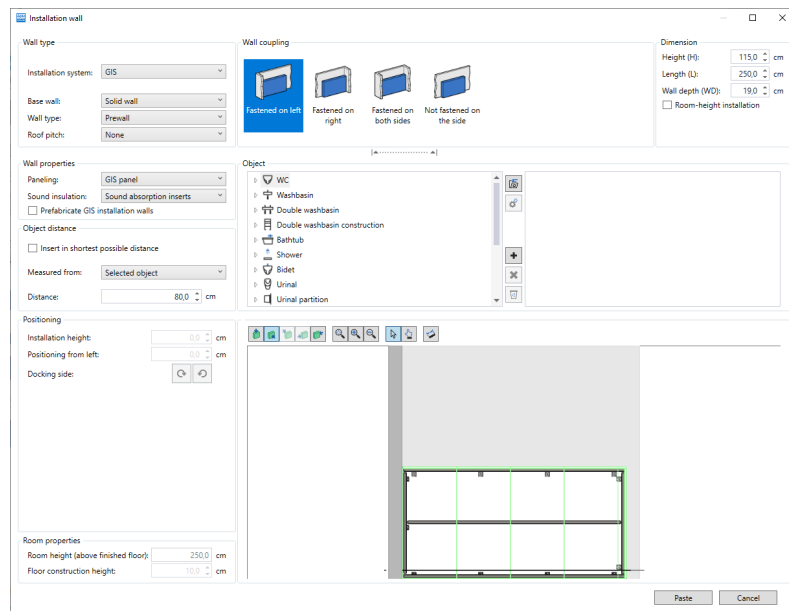


1. Show the **Masonry walls and installation walls** window.
2. Select the **GIS** installation system in the **Installation walls** area.

Installation walls



3. Click on **Installation wall quick entry** in the **Installation walls** area.  
✓ The **Installation wall quick entry** window appears.

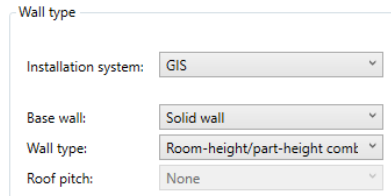


- ✓ The quick entry window includes different areas, such as **Wall type** and **Wall coupling**, which you can use to plan an installation wall in steps. The choice of a wall type affects the visualisation of the wall coupling and the input options for the dimensions. Therefore always adhere to the following principle when planning: **from left to right and from top to bottom**. This procedure will become clear in the following example.

#### 4.1.3.1 Selecting the Wall Type

Specify the details of the installation wall in the **Wall type** area. Apart from the wall type, you can also select an installation system (Geberit GIS or Geberit Duofix) and the material of the base wall (solid wall or lightweight wall).

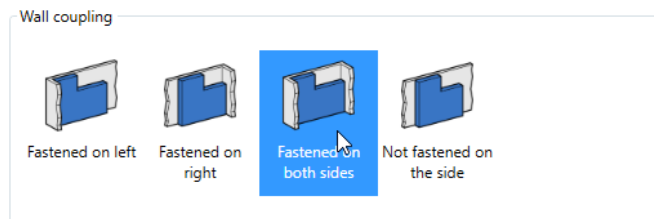
- Select the required **Room-height/part-height combination** wall type.



#### 4.1.3.2 Selecting the Wall Coupling

Select how the installation wall is to be fastened to the masonry in the **Wall coupling** area.

- Select the **Fastened on both sides** wall coupling.




#### 4.1.3.3 Entering the Dimensions of the Installation Wall

Specify the height of a part-height wall and the length and depth of part-height and room-height installation walls in the **Dimension** area. The overall height comes from the room height set in the Building properties. The field is marked in grey.

With combined wall types, you also need to select the side of the room-height wall section.



You can call up the data sheets in a PDF format via the Info symbol . The data sheets contain information on dimensioning the selected installation wall, for example the minimum prewall and room separator depths.


The information symbol is not available in all markets.

1. Select the following dimensions for the installation wall in the **Dimension** area:
  - **Height (H)** of the **Part wall**: 120 cm
  - **Length (L)** of the entire wall: 345 cm
  - **Length (L)** of the **Part wall**: 265 cm
  - **Wall depth (WD)**: 19 cm

2. Select **Right** in the **Room-height wall section** field.

Dimension		
	Total	Part wall
Height (H):	250,0	120,0
Length (L):	345,0	265,0
Wall depth (WD):	19,0	
Room-height wall section:	Right	



Use the  button between the **Wall coupling** and **Object** areas to show and hide the **Wall type**, **Wall coupling** and **Dimension** areas. The wall preview is extended when you hide the top part.

#### 4.1.3.4 Entering the Object Distance

Enter the distance from the edge of the installation wall or from the object respectively in the **Object distance** area. The distance between objects is determined using the central axes of the objects.

If the **Insert in shortest possible distance** checkbox is selected, the objects are placed with the smallest possible distance defined in Geberit ProPlanner. In this case, the plan does not correspond to the conditions on site but is exclusively used for material determination. You can freely select the distance providing the **Insert in shortest possible distance** checkbox is deactivated.

Specify in the **Measured from** field whether the distance of the object is to be measured from the left or right wall. If you activate an object placed in the installation wall, the distance can also be measured from this object.

1. Deactivate **Insert in shortest possible distance**.
2. Select **Left-hand side of the wall** in the **Measured from** field.
3. Enter 90 cm as the **Distance** for the first object.

Object distance	
<input type="checkbox"/> Insert in shortest possible distance	
Measured from:	Left-hand side of the wall
Distance:	90,0 cm

#### 4.1.3.5 Inserting a washbasin and WC

Objects that you can place on the installation wall are listed in the **Object** area.

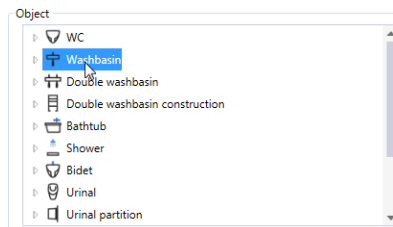
By double-clicking on the uppermost level in the directory tree, you automatically add the default element from the object group (bathtub, bidet, washbasin etc.). Expand the tree structure using the triangle ▶ in front of the entry and select a specific object.



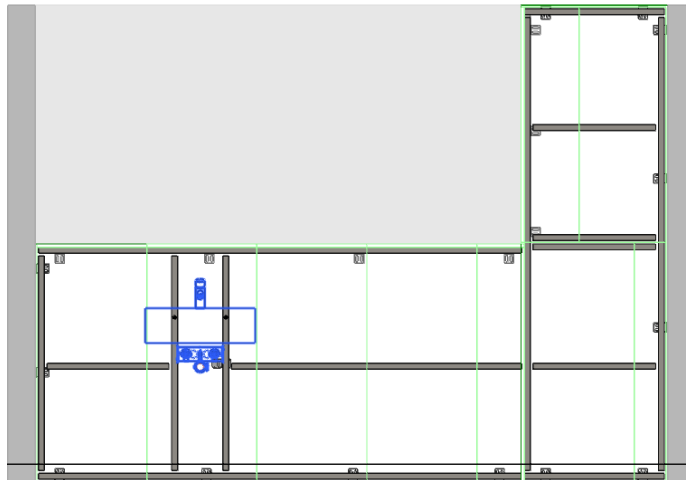
The default object is market-dependent. The figures shown here can therefore differ from your view in Geberit ProPlanner.

The first layer default objects are selected below in each case for the washbasin and the WC.

1. Highlight the **Washbasin**.

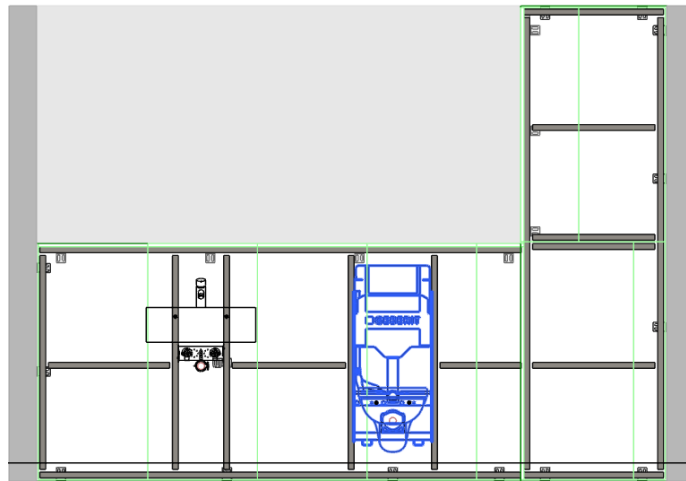


2. Click on **Insert object in installation wall**.



3. Make sure that the washbasin is highlighted.
4. Select **Selected object** in the **Measured from** field to place the WC beside the blue highlighted washbasin.
5. Enter 105 cm as the **Distance**.

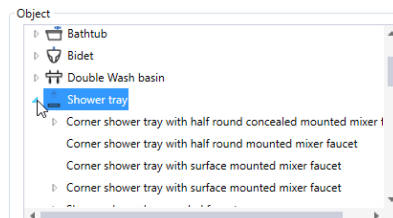
6. Double-click on the **WC** in the **Object** area to insert the WC into the installation wall.



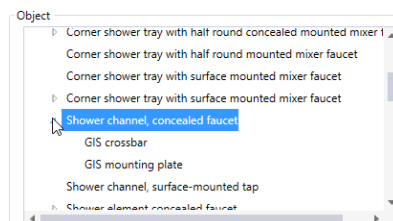
#### 4.1.3.6 Inserting a shower

Insert a shower channel instead of the standard shower in the following step.

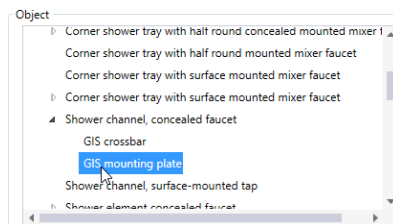
1. Select **Right-hand side of the wall** in the **Measured from** field.
2. Enter 40 cm as the **Distance**.
3. In the **Object** area, click on the triangle ▶ beside the Shower tray to open up the directory tree.



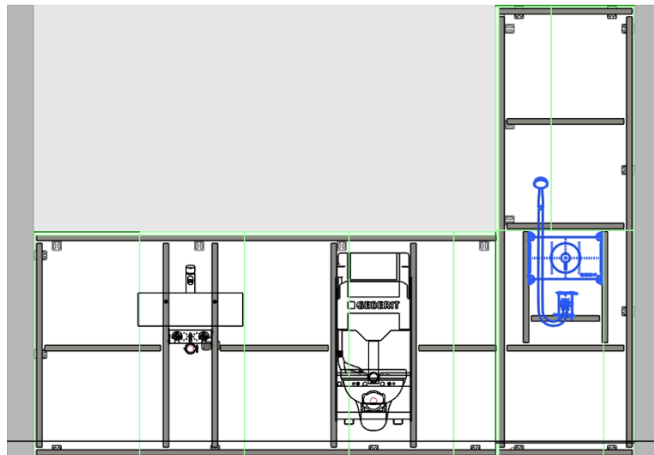
4. Open the directory tree below the **Shower channel, concealed faucet**.



5. Double-click on **GIS mounting plate**.



✓ The shower is inserted.

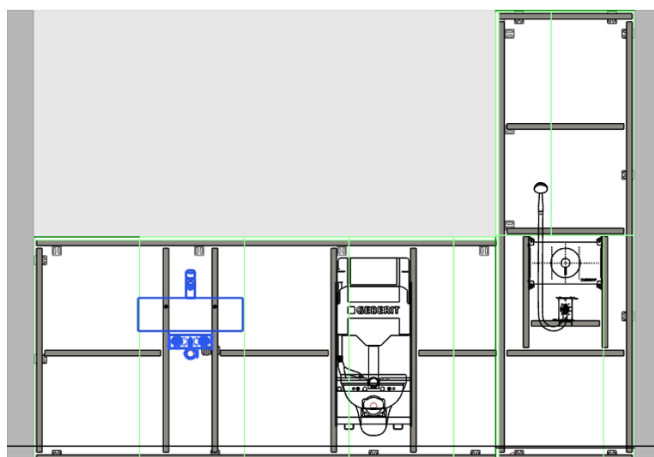


Additional information can be found under Help at **Detailed planning 3D > Installation wall quick entry** and in the **Installation systems** training manual.

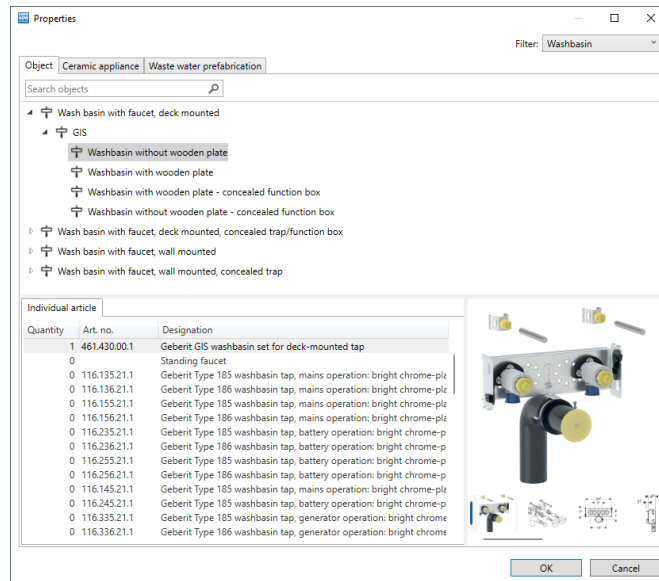
4.1.3.7 Adapting the washbasin

You can subsequently change the inserted objects if you need to. The configuration of the washbasin is to be adjusted below.

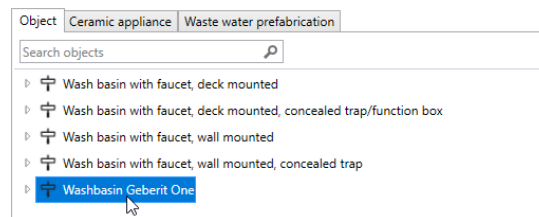
1. Mark the washbasin in the preview.



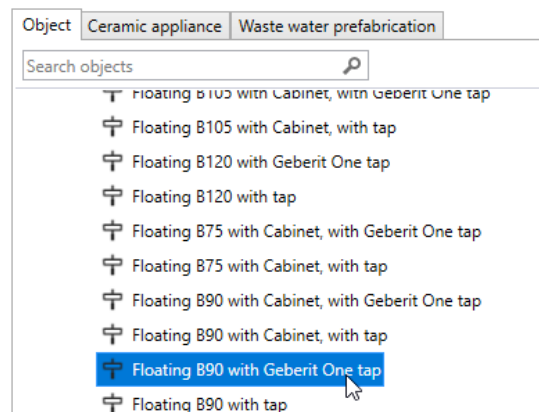
2. Right-click on the washbasin and select **Properties** in the pop-up menu.  
✓ The **Properties** window appears.



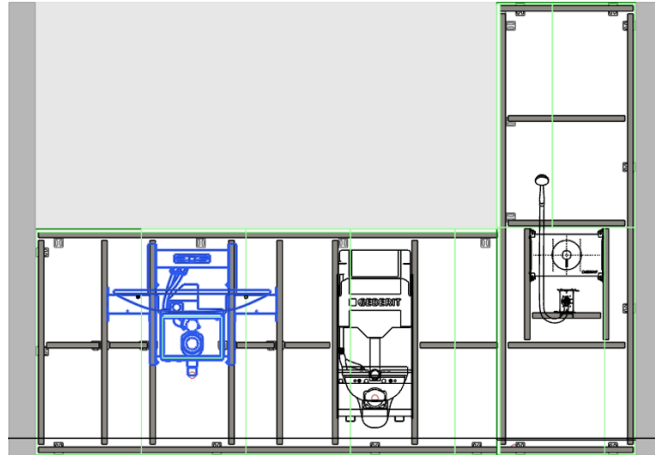
3. Click on the **Washbasin Geberit One** in the **Object** tab.



4. Open the directory tree and select the **Floating B90 with Geberit One tap** entry.



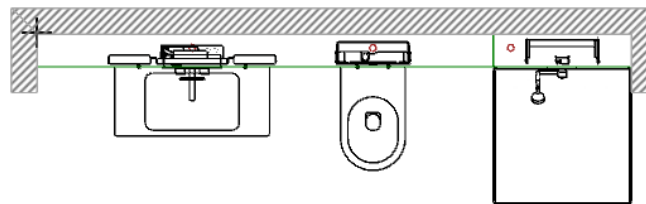
5. Click on **OK** to apply the adapted configuration.



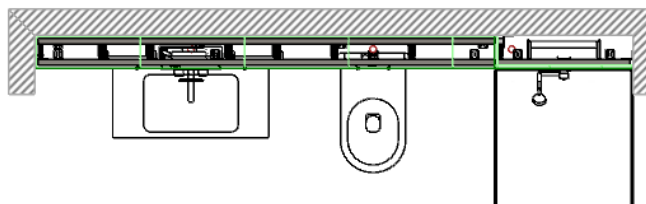
#### 4.1.3.8 Inserting Installation Walls

Once you have placed all the objects on the installation wall, the wall can be inserted into the drawing area.

1. Click on **Paste** in the **Installation wall quick entry** window.  
✓ The wall is suspended from your cursor.



2. Click on the desired position in the drawing area to place the wall.



#### 4.1.4 Working with Your Planning Example

Once you have designed and inserted the installation wall using the installation wall quick entry, you will then meet the different views in Detailed planning 3D. Adjustments are made and at the end the planned installation unit is dimensioned.

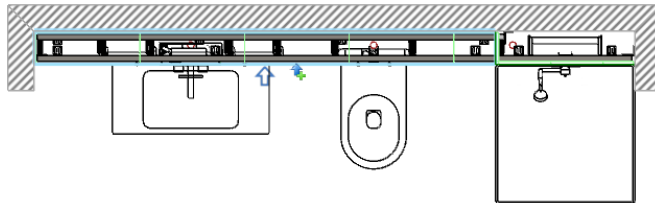
##### 4.1.4.1 Views in Detailed Planning 3D

A front view and a 3D view are available in addition to the floor plan in the drawing area. One wall side must be selected as the front view for the two views to be displayed.

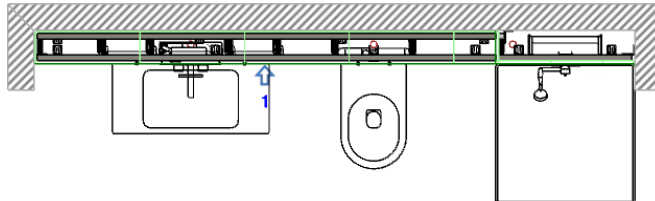
##### 4.1.4.1.1 Adding a Front View



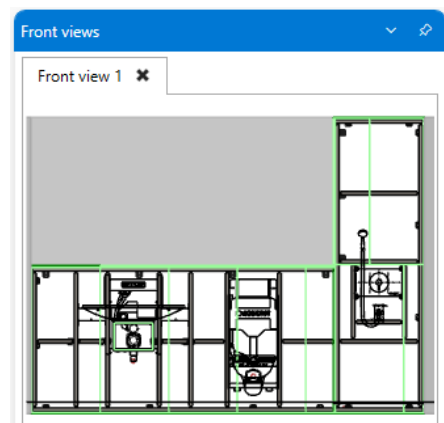
1. Click in the toolbar on **Add front view**.
2. Move the cursor to a wall.




3. Click in the drawing area to position the front view.



✓ The front view appears in the **Front views** window.



- Every front view layer is labelled in the floor plan by a numbered front view arrow. Show and hide these front view arrows by clicking on **Display front view arrow** in the toolbar .
- If you are setting several front views, each front view is displayed on a separate tab.
- To delete front views, click in the tab on **X**.

#### 4.1.4.1.2 Moving the Drawing Frame in the Front View

You can move the drawing frame if the title block hides the drawing.



1. Highlight the drawing frame in the **Front views** window and click on **Move object** in the toolbar.
2. Click on the moving point.

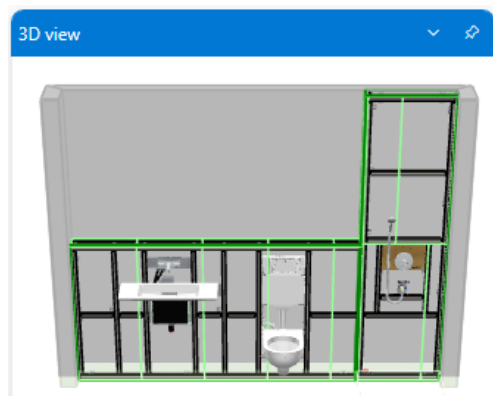


3. Use your mouse to move the drawing frame to the desired position.
4. Click on the drawing area.

#### 4.1.4.1.3 Selecting the 3D View




1. Show the **3D view** window.



2. Navigate around in the **3D view** as follows:

Movement	Description
Zoom	Rotate mouse wheel forward or backward
Move	Move the mouse while holding down the mouse wheel
Turn	Move the mouse while holding down the right mouse key
Slide drawing to the front	Press <b>W</b>
Slide drawing to the rear	Press <b>S</b>
Slide drawing to the left	Press <b>A</b>
Slide drawing to the right	Press <b>D</b>



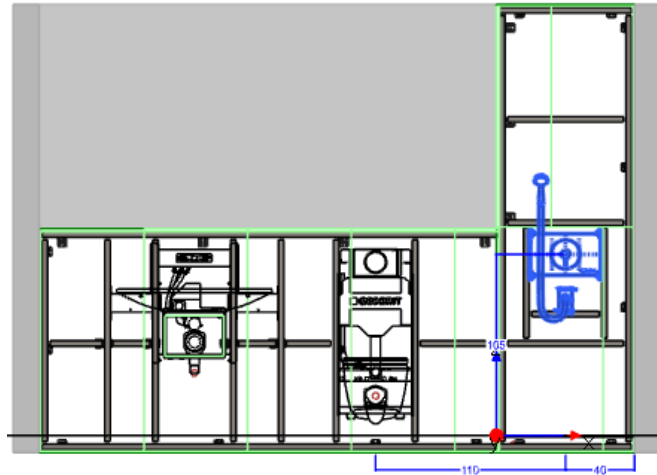
Show and hide individual components(e.g. panelling) in the **Plan view**, **Front view** and **3D view** views in the **Layer**  window.

#### 4.1.4.2 Moving the shower tap

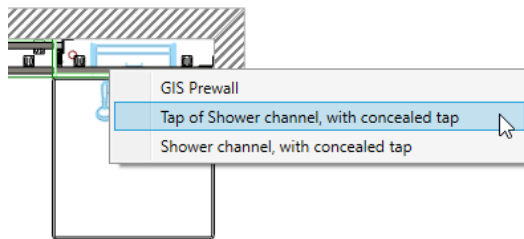
You can change the installation height and position of objects already placed. The installation height is measured from the finished floor level and the placement is measured from the left wall side. The installation height and position of the shower tap are adapted below.



1. Show the **Front views** window.
2. Highlight the shower tap in the front view.



Highlight objects, walls and dimension lines that lie on top of each other using the **Space bar**. The area underneath the cursor is displayed in a selection menu as soon as you press the **Space bar**. You can select the required object using this selection menu. The object is then highlighted in blue.



3. Right-click on the shower tap and select **Positioning of tap** in the pop-up menu.
  - ✓ The **Positioning of tap** window appears.

4. Enter the following values to move the shower tap 8 cm to the right and position it at an installation height of 120 cm.

Positioning of tap

Move to the left or right: 8,0 cm

Installation height (above finished floor): 120,0 cm

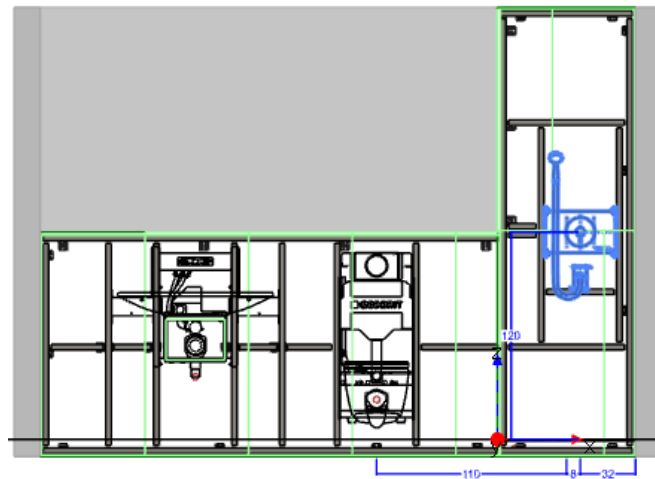
[Reset to default](#)

OK Cancel



Negative values move an object to the left and/or downwards, while positive values move an object to the right and/or upwards respectively.

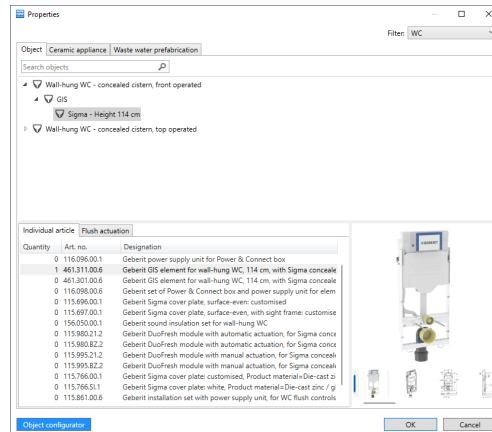
5. Confirm with **OK**.  
✓ The shower tap has been moved.



#### 4.1.4.3 Adapting the WC

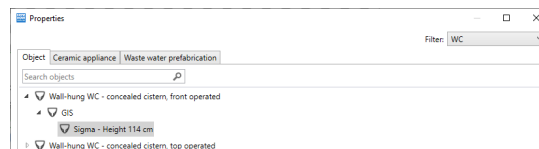
You can still change the configuration of objects even after inserting them from the quick entry. Replace the default WC with a WC with Geberit ONE ceramic appliance to fit the washbasin below. Select another flush actuation as well.

1. Highlight the WC in the floor plan or in the front view.
2. Right-click on the WC and select **Properties** in the pop-up menu.  
✓ The **Properties** window appears.

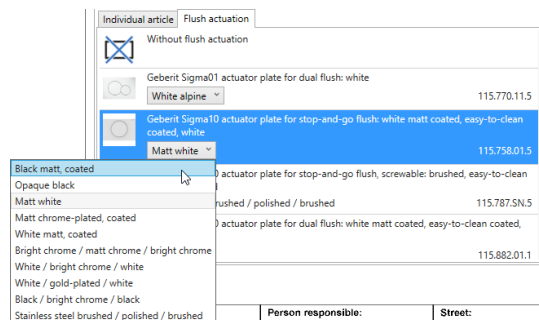


The objects available are dependent on the market.

3. Select **GIS installation element Sigma, 114 cm** in the **Object** tab.



4. Show the **Flush actuation** tab and select a flush actuator.



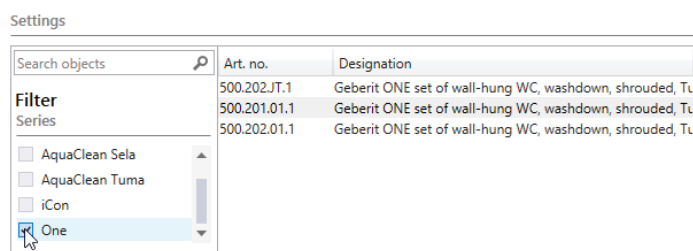
5. Show the **Ceramic appliance** tab.

6. Click on **Geberit** in the **Manufacturer** area.

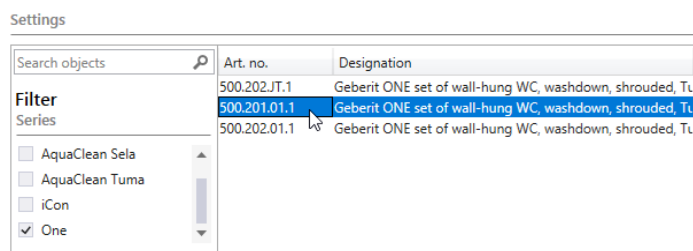


- ✓ The available Geberit ceramic appliances are displayed.

7. Activate the **One** checkbox in the **Filter** area.

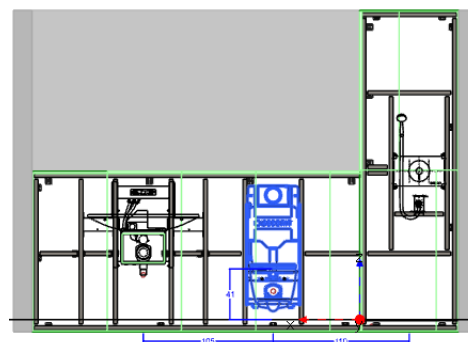
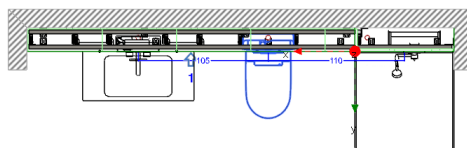


8. Select a ONE ceramic appliance.



9. Click on **OK** to apply the settings.

- ✓ The WC has been replaced.



#### 4.1.4.4 Dimensions

The dimension lines can be placed manually or inserted automatically by Geberit ProPlanner. The construction dimensions are inserted in the **Plan view**. The construction dimensions are inserted automatically in this planning example. The dimension lines are then arranged sensibly.

The fabrication dimensions are the basis for the installation and are only visible in the **Front view** and **3D view**.

##### 4.1.4.4.1 Hiding the front view arrow

First hide the front view arrow to obtain a better overview.

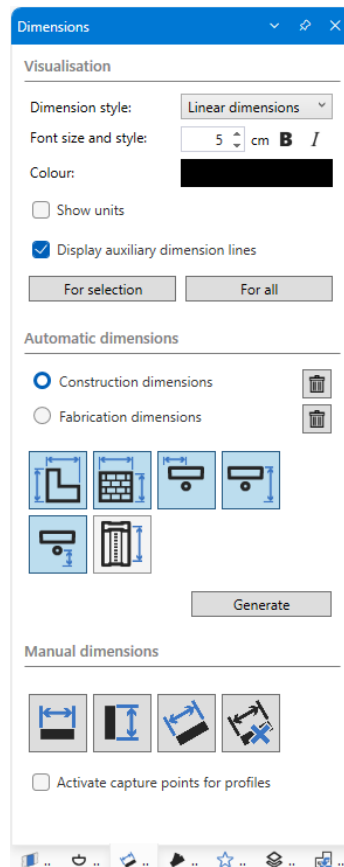


- Click in the toolbar on **Display front view arrow**.

