Geberit ProPlanner 2016

GEBERIT

Training Manual

Detailed Planning 3D

KNOW HOW INSTALLED

Legal Notice

Geberit ProPlanner 2016

These instructions and the software described in it form part of the license agreement and may be used or copied only in accordance with the license terms. The content of these instructions is intended exclusively for information purposes, may be changed without notification and does not entail an obligation on the part of Geberit Verwaltungs AG. Geberit Verwaltungs AG provides no warranty nor guarantee with regard to the correctness and accuracy of the data in these instructions.

Any mention of company names in sample templates is exclusively for demonstration purposes and reference to any actual organisation is unintentional, with the exception of the following. The following companies and brands are mentioned in these instructions:

- Geberit and the Geberit logo are trademarks of the Geberit Group in Switzerland and in other countries
- Microsoft, Windows 10, Windows 8.1, Windows 8 and Windows 7 are brands of the Microsoft Corporation in the USA and other countries
- Autodesk® RealDWG is a brand of Autodesk in the USA and other countries
- YouTube
- Adobe Acrobat Reader

© Copyright 2016, Geberit Verwaltungs AG. All rights reserved.

Geberit Verwaltungs AG is legally represented by Roland Iff and Rudolf Eberhard.

Geberit Verwaltungs AG

Schachenstrasse 77

CH-8645 Jona, Switzerland

Phone number: +41 55 221 6111

Fax: +41 55 221 6242

E-mail: verwaltungs.ag.ch@geberit.com

Commercial register entry: Company registration number CH-320.3.010.425-2 (Company Register of the Canton of St. Gallen)

Value Added Tax no: CHE-116.306.913

Find the sales company in your country at www.geberit.com or via the Internet link on the software's start page.

Table of Contents

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.

Characters and symbols

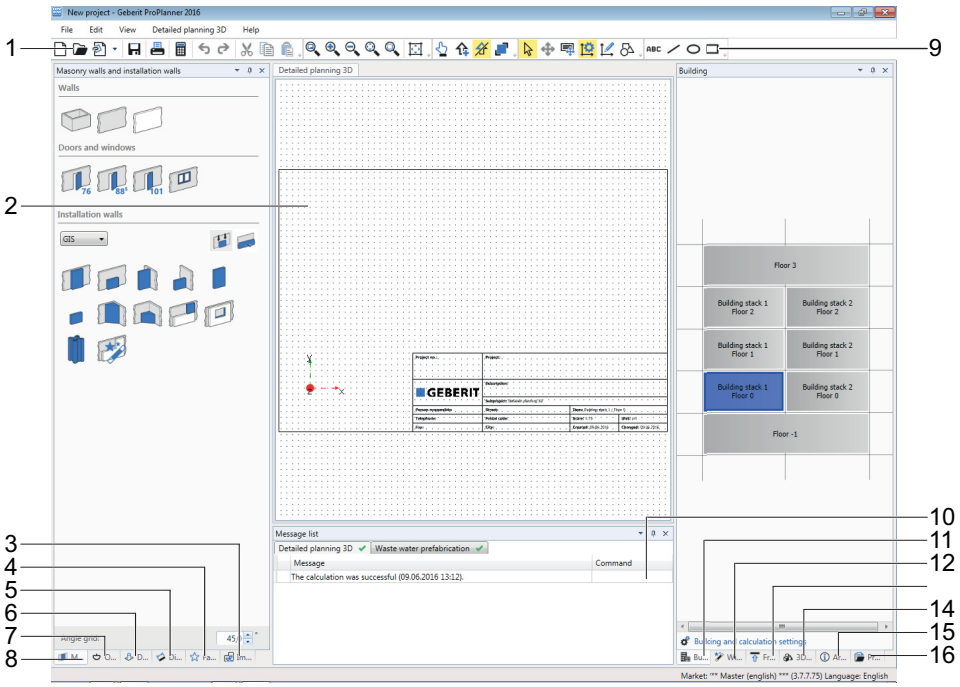
The following characters and symbols are used in this training manual:

Symbol	Designation	Meaning
	Info	Reference to further information on the subject under Help
	Hint	Hint for an easier or better method of operation
	Note	Basic information on a specific procedure
	Important note	Information to be urgently noted. Failure to adhere to this can result in loss of data or extensive planning problems
▸	Action	Instruction for action consisting of only one step
1. 2.		Instruction for action consisting of several steps
→	Result	Result of an action

You can find additional information under Help, which you can call up using the **Help** menu or by pressing **F1**.

2 User Interface

After you have created a new project with the Detailed Planning 3D subproject, the following window appears:



(1) General toolbar (see page 6)
(2) Design area window
(3) Import installation walls window
(4) Favourites window
(5) Dimensions window
(6) Duct planning window
(7) Objects window
(8) Walls and installation walls window
(9) Detailed Planning 3D tool bar (see page 7)
(10) Message list
(11) Building window
(12) Wizards and settings window
(13) Front view window
(14) 3D view window
(15) Article information
(16) Project window

Design area window

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

- Import figure or CAD plan (see page 62)
- Create rooms and walls (see page 35)
- Insert doors and windows (see page 35)
- Insert objects (see page 49)
- Edit rooms, walls and objects
- Import walls from installation systems
- Create walls with the Installation wall quick entry bar (see page 13)

Import installation walls window

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

Favourites window

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

Dimensions window

The plan can be measured in various styles.

Duct planning window

The Duct planning window includes elements for the planning of ducts for water supply connections, heating, ventilation and electrical installations.

Objects window

The Objects window contains sanitary objects, such as bathtubs, washbasins and WCs, as well as additional objects with which piping systems can be planned. The objects are shown as standard with large symbols in the Objects window. You can change to the tree structure by right-clicking to open the pop-up menu.

Walls and installation walls window

The **Masonry walls and installation walls** window contains objects and functions for the planning of masonry, installation walls and ducts. Single dimensions and drawing modes can be defined for the objects.

Message list

Depending on the calculation, the Message list displays a report that contains the calculation errors, warning notes and information. Use the tabs to call up the messages for Detailed Planning 3D and filter them according to the **Degree of severity** using the right mouse key pop-up menu. The messages are issued as standard as **Information** for the selected tab.

The following types are available in the pop-up menu:

Type	Explanation
Error	Only errors are displayed
Warning	Errors and warnings are displayed
Information	Errors, warnings and information are displayed (default setting)

- Double-clicking on the error message enlarges the error in the Design area window and highlights it in a colour according to the severity.
- Errors can be corrected in the message list using the **Command** column or the tool tip in the Design area window.

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 in the Design area window refers to the highlighted installation unit. You can also call up the **Building and calculation settings** window in the Building window and define settings for the following:

- Building
- Detailed Planning 3D
- GIS
- Duofix

Wizards and settings window

You can execute the following functions in the **Wizards and settings** window:

- Enter project data and subproject data
- Define building and calculation settings
- Show and hide layers
- Define module settings for Detailed Planning 3D

Front view and 3D view windows

Window	Function
	**Front views** Shows the front view of the view selected. Gives an overview of the profiles and dimensions required. • Zoom: Rotate the mouse wheel forwards or backwards or press **W** and **S** • Move: Move mouse while holding down mouse wheel
	**3D view** Gives a spatial impression of the plan. • Zoom: Rotate the mouse wheel forwards or backwards or press **W** and **S** • Rotate: Move mouse while holding down the right mouse key • Move: Move mouse while holding down mouse wheel

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

Project window

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

You can execute the following functions in the Project window:

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

You can access additional information under Help at **Detailed Planning 3D >User interface**.

2.1 Toolbars and Menus

2.1.1 General Toolbar

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

Disabled buttons appear light-grey.

Button	Command
	Create a new project
	Open available project
	Add subproject
	Save project
	Print / Export
	Calculate subproject
	Undo last command
	Redo undone command
	Cut object and copy to clipboard
	Copy object to clipboard
	Paste object from clipboard
	Zoom into drawing frame

Button	Command
	Extend drawing
	Reduce drawing
	Zoom in to all objects
	Select zoom area with the mouse
	Adapt drawing frame to drawing

2.1.2 Detailed Planning 3D Toolbar

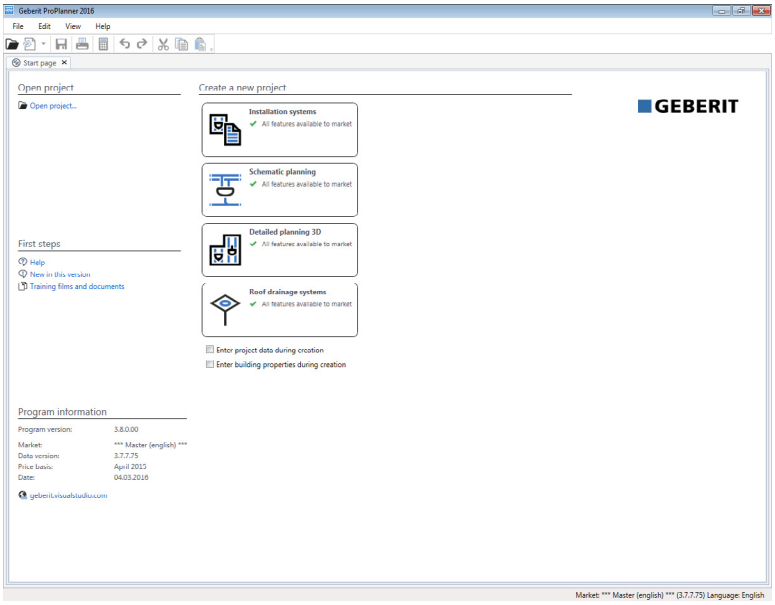
The following functions are available with the Detailed Planning 3D module:

Button	Command
	Move the drawing area
	Add front view
	Display front view arrows
	Open layer
	Select objects
	Move objects
	Move infotexts and dimensions
	Automatically assigning reference points
	Set reference point
	Import figure or CAD plan Image files can be imported
	Insert text You can set the font type, text colour etc. when designing
	Insert line
	Insert ellipse
	Insert rectangle

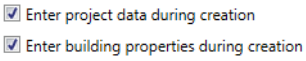
3 Preparation

3.1 Creating a New Project

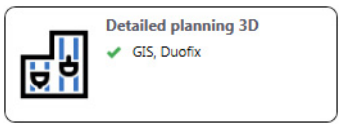
1. Start Geberit ProPlanner.
   → The Geberit ProPlanner start page appears after a few seconds.



2. Make sure that **Enter project data during creation** and **Enter building properties during creation** are checked.

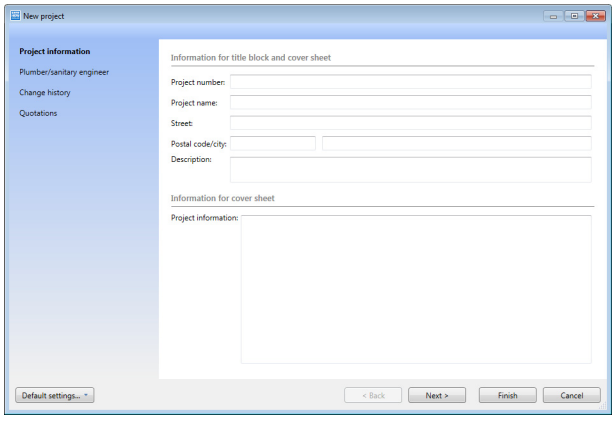


3. Create a new project by clicking on the button for Detailed Planning 3D.

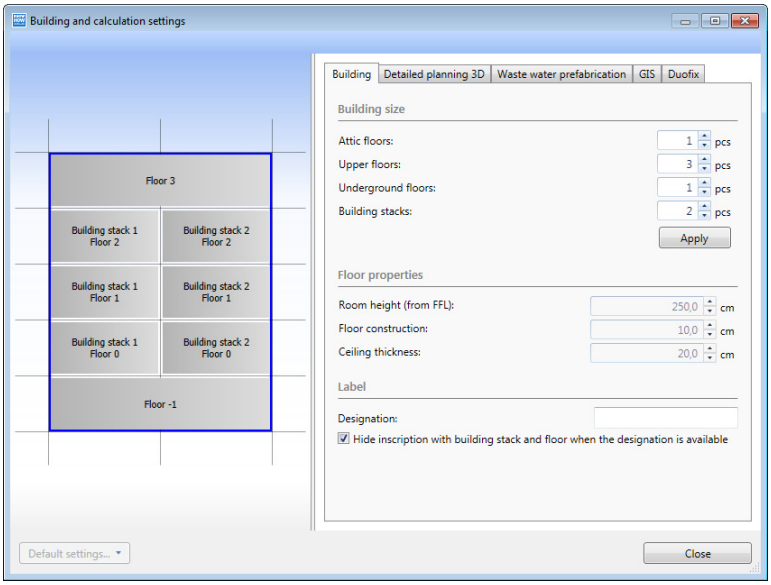


   → The **New project** window appears.

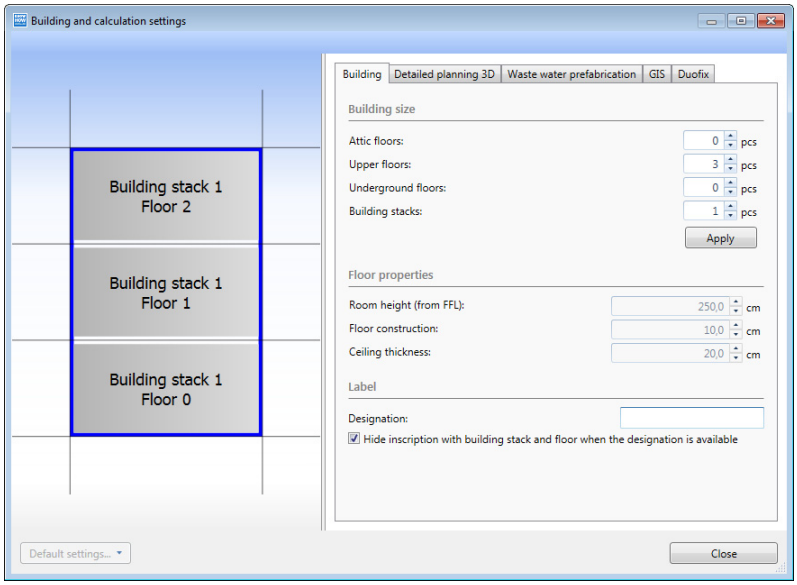
4. Enter the required information and confirm with **Finish**.



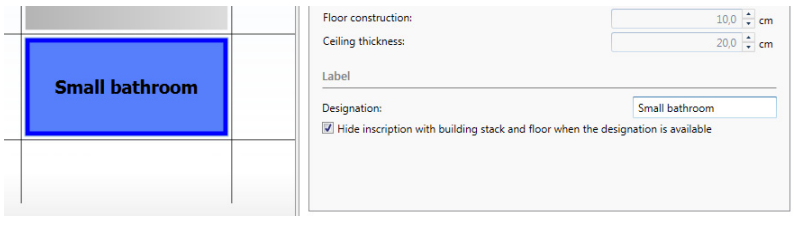
→ The **New project** window is closed and the **Building and calculation settings** window appears.



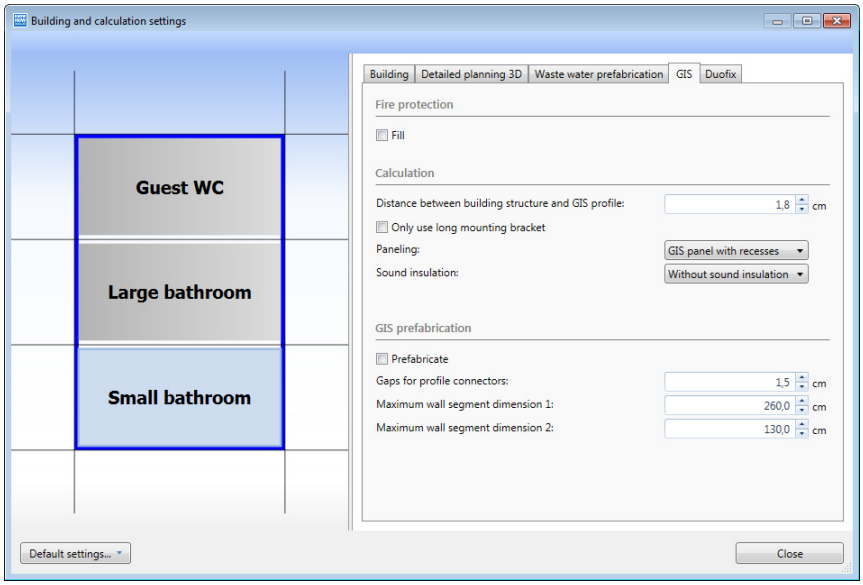
5. Set the building size to the following values:
   - **Attic floors**: 0
   - **Upper floors**: 3
   - **Underground floors**: 0
   - **Building stacks**: 1
6. Confirm your entries with **Apply**.



7. Click on the lower installation unit and enter **Small bathroom** as the **Designation**.

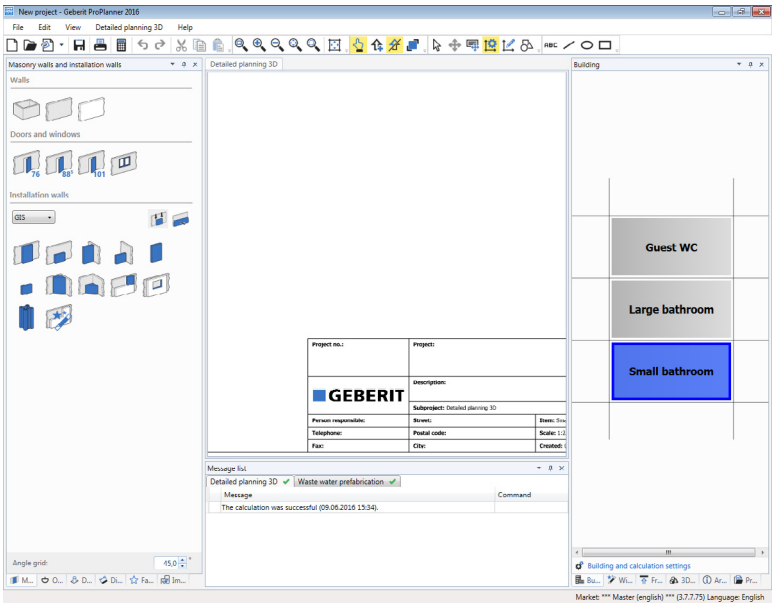


8. Click on the central installation unit and enter **Large bathroom** as the **Designation**.
9. Click on the upper installation unit and enter **Guest WC** as the **Designation**.
10. Select the **GIS** tab.



11. Make sure that **Prefabricate** is not checked.

12. Click on **Close** to apply the settings.
    ➔ The detailed planning view appears.



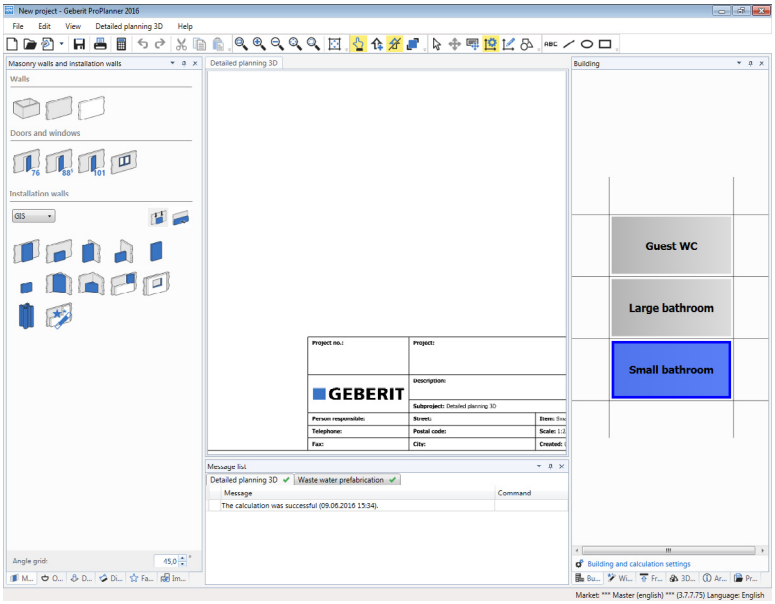
3.2 Adapting the User Interface

The user interface can be adapted to meet your requirements. You can show and hide windows. This makes your planning clearer.

Selecting default window layout

Geberit ProPlanner offers you the option of selecting one of two default layouts. A user-defined window layout can also be saved and restored if required.

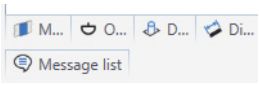
- Click on **Window layout** in the **View** menu and select **Default window layout 1**.
  → The user interface appears in the selected window layout.



Adapting the window layout

Rarely used windows can be hidden to extend the drawing area window.

- Click on in the title bar of the **Message list** window.
  → The window is hidden but remains visible at the bottom left corner as a tab.

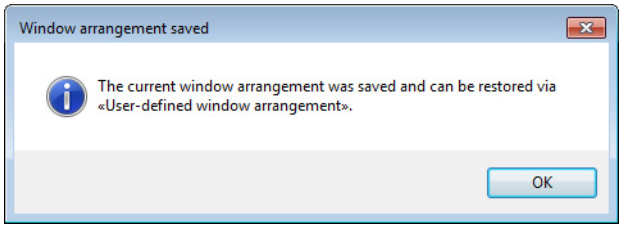


- Click on the respective tab if you wish to show the window temporarily.
- If you wish to show the window permanently, you can then click on in the title bar of the window.