##### 4.1.4.4.2 Inserting Dimensions

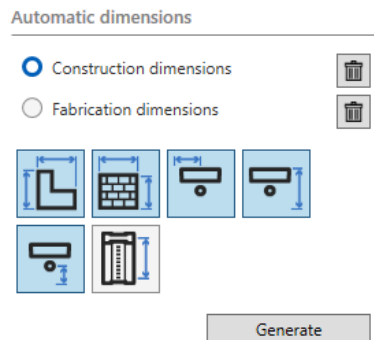


1. Show the **Dimensions** window.

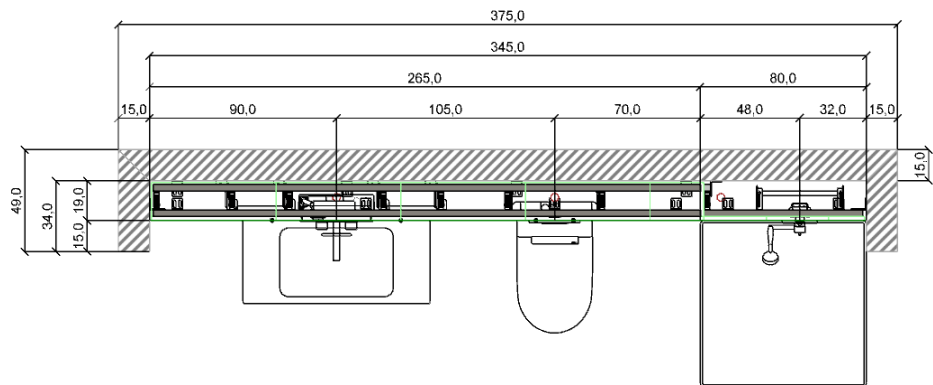


2. Make sure that the **Construction dimensions** tab is selected.

3. Activate the **Installation walls**, **Masonry**, **Objects**, **Object heights** and **Connection heights** checkboxes and deactivate the **Profiles** checkbox.



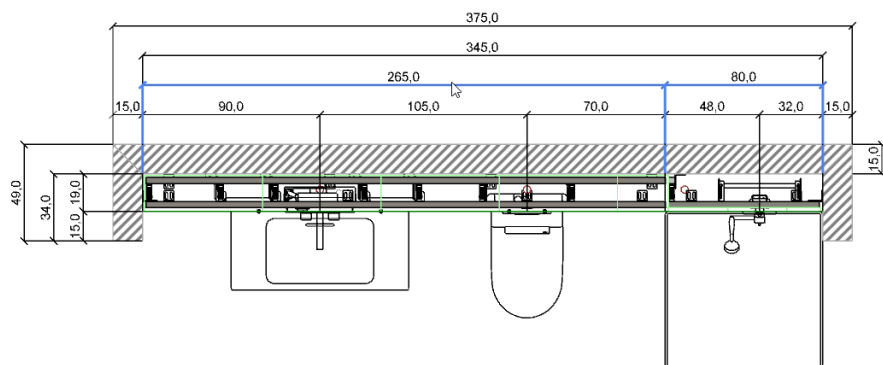
4. Click on **Generate**.  
✓ The construction dimensions have been inserted.



#### 4.1.4.4.3 Deleting unnecessary dimension lines

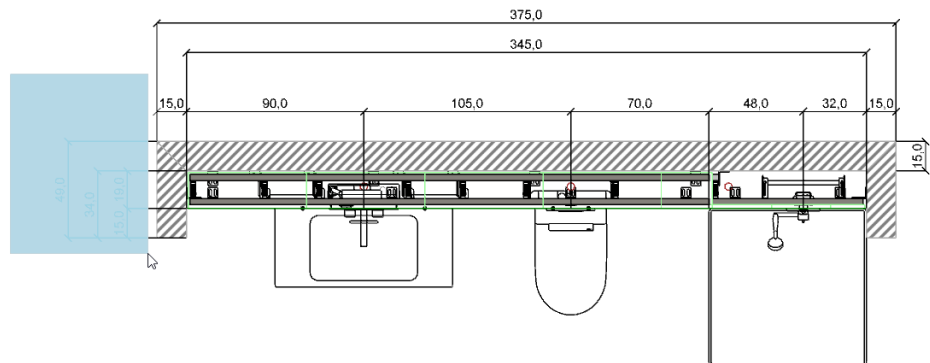
In the next section you will learn how to delete automatically inserted but unnecessary dimension lines. You will learn various options for selecting objects.

1. Mark the dimension line with the dimension **265**.

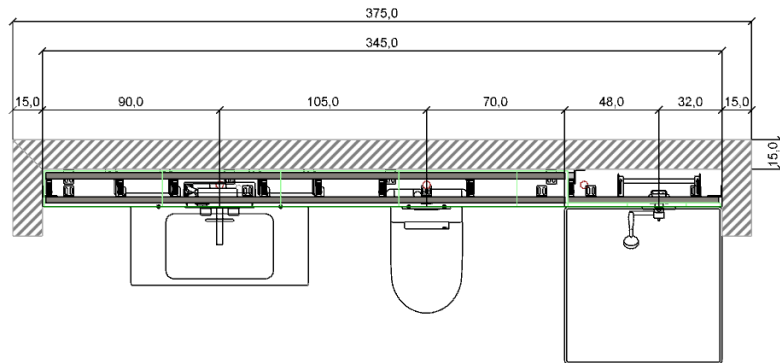


2. Press **DEL**.

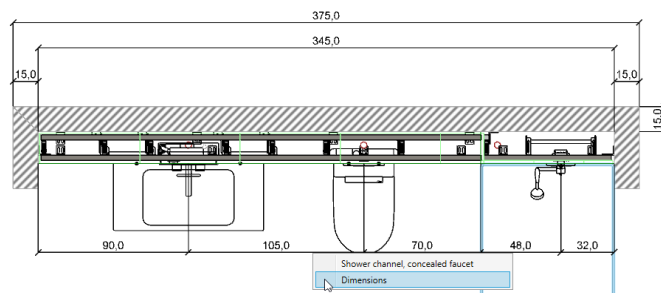
3. With the left mouse key held down, drag a frame around the vertical dimensions on the left side.



4. Press **DEL**.



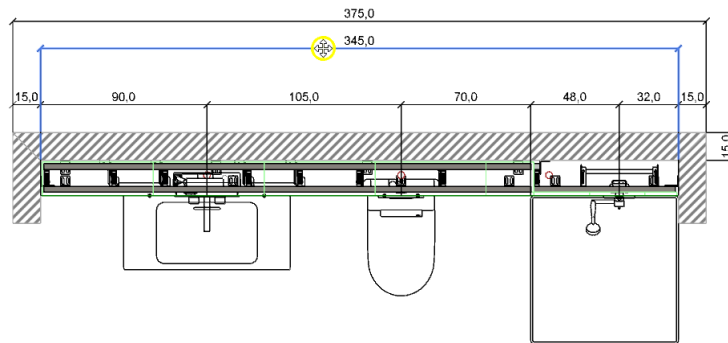
If a dimension line is above an object or wall, you can use the **space bar** to mark the dimension line. The area underneath the cursor is displayed in a selection menu as soon as you press the **space bar**. You can select the required dimension line using this selection menu.



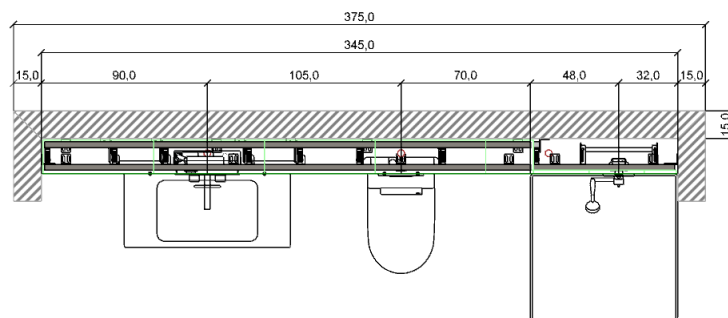
#### 4.1.4.4.4 Moving dimension lines



1. Click on **Move infotexts and dimensions** in the toolbar.
2. Click on the dimension line with the dimension **345** and with the left mouse key held down, draw it downwards.



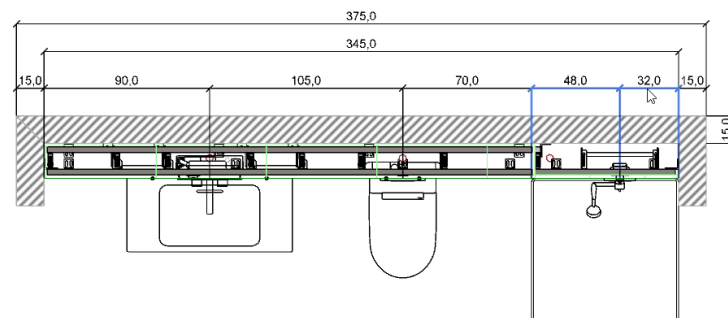
3. In the same way, move the other dimensional chains, as shown, and press **ESC** to exit the function.



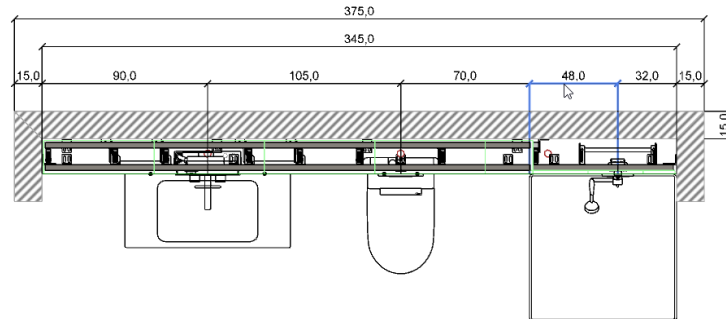
#### 4.1.4.4.5 Dividing Dimensional Chains

Dimensional sections are always inserted into the drawing in a chain. You can divide these dimensional chains to edit single dimensional sections.

1. Highlight the dimensional chain shown.

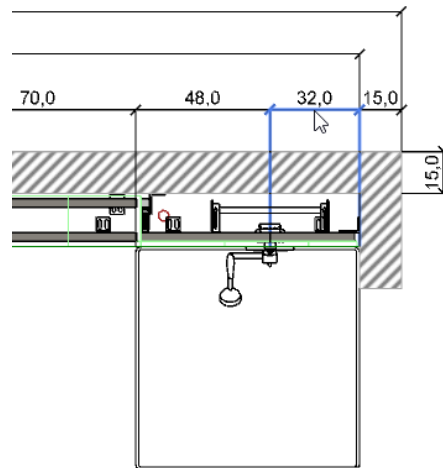


2. Right-click on the dimensional chain and select **Divide dimensional chain** in the pop-up menu.
  - ✓ The dimensional chain is divided into single dimensional sections. You can now select them singly.

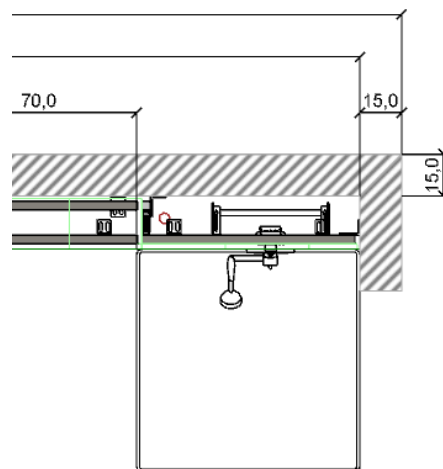


#### 4.1.4.4.6 Deleting dimension lines

1. Highlight the right dimension line on the shower with the dimension **32**.



2. Press **DEL**.
3. Delete the left dimension line with the dimension **48** in the same way.



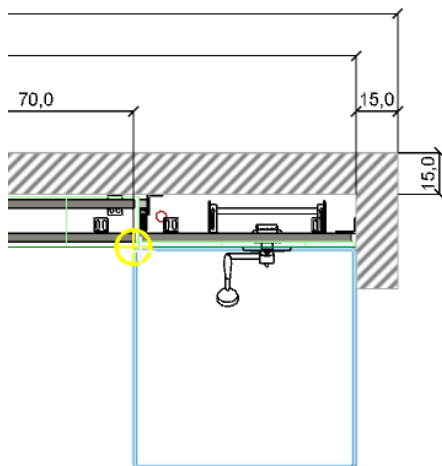
#### 4.1.4.4.7 Drawing dimension lines



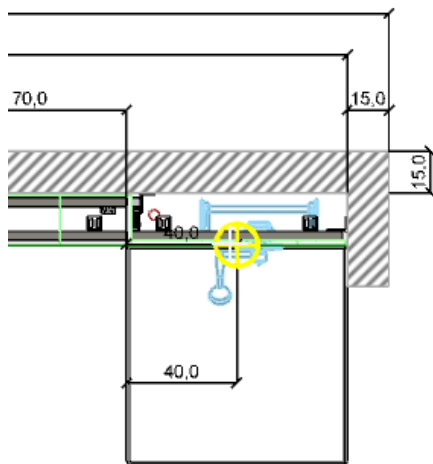
1. Make sure that the **Construction dimensions** tab is selected in the **Dimensions** window.



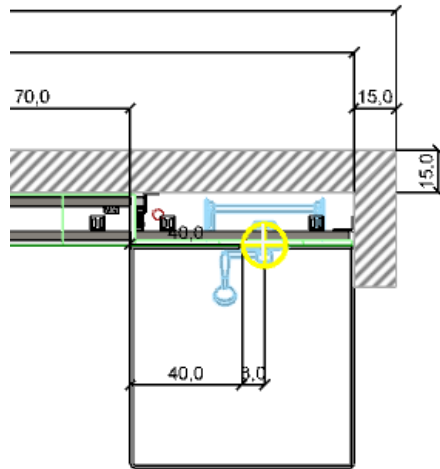
2. Click on **Insert horizontal dimensions**.
3. Move the cursor to the left edge of the shower.  
✓ The cursor appears as a cross-hair and capture mode is enabled.



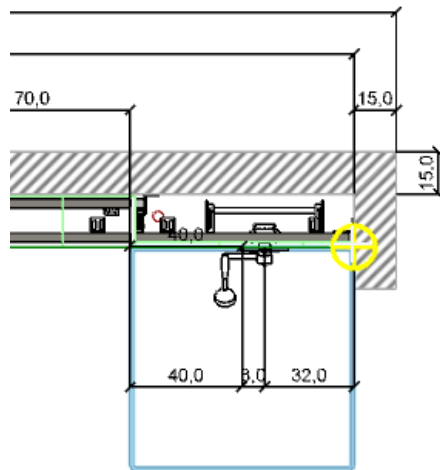
4. Click in the drawing area to place the starting point of the dimension line.
5. Move the cursor to the middle of the shower and click in the drawing.



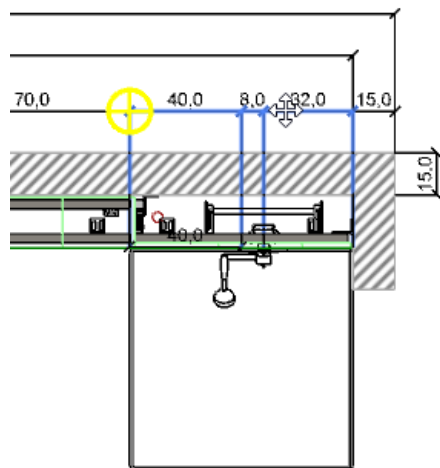
6. Move the cursor to the middle of the shower tap and click in the drawing again.



7. Then move the cursor to the right edge of the shower and click in the drawing.



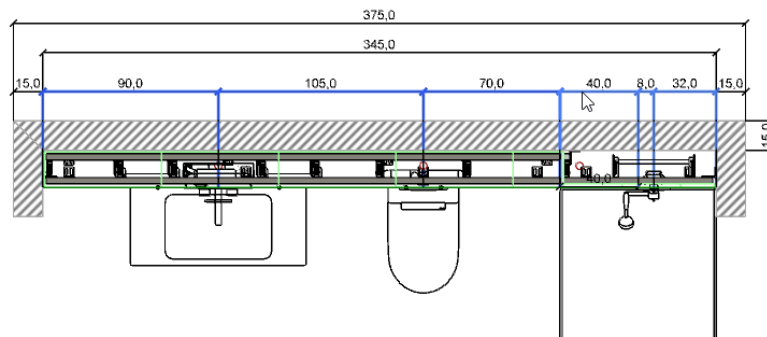
8. Press **ESC** to finish entering the dimension points.  
✓ The dimension line is attached to the cursor.
9. Move the dimension line to the desired position and click in the drawing area to set the dimension line.



#### 4.1.4.4.8 Joining Dimensional Chains

You can join single dimensional sections to form a dimensional chain.

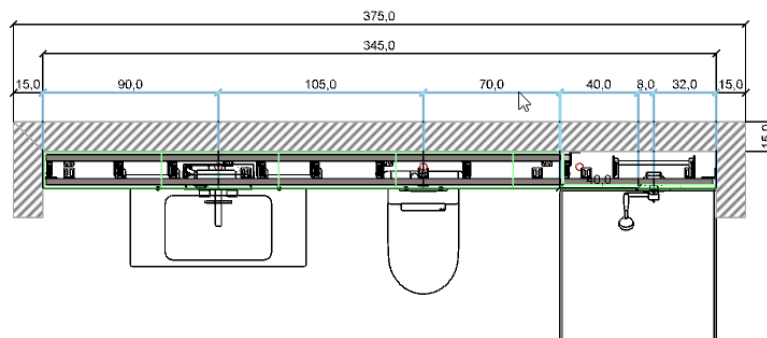
1. Highlight the dimensional sections shown.



Pressing **Ctrl** lets you add objects to a selection or remove them from a selection.

2. Right-click on the dimensional sections and select **Join to form a dimensional chain**.

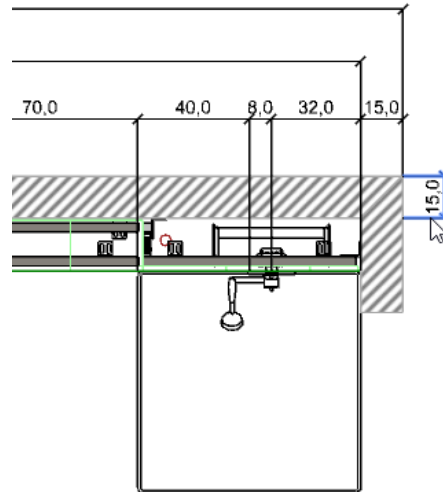
✓ The individual dimensional sections are joined to form a dimensional chain.



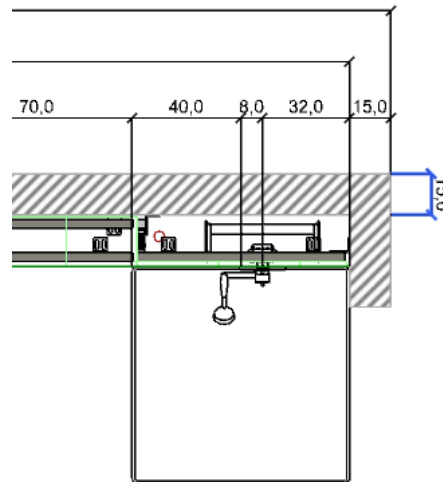
#### 4.1.4.4.9 Positioning Dimension Figures

You can position dimensional figures above or below the dimension line.

1. Mark the dimension line shown.



2. Right-click on the marked dimension line and select **Place measured values on the other side of the dimension line** in the pop-up menu.

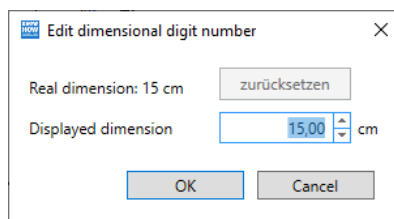


Additional information can be found under Help at **Detailed planning 3D > Dimensions**.

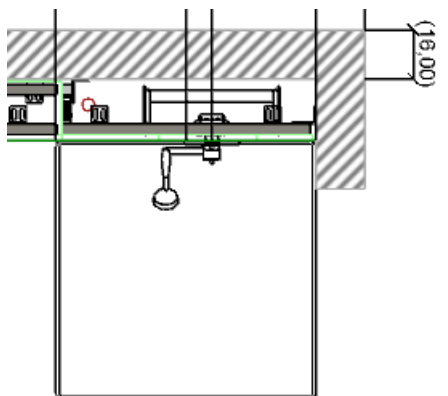
#### 4.1.4.4.10 Manually adjusting dimension figures

If you need to, you can manually change dimensions and enter another dimension. Dimensions entered manually are shown in brackets.

1. Right-click on the dimension line with the dimension **15.0** and select **Edit dimensional digit number** in the pop-up menu.  
✓ The **Edit dimensional digit number** window appears.



2. Enter the value **16.00** in the **Displayed dimension** field.
3. Click on **OK**.  
✓ The dimension figure appears in brackets.



#### 4.1.4.5 Inserting article figures

Once you have finished editing, insert a figure of the actuator plate.



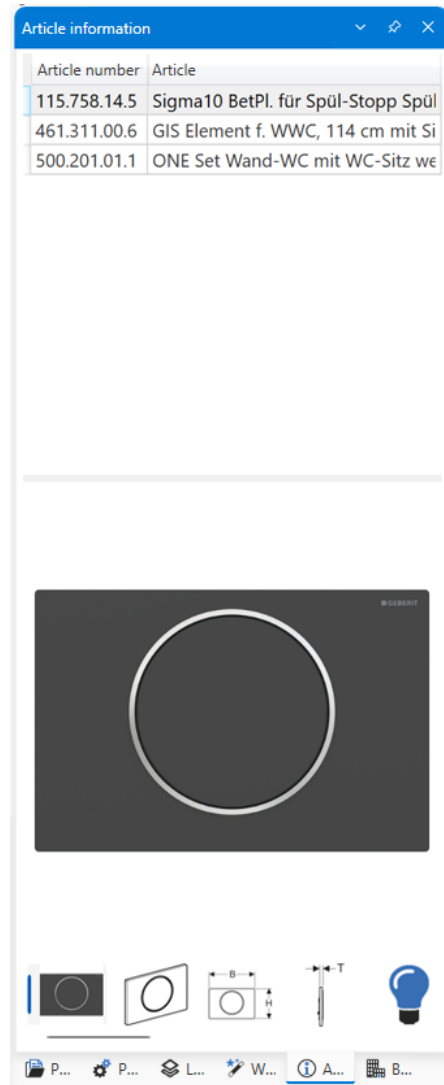
1. Show the **Article information** window.

- ✓ The **Article information** window shows all articles of all objects in the drawing.

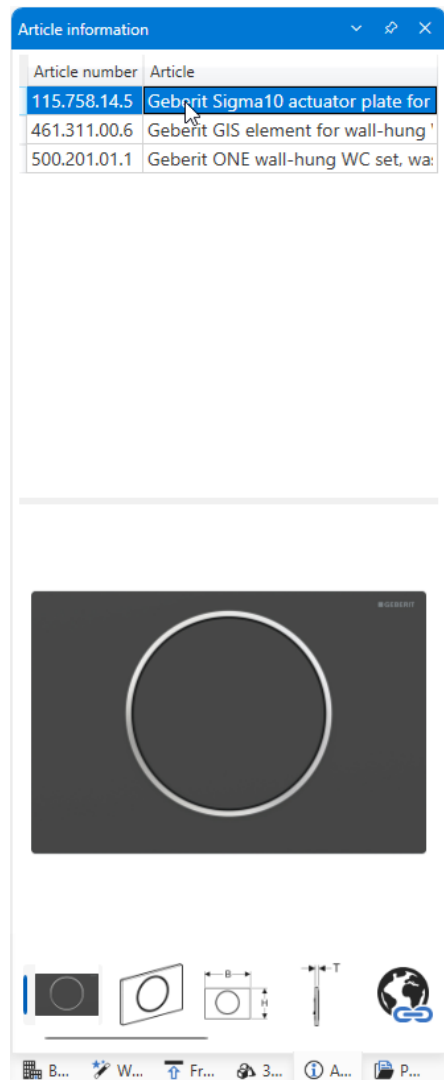


2. Mark the **WC**.

- ✓ The **Article information** window only shows the articles that belong to the **WC**.



3. Mark the actuator plate in the **Article information** window.

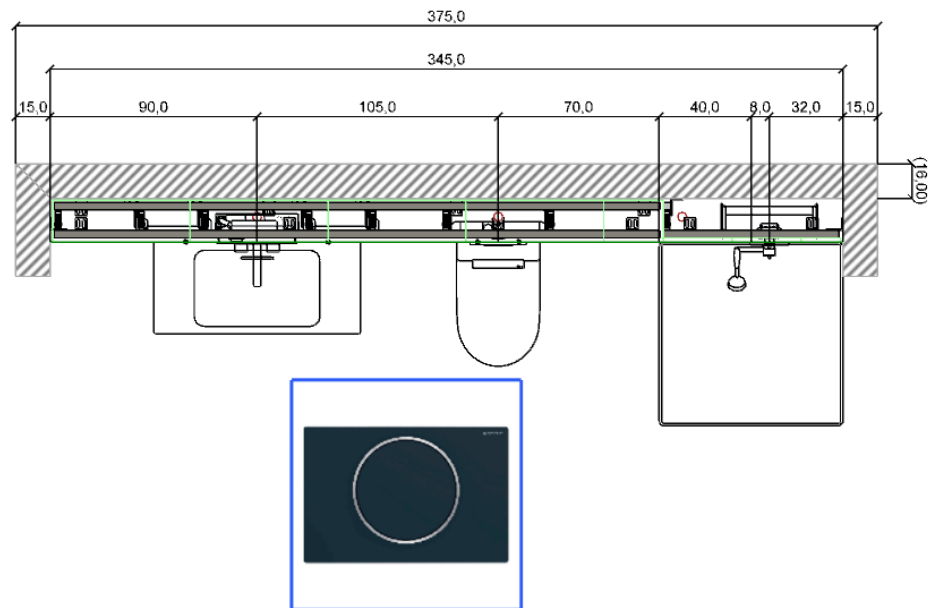


4. Position the cursor above the figure of the actuator plate and click on the **Copy** link.



✓ The figure has been copied to the clipboard.

5. Paste the figure from the clipboard into the drawing by pressing the keyboard shortcut **CTRL + V**.



#### 4.1.5 Defining the Paper Format and Drawing Scale

Once you have completed the training example, adjust the paper format, alignment and the drawing scale for your printout. Select a paper format and an alignment supported by your printer.

##### 4.1.5.1 Defining the Paper Format

1. Double-click on the title block in the drawing area.  
✓ The **Properties** window appears.
2. Enter a designation in the **Drawing frame** area.
3. Deactivate **Apply the default settings**.
4. Select **A4** as the **Paper format** and A4 and **Landscape** as the **Orientation** for this planning example.

5. Leave the predetermined drawing scale.

**Properties**
✕

Drawing frame

Designation:

Paper format

☐ Apply the default settings

Paper format:

×  cm

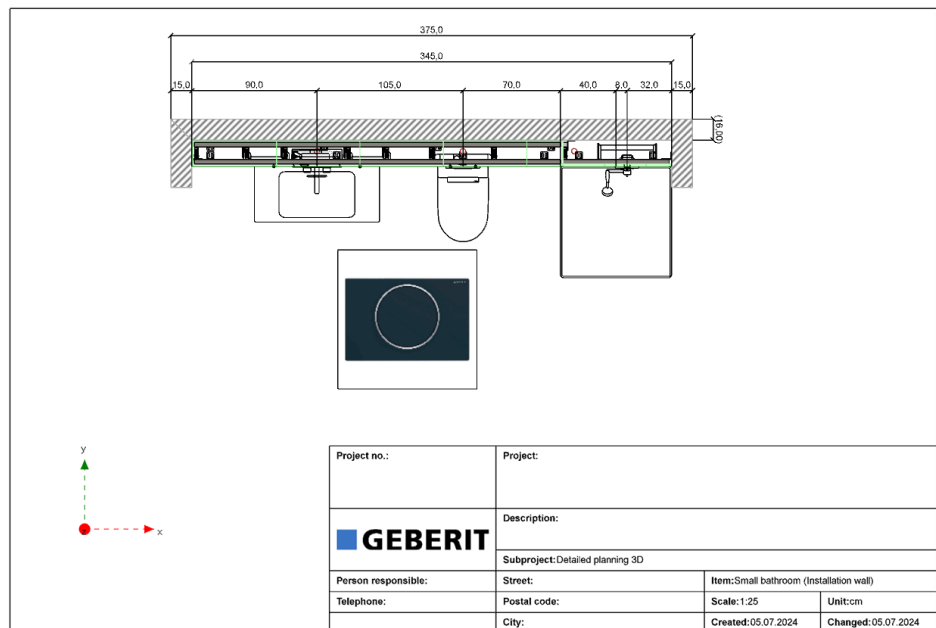
Orientation:

Margin:  cm

Scale: 1 :  (7,4 x 5,2 m)

6. Click on **OK** to apply the settings.

- ✓ The drawing frame has been adapted.
- ✓ There is too much unused space around the drawing.



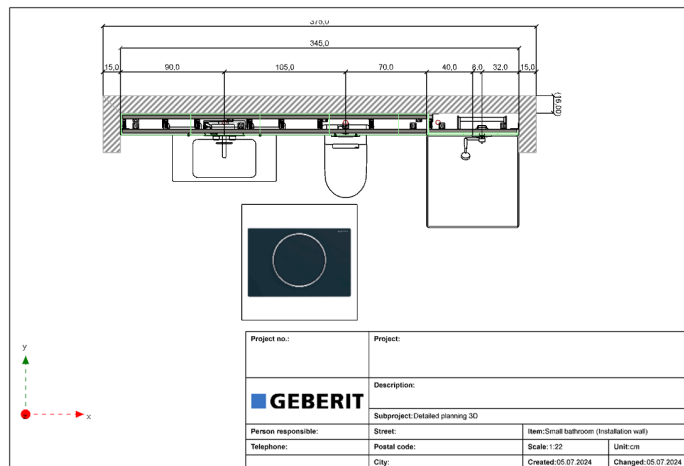
#### 4.1.5.2 Setting the Drawing Scale

Adapt the drawing frame to display the drawing as large as possible in the drawing frame.