Saving the window layout

You can save the preferred window layout and call it up again.

1. Click on **Window layout** in the **View** menu and select **Save window layout**.
   → An information window appears.



2. Confirm the information window with **OK**.

You can call up your preferred window layout via the **View** > **Window layout** > **User-defined window arrangement** menu.

3.3 Design Area Window

Create your plan in the floor plan in the design area window. At the moment only the drawing frame is available.

1. Turn the mouse wheel to extend or reduce the view.
2. Move the mouse, holding the mouse wheel down, to move the view.

3.4 Saving a Project

1. Click on **Save** in the toolbar to save the project.
   → The **Save project as** window appears.
2. Select the required directory and save the file under the name **Detailed planning 3D training example.gpp**.

Save the project regularly.

4 Detailed Planning 3D Planning Examples

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. You can draw Geberit Duofix and Geberit GIS installation walls and import image files as a template.

With the aid of two planning examples, you will 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 and print 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 partition walls 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.

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
- Exporting graphics
- Printing the material list and installation instructions

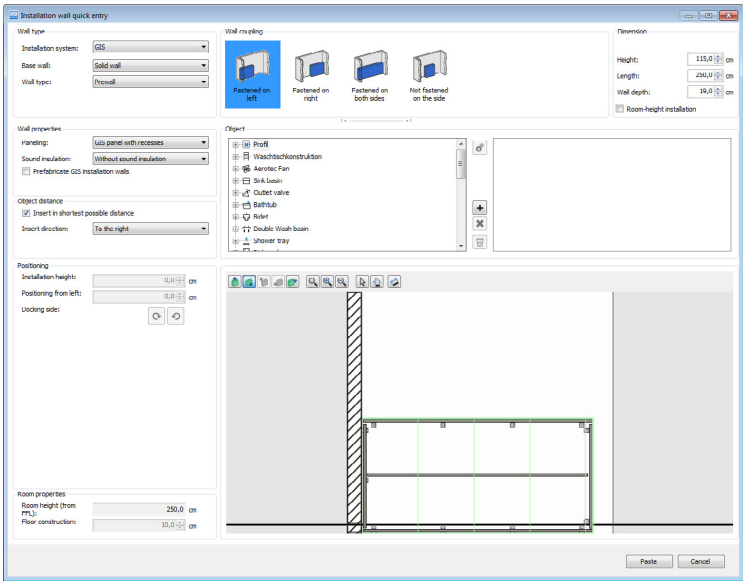
A graphic visualisation of the planning example can be found at the end of the training manual (see page 72).

4.1.1 Using the Quick Entry

You can create an installation wall with the GIS and Duofix tools or with 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. Use of the GIS and Duofix tools will be explained in the second planning example.

1. Select the **Small bathroom** installation unit in the Building window.

2. Click on **Installation wall quick entry** in the **Masonry and installation walls** window.
   → The **Installation wall quick entry** window appears.

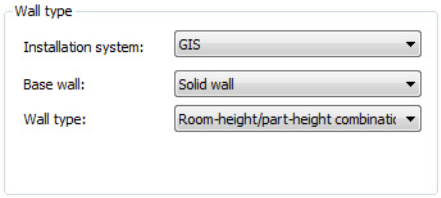


The quick entry window includes different areas, such as Wall type and Wall coupling, which you can use to plan an installation wall in steps. The choice of a wall type affects the visualisation of the wall coupling and the input options for the dimensions. Therefore always adhere to the following principle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

Selecting the wall type

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

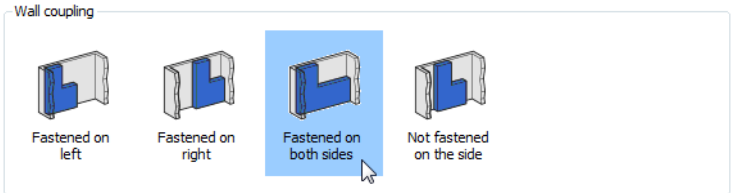
- Select the wall type **Room-height/part-height combination**.



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.



Entering the dimensions of the installation wall

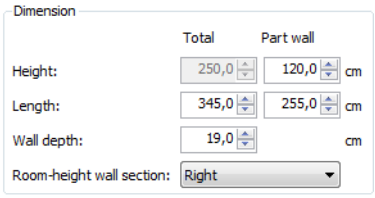
In the **Dimension** area you can specify the height of a part-height wall and the width and depth of part-height and room-height installation walls. The overall height comes from the room height set in the Building properties. The field is highlighted in grey.

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 for dimensioning the selected installation wall, for example the minimum prewall and partition wall depths.

The information symbol ⓘ is market-dependent and is not available in all markets.

1. Select the following dimensions for the installation wall in the **Dimensions** area:
   - **Height** of the **part wall**: 120 cm
   - **Length** of the total wall: 345 cm
   - **Length** of the **part wall**: 255 cm
   - **Wall depth**: 19 cm
2. Select **Right** as the side of the room-height wall section.

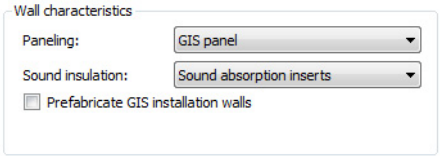


Using the button between the **Wall coupling** and **Object** areas, you can show or hide the Wall type, Wall coupling and Dimension areas. The wall preview is extended when you hide the top part.

Selecting wall properties

Select the Panelling and Sound insulation of the installation wall in the **Wall properties** area.

- In the **Panelling** field, select **GIS panel** and in **Sound insulation** select **Sound absorption inserts**.



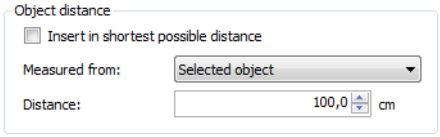
Entering the object distance

In the **Object distance** area, you can enter the distance from the edge of the installation wall or from the object respectively. The distance between objects is determined using the central axes of the objects.

If the checkbox is selected, the objects are placed with the shortest possible distance defined in Geberit ProPlanner. In this case, the plan does not correspond to the circumstances on site but is exclusively used for material determination.

You can specify in the **Measured from** field whether the distance of the object is to be measured from the left or right wall. If you click on an object placed in the installation wall, the distance will be measured from this object. You can freely select the distance providing the checkbox is deselected.

1. Uncheck **Insert in shortest possible distance**.
2. In the **Measured from:** field, select **Selected object**.
3. Enter 100 cm as the **Distance** for the first object.



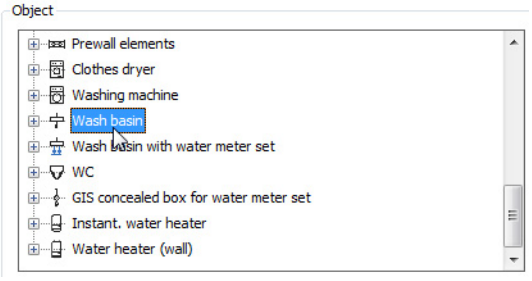
If no object has been entered, the distance is measured from the left wall.

Inserting objects

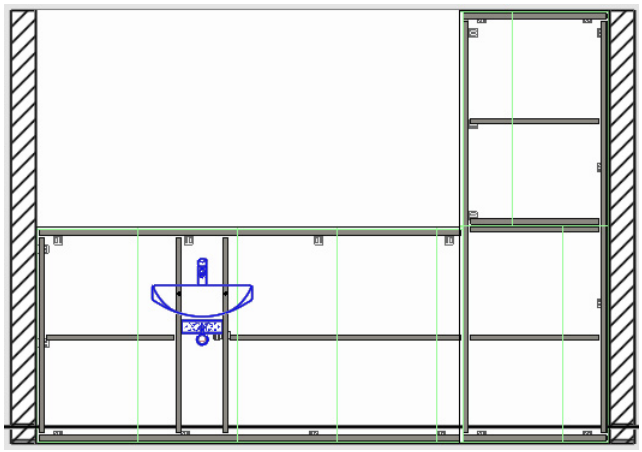
Objects that you can place on the installation wall are selected in the **Objects** area. The various configurations of the objects appear in a tree structure. Use the ⊞ symbol to open and close the tree structure to select sanitary appliances with default configurations. You can then specify individual configurations using the properties of the objects. The default object in the first level is selected for the example.

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

1. Highlight the **Washbasin**.

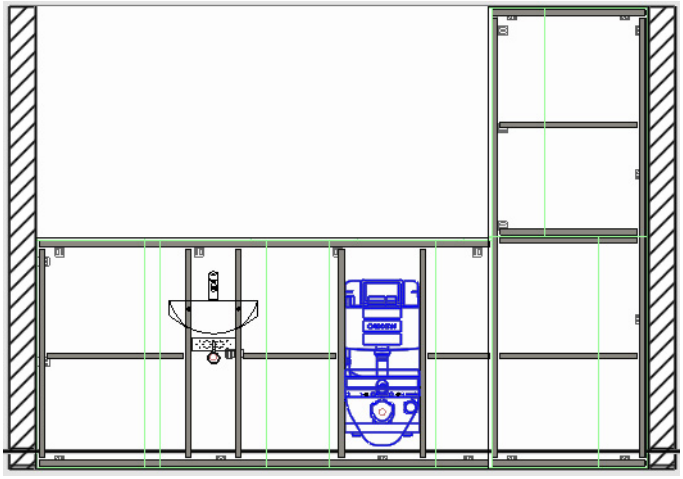


2. Click on **Insert object in installation wall**.

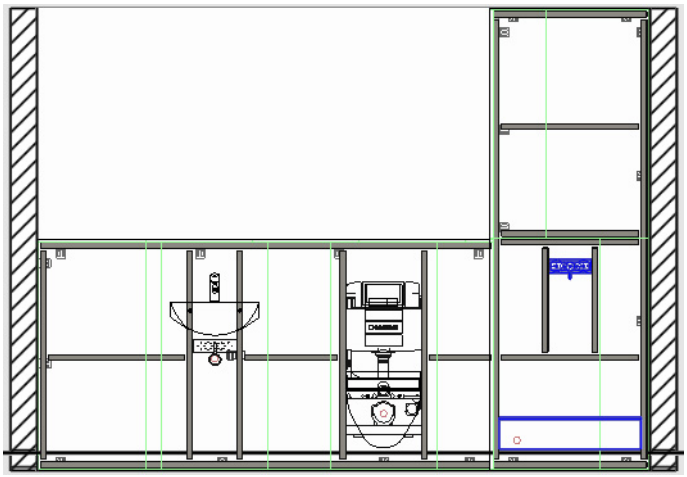


3. Leave **Selected object** in the **Measured from** field to place the next object next to the blue highlighted object.
4. Enter 95 cm as the **Distance**.