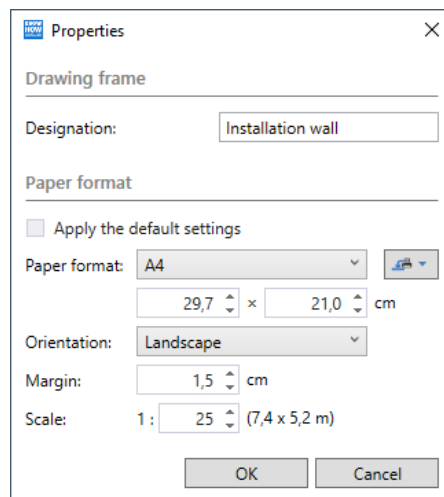


1. Click on **Adjust drawing frame** in the toolbar.

✓ The drawing frame is defined so that your plan is visualised to fill the space. This is the smallest scale with which you can print your drawing on the selected paper format.



2. Double-click on the title block in the drawing area.
  - ✓ The **Properties** window appears.
  - ✓ The minimum scale automatically calculated (e.g. 1:22) appears in the **Scale** field.
3. Increase the scale to the next standard ratio (i.e. 1:25).



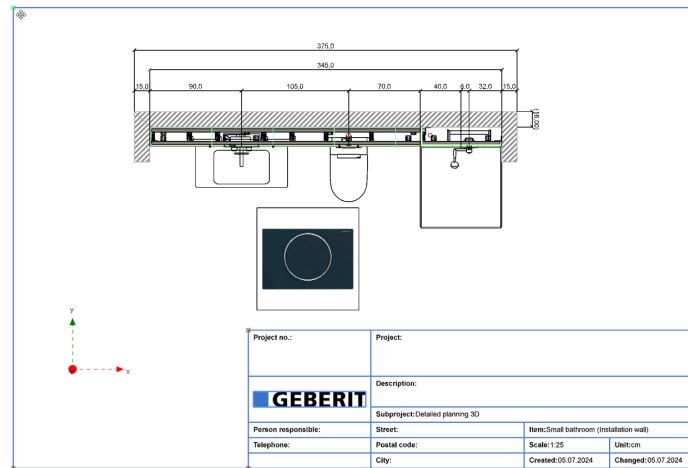
4. Click on **OK** to apply the settings.

#### 4.1.5.3 Moving the Drawing Frame

1. Highlight the drawing frame.



2. Click in the toolbar on **Move object**.  
✓ Move points appear on the drawing frame.



Alternatively press **M**.

3. Click on one of the move points and move the drawing frame to the position you require.



4. Click in the drawing area to place the drawing frame.

## 4.2 Planning a complex room

This chapter covers the following topics:

- Adapting module settings
- Drawing rooms
- Inserting doors and windows
- Drawing room separators freely
- Drawing part-height and room-height prewalls
- Inserting duct inserts
- Placing objects
- Adapting object properties
- Inserting a niche

A graphic visualisation of the planning example can be found at the end of the training manual (see "Large bathroom", page 127).

### 4.2.1 Selecting an Installation Unit



1. Show the **Building** window.
2. Select the **Large bathroom** installation unit.



## 4.2.2 Adapting Calculation Settings

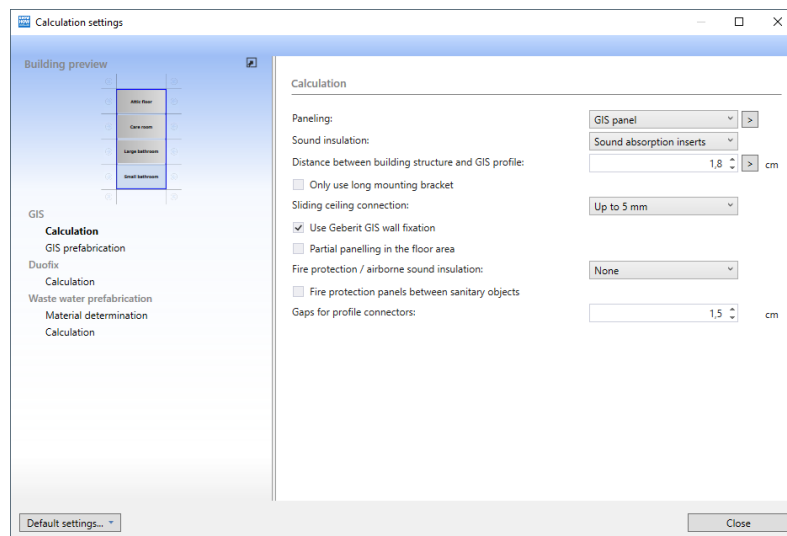
Geberit GIS installation walls can be prefabricated off site to save time and costs. The installation walls are divided into segments that do not exceed a certain size and take into account the structural conditions on site. Define the corresponding settings in the **Calculation settings** window.

The panelling and sound insulation are also configured.

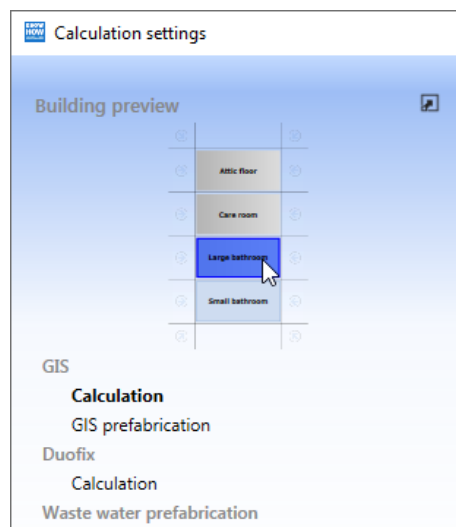


1. Click on the **Calculation settings** link in the **Building** window.

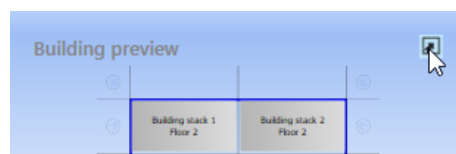
✓ The **Calculation settings** window appears.



2. Highlight the **Large bathroom** installation unit in the **Building preview** area.



If you need to, you can enlarge the **Building preview** by clicking on the symbol **Enlarge building**.

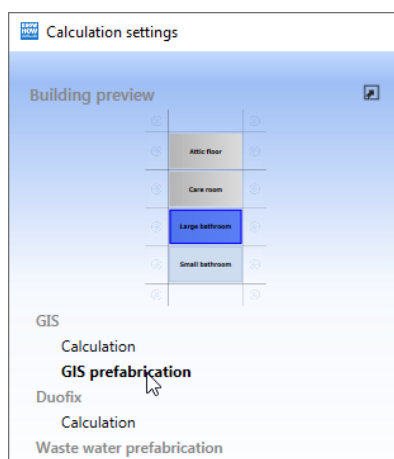


3. Select the **Paneling** with **GIS panel** and the **Sound insulation** with **Sound absorption inserts** in the **Calculation** area.

Calculation

Paneling:	GIS panel	>
Sound insulation:	Sound absorption inserts	
Distance between building structure and GIS profile:	1,8	> cm
<input type="checkbox"/> Only use long mounting bracket		
Sliding ceiling connection:	Up to 5 mm	
<input checked="" type="checkbox"/> Use Geberit GIS wall fixation		
<input type="checkbox"/> Partial panelling in the floor area		
Fire protection / airborne sound insulation:	None	
<input type="checkbox"/> Fire protection panels between sanitary objects		
Gaps for profile connectors:	1,5	cm

4. Click on **GIS prefabrication** under **GIS**.



5. Activate the **Prefabricate** checkbox in the **GIS prefabrication** area.

GIS prefabrication

<input checked="" type="checkbox"/> Prefabricate	
Maximum wall segment dimension 1:	260,0 cm
Maximum wall segment dimension 2:	130,0 cm

6. Click on **Close** to apply the settings.

### 4.2.3 Hiding the Drawing Frame

The drawing frame is hidden to provide enough space when planning. At the end of the planning example, the drawing frame reappears to adjust the paper format and drawing scale.



1. Show the **Layer** window.
2. Expand the **Drawing area** by clicking on ▸.
3. Click on the lightbulb icon in the **Plan view** column beside **Title block** and **Drawing frame** until it has a white background

▾ Drawing area				
Title block				
Drawing frame				
Grid				

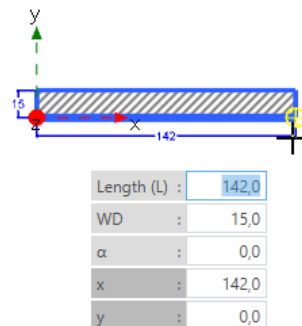
### 4.2.4 Drawing Rooms, Doors and Windows

Use the **Masonry walls and installation walls** window to plan rooms, doors and windows.

#### 4.2.4.1 Drawing a Room

You can draw rectangular rooms by entering the dimensions or draw rooms with single solid walls and lightweight walls. Opt for one version depending on your particular case. We will now show you how to draw a room by setting single solid walls.

Use the cursor entry to define the dimensions of the wall when drawing single walls:



As soon as you draw a wall, you can directly define the following dimensions with your cursor:

- Length
- Wall thickness
- Angle
- x and y coordinates with reference to the reference point

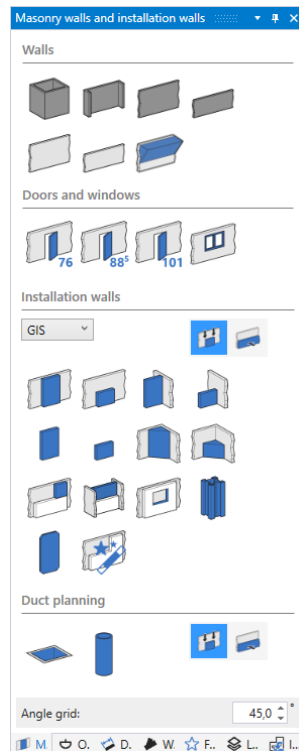
You can determine the wall length using the Length or the x and y coordinates.

Use the **Tab key** to jump between the single input fields.



Additional information on walls can be found under Help at **Detailed planning 3D > Placing and adapting walls > Drawing rooms and walls.**

1. Make sure that the **Masonry walls and installation walls** window is open.



2. Select **Solid wall, room-height** in the **Walls** area.
3. Move the cursor into the drawing area.  
✓ The cursor entry appears at the cursor.
4. Enter the value **15 cm** in the **Wall depth (WD)** field.

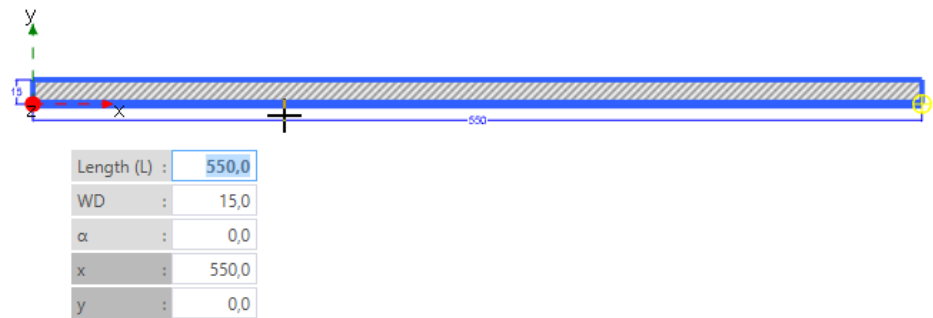


Wall depth (WD) :	15
x :	12,0
y :	334,0

5. Click in the drawing area to place the starting point of the first wall.
6. Move your cursor to the right to indicate the direction of the first wall segment.

7. Enter the value **550** cm in the **Length (L)** field and confirm with **Enter**.

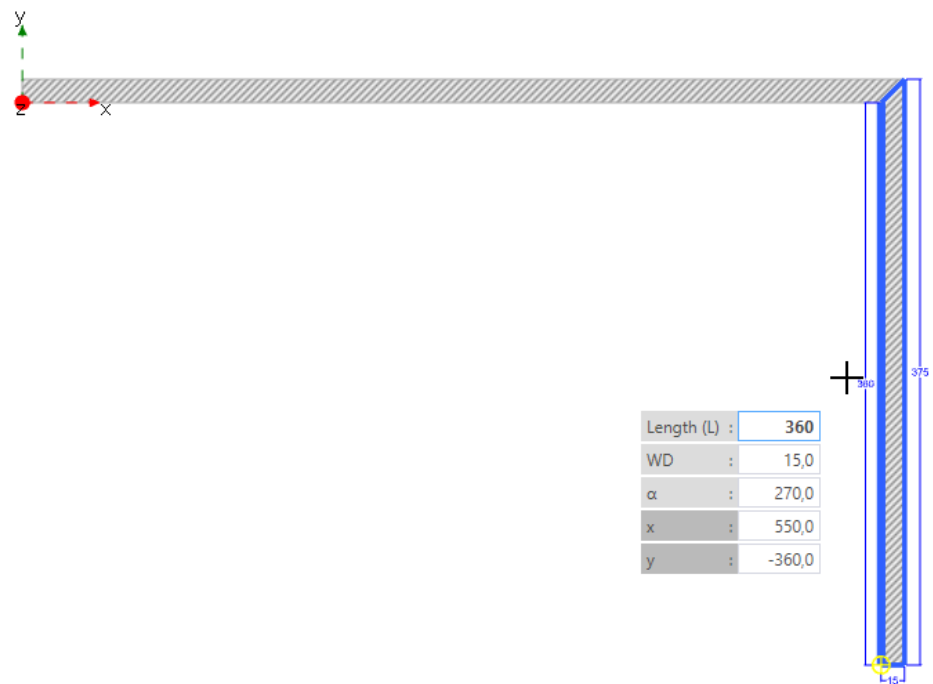
✓ A 550 cm long wall is drawn.



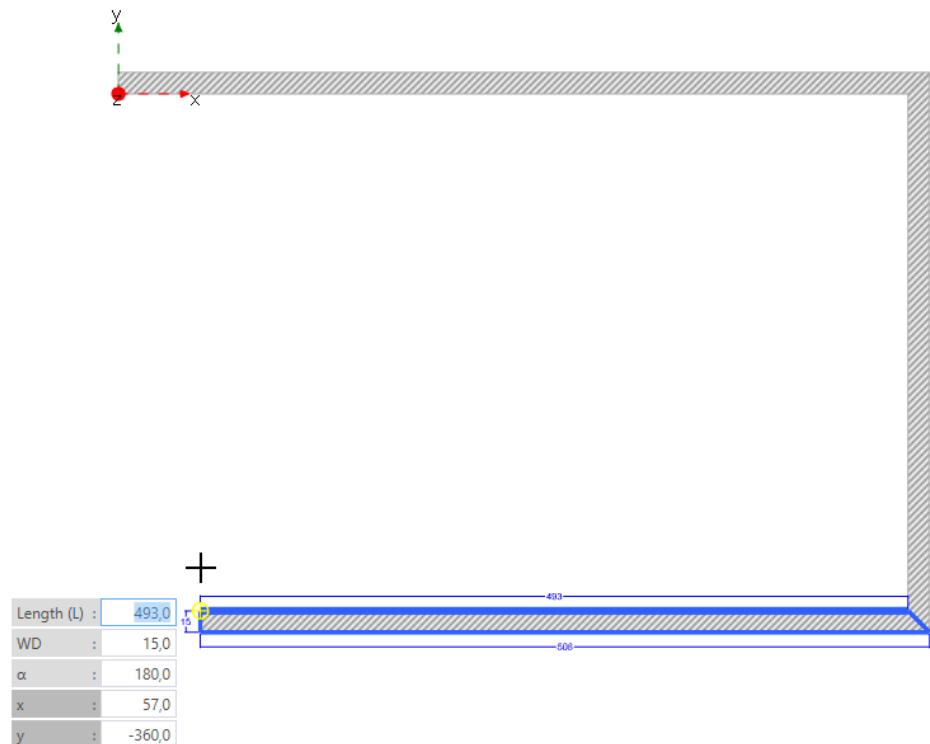
8. Move your cursor downwards to indicate the direction of the next wall segment.

9. Enter the value **360** cm in the **Length (L)** field and confirm with **Enter**.

✓ A 360 cm long wall is drawn.



10. Move the cursor to the left to just under the starting point of the first wall segment and click in the drawing area.



11. Move the cursor upwards and click on the start point of the first wall segment.  
✓ The room is now closed at a right angle.



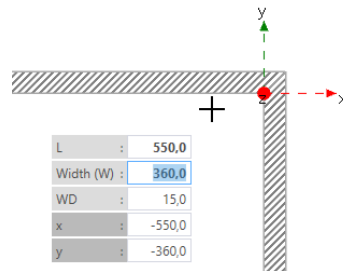
You can also close the room with an oblique wall. To do so, press **SHIFT** while clicking on the starting point of the first wall segment.



Alternatively use the **Room made of solid walls** function to create a simple rectangular room.



To do so, enter the dimensions of the room in the cursor entry.



#### 4.2.4.2 Reference Points

Geberit ProPlanner works with a reference point to which the walls and other objects are relatively aligned. The reference point is highlighted by a red point and two axes.



The reference point is automatically assigned by default and is reset according to the highlighted object. In some cases it may be advantageous if the reference point is assigned manually for the planning of distances.



- As soon as an object has been placed, the position of the cursor (for example on the inner or outer edge of a wall) affects where the reference point is placed.
- Align the axes of the reference point as required as soon as you manually set the reference point. Additional information can be found under Help at **Detailed planning 3D > Reference point**.

##### 4.2.4.2.1 Automatically Assigning Reference Points

The reference point is automatically assigned to install the windows and doors.



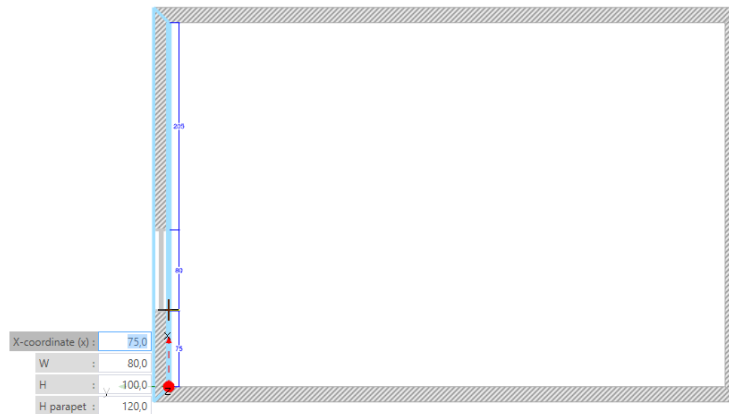
- Ensure that **Assign reference point automatically** is enabled.

#### 4.2.4.3 Inserting Windows

Insert windows at any point in the masonry and then adapt all dimensions, e.g. the width or the sill height.

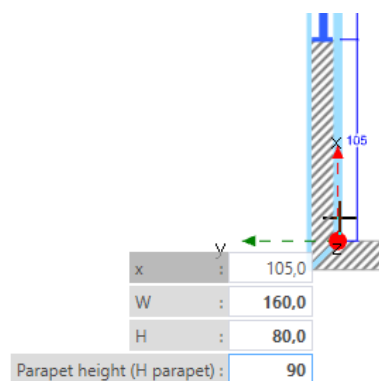


1. Select the **Window** in the **Doors and windows** area.
2. Move the cursor to the inside of the lower half of the left wall. Make sure that the reference point lies inside the room.



3. Use the cursor to enter the following values:

- **X-coordinate (x):** 105 cm
- **Width (W):** 160 cm
- **Height (H):** 80 cm
- **Parapet height (H parapet):** 90 cm



4. Press **Enter** to set the window.



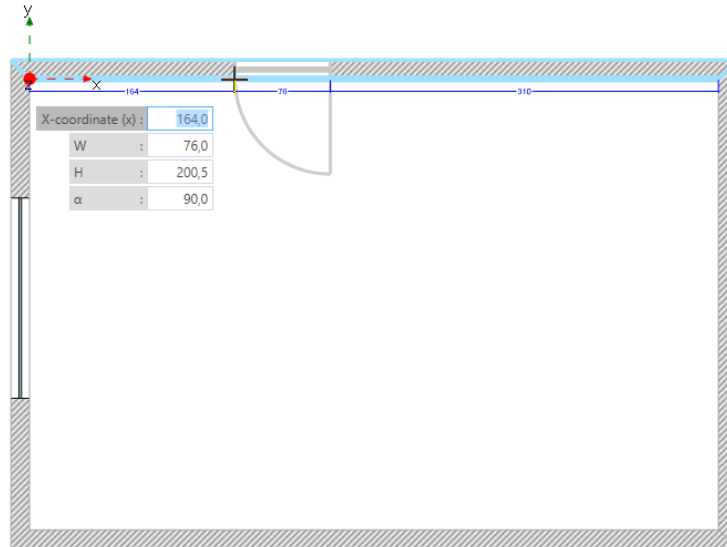
#### 4.2.4.4 Inserting Doors

Insert doors at any position and then adapt the properties, e.g. the hinge side and the opening direction.

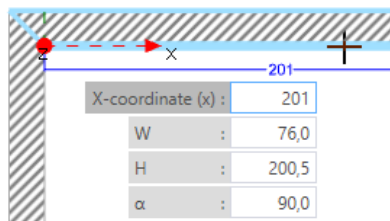
##### 4.2.4.4.1 Inserting the First Door



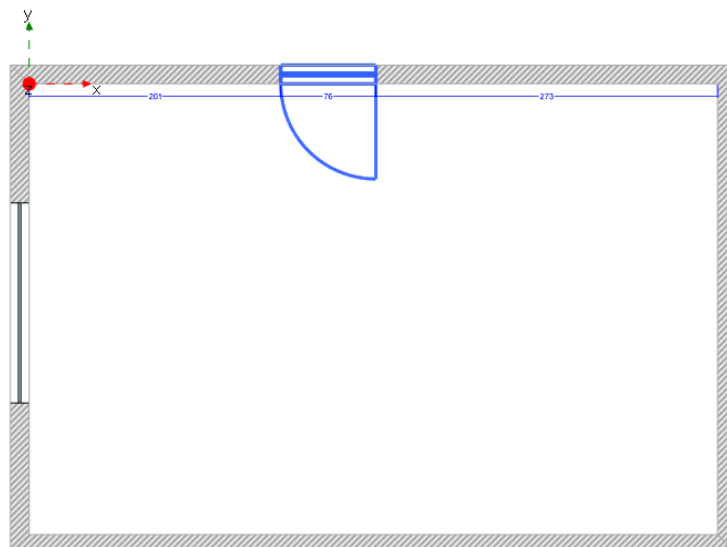
1. Select the **Door (76x200.5)** in the **Doors and windows** area.
2. Move the cursor onto the left half of the upper wall and specify that the door opens inwards. Note the position of the reference point.



3. Enter the value **201** cm in the cursor entry in the **X-coordinate (x)** field.



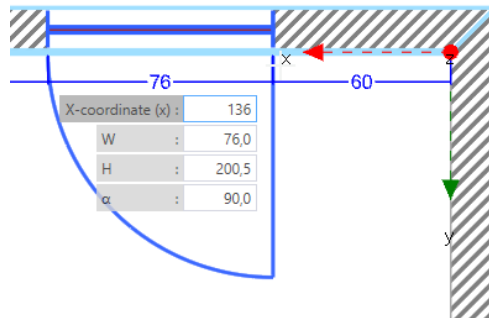
4. Press **Enter** to place the door.



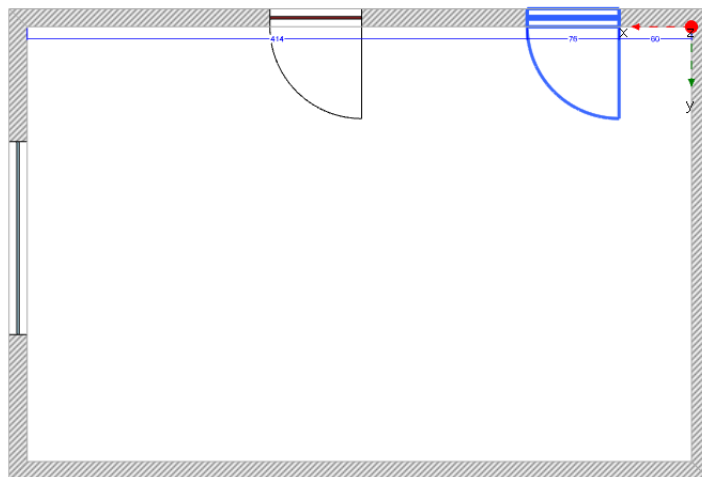
#### 4.2.4.4.2 Inserting the Second Door



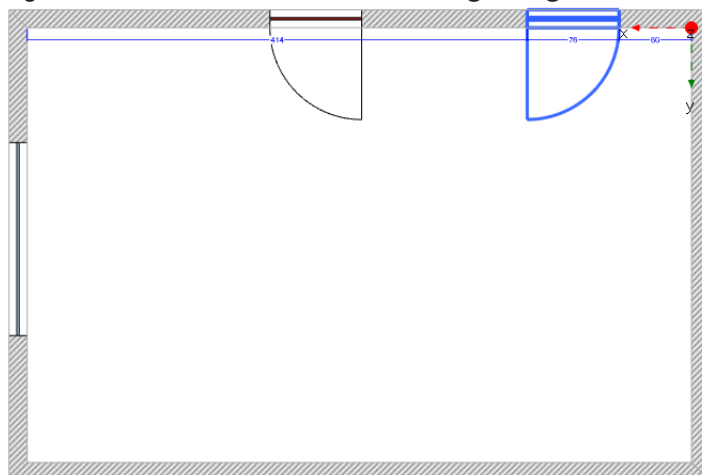
1. Select the **Door (76x200.5)** again in the **Doors and windows** area.
2. Move the cursor onto the right half of the upper wall and specify that the door opens inwards.
3. The dimension is given to the left corner of the door in the planning example plan (see "Large bathroom", page 127). Press the **Z** key to position the reference point of the door from the right to the left side and enter the dimension from the plan.



4. Press **Enter** to set the door.



5. Mark the door.
6. Right-click on the door and select **Change hinge side** in the pop-up menu.





## 4.2.5 Drawing Prewalls and Room Separators

Once you have drawn your room with doors and windows, it is now time to insert the installation walls.

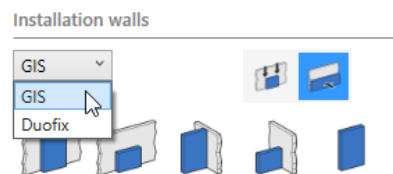
Plan Geberit Duofix and Geberit GIS installation walls using the **Masonry walls and installation walls** window.

Geberit GIS installation walls are planned in the example. Plan Geberit Duofix installation walls in the same way. You can plan installation walls in two different drawing modes:

Drawing mode	Description
	<b>Free</b> <ul style="list-style-type: none"> <li>For manual drawing (draft of traverse) along a solid construction or lightweight wall or as a free wall in the drawing area.</li> <li>The depth of the installation wall is defined using the cursor entry.</li> </ul>
	<b>Auto</b> <ul style="list-style-type: none"> <li>Adapts the installation wall to a solid or lightweight wall.</li> <li>The depth of the installation wall is defined using the cursor entry.</li> </ul>

### 4.2.5.1 Inserting Room-height Room Separators

1. Select the **GIS** installation system in the **Installation walls** area.

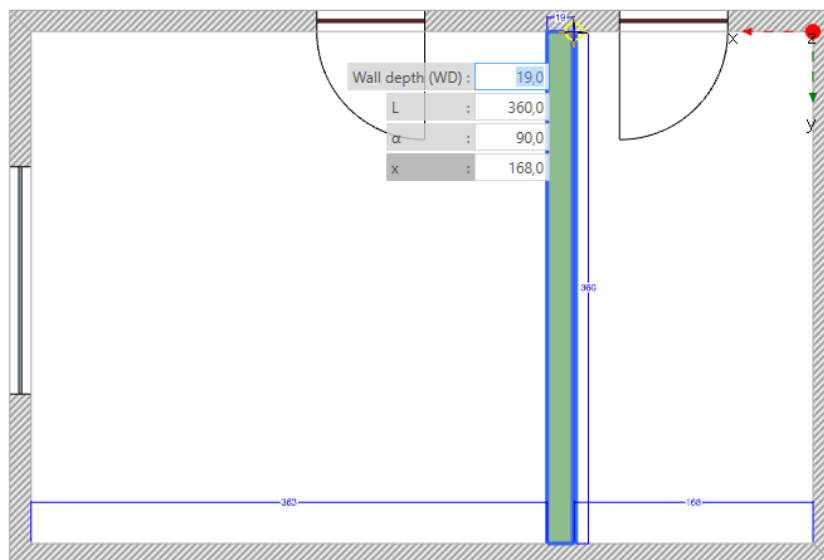


2. Mark the room-height room separator.

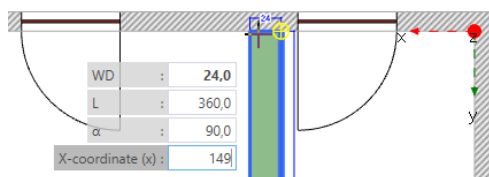


3. Select **Auto** drawing mode.

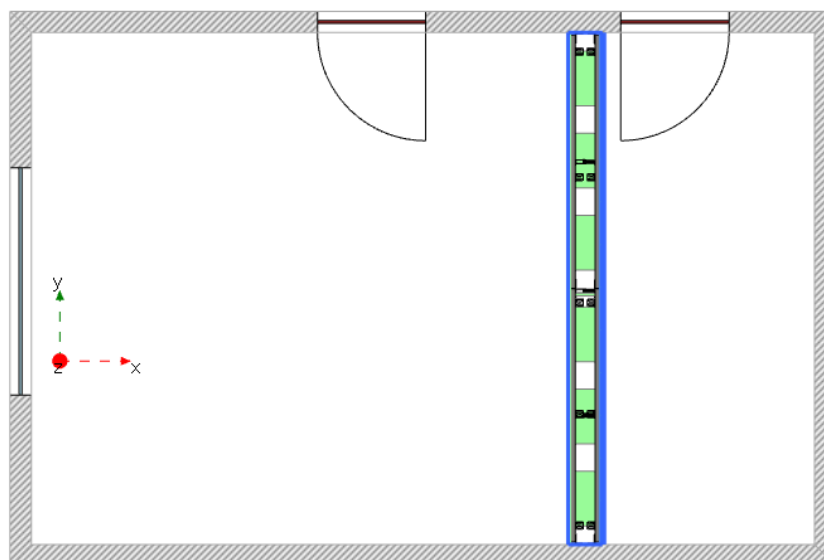
4. Move the mouse along the upper inner side of the room to the approximate position of the room separator to be inserted.  
✓ A preview of the wall is displayed.



5. Enter the value **24** cm in the **Wall depth (WD)** field and the value **149** cm in the **X-coordinate (x)** field.



6. Press **Enter** to place the wall.



#### 4.2.5.2 Inserting Prewalls

Your planning continues with 3 prewalls once you have inserted the room dividers. First insert 2 room-height prewalls and then draw a part-height prewall on the right side panel.

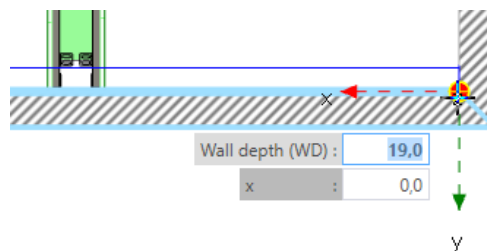
##### 4.2.5.2.1 Inserting the First Room-height Prewall



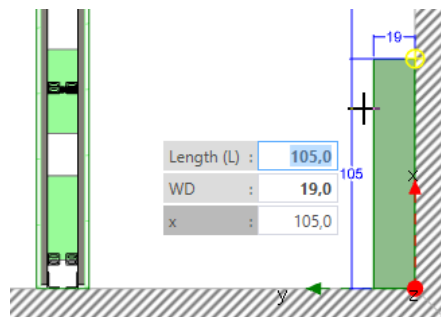
1. Select the room-height prewall in the **Installation walls** area.



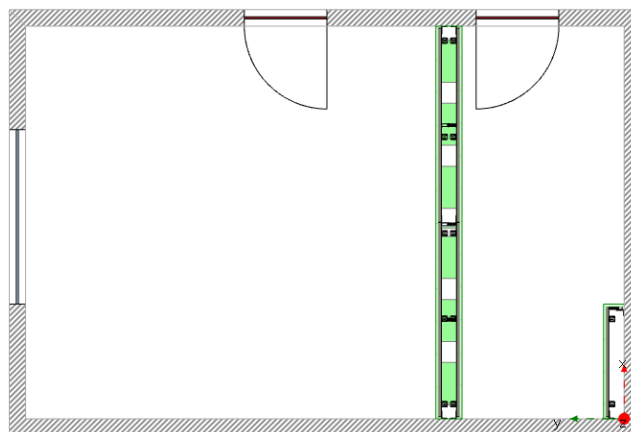
2. Select **Free** drawing mode.
3. Move the cursor to the bottom right corner of the room so that the cursor entry appears.
4. Enter the value **19 cm** in the **Wall depth (WD)** field.



5. Click in the drawing area to set the starting point of the room-height prewall.
6. Move your cursor upwards to indicate the direction of the next wall segment.
7. Enter the value **105 cm** in the **Length (L)** field.



8. Press **Enter** to set the room-height prewall.



#### 4.2.5.2.2 Inserting a Part-height Prewall



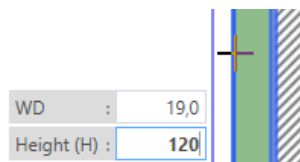
1. Mark the part-height prewall in the **Installation walls** area.



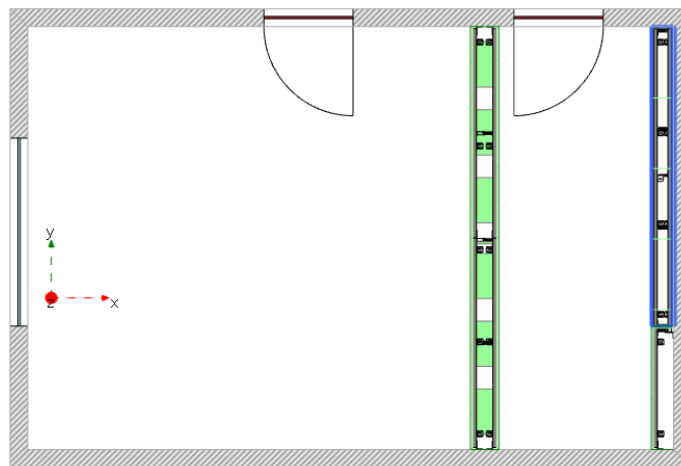
2. Select **Auto** drawing mode.

3. Move the cursor to the planned position.

4. Enter the value **120** cm in the **Height (H)** field.



5. Press **Enter** to set the part-height prewall.



#### 4.2.5.2.3 Inserting the Second Room-height Prewall



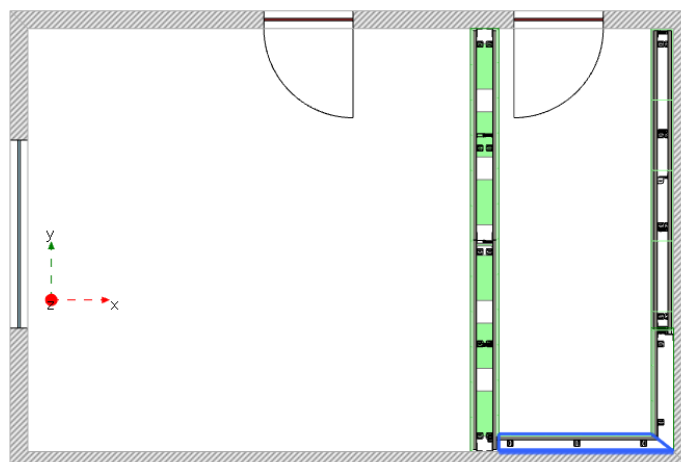
1. Mark the room-height prewall in the **Installation walls** area.



2. Select **Auto** drawing mode.

3. Move the cursor to the bottom right corner of the room so that the cursor entry appears.

4. Enter the value **15** cm in the **Wall depth (WD)** field and click in the drawing area to insert a prewall.



#### 4.2.5.2.4 Inserting Duct Inserts



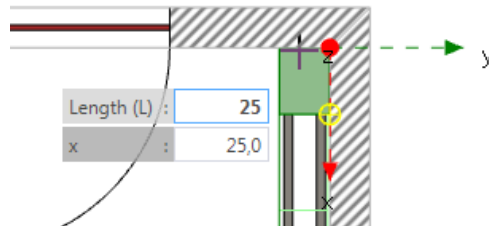
1. Mark the **Duct insert on prewall** in the **Installation walls** area.



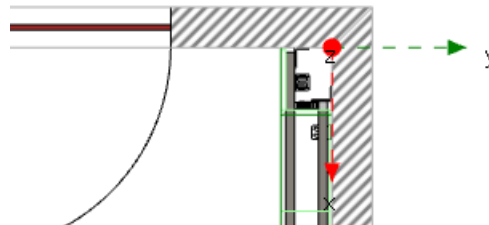
2. Select **Free** drawing mode.

3. Click in the top right corner of the room to set the starting point for the duct insert.

4. Enter the value **25 cm** in the **Length (L)** field.



5. Press **Enter** to set the duct insert.



You will recognise the different profile constructions of the room-height prewall and the duct insert as soon as you see the installation wall in the front view.

#### 4.2.5.2.5 Inserting a Corner Wall

Place the corner wall once you have inserted the prewalls.



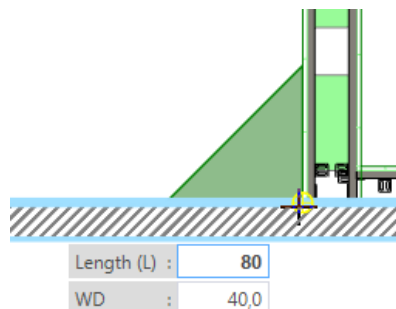
1. Mark the **Room-height corner construction** in the **Installation walls** area.



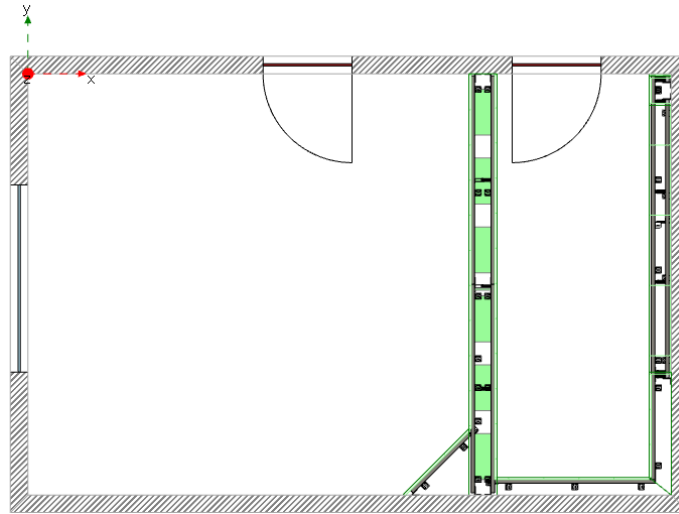
2. Select **Free** drawing mode.

3. Move the cursor into the lower right corner of the large room so that a preview of the corner wall becomes visible.

4. Enter the value **80 cm** in the **Length (L)** field.



5. Press **Enter** to set the corner wall.



6. Press **ESC** to exit the function.

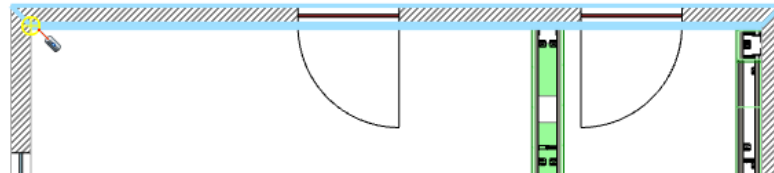
#### 4.2.5.3 Inserting Free-standing GIS Walls

To insert a free-standing GIS wall as a free-standing room divider, first manually set the reference point in the upper left corner of the room with the x-axis pointing downwards.

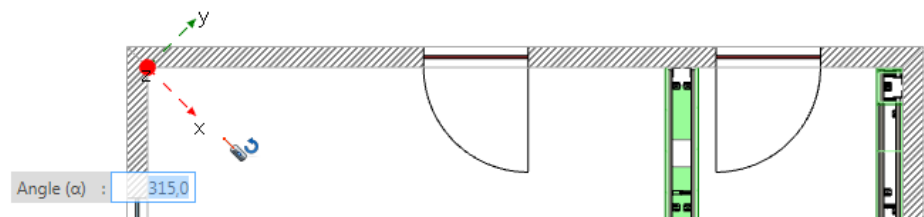
##### 4.2.5.3.1 Manually Placing Reference Points



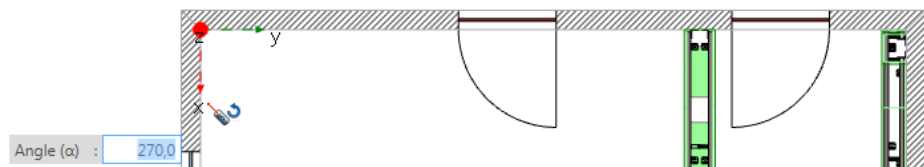
1. Activate the **Set reference point** function in the toolbar.
2. Move the cursor to the top left corner of the room.



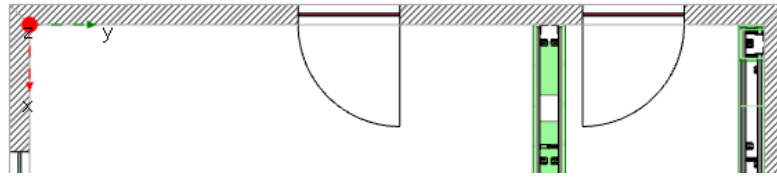
3. Click to place the reference point.



4. Move the cursor to define the alignment of the x and y-axis, as shown.



- Click in the drawing area to place the reference point.



#### 4.2.5.3.2 Inserting GIS Walls



- Mark the installation wall **Free-standing, room-height** in the **Installation walls** area.

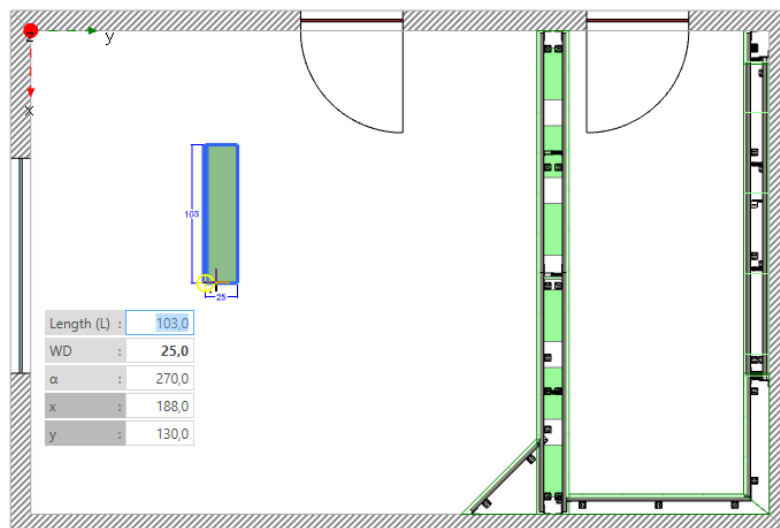


- Select the **Free** drawing mode.
- Move the cursor into the drawing area.  
✓ The cursor entry appears at the cursor.
- Enter the value **25 cm** in the **Wall depth (WD)** field, the x-value **85 cm** for the horizontal and the y-value **130 cm** for the vertical.



WD	:	25,0
x	:	85,0
Y-coordinate (y)	:	130

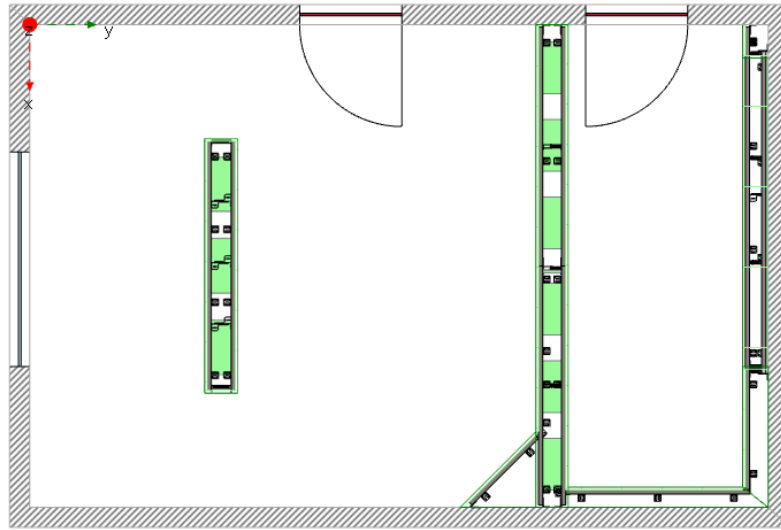
- Confirm with **Enter**.  
✓ The cursor is placed with the coordinates entered and the starting point of the room divider is set.
- Move the mouse so that the freestanding room divider points downwards.



- Enter the value **190 cm** in the **Length (L)** field and confirm with **Enter**.

8. Press **Esc** to exit the function.

✓ The wall is drawn with the length entered.



9. Activate the **Assign reference point automatically** function.

#### 4.2.5.3.3 Adjusting the building structure distance

It is possible to adjust the distance between the building structure and the GIS profile to compensate for angled floors, ceilings or walls.

1. Right-click on the freestanding GIS wall and select **Properties**.

✓ The **Installation wall** window appears.

Installation wall

Wall properties

Designation:

Wall depth (WD):

25,0

cm

Height (H):

250,0

cm

Length (L):

190,0

cm

☒ Room-height

Calculation

☒ Paneling:

GIS panel

>

☒ Sound insulation:

Sound absorption ins

☒ Distance between building structure and GIS profi...

1,8

>

cm

☐ Only use long mounting bracket

☒ Sliding ceiling connection:

Up to 5 mm

☒ Use Geberit GIS wall fixation

☐ Partial panelling in the floor area

☒ Fire protection / airborne sound insulation:

None

☐ Fire protection panels between sanitary objects

☒ Gaps for profile connectors:

1,5

cm

GIS prefabrication

☒ Prefabricate

☒ Maximum wall segment dimension 1:

260,0

cm

☒ Maximum wall segment dimension 2:

130,0

cm

OK

Cancel



- Click on the button with the arrow in the **Distance between building structure and GIS profile** setting in the **Calculation** area.

Calculation

Paneling:	GIS panel	>
Sound insulation:	Sound absorption ins	
Distance between building structure and GIS profile:	1,8	cm
<input type="checkbox"/> Only use long mounting bracket		
Sliding ceiling connection:		
<input checked="" type="checkbox"/> Use Geberit GIS wall fixation		
<input type="checkbox"/> Partial panelling in the floor area		
Fire protection / airborne sound insulation:	NONE	

Left:	1,8	cm
Right:	1,8	cm
Top:	1,8	cm
Bottom:	1,8	cm

- Enter the value **8 cm** in the **Top** field.

Left:	1,8	cm
Right:	1,8	cm
Top:	8,0	cm
Bottom:	1,8	cm

- Click on **OK** to save the setting.

#### 4.2.6 Placing Objects

Select the objects for your installation in the **Objects** window. Default objects in the small room on your plan are set first and the shower is adjusted to the specifications of the planning example. The large room is planned with an example showing how you can set a specific object instead of a default object. Finally set the recess in the shower.



Additional information can be found under Help at **Detailed planning 3D > Placing and adapting objects**.

#### 4.2.6.1 Inserting Objects into the Small Room

##### 4.2.6.1.1 Inserting a Washbasin



1. Show the **Objects** window.



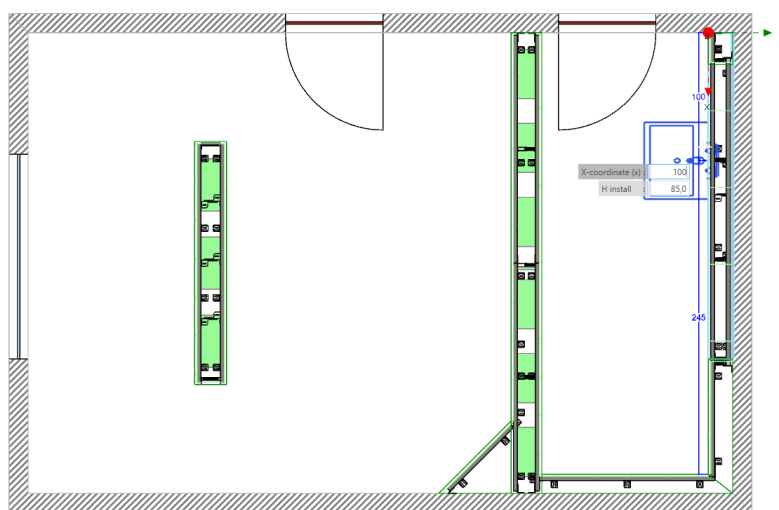
2. Select the **Washbasin**.

3. Move the cursor to the upper end of the part-height prewall.

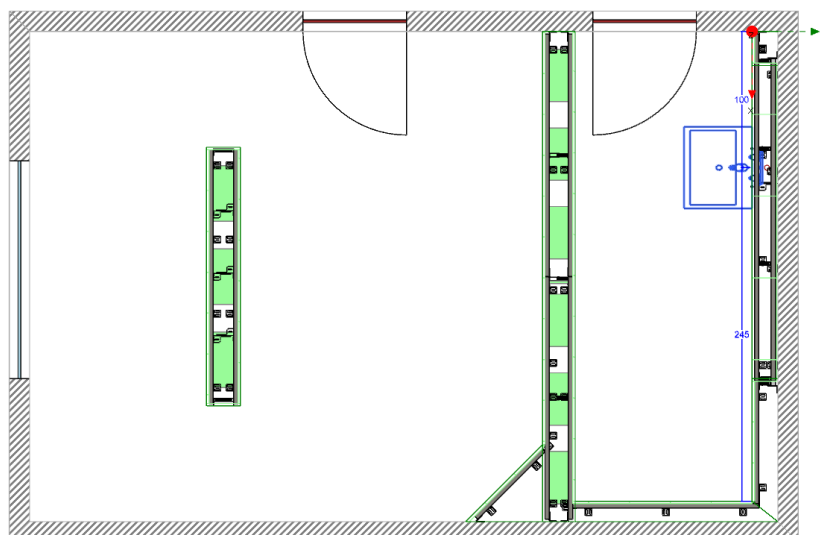
✓ A preview of the object and the cursor entry appear.

✓ The reference point is at the top end of the part-height prewall.

4. Make sure that the reference point is at the top and enter the value **100 cm** in the **X-coordinate (x)** field.



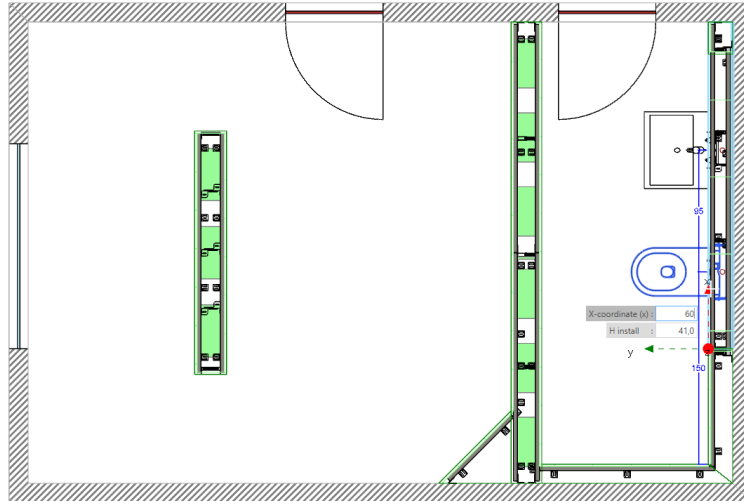
5. Press **Enter** to set the washbasin.



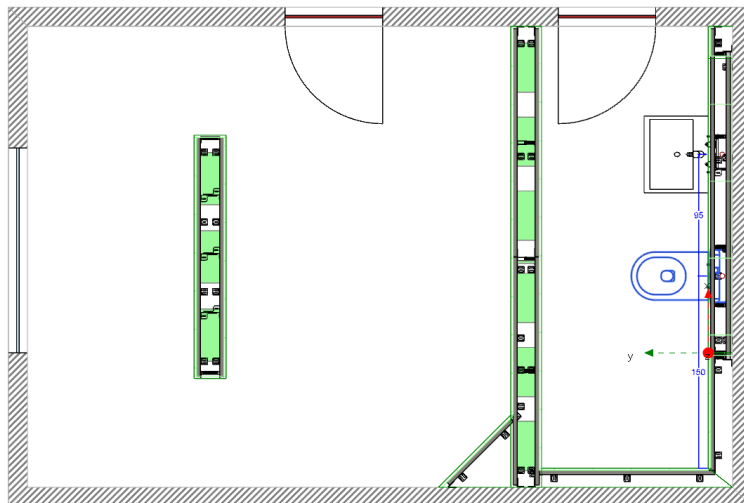
#### 4.2.6.1.2 Inserting a WC



1. Select the **WC** in the **Objects** window.
2. Move the cursor to the part-height prewall so that the reference point is at the lower end of the part-height prewall.
3. Enter the value **60 cm** in the **X-coordinate (x)** field.



4. Press **Enter** to set the WC.



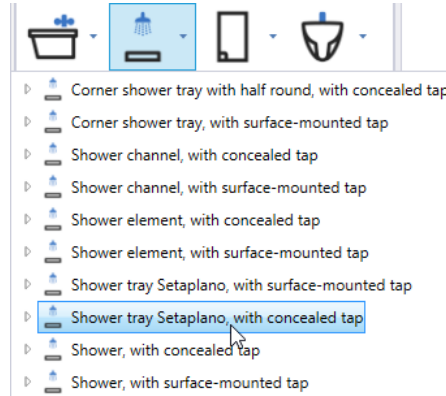
#### 4.2.6.1.3 Inserting a Shower

When entering objects, Geberit ProPlanner checks the respective installation type. Faulty installation types are listed in the Message list. In many cases, Geberit ProPlanner offers automatic correction of the error.

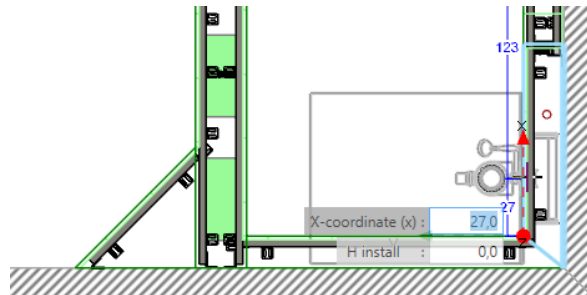
To meet this function, the shower is intentionally set incorrectly in the following step.



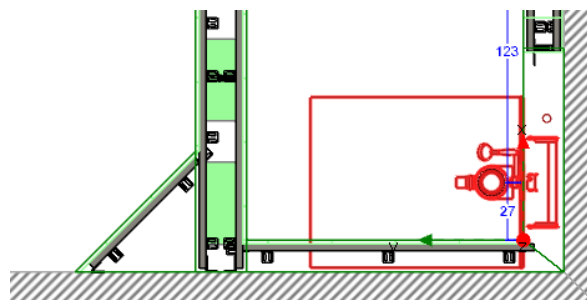
1. Select a shower tray with a concealed tap in the **Objects** window.



2. Use your mouse to place the shower so that the shower projects behind the wall.

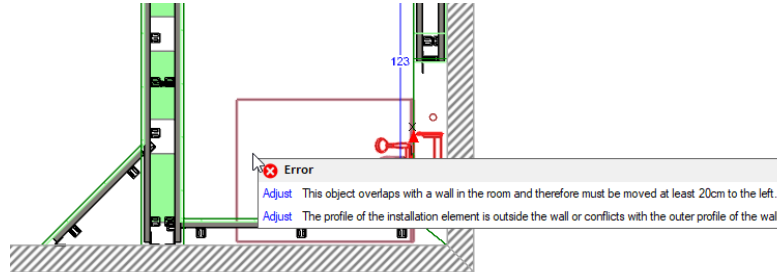


3. Click in the drawing area to set the shower.  
✓ The shower appears red in the drawing area.

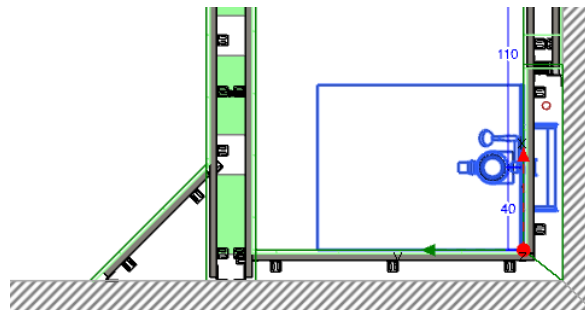


#### 4.2.6.1.4 Correcting Placement of the Shower

1. Hover with your cursor above the red highlighted shower.  
✓ An error message appears.

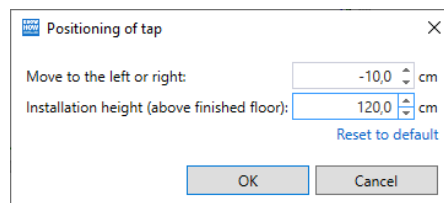


2. Click in the error message on the **Adjust** link to automatically rectify the error.  
✓ The shower was set at the correct distance to the wall.



#### 4.2.6.1.5 Moving the Shower Tap

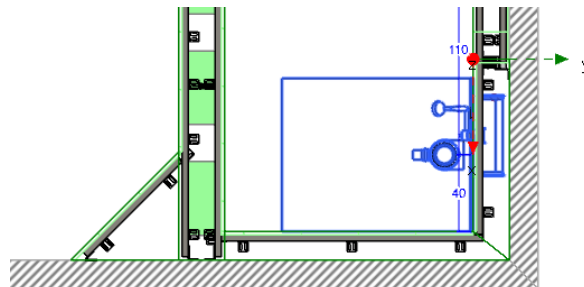
1. Highlight the shower.
2. Right-click on the shower and select **Positioning of tap** in the pop-up menu.  
✓ The **Positioning of tap** window appears.
3. Enter the following values to move the shower tap 10 cm to the left and position it at an installation height of 120 cm.



Negative values move an object to the left and/or downwards, while positive values move an object to the right and/or upwards respectively.

4. Confirm with **OK**.

✓ The shower tap has been moved.



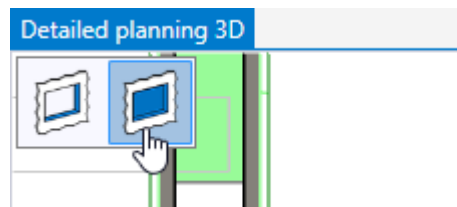
4.2.6.1.6 Inserting a Recess



1. Mark the **Niche** in the **Installation walls** area in the **Masonry walls and installation walls** window.



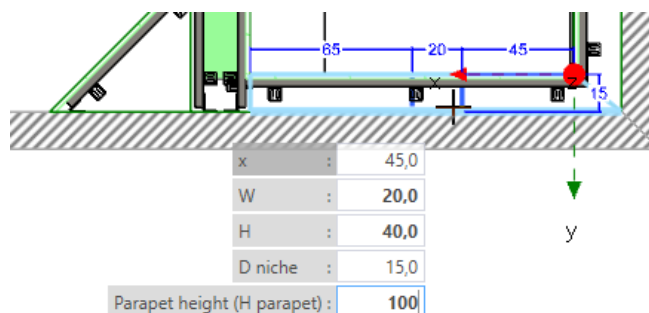
2. Select **Niche with back panel** at the top left of the drawing area.