5. Double-click on the **WC** to insert the WC into the installation wall.



6. Select **Right wall side** in the **Measured from** field.
7. Enter 45 cm as the **Distance**.
8. Double-click on the **Shower** to insert the shower into the installation wall.

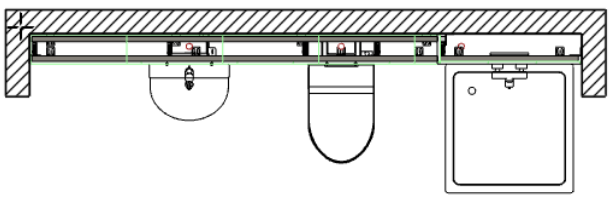


Additional information can be found under Help at **Detailed Planning 3D** > **Installation wall quick entry**.

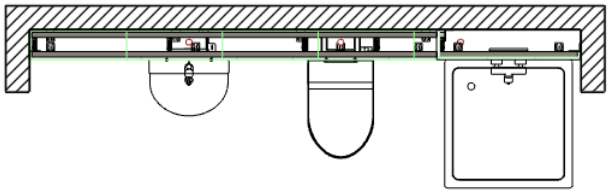
Inserting installation walls

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

1. In the **Installation wall quick entry** window, click on **Insert**.
   → The wall is suspended from your cursor.



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



4.1.2 Working with Your Planning Example

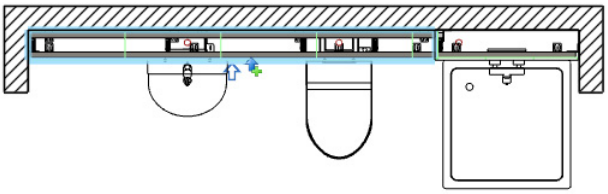
Once you have designed and inserted the installation wall using the Installation wall quick entry, you will then meet the different views in Detailed Planning 3D. Adjustments are made and at the end the planned installation unit is dimensioned.

4.1.2.1 Views in Detailed Planning 3D

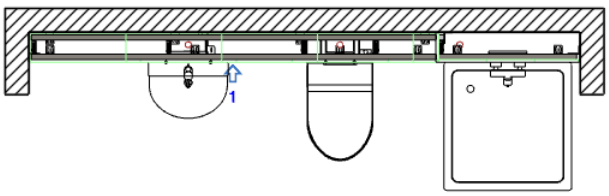
A front view and a 3D view are available in addition to the plan view in the Design Area window. One wall side must be selected as the front view for the two views to be displayed.

Add front view

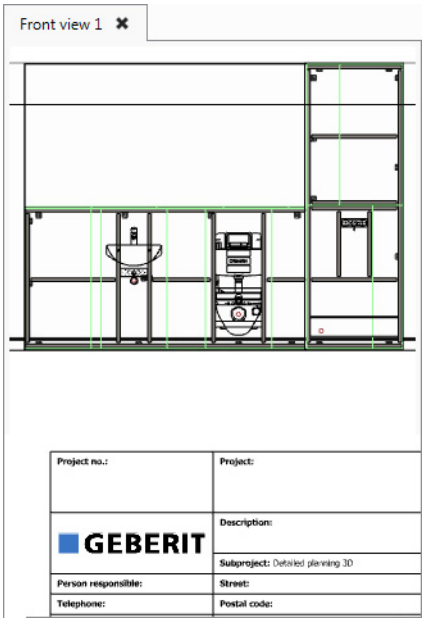
1. Click on **Add front view** in the toolbar.
2. Position the cursor on the wall.



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



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



- If you are setting several front views, each front view is displayed on a separate tab
- Click on ✖ in the tab to delete front views

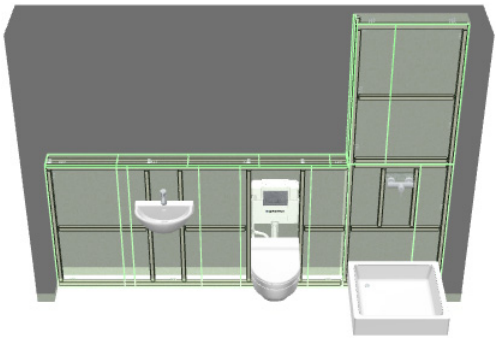
You can move the drawing frame if the title block hides the drawing.

1. Highlight the drawing frame in the **Front views** window and click on **Move objects** 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.

Selecting the 3D view

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



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

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

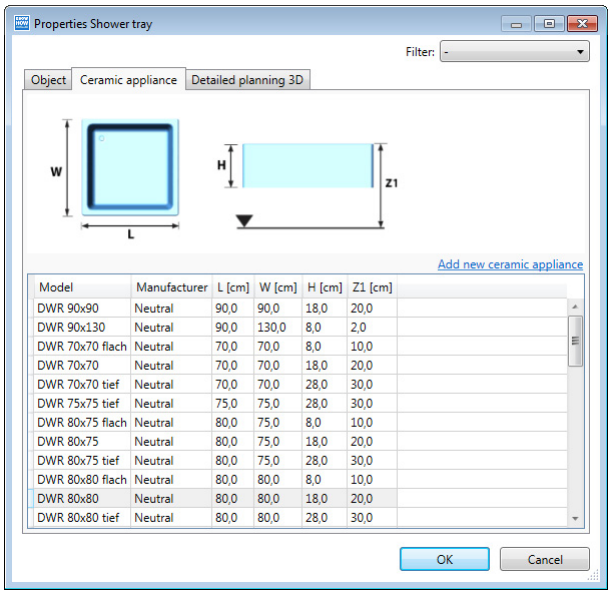
With the **Layer** function, you can show and hide single parts (e. g. panelling) in the floor plan, front view and 3D view.

4.1.2.2 Adapting the Shower

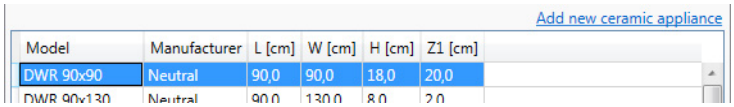
A shower with the dimensions 80x80 cm has been inserted in the Installation wall quick entry. In this step you will now adapt the size of the shower in line with the specifications of the planning example. The shower tap will also be moved.

Changing the size of the shower

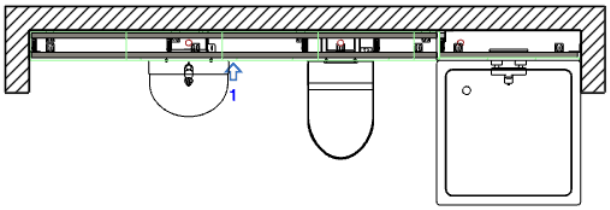
1. Highlight the shower.
2. Right-click on the shower and select **Properties** in the pop-up menu.
   → The **Shower properties** window appears.
3. Select the **Ceramic appliance** tab.



4. Select a shower tray from the list with dimensions 90x90 cm.

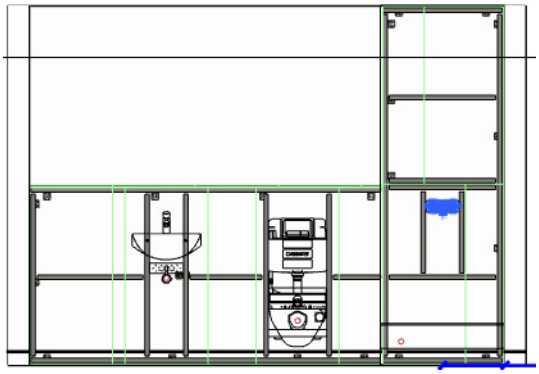


5. Confirm with **OK**.
   → The size of the shower has been adjusted.

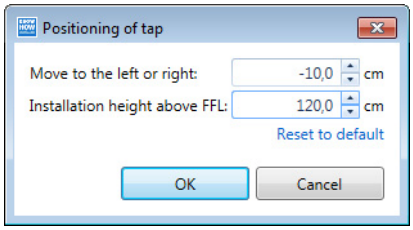


Moving the shower tap

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

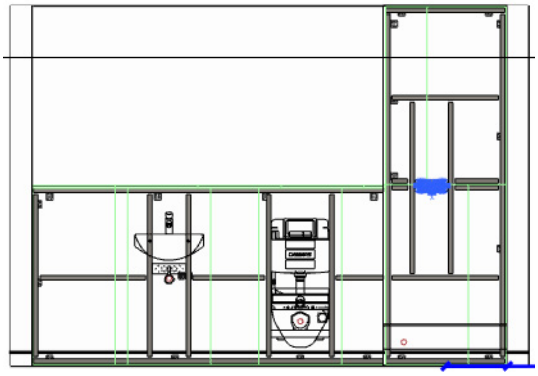


3. Right-click on the shower tap and select **Positioning of tap** in the pop-up menu.
   → The **Positioning of tap** window appears.
4. Enter the following values to move the shower tap 10 cm to the left and to a height of 120 cm.



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

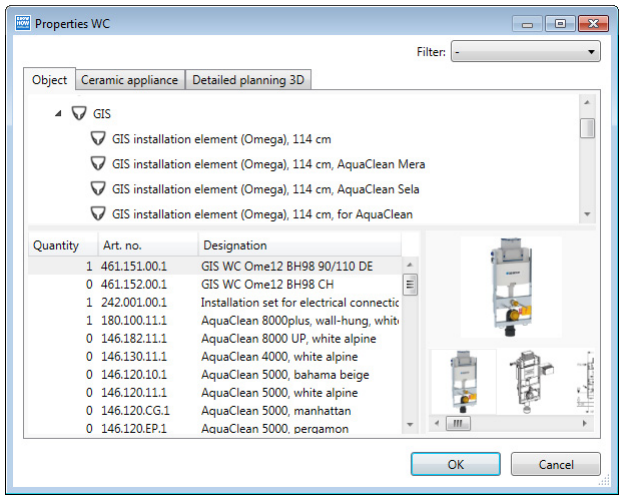
5. Confirm with **OK**.
   → The shower tap has been moved.



4.1.2.3 Replacing the WC

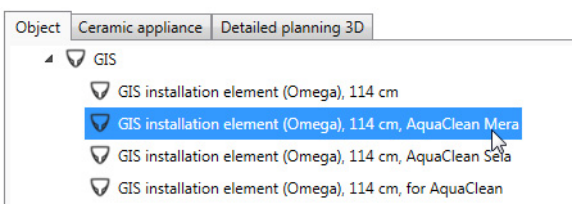
In this section you will now learn how objects can be replaced. To do so, you will replace the default WC with another WC.