3. Move the cursor to the wall at the shower so that the reference point lies in the right corner.

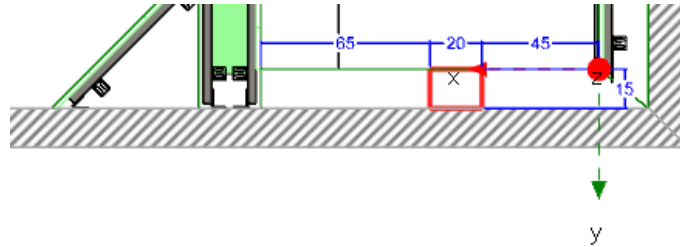
4. Use the cursor to enter the following values:

- **X-coordinate (x):** 45 cm
- **Width (W):** 20 cm
- **Height (H):** 40 cm
- **D niche:** 15 cm
- **Parapet height (H parapet):** 100 cm

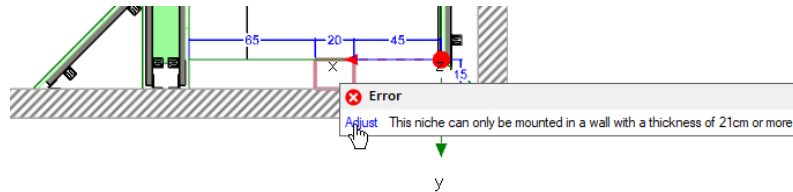


5. Press **Enter** to set the niche.

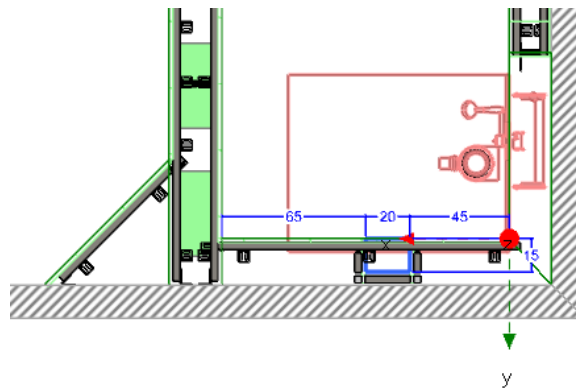
- ✓ The niche appears red in the drawing area as the selected depth of niche with back panel can only be installed in walls with a minimum wall thickness of 21 cm. These errors are rectified below using the automatic correction function.



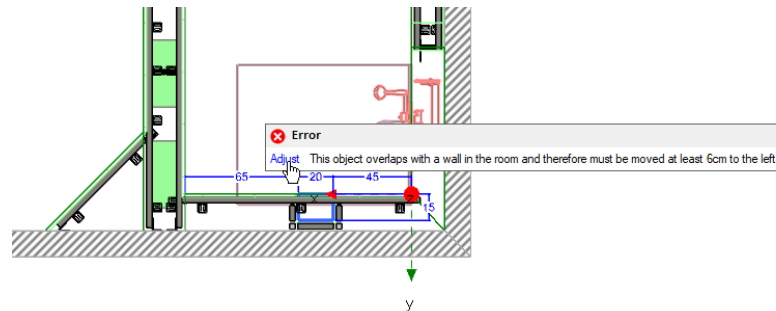
6. Hover the cursor above the niche marked in red and click on the **Adjust** link in the error message.



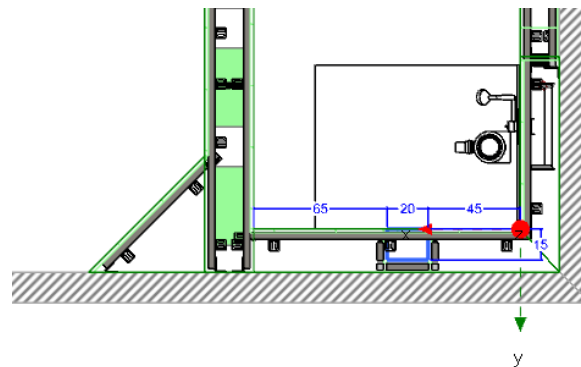
- ✓ Geberit ProPlanner corrects the wall thickness so that the niche can be installed.
- ✓ The altered wall thickness now generates an error with the position of the shower. This can also be rectified with the automatic correction function.



7. Hover the cursor above the shower marked in red and click on the **Adjust** link in the error message.



- ✓ The position of the shower has been corrected.
- ✓ All errors have been corrected.




#### 4.2.6.1.7 Inserting mounting plates

Mounting plates can be adjusted precisely to fit in the gaps between GIS profiles to fasten towel rails, soap dispensers etc.

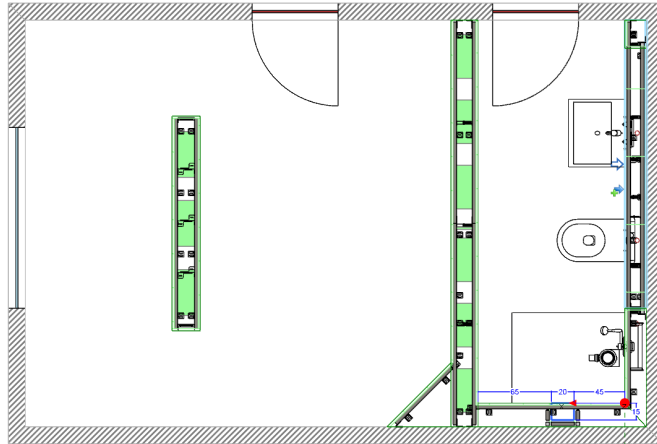
The mounting plate is inserted in the front view.



- Every front view layer is labelled in the floor plan by a numbered front view arrow. Show and hide these front view arrows by clicking on **Display front view arrow** in the toolbar .
- If you are setting several front views, each front view is displayed on a separate tab.
- To delete front views, click in the tab on **X**.



1. Click on **Add front view** in the toolbar.
2. Move the cursor between the washbasin and the WC.



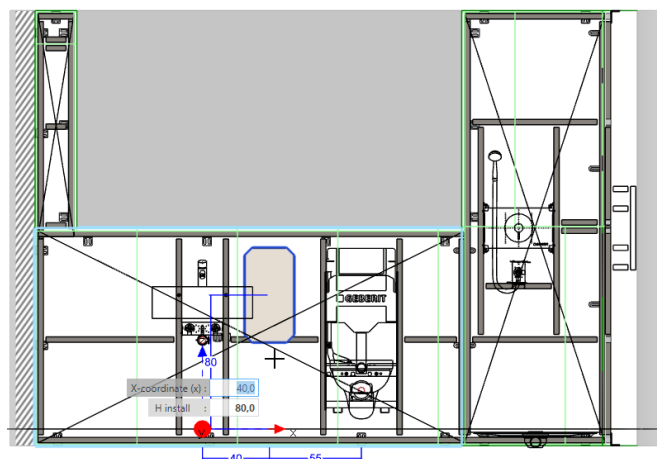
3. Click in the drawing area to set the front view.  
✓ The front view appears in the **Front views** window.
4. Enlarge the **Front views** window and show it permanently.



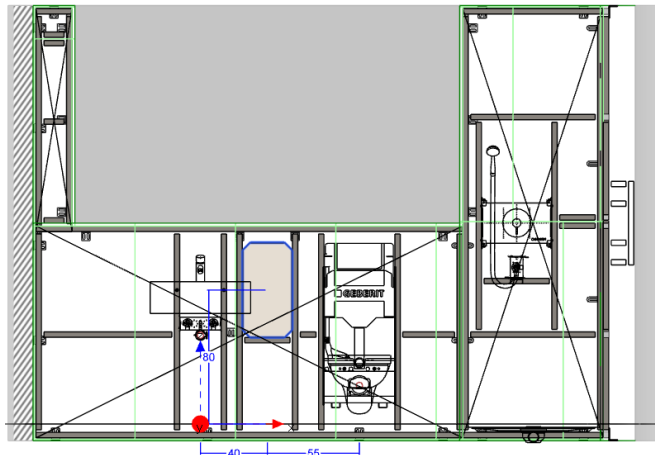
5. Show the **Objects** window.



6. Select the **Mounting plate** in the **Objects** window.
7. Move the cursor between the washbasin and the WC so that the reference point lies on the washbasin.
8. In the cursor entry, enter the value **40 cm** in the **X-coordinate (x)** field and the value **80 cm** in the **Installation height (H install)** field.



9. Press **Enter** to set the mounting plate.

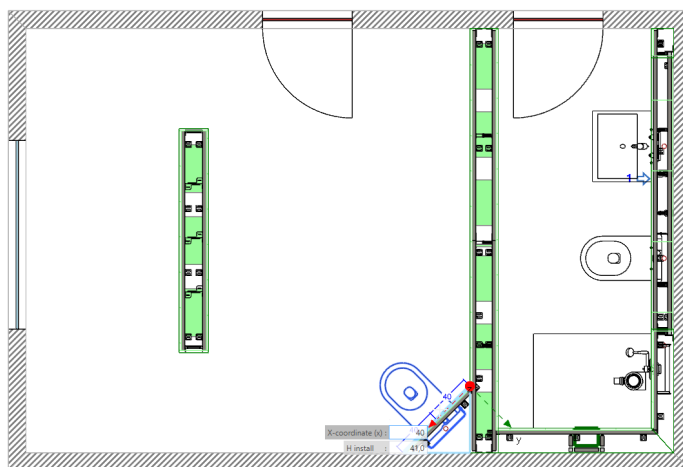


#### 4.2.6.2 Inserting Objects into the Large Room

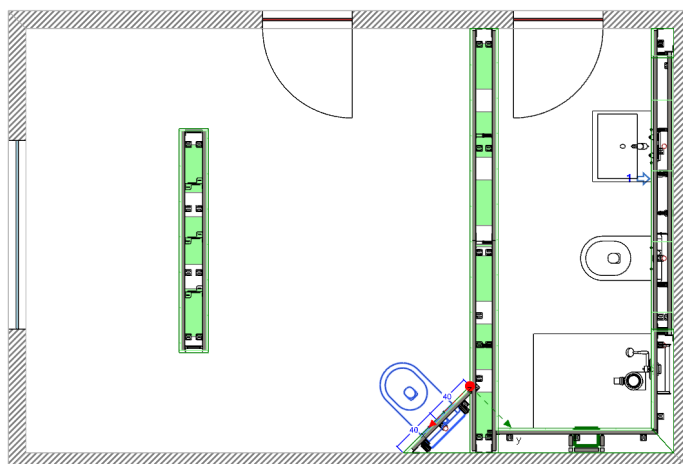
##### 4.2.6.2.1 Inserting a WC into the Corner



1. Mark the **WC** in the **Objects** window.
2. Move the cursor to the corner wall of the large room.
3. Enter the value **40 cm** in the **X-coordinate (x)** field.

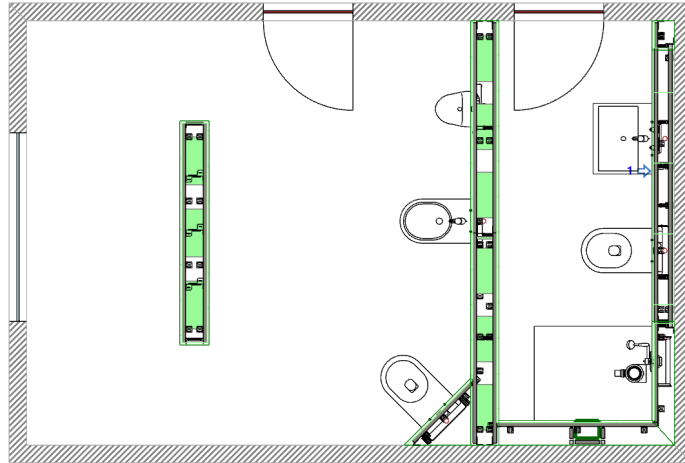


4. Confirm with **Enter** to set the WC.



#### 4.2.6.2.2 Inserting a Bidet and Urinal

- Set the bidet and the urinal as per the planning specification (see "Large bathroom", page 127).



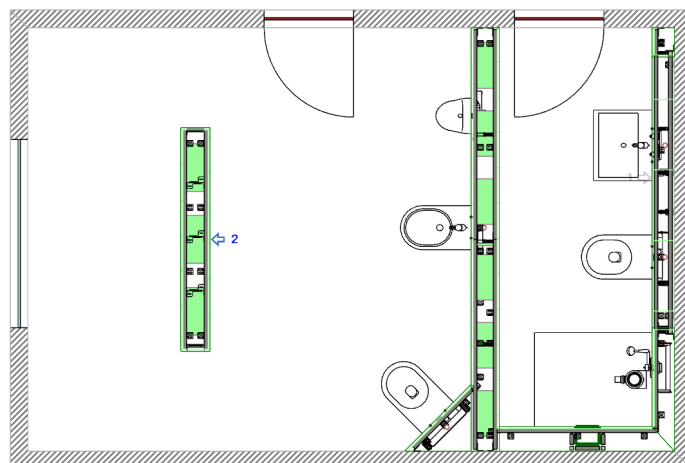
#### 4.2.6.3 Inserting a washbasin construction

A washbasin construction is inserted on the free-standing installation wall in the large room to install a double washbasin. Washbasin constructions can be flexibly adapted and various construction elements can be added.

##### 4.2.6.3.1 Adding the front view



- Activate the **Add front view** function and place a front view on the free-standing installation wall.



#### 4.2.6.3.2 Inserting a washbasin construction

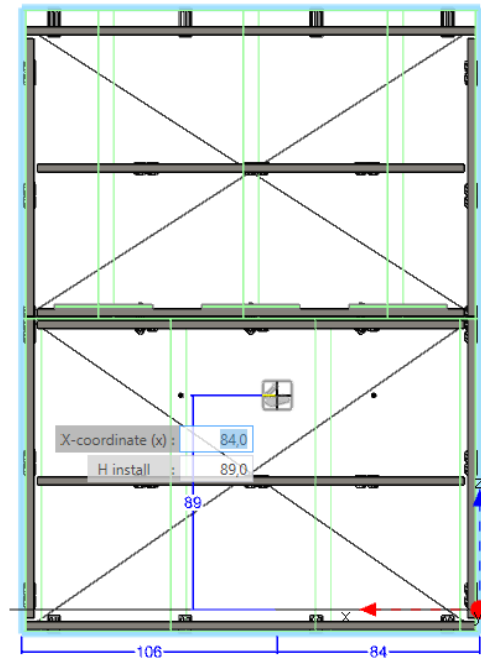


1. Show the **Front view 2** in the **Front views** window.

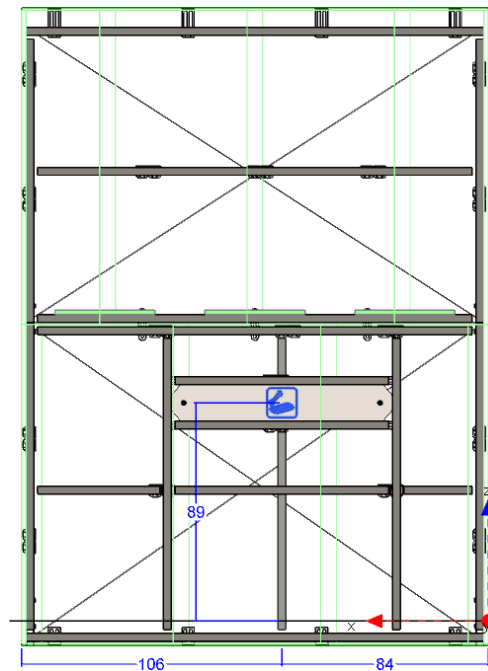


2. Select the **Washbasin construction** in the **Objects** window.

3. Move the cursor onto the free-standing installation wall.

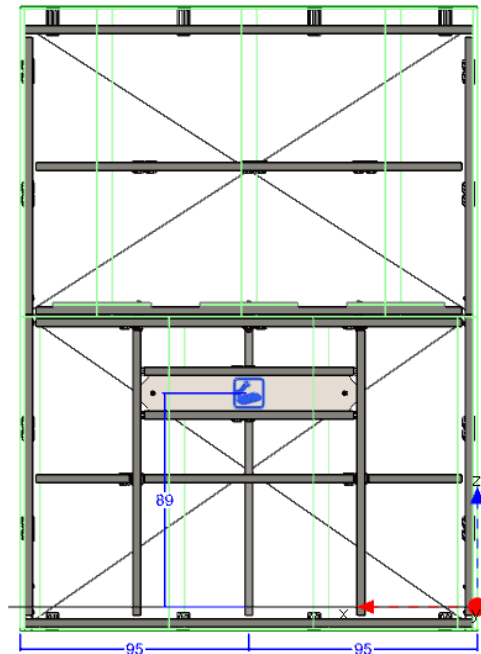


4. Press **Enter** to place the washbasin construction.



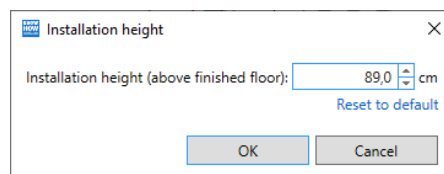
#### 4.2.6.3.3 Adapting the position of the washbasin construction

- Right-click on the washbasin construction and select **Positioning** and then **Centered** in the pop-up menu.
- ✓ The washbasin construction is aligned centrally.

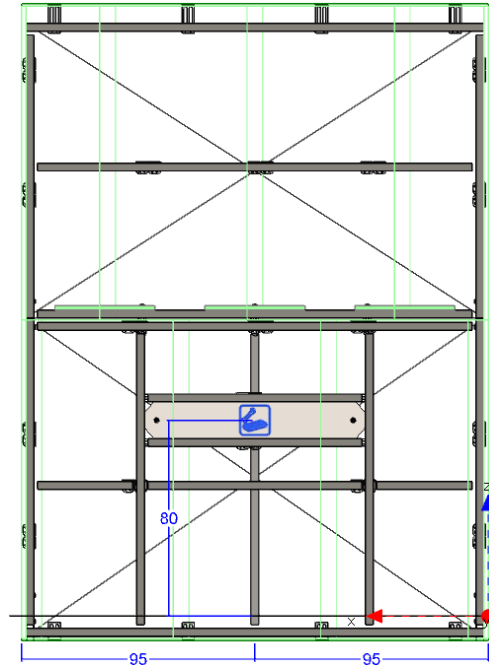


#### 4.2.6.3.4 Adapting the installation height of the washbasin construction

1. Right-click on the washbasin construction and select **Installation height** in the pop-up menu.
- ✓ The **Installation height** window appears.

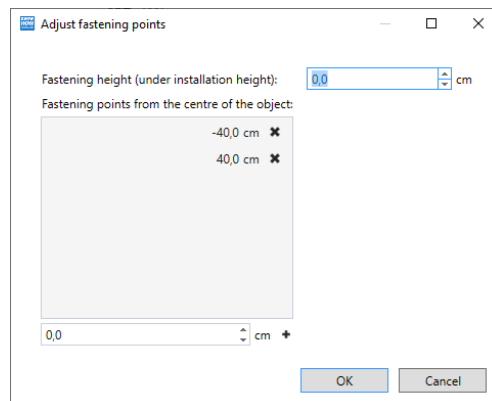


2. Enter the value **80 cm** in the **Installation height (above finished floor)** field and click on **OK**.  
✓ The installation height of the washbasin construction is adapted.



#### 4.2.6.3.5 Adding fastening points

1. Right-click on the washbasin construction and select **Adjust fastening points** in the pop-up menu.  
✓ The **Adjust fastening points** window appears.



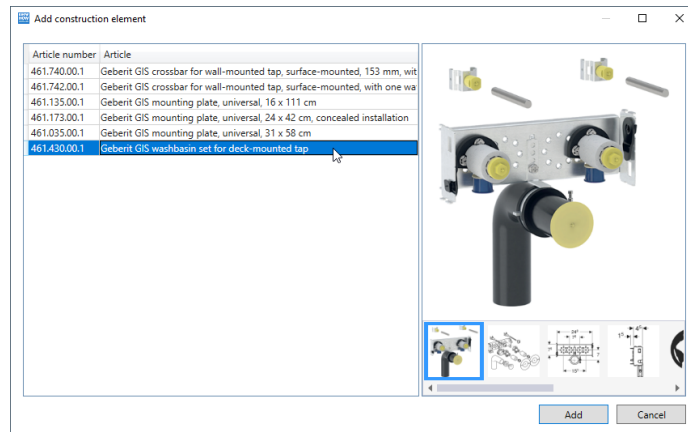
2. Leave the value in the input field as **0.0 cm** and click on the plus symbol to add a fastening point.



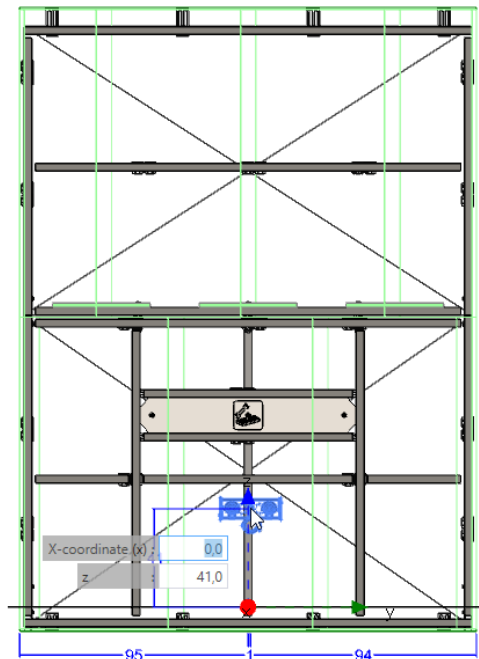
3. Click on **OK** to save the settings.

#### 4.2.6.3.6 Adding a washbasin set

1. Right-click on the washbasin construction and select **Add construction element** in the pop-up menu.  
✓ The **Add construction element** window appears.
2. Select the **GIS washbasin set for deck-mounted tap**.

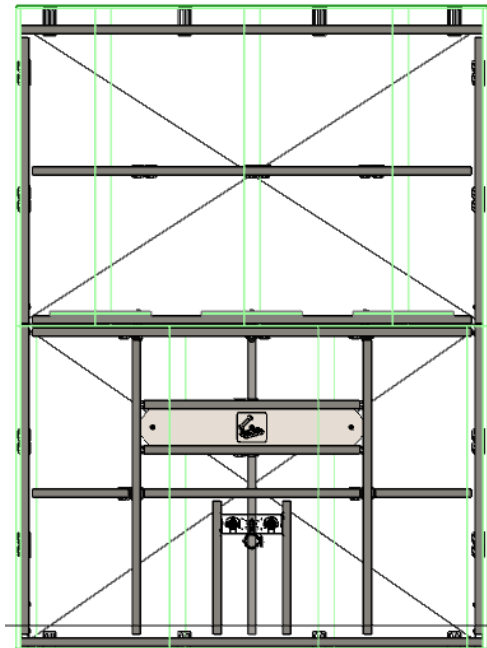


3. Click on **Add**.  
✓ The washbasin set is suspended from the cursor.
4. Position the washbasin set approximately in the middle of the installation wall below the washbasin construction.



5. Click in the drawing area to place the washbasin set.

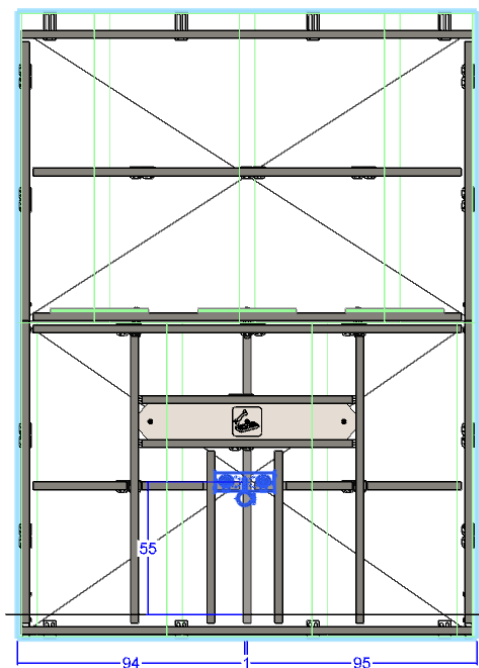
6. Press **ESC** to exit the function.



#### 4.2.6.3.7 Adapting the installation height of the washbasin set

You can use the arrow keys on the keyboard to move walls and objects in your drawing in Geberit ProPlanner. The preview dimensions allow you to read off the exact position of the walls or objects.

1. Highlight the washbasin set.
2. Move the washbasin set by pressing the **arrow keys** until it is central in the installation wall and at a height of 55 cm.

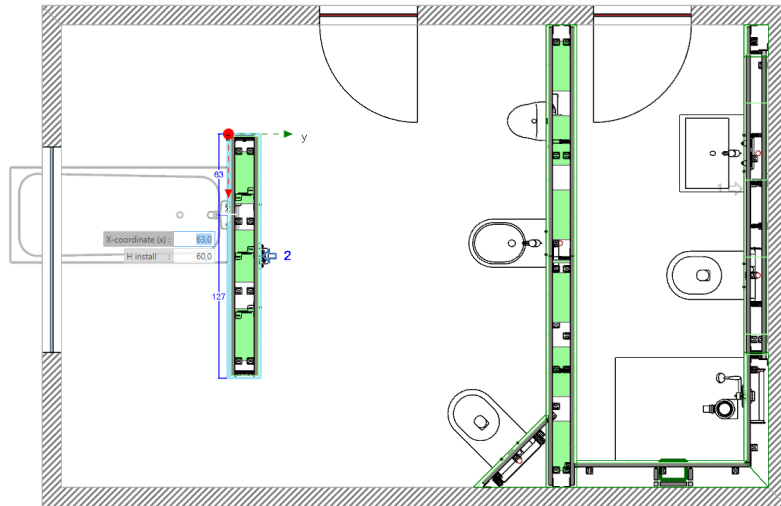


#### 4.2.6.4 Inserting the Bathtub

1. Switch to the floor plan.

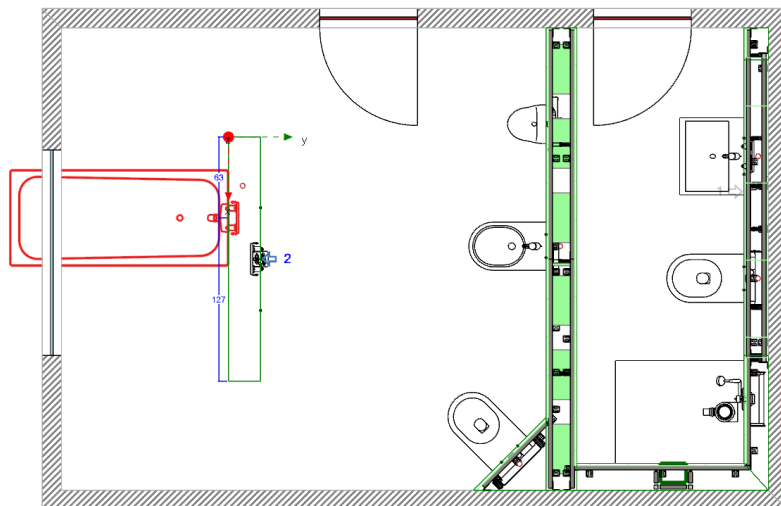


2. Highlight the **Bathtub** in the **Objects** window.
3. Move the cursor onto the free-standing GIS wall.

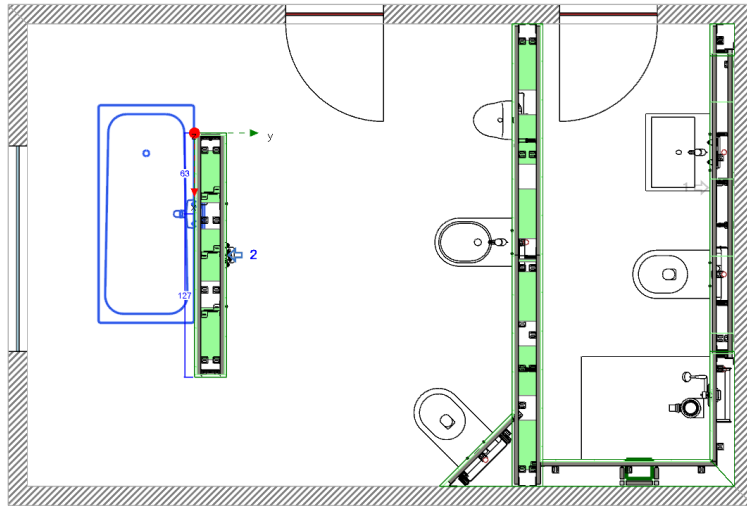


4. Click in the drawing area to set the bathtub.

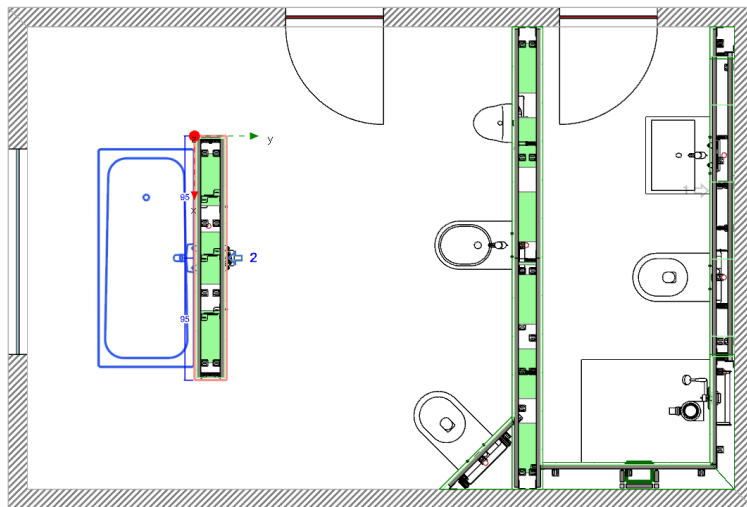
- ✓ As there is insufficient space for the bathtub, the bathtub appears red in the drawing area and the Message list also shows a corresponding error message.



5. Right-click on the bathtub and select **Rotate** and then **Rotate anti-clockwise** in the pop-up menu.  
✓ The bathtub is turned 90° counter-clockwise and placed on the free-standing GIS wall.



6. To align the bathtub centrally on the free-standing GIS wall, right-click once again on the bathtub and select **Positioning** and then **Centered** in the pop-up menu.  
✓ The bathtub is aligned centrally on the free-standing GIS wall.

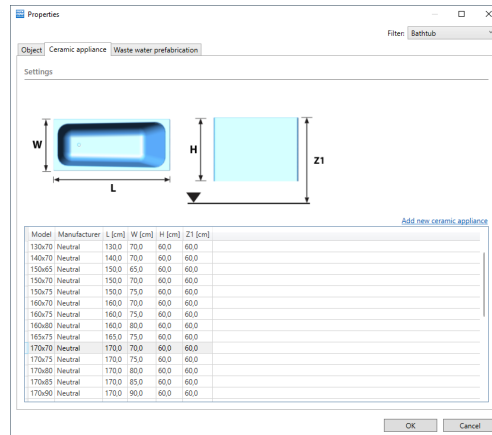


The message list shows that the installation wall cannot be correctly calculated as two sanitary appliances are overlapping. This error message is subsequently cancelled by moving the bathtub tap.

#### 4.2.6.4.1 Changing the size of the bathtub

The default bathtub was inserted with the dimensions 170 x 75 cm. In this step you will now adapt the size of the bathtub in line with the specifications of the planning example.

1. Right-click on the bathtub and select **Properties** in the pop-up menu.  
✓ The **Properties** window appears.
2. Select the **Ceramic appliance** tab.



3. Select a bathtub from the list with the dimensions 190 x 80 cm.

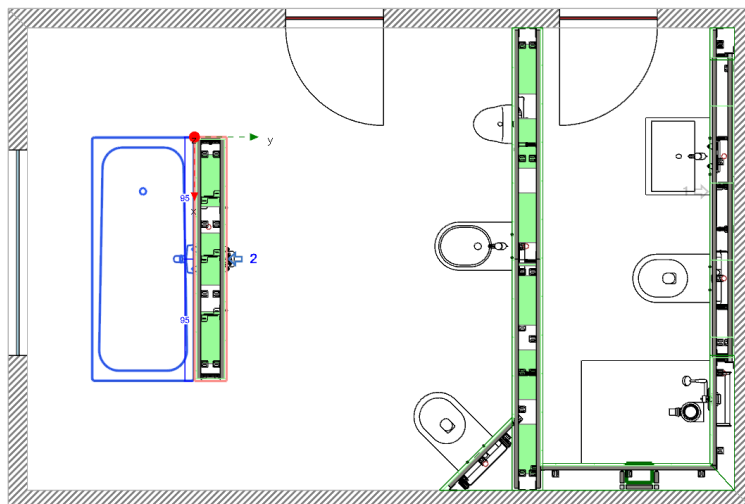
[Add new ceramic appliance](#)

Model	Manufacturer	L [cm]	W [cm]	H [cm]	Z1 [cm]
185x105	Neutral	185,0	105,0	60,0	60,0
190x75	Neutral	190,0	75,0	60,0	60,0
190x80	Neutral	190,0	80,0	60,0	60,0
190x90	Neutral	190,0	90,0	60,0	60,0
190x100	Neutral	190,0	100,0	60,0	60,0



Use the **Add new ceramic appliance** link to create a new ceramic appliance with user-defined dimensions.

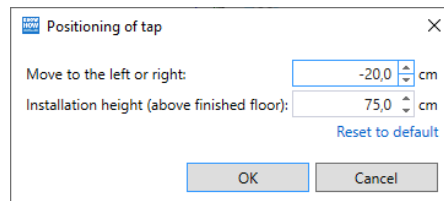
4. Confirm with **OK**.  
✓ The size of the bathtub has been adapted.



#### 4.2.6.4.2 Moving the bathtub tap

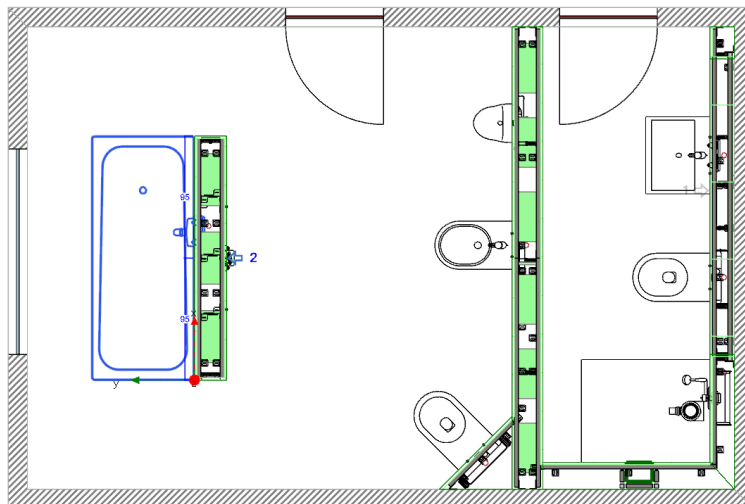
The bathtub tap is moved to cancel the error message in the message list.

1. Right-click on the bathtub and select **Positioning of tap** in the pop-up menu.  
✓ The **Positioning of tap** window appears.
2. Enter the value **-20** cm in the **Move to the left or right** field to move the bathtub tap 20 cm to the left.



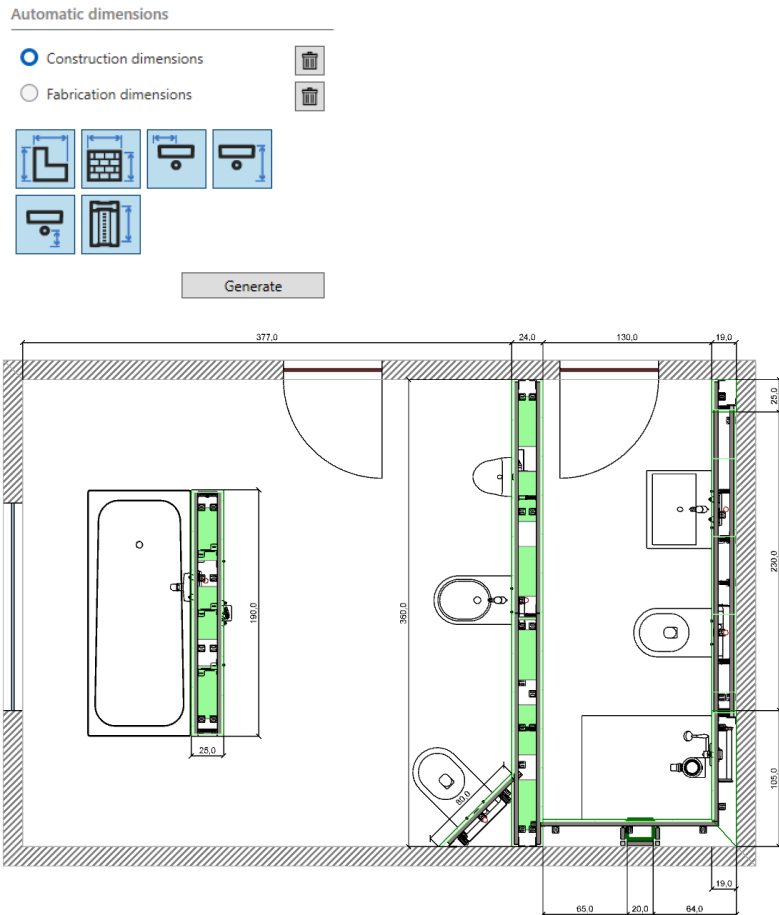
Negative values move an object to the left and/or downwards, while positive values move an object to the right and/or upwards respectively.

3. Confirm with **OK**.  
✓ The bathtub tap has been moved.  
✓ The installation wall can be calculated correctly.

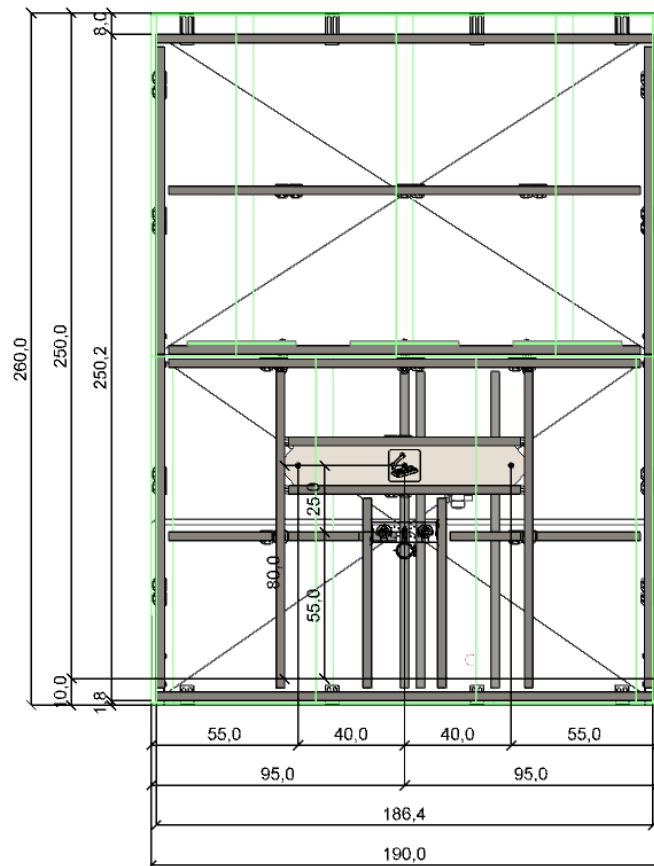


#### 4.2.7 Dimensioning the Planning Example

1. Dimension your plan, as described in the first planning example.
2. To do so, use the following settings to dimension the building structure distances at the same time.



The dimensions of the adapted building structure distance on the free-standing GIS wall can be seen in the **Front view 2**.




















#### 4.2.8 Defining the Paper Format and Drawing Scale

You can prepare your plan for printing once you have completed and dimensioned your plan. First you need to show the drawing frame again.

##### 4.2.8.1 Showing the Drawing Frame



1. Show the **Layer** window.
2. Expand the **Drawing area** by clicking on ▸.
3. Click on the light bulb symbol beside **Title block** and **Drawing frame** in the **Plan view** column until it has a blue background .

▾ Drawing area				
Title block				
Drawing frame				
Grid				

#### 4.2.8.2 Defining the paper format and drawing scale

Now define the paper format and drawing scale as described in the first planning example (see "Defining the Paper Format and Drawing Scale", page 52).

1. Select **A3** as the **Paper format** and **Landscape** as the **Orientation**.



- If your printer does not support **A3 Paper format**, you can print the planning example split over several pages.
- More information on printing is available in the training manual **Installation and basic functions** and in the Help at **Printing > Printing graphics**.



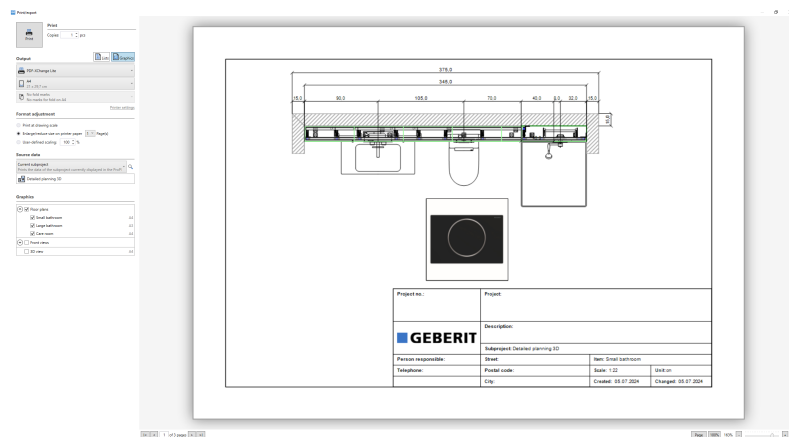
2. Click on **Adjust drawing frame** in the toolbar.
3. Then increase the drawing scale to the next common ratio.

#### 4.2.9 Saving the planning example as a 3D AutoCAD

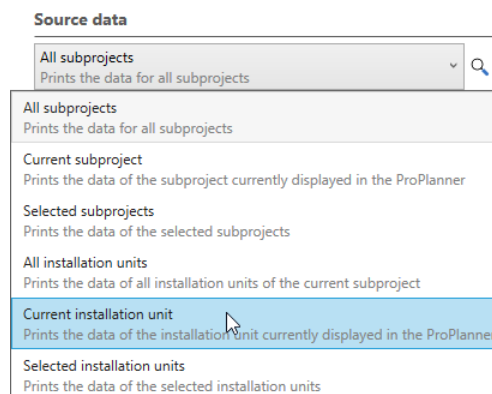
You can then save the planning example as a 3D AutoCAD file, possibly to continue working on it in AutoCAD among others.



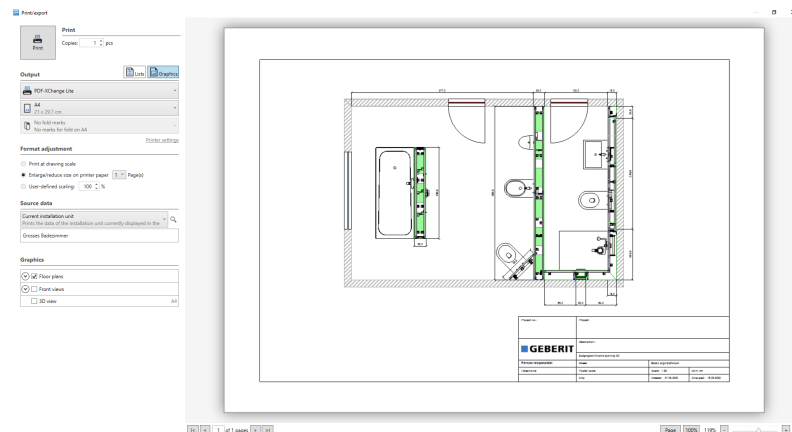
1. Click on **Display/print graphics** in the toolbar.  
✓ The **Print/export** window appears.



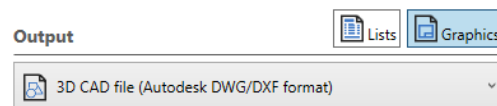
2. Select **Current installation unit** in the **Source data** area.



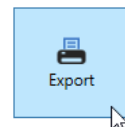
- ✓ The preview of the current installation unit is displayed.



3. Select **3D CAD file (Autodesk DWG/DXF format)** in the **Output** area.



4. Click on **Export**.



## 4.3 Reproducing a room on an imported plan

Import different image files (e.g. AutoCAD DXF/DWG, SVG, JPEG) and draw plans based on the imported graphics and images in the Detailed planning 3D module. This will be explained below on the basis of a real CAD plan.

This chapter covers the following learning content:

- Importing a CAD Plan
- Reproducing a room on a CAD plan
- Placing objects on CAD

A graphic visualisation of the planning example can be found at the end of the training manual (see "Treatment room", page 128).



The CAD plan contains several rooms. The procedure is described for a single room. You can also reproduce the other rooms as practice.

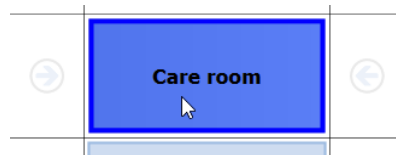


Download the training file from the following address if you do not have it:  
[https://buildv1geberit.blob.core.windows.net/e-learning/Proplanner/Training\\_manuals.zip](https://buildv1geberit.blob.core.windows.net/e-learning/Proplanner/Training_manuals.zip).

### 4.3.1 Selecting an installation unit



- Select the **Care room** installation unit in the **Building** window.



### 4.3.2 Hiding the drawing frame

The drawing frame is hidden to prevent the lines of the drawing frame from concealing parts of the CAD plan.

- Hide the drawing frame and the title block, as described in the previous planning example (see "Hiding the Drawing Frame", page 59).

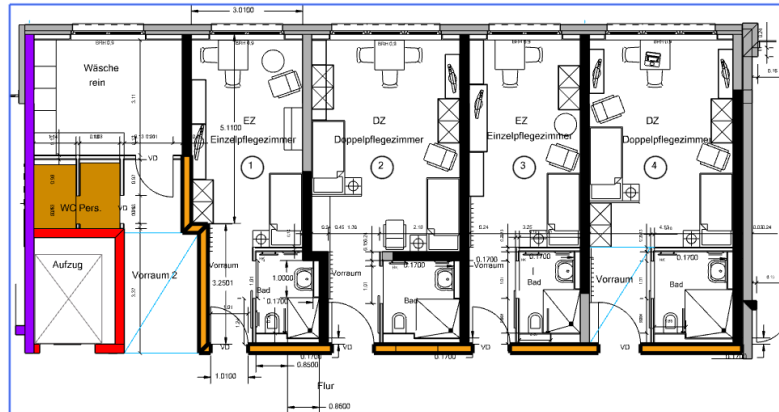
### 4.3.3 Importing CAD plans

#### 4.3.3.1 Reading CAD plans



1. Click in the toolbar on **Import image or CAD plan**.
2. Select the training file **Care.dwg** in the **Import image or CAD plan** window.
3. Click on **Open**.
  - ✓ The CAD file is read and is suspended from the cursor.

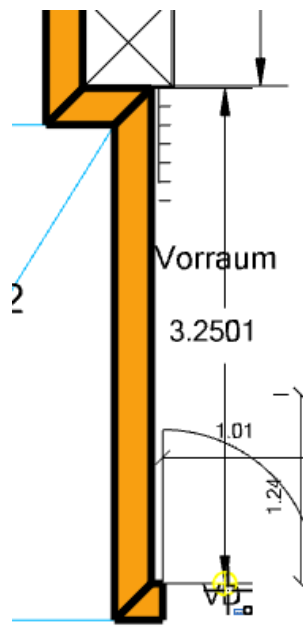
- Click in the drawing area to place the CAD plan.



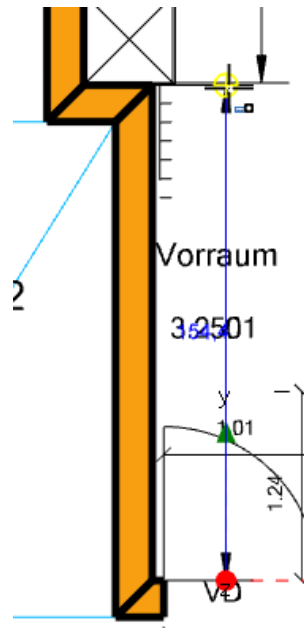
#### 4.3.3.2 Defining the scale

You need to specify the scale before being able to work with the scaled CAD plan. To do this, as long a section as possible is measured, the length of which is known.

- Mark the CAD plan.
- Right-click on the CAD plan and select **Scale image/CAD plan** in the pop-up menu.
- Click in the CAD plan on the lower starting point of the dimension line in the vestibule to place the starting point of the section.

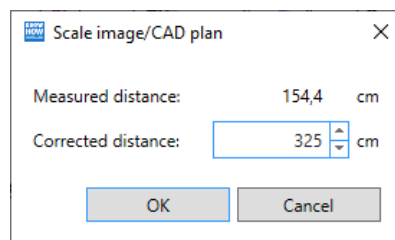


4. Click in the CAD plan on the end point of the dimension line in the vestibule to place the end point of the section.



✓ The **Scale image/CAD plan** window appears.

5. Enter the value **325** cm in the **Corrected distance** field.



6. Confirm with **OK**.



- The current section length is shown while the distance is measured.
- You can zoom with the mouse wheel to get a better detail view.

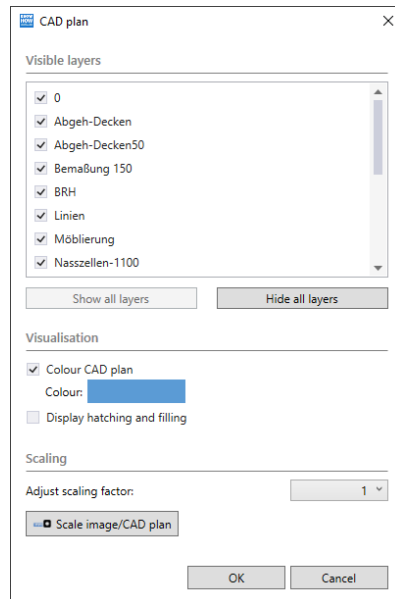
#### 4.3.3.3 Colouring the CAD plan

You can colour the CAD plan to be able to identify the CAD plan and ensure that it differs from any later drawing.

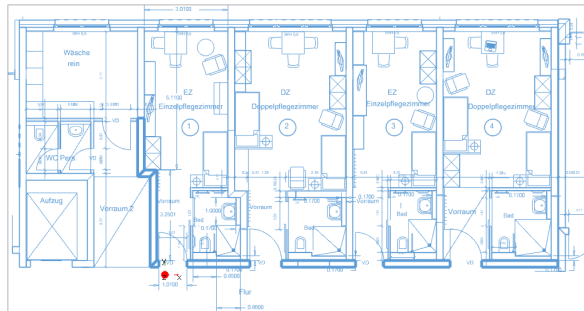


1. Show the **Layer** window.
2. In the **Images and CAD plans** section, right-click on the CAD plan and select **Properties** in the pop-up menu.
  - ✓ The **CAD plan** window appears.
3. Activate the **Colour CAD plan** checkbox in the **Visualisation** area.

4. Click on **Colour** and select a colour.
5. Deactivate **Display hatching and filling**.



6. Confirm with **OK**.



#### 4.3.3.4 Fixing the CAD plan

We recommend fixing the CAD plan for the other steps. You can then draw objects in the drawing area without the CAD plan being moved.



1. Show the **Layer** window.
2. Expand the **Background** by clicking on ▸.
3. Click on the lock symbol beside **CAD plans** until it has a blue background (🔒).



- ✓ The CAD plan can no longer be selected and thus cannot be inadvertently moved or changed when drawing.



Additional information on the use of CAD plans can be found under Help at **Detailed planning 3D > Figures and CAD plans**.

#### 4.3.4 Drawing rooms

You can reproduce the plan as soon as you have specified the scale and fixed the CAD plan.

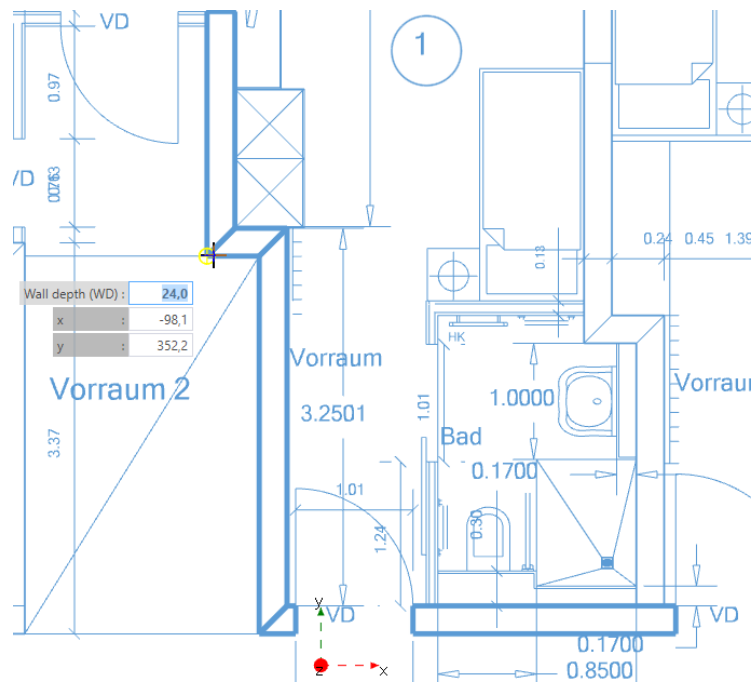
The solid outer walls of the room are not fully reproduced below as not all outer walls are required for the bathroom.

##### 4.3.4.1 Reproducing solid walls

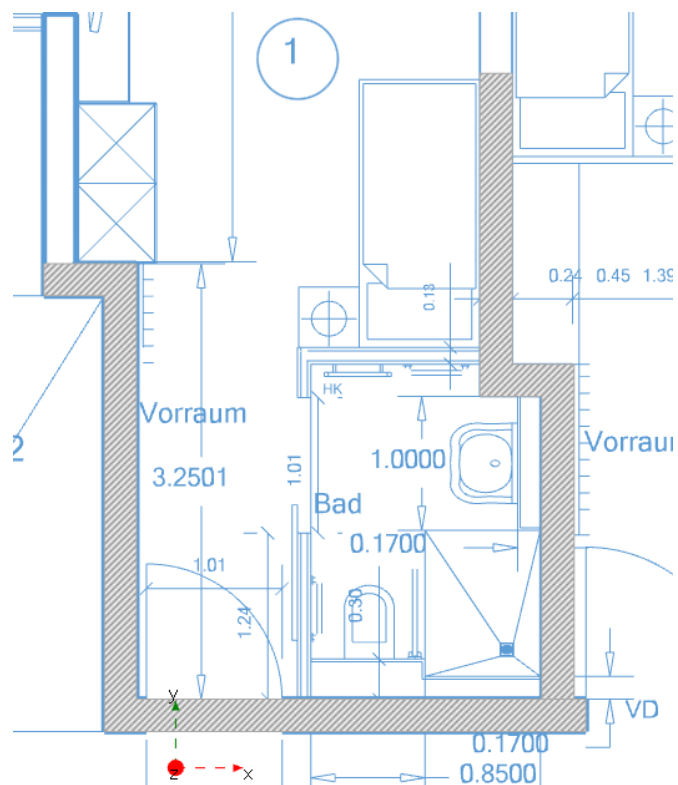
The outer walls of the room are drawn as solid walls. The lightweight walls for the bathroom are then drawn.



1. Mark the **Solid wall, room-height** in the **Walls** area in the **Masonry walls and installation walls** window.
2. Enter the value **24** cm in the cursor entry in the **Wall depth (WD)** field.
3. Click in the CAD plan on the outer left corner to place the starting point of the solid wall.



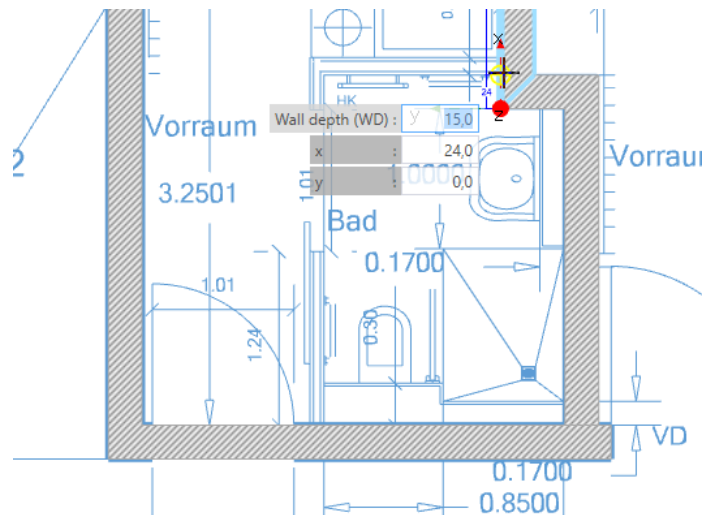
4. Go around the room to the point shown by clicking on the inner corner points of the wall. If required, press the **Z** key to change the wall side when drawing.



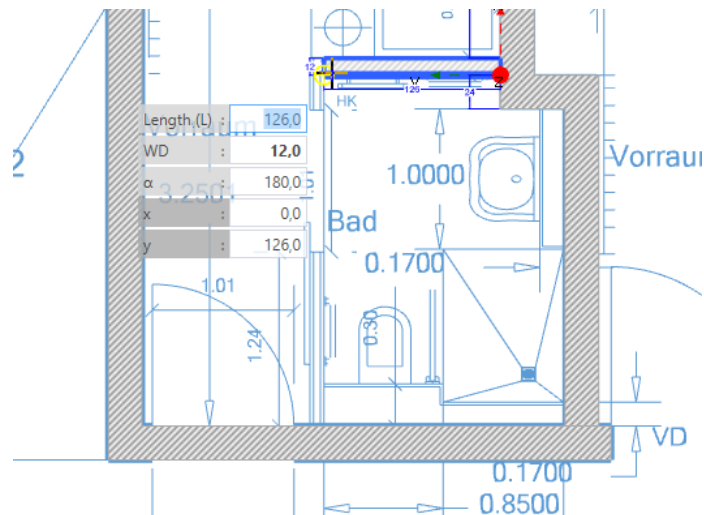
#### 4.3.4.2 Reproducing lightweight walls



1. Mark the **Lightweight wall, room-height** in the **Walls** area in the **Masonry walls and installation walls** window.
2. Enter the value **12 cm** in the cursor entry in the **Wall depth (WD)** field.
3. Click on the point in the CAD plan at which the lightweight wall meets the solid wall.

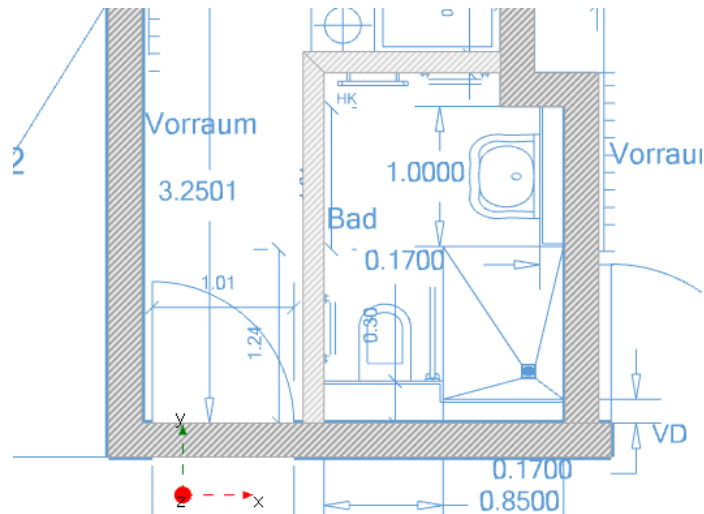


4. Move the cursor to the left and press **Z** to switch the wall side when drawing.
5. Click on the inner corner point of the lightweight wall.