1. Highlight the WC.
2. Right-click on the WC and select **Properties** in the pop-up menu.
   → The **WC properties** window appears.

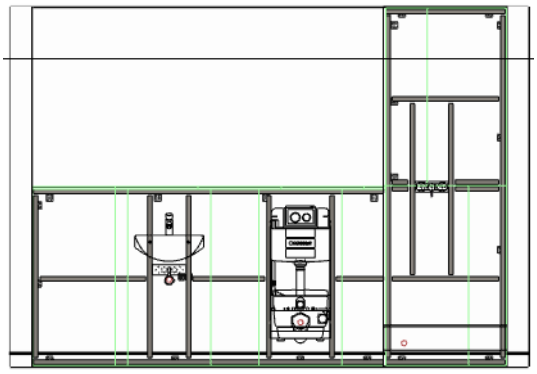


The objects available are dependent on the market.

3. Select a Geberit AquaClean Mera WC with a GIS installation element and a height of 112 or 114 cm.



4. Confirm with **OK**.
   → The WC has been replaced.



4.1.2.4 Dimensions

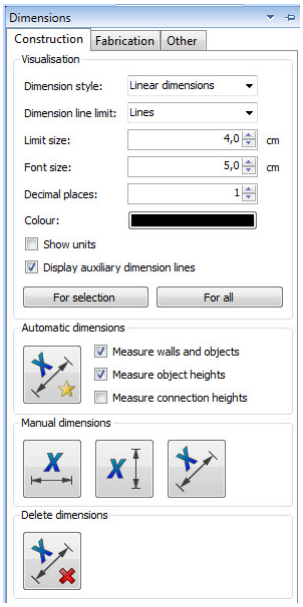
The dimension lines can be placed manually or inserted automatically by Geberit ProPlanner. The construction dimensions are inserted in the **Plan view**. The construction dimensions are inserted automatically in this planning example. The dimension lines are then arranged sensible.

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

Inserting dimensions

1. Click on **Display front view arrows** in the toolbar to hide the front view arrows.

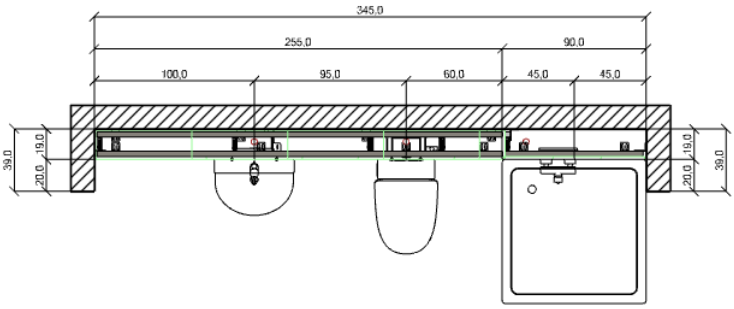
2. Open the Dimensions window.



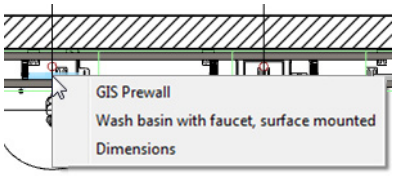
Use the checkboxes in the **Automatic dimensions** area to define which dimensions are to be generated.

3. Make sure that the **Construction** tab has been selected and click on **Automatic dimensions**.

→ The construction dimensions have been inserted.

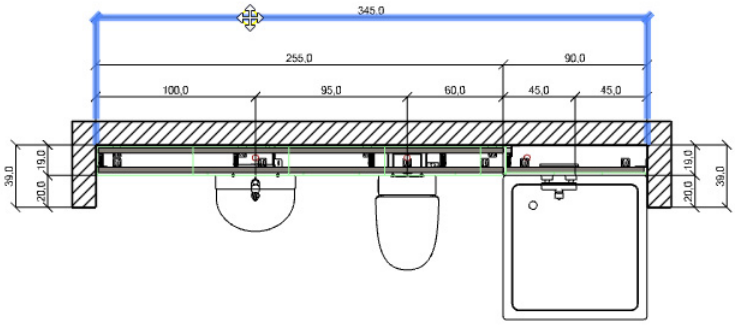


You can highlight dimension lines, objects and walls that lie on top of each other using the **Space bar**. The area underneath the cursor is displayed in a selection menu as soon as you press the **Space bar**. You can select the required object using this selection menu. The object is then highlighted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



Moving dimension lines

1. Click on **Move infotexts and dimensions** in the toolbar.
2. Draw the dimension lines to the required position and click in the drawing area.

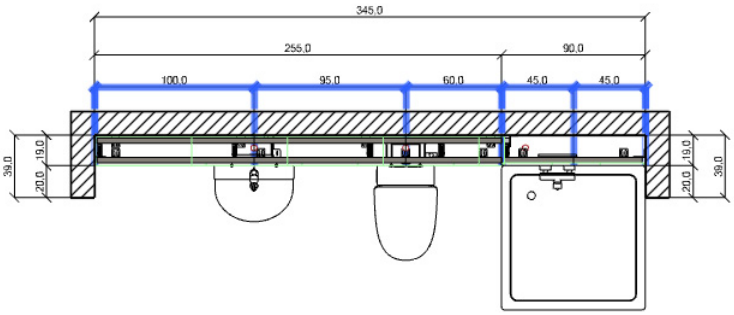


3. Press **Esc** to exit the function.

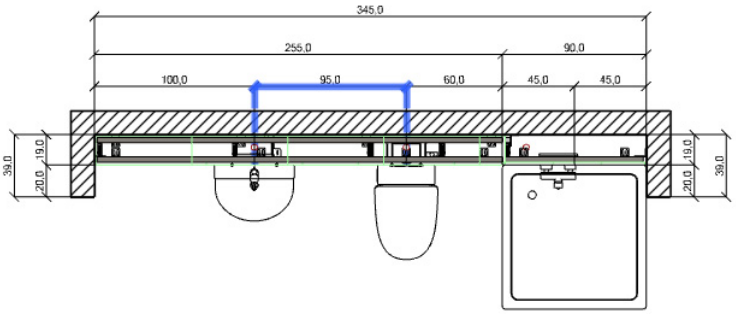
Dividing dimensional chains

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

1. Highlight the dimensional chain shown.

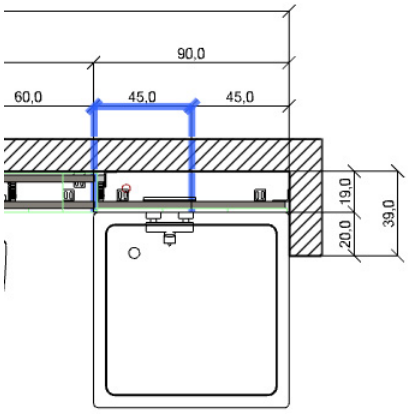


2. Right-click on the dimensional chain and select **Divide dimensional chain** in the pop-up menu.
   → The dimensional chain is divided into single dimensional sections. You can now select them singly.



Deleting dimension lines

1. Highlight the left dimension line on the shower with the dimension **45**.

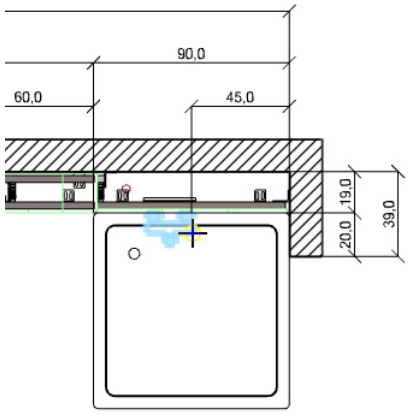


2. Press **DEL**.

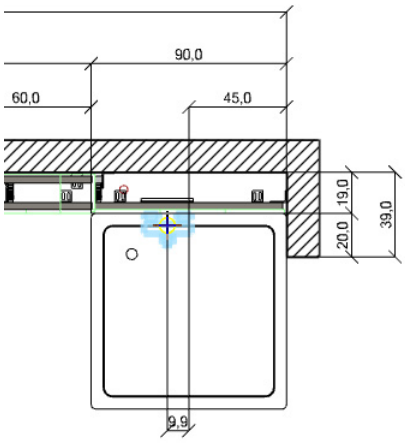
Drawing dimension lines

1. Make sure that the **Construction** tab is selected in the Dimensions window.
2. Click on **Insert horizontal dimensions**.

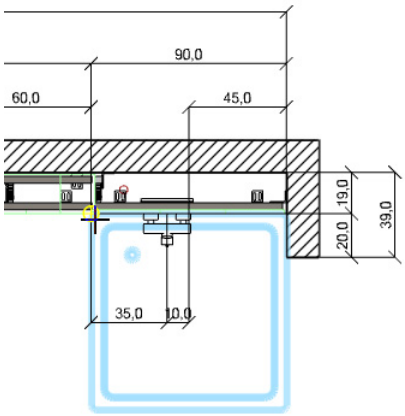
3. Move the cursor to the right edge of the shower tap.
   → The cursor appears as a cross-hair and capture mode is enabled.



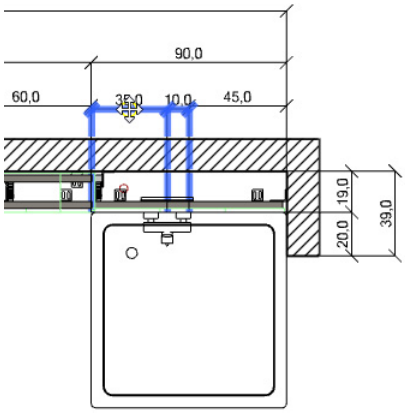
4. Click in the drawing area to set the starting point of the dimension line.
5. Move the cursor to the middle of the shower tap and click in the drawing.



6. Move the cursor to the left edge of the shower and click.



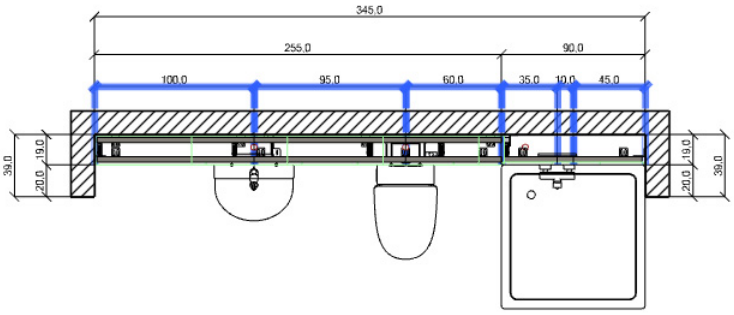
7. Press **Esc** to finish drawing the dimension line.
   → The dimension line is suspended from your cursor.
8. Move the dimension line to the required position and click in the drawing area.



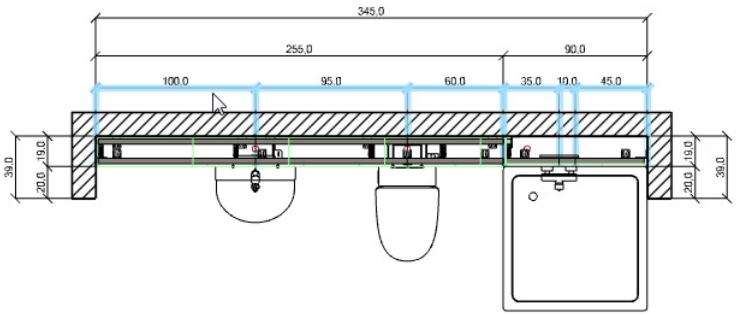
Joining dimensional chains

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

1. Highlight the dimensional sections shown.



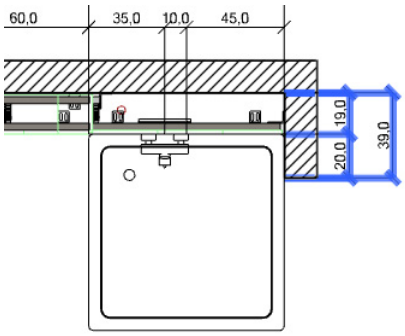
2. Right-click on the highlighted measurement sections and select **Join dimensional chain**.
   → The single measurement sections are joined to form a dimensional chain.



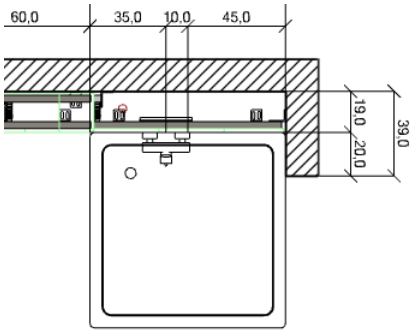
Positioning dimension figures

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

1. Highlight the dimensional chains shown.



2. Right-click on a highlighted dimensional chain and select **Set dimensional figures on other side of the dimension line**.



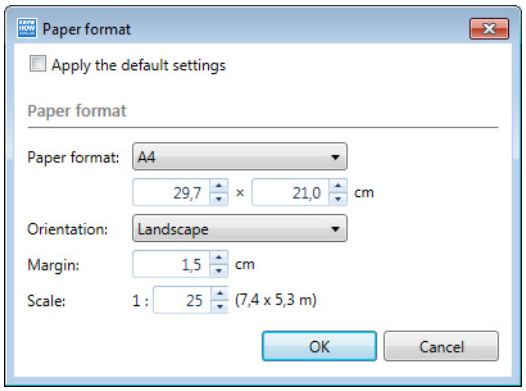
Additional information can be found under Help at **Detailed Planning 3D > Dimensions**.

4.1.3 Defining the Paper Format and Drawing Scale

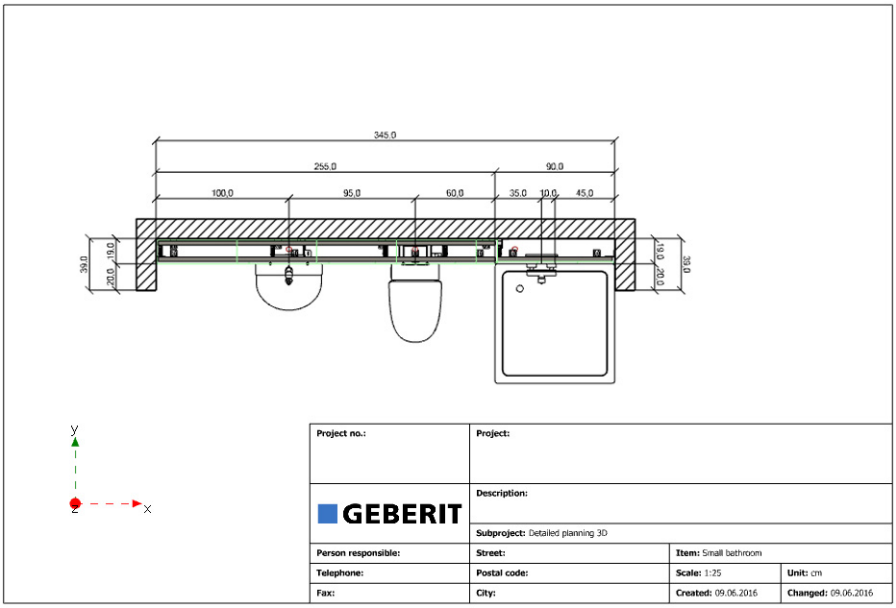
Once you have completed the dimensions, adjust the paper format, alignment and the drawing scale. Select a paper format and alignment supported by your printer.

Defining the paper format

1. Double-click on the title block in the Design area window.
   → The **Paper format** window appears.
2. Uncheck **Apply the default settings**.
3. For this example select **Paper format A4** and **Landscape** as the **Orientation**.
4. Leave the drawing scale at 1:25.



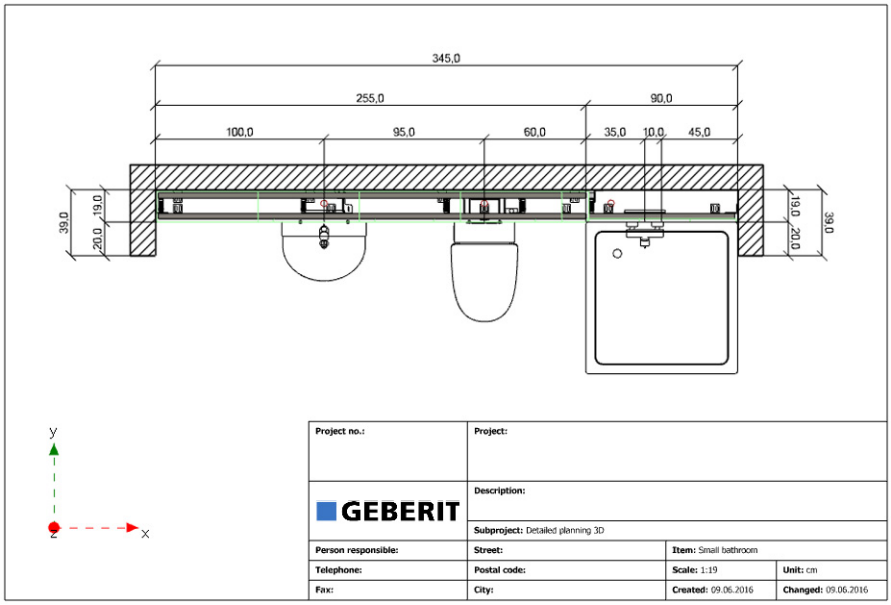
5. Click on **OK** to apply the settings.
   → The drawing frame was adapted.
   There is still too much unused space around the drawing.



Setting the drawing scale

Adapt the drawing frame to use the unused space within the drawing and visualise the drawing as large as possible within the drawing frame.

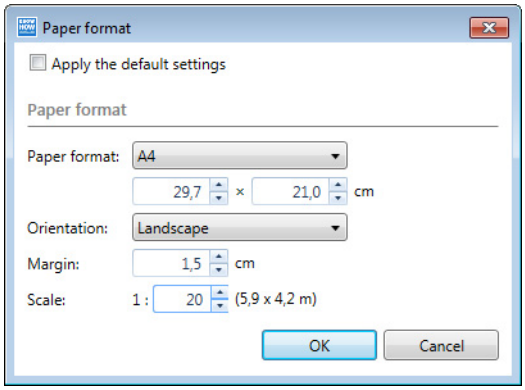
1. Click on **Adapt drawing frame** in the toolbar.
   → The drawing frame is defined in such a way that your plan is visualised to fill the space. This is the smallest scale with which you can print your drawing on the selected paper format.



2. Double-click on the title block in the Design area window.
   → The **Paper format** window appears.

   The automatically calculated minimum scale of 1:18 or 1:19 appears automatically in the **Scale** field.

3. Increase the scale to the next standard ratio (i. e. **1:20**).



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

4.1.4 Printing Graphics and Lists

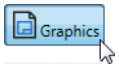
Once you have completed the drawing, you can export the installation as a graphic and then create material lists, bills of materials and installation instructions.

Printing graphics

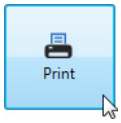
The following views can be printed as a graphic:

- Plan view
- Front views
- 3D view

1. Click on **Print / Export** in the toolbar.
   → The **Print / Export** window appears.
2. Click on **Graphics**.



3. Select a printer in the **Output** area.
4. Select which views you wish to print in the **Graphics** area.
5. Click on **Print**.



Graphics can be exported as figure or CAD files. To do so, select **CAD file** or **Image file** in the **Output** area.

Additional information is available under Help under **Print and export** >**Export graphic**.

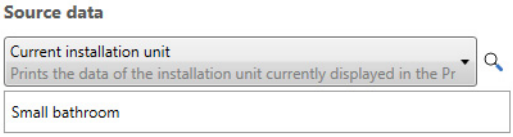
Printing lists and graphics

There are different list types available when creating an offer, for example Material lists and Installation instructions. Use List settings to specify which materials are to be considered and which surcharges are to be used as the basis for the calculation. Enter the settings for Surcharges, Sort sequence and Time data once for each list. You can select material groups for some list types and enter comments. You can save all settings and use them for additional print jobs.

You can specify the Hourly rate and Value Added Tax for the total project in the Project window using the **Change project data** link.

1. Click on **Print / Export** in the toolbar.
   → The **Print / Export** window appears.
2. Click on **Lists**.

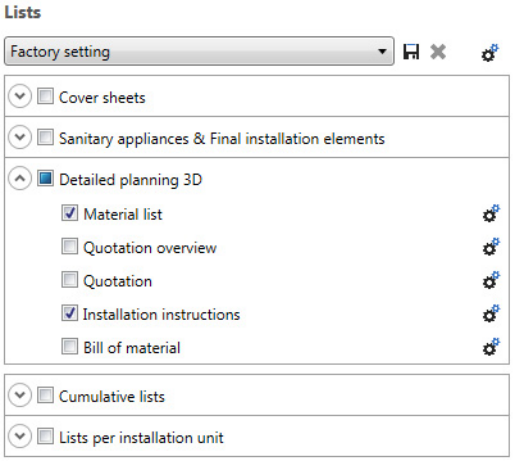
3. Select **Current installation unit** in the **Source data** area.