6. Drag the lightweight wall as far as the solid wall and click in the drawing area.

7. Press **ESC** to exit Drawing mode.

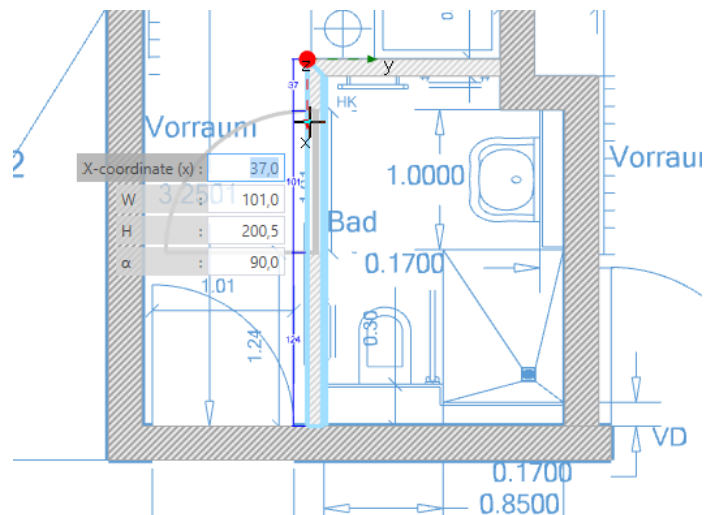


#### 4.3.4.3 Inserting doors

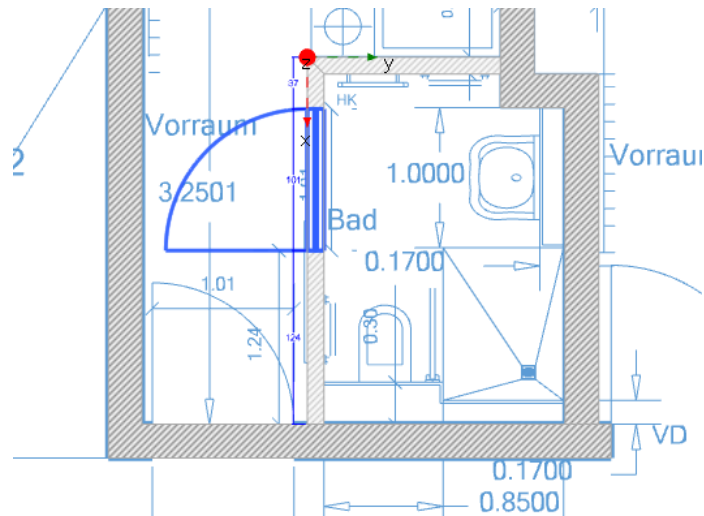
A sliding door is provided in the CAD plan for access to the bathroom. Insert a normal door in the planning example instead.



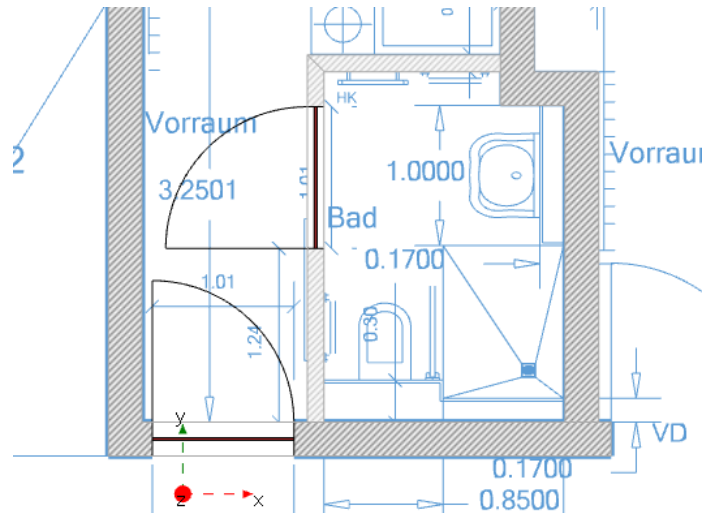
1. Highlight the **Door (101x200.5)** in the **Doors and windows** area of the **Masonry walls and installation walls** window.
2. Move the cursor onto the lightweight wall in the CAD plan and position the door at the correct point.  
✓ The door automatically clicks into place at the capture points in the CAD plan.



- Click in the CAD plan to insert the door.



- Insert the second door in the same way.



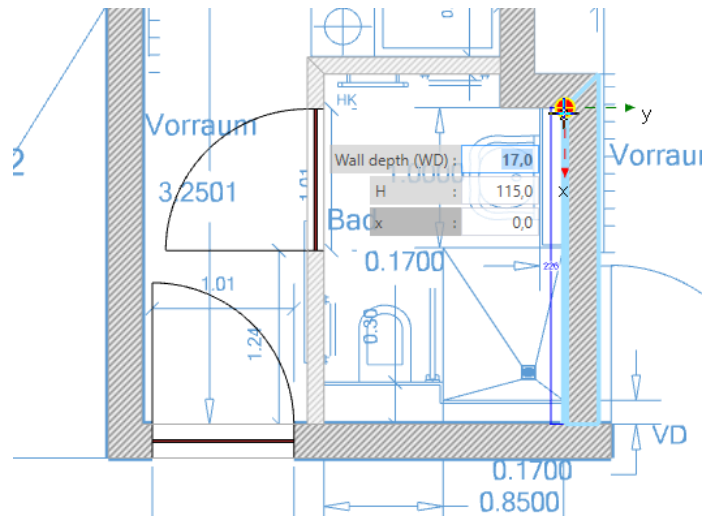
#### 4.3.4.4 Inserting prewalls



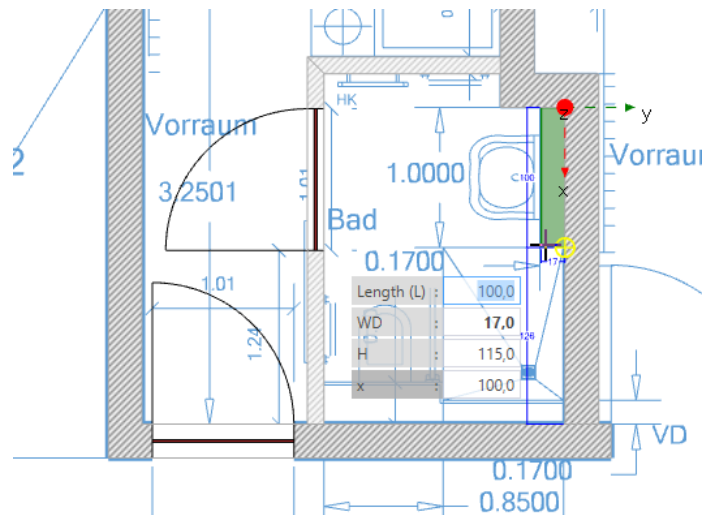
- Select the part-height prewall in the **Masonry walls and installation walls** window.
- Select **Free** drawing mode.
- Enter the value **17** cm in the cursor entry in the **Wall depth (WD)** field.



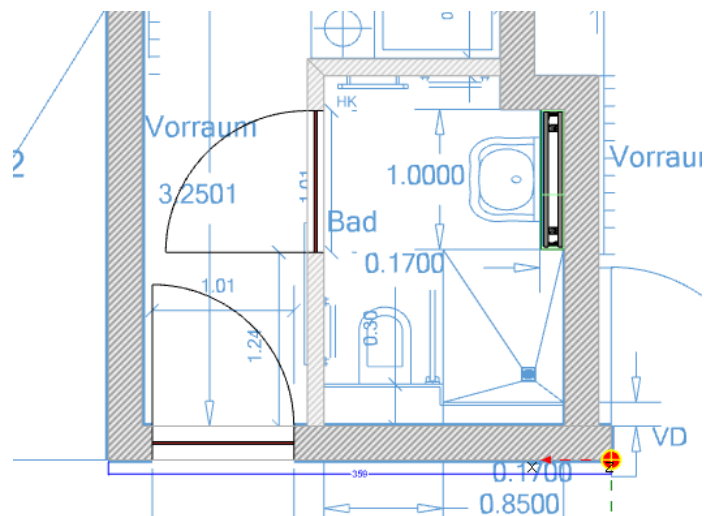
4. Click in the CAD plan on the washbasin in the right inside corner.



5. Move the cursor down and click as soon as the prewall snaps into the capture point.

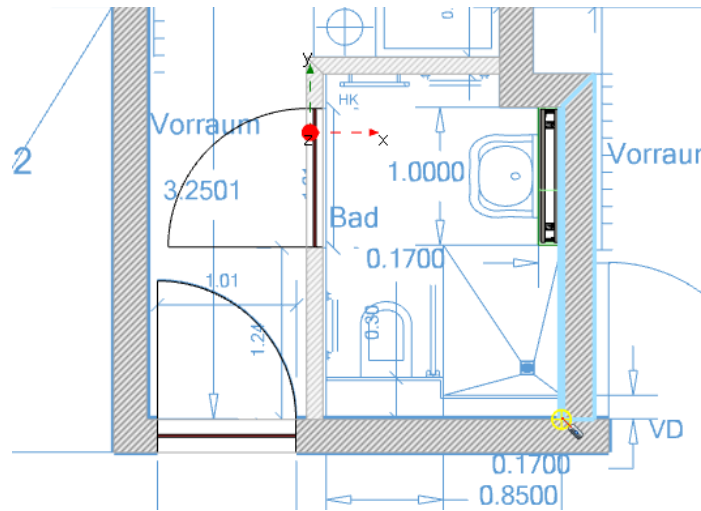


6. Press **ESC** to exit Drawing mode.

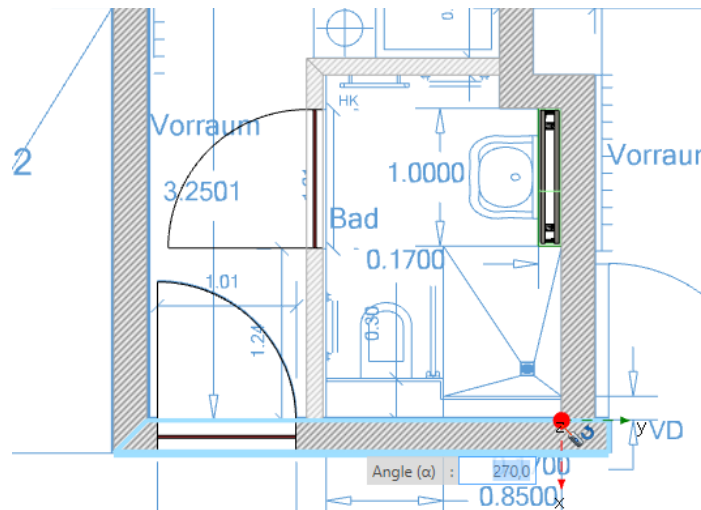




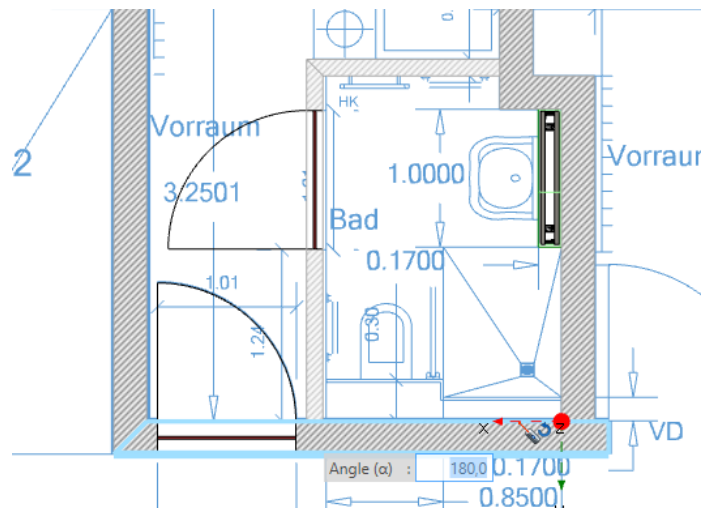
7. Activate the **Set reference point** function in the toolbar.
8. Move the cursor to the lower right corner of the bathroom.



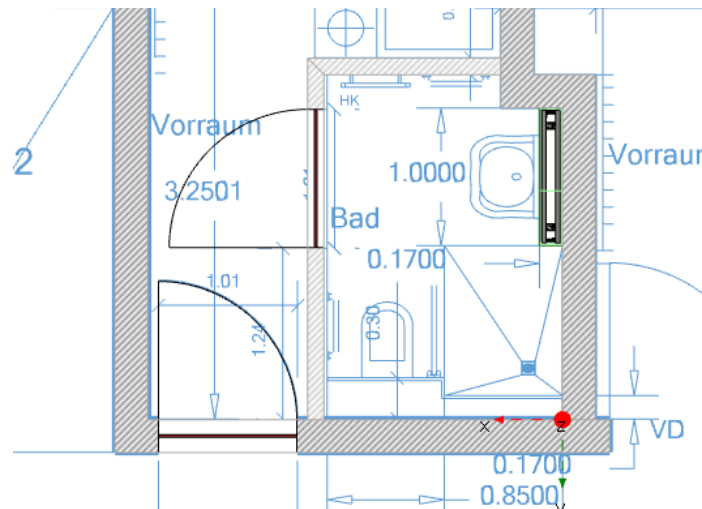
9. Click to place the reference point.



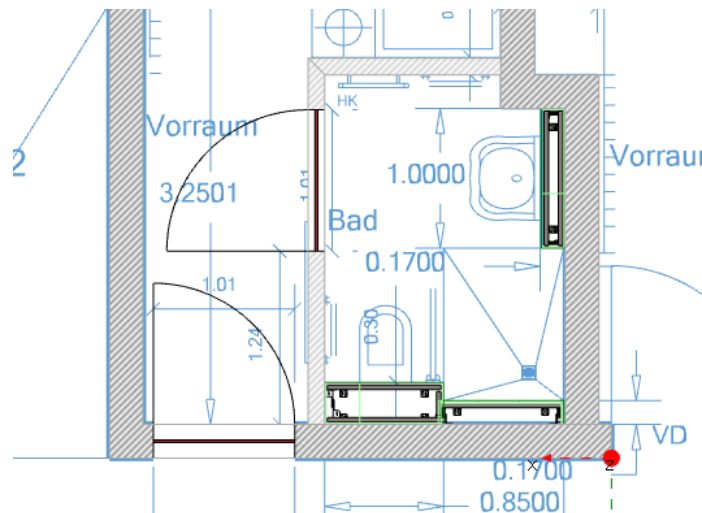
10. Move the cursor to define the alignment of the x and y-axis, as shown. The x-axis must run parallel to the horizontal solid wall.



11. Click in the drawing area to place the reference point.



12. Insert the other prewalls, as described above. Use a **Wall depth (WD)** of 17 cm for the room-height prewall at the shower and a **Wall depth (WD)** of 30 cm for the part-height prewall at the WC.



13. Activate the **Assign reference point automatically** function in the toolbar.

### 4.3.5 Inserting objects

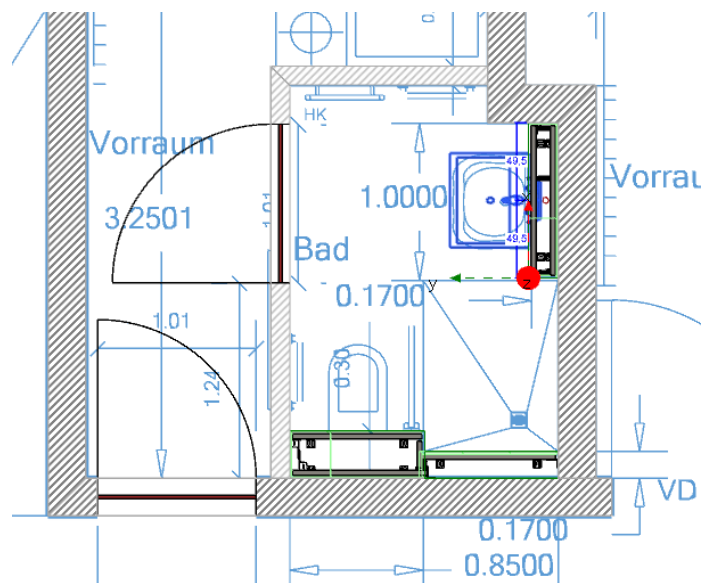


1. Select the **Washbasin** in the **Objects** window.
2. Move the mouse over the CAD plan.
  - ✓ The cursor automatically snaps into place at capture points in the CAD plan.

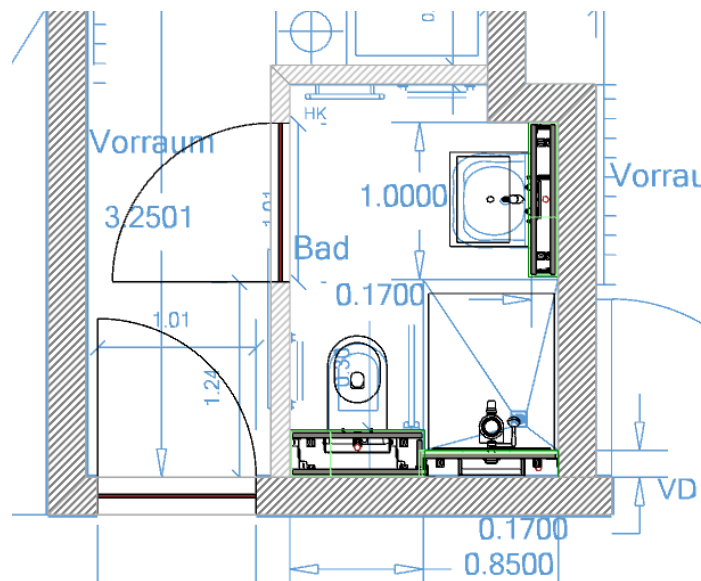


If objects do not snap in at the required points in the CAD plan, you can deactivate capture mode by pressing **CTRL**.

3. Move the washbasin above the washbasin in the CAD plan and click in the drawing area.



4. Insert a WC and a **shower surface for flush-mounted valve, Geberit** in the same way.

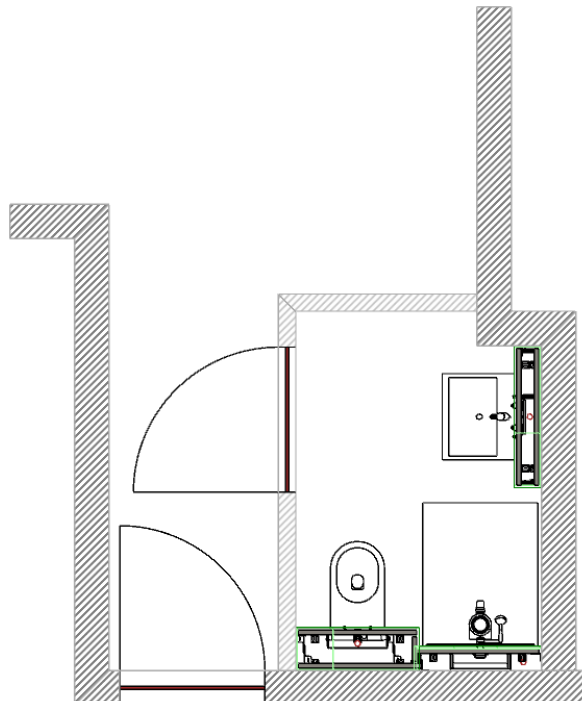


### 4.3.6 Hiding CAD plans

Finally hide the CAD plan so that you can view your finished plan without having to look at the CAD plan in the background.



1. Show the **Layer** window.
2. Click on the light bulb symbol in the **Background** section until it has a white background (💡).



## 4.4 Room with roof pitch

In the fourth training example, you will meet a function that you can use to plan rooms with roof pitches.

To repeat what you have already learned, you can create the room yourself or import the prepared room as a subproject and insert all objects yourself.

This chapter covers the following learning content:

- Importing subprojects
- Inserting roof pitches
- Adapting roof pitches
- Mirroring rooms

A graphic visualisation of the planning example can be found at the end of the training manual (see "Attic floor", page 129).

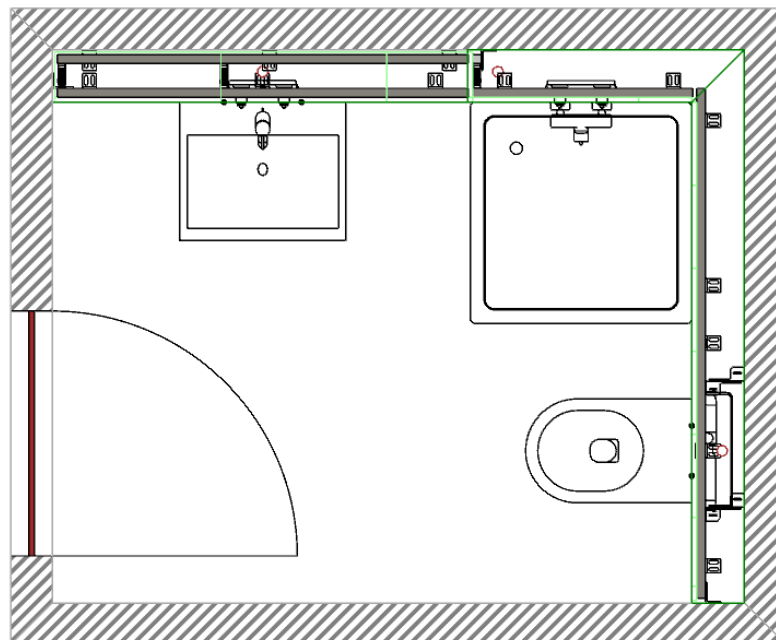
### 4.4.1 Creating a room



1. Select the **Attic floor** installation unit in the **Building** window.



2. Create the room according to the plan (see "Attic floor", page 129).



#### 4.4.2 Importing a room

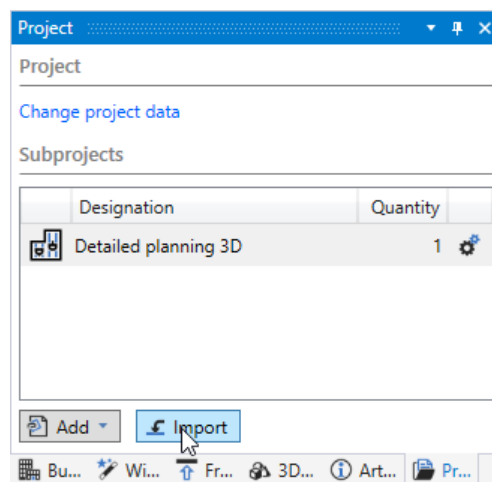
You can import subprojects already created, even from other modules, into your current training file. Import a room below to insert the roof pitches at a later stage.



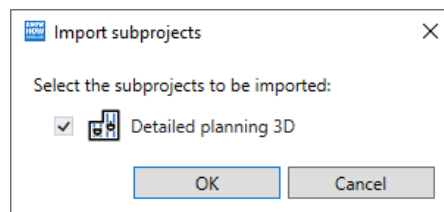
Download the training file from the following address if you do not have it:  
[https://buildv1geberit.blob.core.windows.net/e-learning/Proplanner/Training\\_manuals.zip](https://buildv1geberit.blob.core.windows.net/e-learning/Proplanner/Training_manuals.zip).



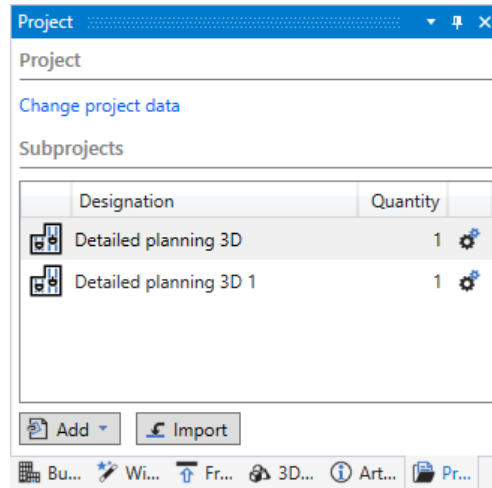
1. Show the **Project** window.
2. Click on **Import**.



3. Select the **Example roof pitch.gpp** training file and click on **Open**.  
✓ The **Import subprojects** window appears and shows all subprojects contained in the training file.

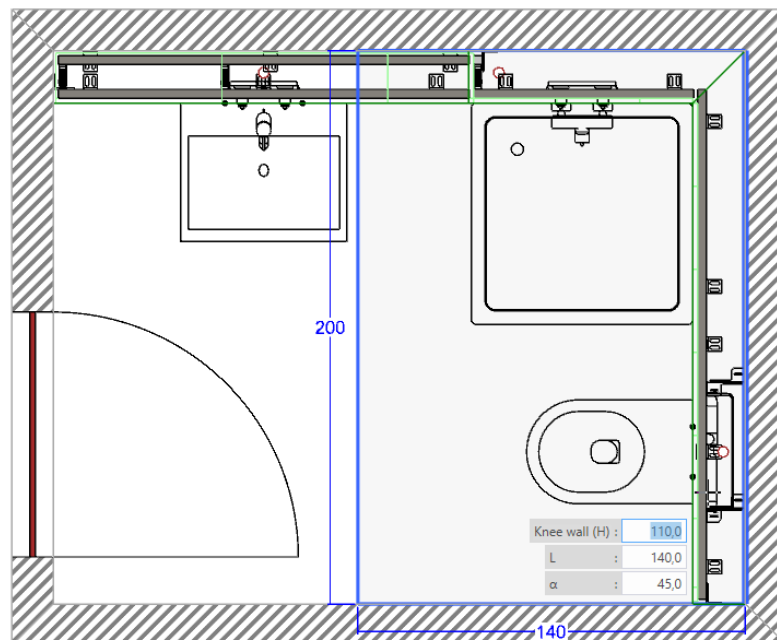


4. Click on **OK**.  
 ✓ The imported training file appears as the **Detailed planning 3D 1** subproject in the **Project** window.

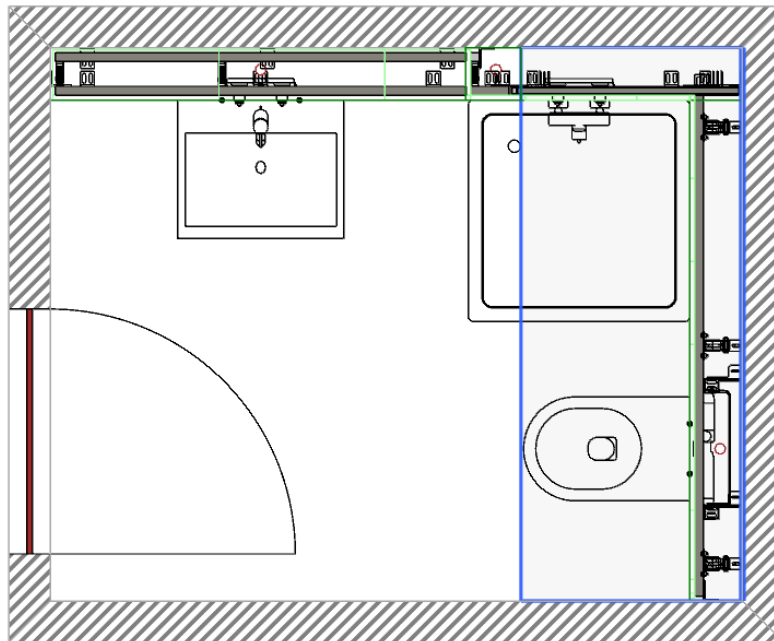


#### 4.4.3 Inserting roof pitches

1. Show the **Masonry walls and installation walls** window.
2. Select the **Roof pitch**.
3. Place the cursor on the wall with the WC.  
 ✓ A preview of the roof pitch and the cursor entry appear.



4. In the cursor entry, enter the value **180 cm** in the **Knee wall (H)** field and the value **80 cm** in the **Length (L)** field.
5. Confirm with **Enter**.



#### 4.4.4 Adapting roof pitches

Now adapt the angle of the roof pitch.

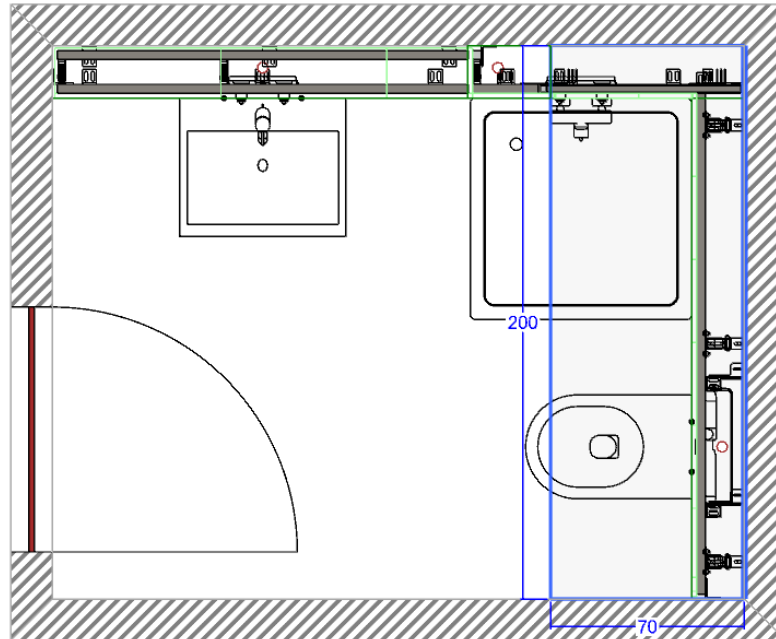
1. Right-click on the roof pitch and select **Properties**.  
✓ The **Wall** window appears.

2. Enter the value **45** cm in the **Angle ( $\alpha$ )** field.

#### Roof pitch

Knee wall (H): 180,0 cm  
Length (L): 70,0 cm  
Angle ( $\alpha$ ): 45 °

3. Click on **OK** to save the setting.

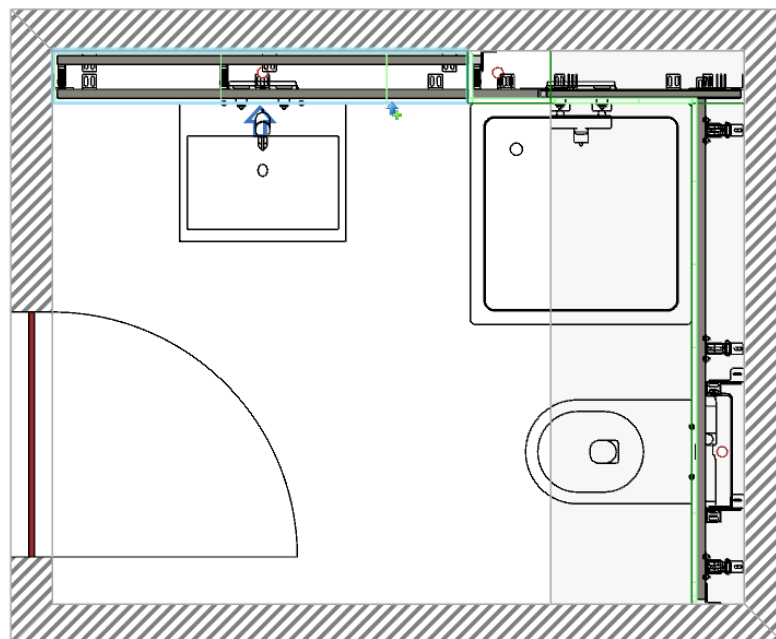


### 4.4.5 Showing roof pitches in the front view

You can view the adapted roof pitch in the front view.