4. Click on **Settings for all lists** in the **Lists** area.

5. Enter settings for **Surcharges**, **Display** and **General** and confirm with **OK**.

6. Open the range of list types for **Detailed Planning 3D** in the **Lists** area and check the required lists.

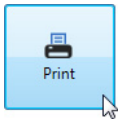


7. Click on **Settings for this list**, to select **Material groups** and specify list type-specific data.
8. Confirm the settings with **OK**.

If you wish to use settings for the list and list types for additional print orders, save the settings under a list name. To do so, click beside the list selection on .

9. Select a printer in the **Output** area.
10. Select which pages you wish to print.

11. Click on **Printer settings** to enter additional settings for the printer.
12. Select the number of **Copies** in the **Print** area.
13. Click on **Print** to start the print process.



Additional information is available under Help under **Print and export** > **Print lists**.

4.2 Planning a Complex Room

This chapter covers the following topics:

- Adapting module settings
- Drawing rooms
- Inserting doors and windows
- Free-drawing a partition wall
- Part-height, room-height prewalls
- Inserting duct inserts
- Placing objects
- Adapting object properties
- Inserting a recess

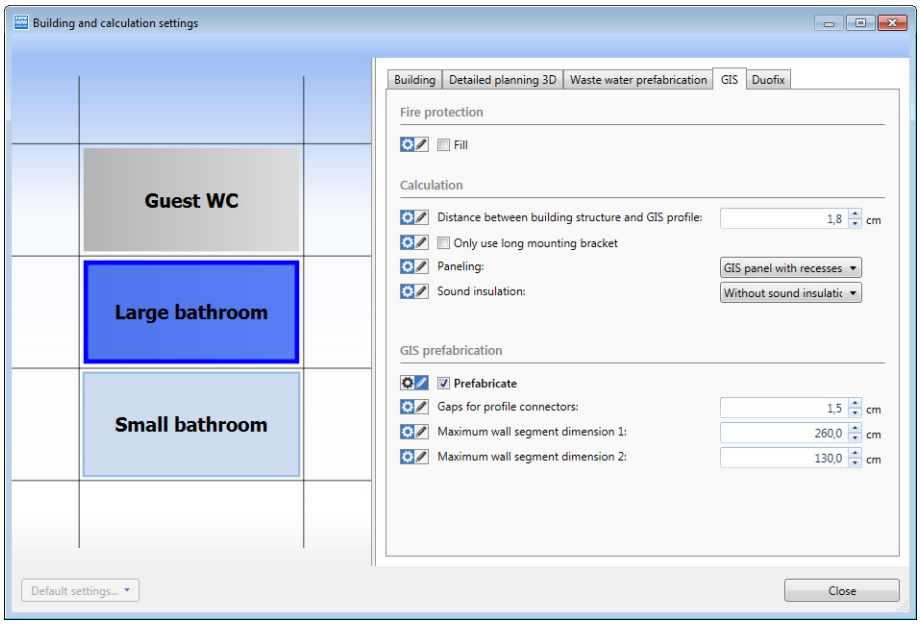
A graphic visualisation of the planning example can be found at the end of the training manual (see page 73).

4.2.1 Defining GIS Prefabrication

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.

You can define the corresponding settings in the **Building and calculation settings** window.

1. Click on the **Building and calculation settings** link in the Building window.
   → The **Building and calculation settings** window appears.
2. Select the **GIS** tab.
3. Select the central installation unit **Large bathroom**.
4. Select **Prefabricate** in the **GIS prefabrication** area.



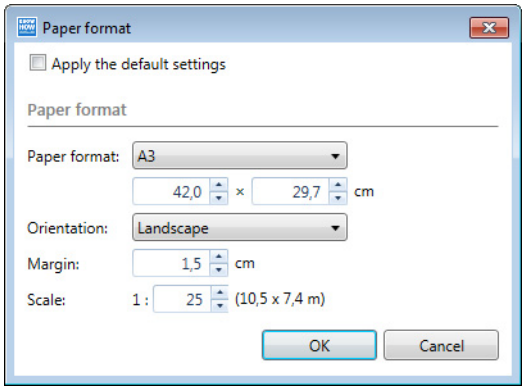
5. Click on **Close** to apply the settings.

4.2.2 Adapting the Drawing Frame and Scale

The drawing frame and the scale for the subproject in the floor plan is adjusted for additional planning to ensure adequate space for the drawing.

1. Select the central installation unit, the **Large bathroom**, in the Building window.

   → The installation unit selected appears in the Design area window.
2. Double-click on the title block in the floor plan.
   → The **Paper format** window appears.
3. Uncheck **Apply the default settings**.
4. Select the **Paper format A3**.
5. Select **Landscape** in the **Orientation** field.
6. Define the value **1:25** as the **Scale**.



7. Confirm the settings with **OK**.

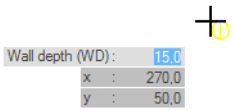
4.2.3 Drawing Rooms, Doors and Windows

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

4.2.3.1 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:

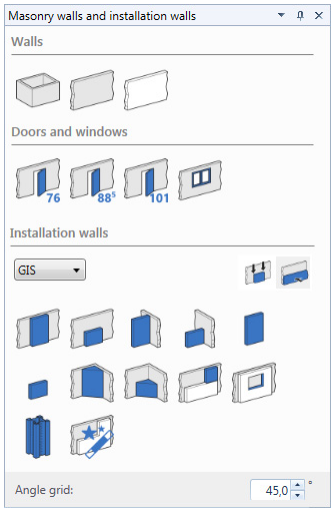
- Wall depth
- x and y coordinates with reference to the reference point
- Length

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.

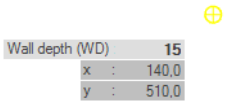
Additional information on walls can be found under Help at **Detailed Planning 3D > Placing and adapting walls > Drawing rooms and walls**.

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

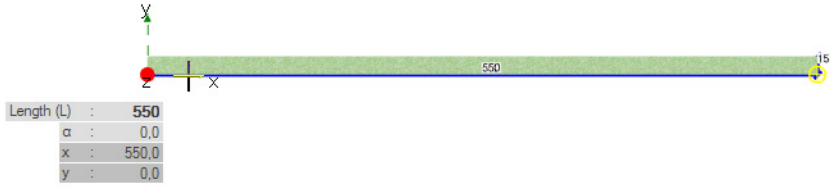


2. Select **Solid wall** in the **Walls** area.

3. Move the cursor into the drawing area.
   → The cursor entry appears at the cursor.
4. Enter the value **15** in the **Wall depth** field.

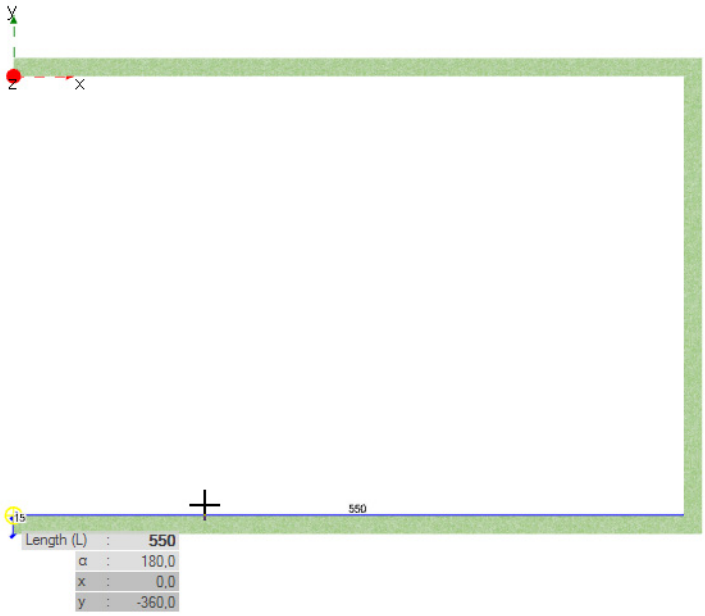


5. Click in the drawing area to set the starting point of the first wall.
6. Enter the value **550** in the **Length (L)** field and confirm with **Enter**.
   → A 550 cm long wall is drawn.



7. Move your cursor downwards to indicate the direction of the next wall segment.
8. Enter the value **360** in the **Length (L)** field and confirm with **Enter**.
   → A 360 cm long wall is drawn.

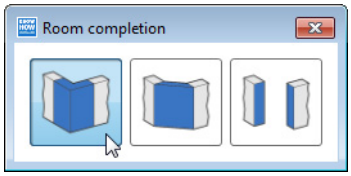
9. Move your cursor to the left to indicate the direction of the next wall segment.
10. Enter the value **550** in the **Length (L)** field and confirm with **Enter**.
    → A 550 cm long wall is drawn.



11. Press **Esc** to exit the drawing function.

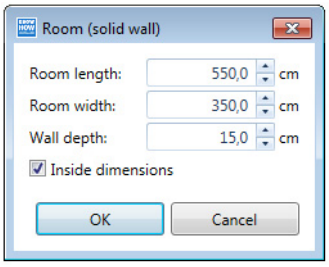
➔ The **Room completion** window appears.

12. Select **Close at point of intersection** to complete the room.



You can alternatively use the **Room (solid wall)** function to create a simple rectangular room.

To do so, enter the dimensions of the room in the **Room (solid wall)** window.



4.2.3.2 Reference Point

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.

Fig. 4-1 Reference point with axes

The reference point is automatically assigned by default and is reset according to the highlighted object.

- When placing an object, the position of the cursor (for example on the inner or outer edge of a wall) affects where the reference point is placed
- In some cases it may be advantageous if the reference point is assigned manually for the planning of distances (see page 41)

Additional information can be found under Help at **Detailed Planning 3D** > **Reference point**

Automatically assigning reference points

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

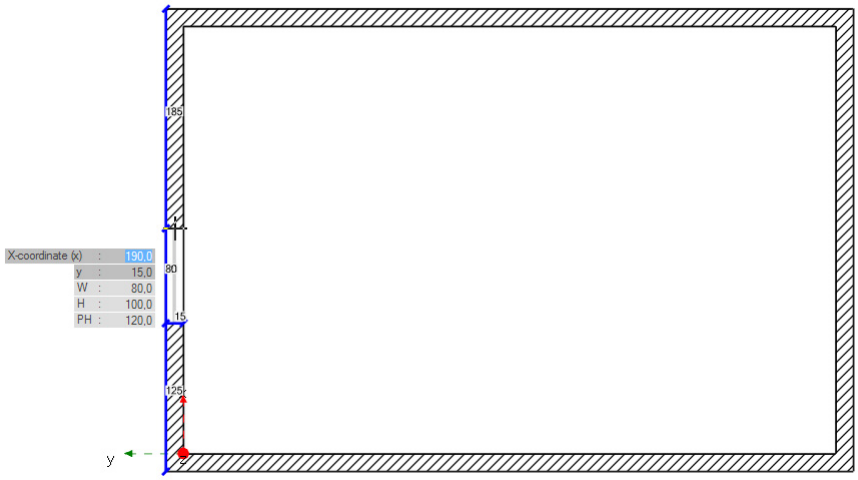
▶ Ensure that **Assign reference point automatically** is enabled.