1. Add a front view between the washbasin and the shower.





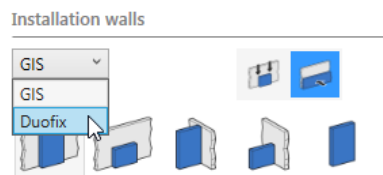
2. Show the **Front views** window.



#### 4.4.6 Inserting Duofix walls

Installation walls can be inserted at a 90° angle to a roof pitch. Now place a room-height Geberit Duofix wall at a 90° angle to the roof pitch.

1. Select the **Duofix** installation system in the **Installation walls** area of the **Masonry walls and installation walls** window.



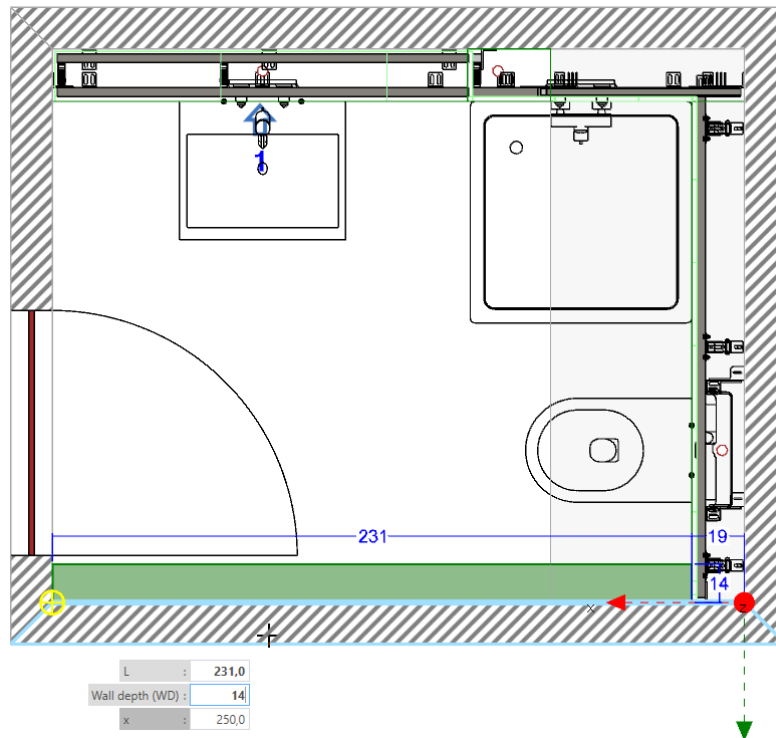
2. Select the room-height prewall in the **Installation walls** area.



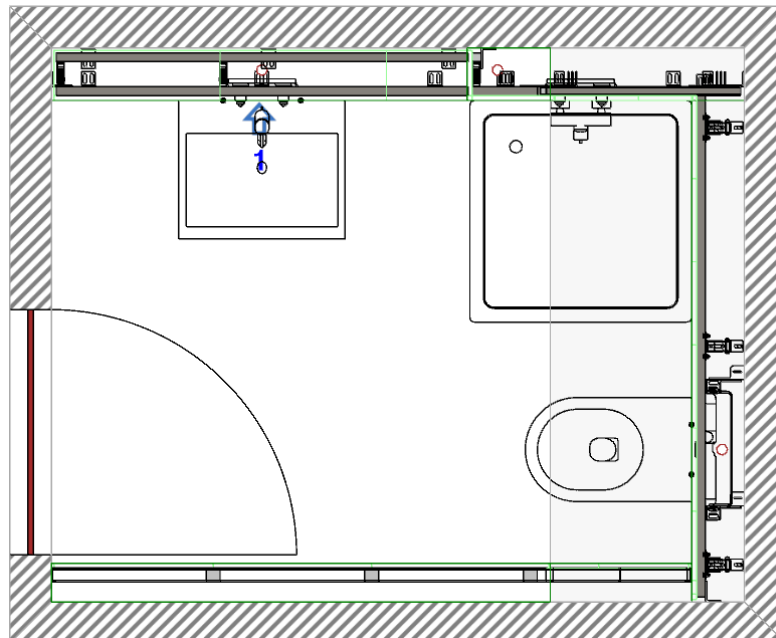
3. Select **Auto** drawing mode.

4. Place the cursor on the left side of the room.

5. Enter the value **14** cm in the cursor entry in the **Wall depth (WD)** field.



6. Click in the drawing area to insert the Duofix wall.

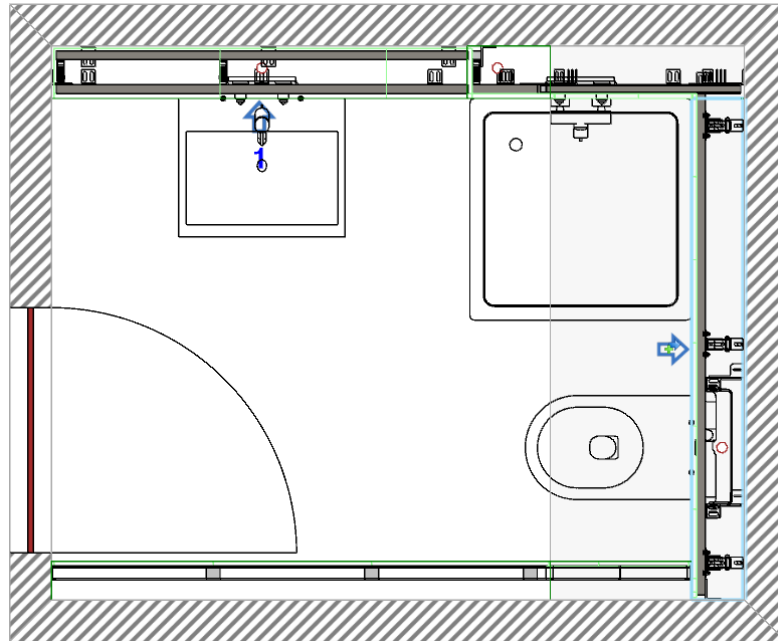


#### 4.4.7 Displaying roof pitches in the 3D view

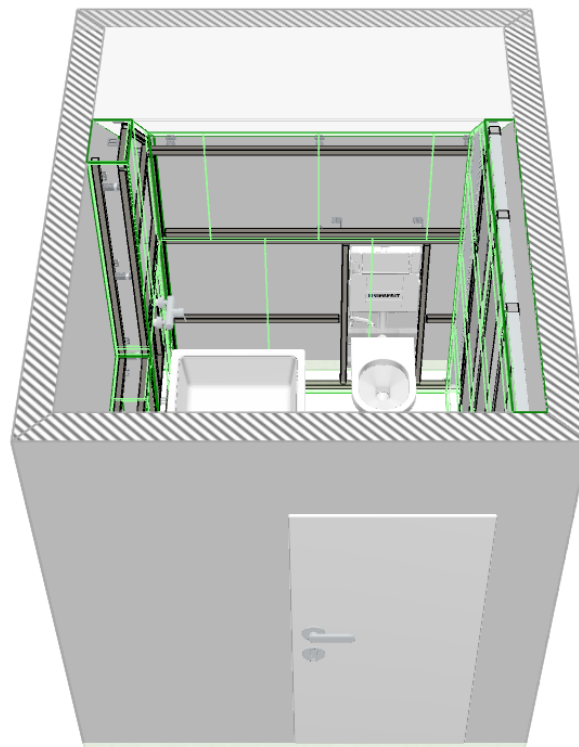
To check, you can view the roof pitch in the 3D view.



1. Add a front view to the roof pitch.



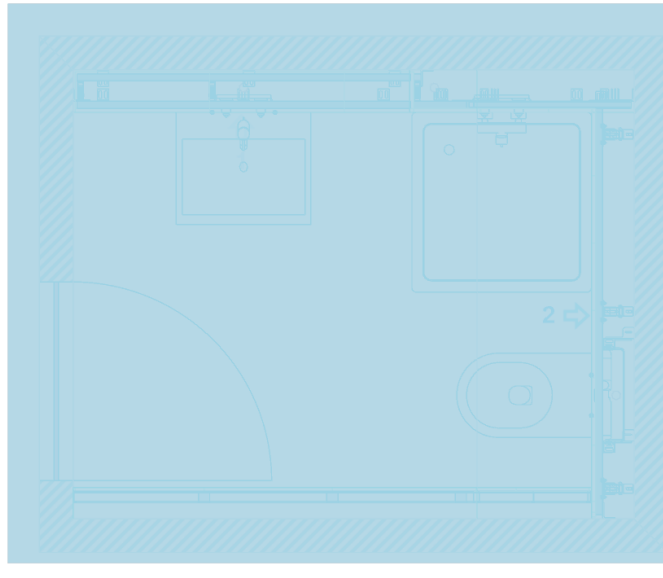
2. Show the **3D view** window.



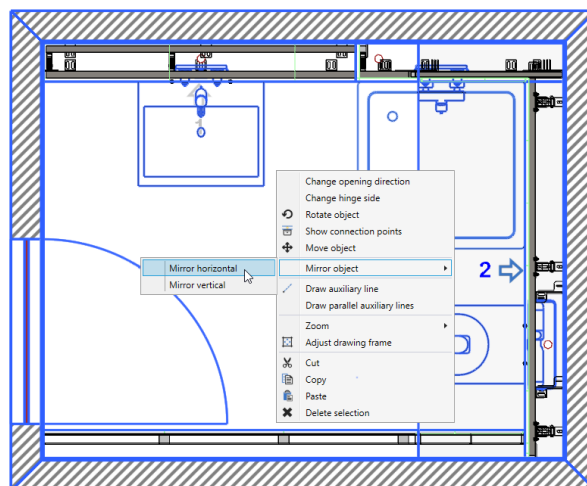
#### 4.4.8 Mirroring rooms

You can mirror single walls including the objects or complete rooms to simply create a mirrored copy of your plan. You will now create a mirrored copy of the complete room including all objects.

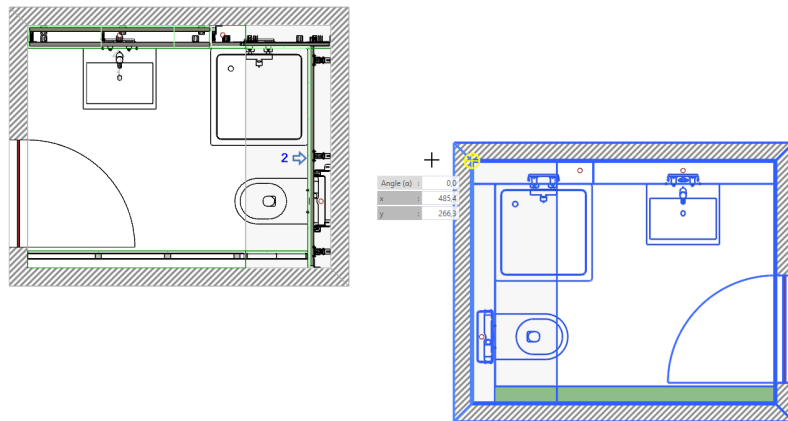
1. Draw a selection frame around the complete room.



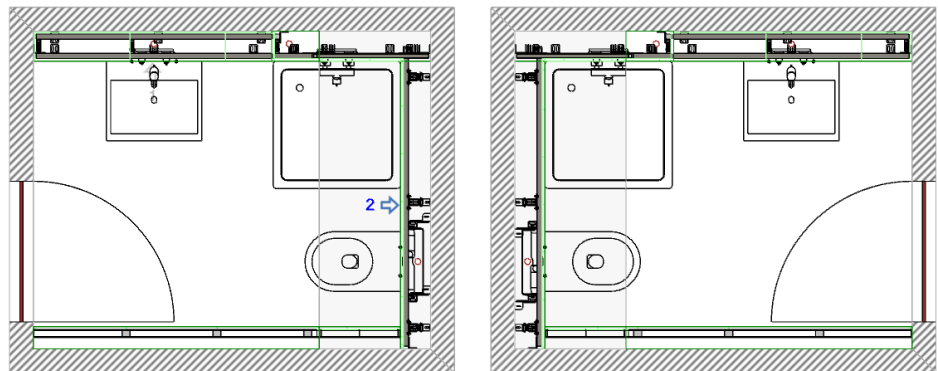
2. Right-click on the highlighted room and select **Mirror object** > **Mirror horizontal** in the pop-up menu.



- ✓ The room is suspended mirrored from the cursor.



3. Move the cursor to the required position.
4. Click in the drawing area to place the mirrored room.



## 5 KEYBOARD SHORTCUTS

Use keyboard shortcuts to work faster with Geberit ProPlanner. Select from general keyboard shortcuts and combinations that apply to the specific module.

Country-specific keyboard shortcuts are not listed here and can be requested from the respective sales company's hotline.

Keyboard shortcuts for Swiss keyboards (English keyboard) are shown in brackets.

The keyboard shortcut for the respective functions is additionally displayed in brackets in the menus and tool tips.

### 5.1 General

Function	Keyboard shortcut
General	
Cancel/Exit	<b>ESC</b>
Select and edit	
Copy	<b>CTRL + C</b>
Paste	<b>CTRL + V</b>
Cut	<b>CTRL + X</b>
Select all	<b>CTRL + A</b>
Select several objects	<b>CTRL + left mouse key</b>
Undo and Redo	
Undo last command	<b>CTRL + Z</b>
Restore undone command	<b>CTRL + Y</b>
Open and save project	
Open existing document	<b>CTRL + O</b>
Save current project	<b>CTRL + S</b>
Print and export file	
Print/export file (lists)	<b>CTRL + P</b>
Print/export file (graphics)	<b>CTRL + G</b>
Calculate	
Calculate active subproject	<b>F5</b>
Calculate all subprojects	<b>CTRL + F5</b>

Function	Keyboard shortcut
<b>Navigation</b>	
Change to the next line	<b>Tab key</b>
Change to the previous line	<b>SHIFT + Tab key</b>
Open pop-up menu	Right mouse key
<b>Objects</b>	
Delete highlighted objects	<b>DEL</b>
Open properties of highlighted objects	<b>Alt+Enter</b>
<b>Help</b>	
Call up the Help function	<b>F1</b>

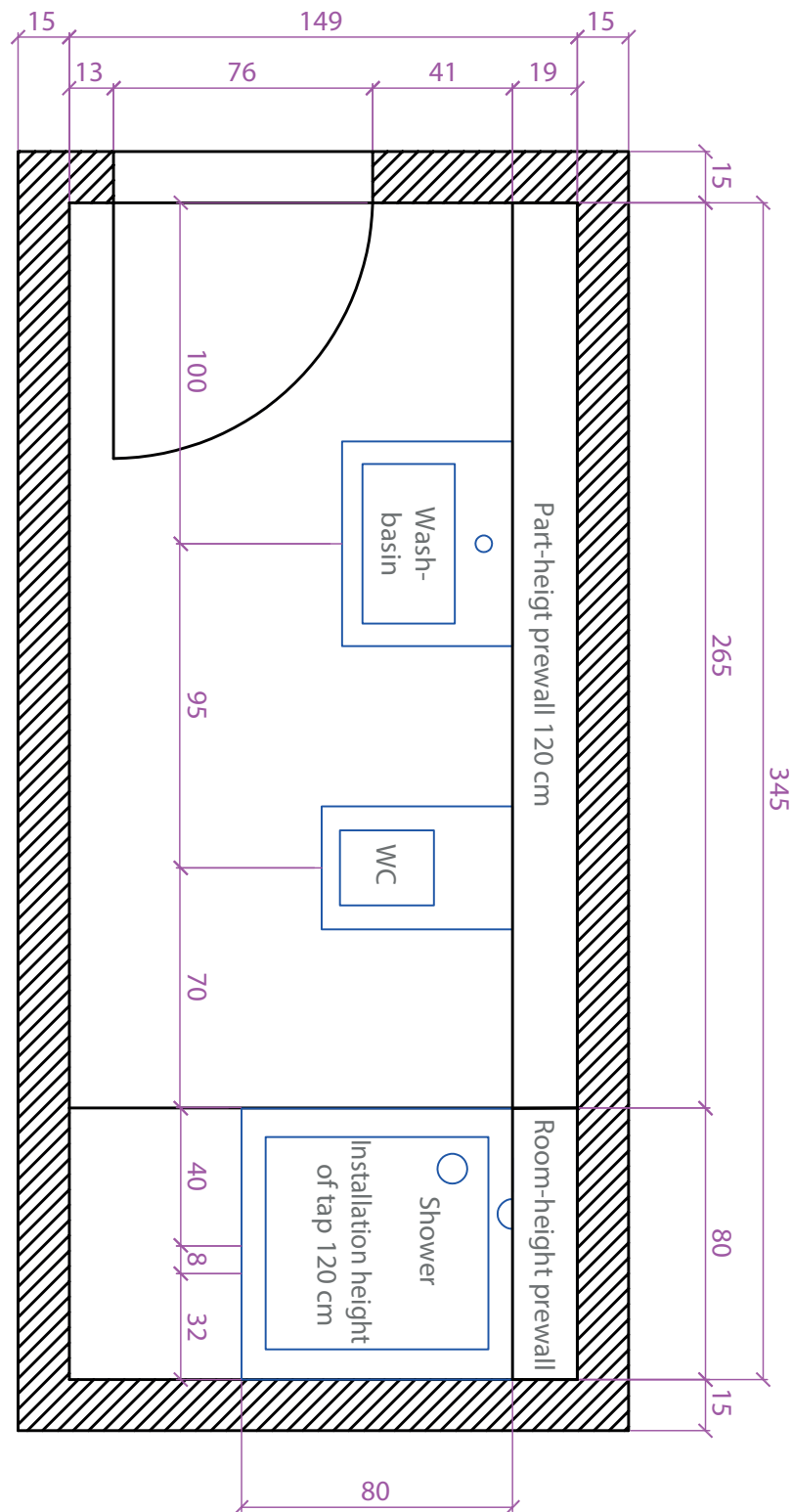
## 5.2 Detailed planning 3D

Function	Keyboard shortcut
<b>Move and turn objects</b>	
Move the marked object a centimetre at a time	Arrow keys
Move the marked object a millimetre at a time	<b>CTRL + arrow keys</b>
Delete marked objects	<b>DEL</b> <b>Backspace</b>
Mirror marked objects horizontally	<b>H</b>
Mirror marked objects vertically	<b>V</b>
Activate <b>Move</b> mode You can move the marked object with your mouse	<b>M</b>
Turn additional GIS profile horizontally or vertically	<b>R</b>
Change docking side of the object	<b>Z</b>
<b>Display objects</b>	
Display overlapping objects in the selection menu	<b>Space bar</b>
Zoom in to all objects	<b>POS1 (HOME)</b>
<b>Cursor entry</b>	
Move to the next input field	<b>Tab key</b>
Move to the previous input field	<b>SHIFT + Tab key</b>

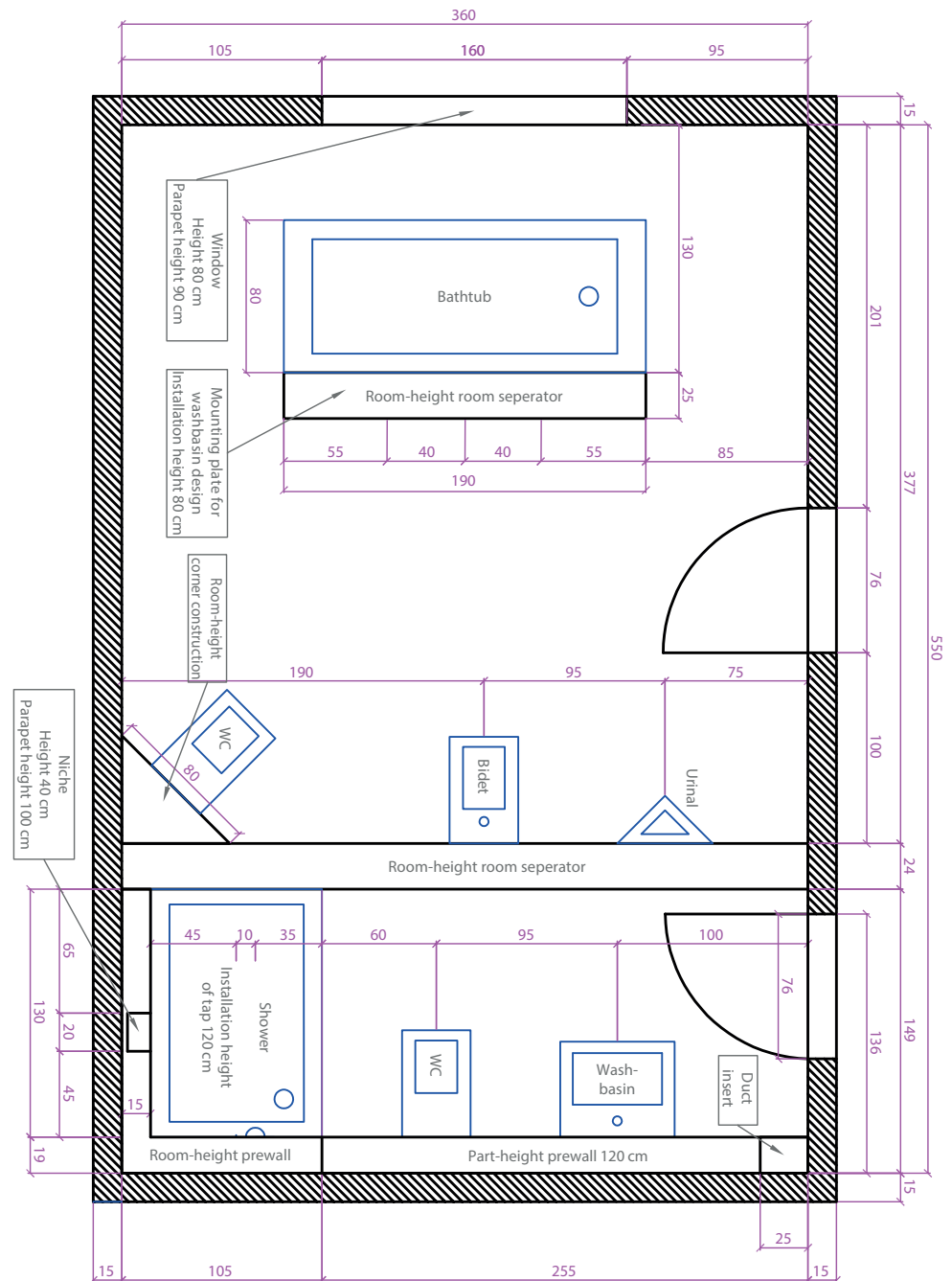
Function	Keyboard shortcut
<b>Drawing area</b>	
Move drawing area	Press and hold the mouse wheel + move the mouse
<b>Zoom</b>	
Zoom out or zoom in	Turn mouse wheel
Zoom out (with whoosh)	<b>S</b>
Zoom out (without whoosh)	- on numeric keypad
Zoom in (with whoosh)	<b>W</b>
Zoom in (without whoosh)	+ on numeric keypad
<b>Navigation in 3D view</b>	
Turn the view	Press and hold down the right mouse key + move mouse
Move view to the left	<b>A</b> Press and hold down the right mouse key + move mouse
Move view to the right	<b>D</b> Press and hold down the right mouse key + move mouse

# 6 OVERVIEW OF PLANNING EXAMPLES

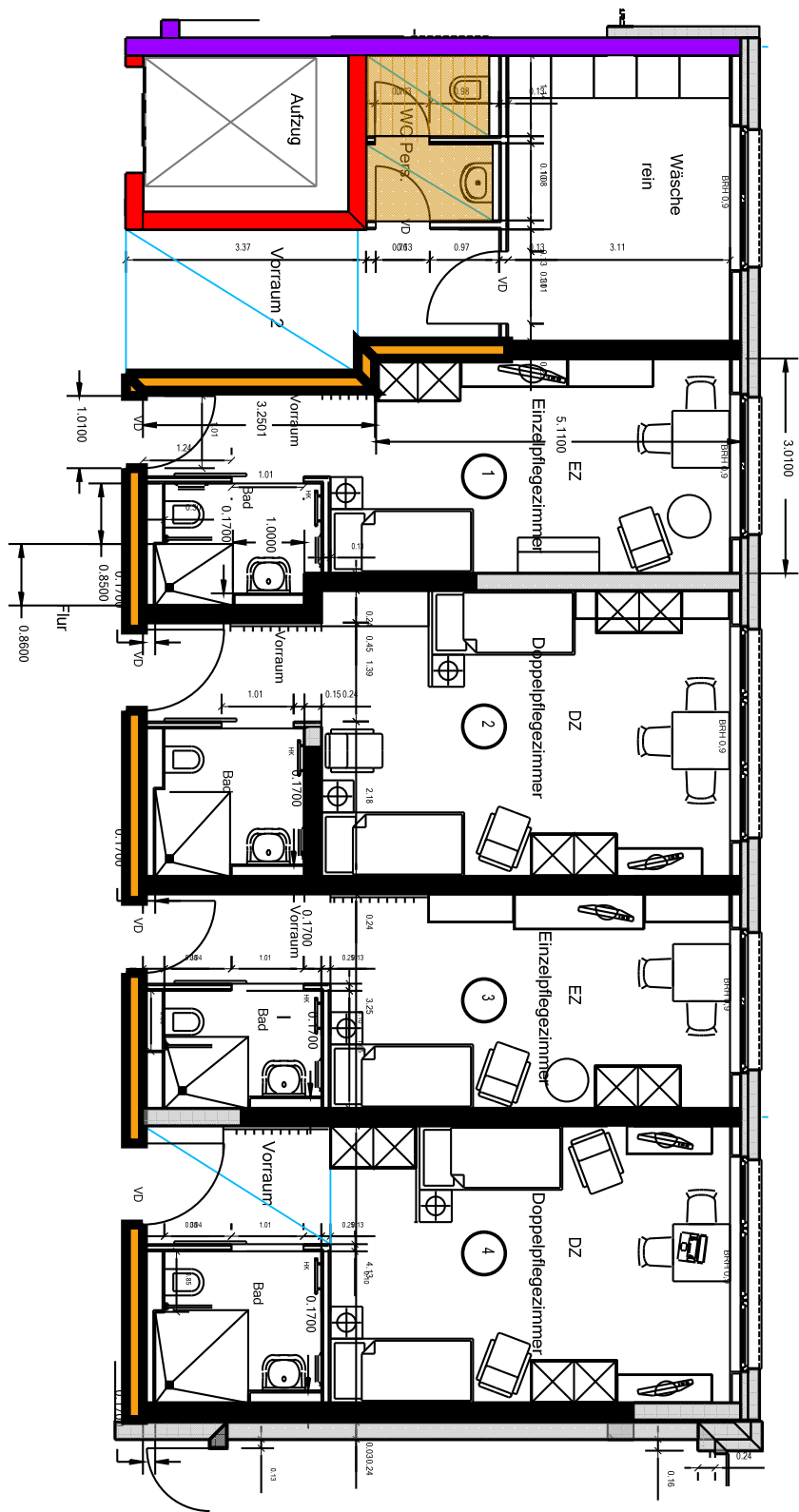
## 6.1 Small bathroom



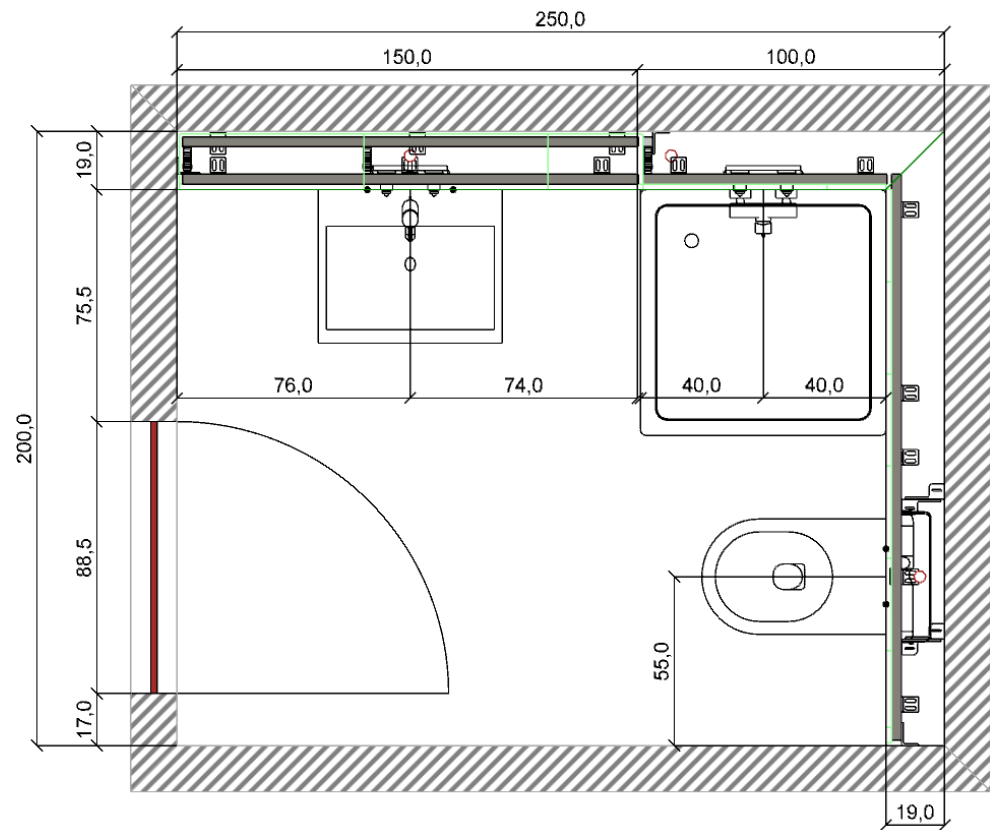
## 6.2 Large bathroom



6.3 Treatment room



## 6.4 Attic floor







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