4.2.3.3 Inserting Windows

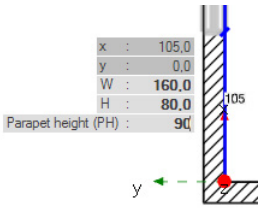
You can insert windows as required in the masonry and then adapt all dimensions, e. g. the width or parapet height.

1. Select the **Window** in the **Doors and windows** area.

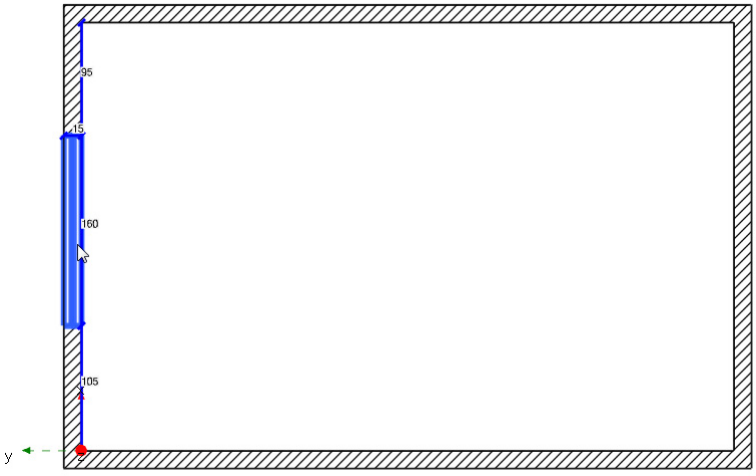
2. Position the cursor on the inside edge of the left wall. Consider when doing so the position of the reference point.



3. Use the cursor to enter the following values:
   - **X-coordinate (x)**: **105**
   - **Width (W)**: **160**
   - **Height (H)**: **80**
   - **Parapet height (PH)**: **90**



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



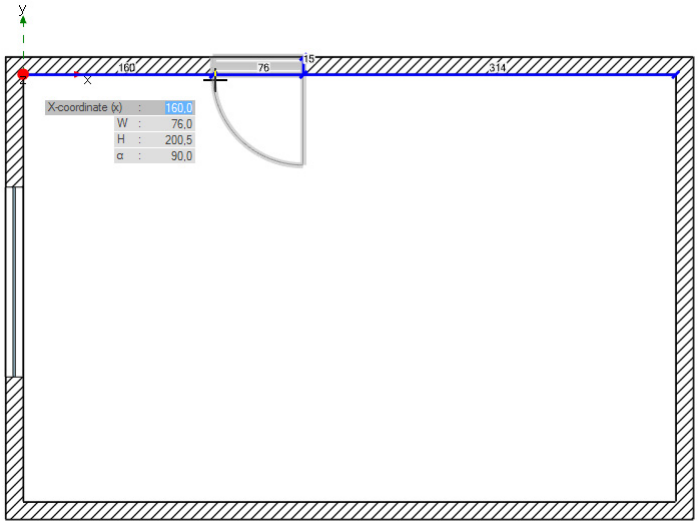
4.2.3.4 Inserting Doors

You can insert doors as required and then adapt the properties, e.g. the hinge side and the opening direction.

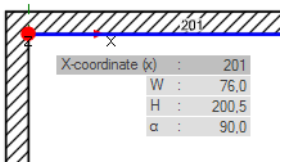
Inserting the first door

1. Select the **Door (76x200.5)** in the **Doors and windows** area.

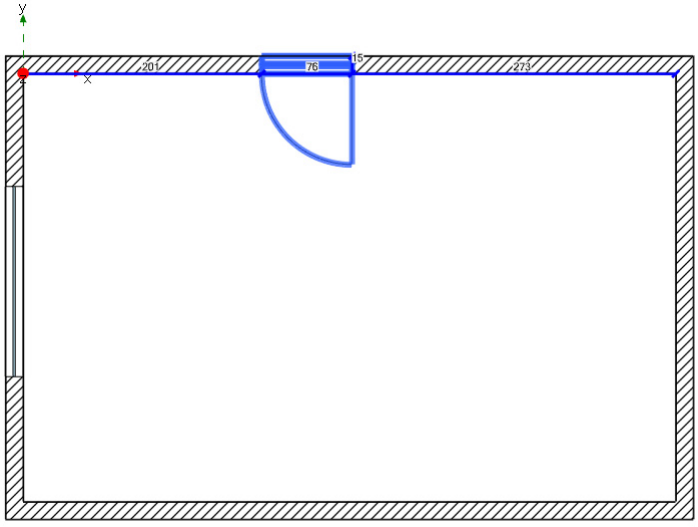
2. Position the cursor on the upper wall of the room and specify that the door opens inwards. Consider the position of the reference point.



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



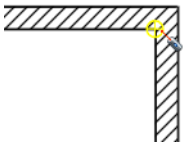
4. Press **Enter** to place the door.



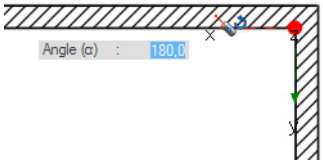
Inserting the second door

To place the second door, first manually set a reference point in the top right corner of the room. The hinge side of the door will be changed at the end.

1. Select **Set reference point**.
2. Move the cursor to the top right corner of the room.



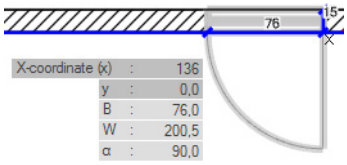
3. Click to place the reference point.
4. Move the mouse in a circular motion to position the x-axis along the long inside wall.



Note that the value that you enter in the cursor entry is measured in the direction of the x-axis. Ensure also that the x-axis of the system axis is pointing in the right direction.

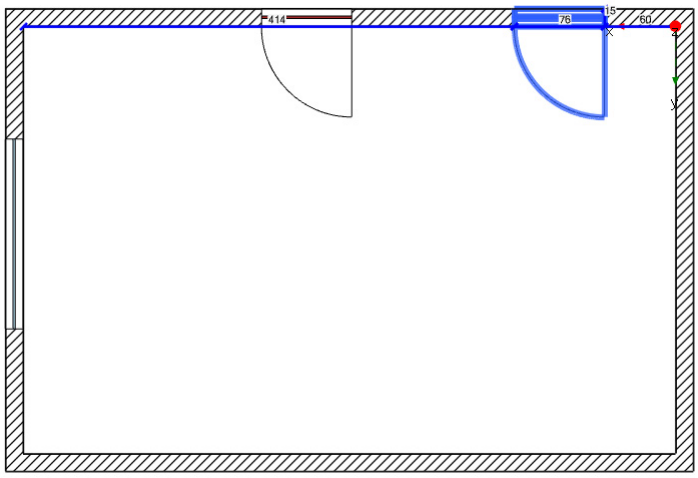
5. Click to place the reference point.
6. Highlight once again the **Door (76x200.5)** in the Windows and Doors area.

7. Position the cursor on the upper wall of the room and specify that the door opens inwards.
8. Enter the value **136** in the cursor entry in the **X-coordinate (x)** field:



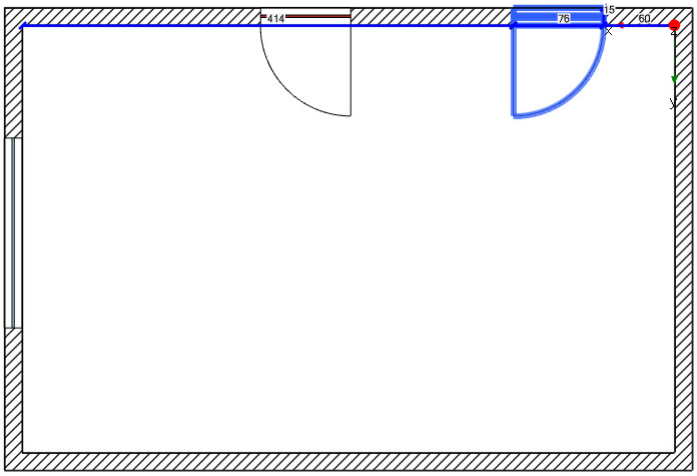
The value for the x-coordinate represents the distance of the door from the right wall side and is made up of the distance of the right door edge to the wall and the door width.

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



10. Highlight the door.

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



12. Select **Assign reference point automatically**.

4.2.4 Drawing Prewalls and Partitions

Use the **Masonry walls and installation walls** window to plan Geberit Duofix and Geberit GIS installation walls.

Geberit GIS installation walls are planned in the example. Plan Geberit Duofix installation walls in the same way. You can plan installation walls in 2 different drawing modes:

Drawing mode	Description
	Free For manual drawing (draft of traverse) along a solid construction or lightweight wall or as a free wall in the drawing area. The depth of the installation wall is defined by using the cursor entry

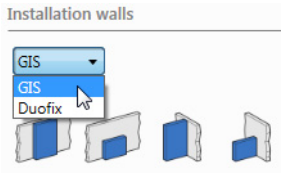
Drawing mode	Description
	Auto Adapts the installation wall to a solid or lightweight wall. The depth of the installation wall is defined by using the cursor entry

4.2.4.1 Inserting Partitions and Room Separators

Once you have drawn your room with doors and windows, it is now time to insert the installation walls. First draw the room-height partition wall and the room separator from the planning example. The partition wall divides the entire width of the room to create two separate rooms. The room separator divides only one area of the installation.

Inserting partition walls

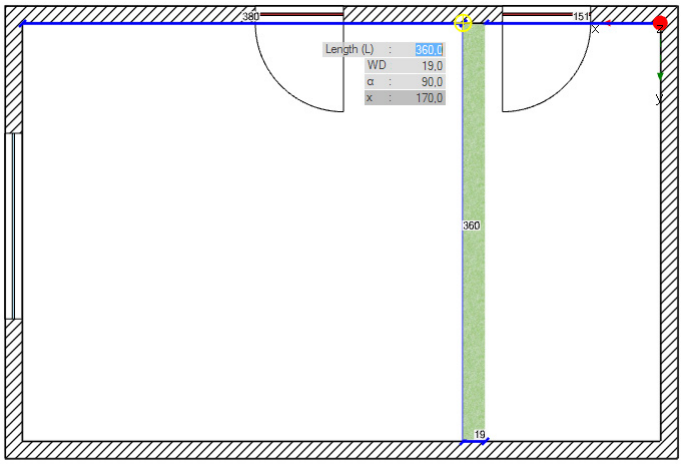
1. In the **Installation walls** area, select the **GIS** installation system.



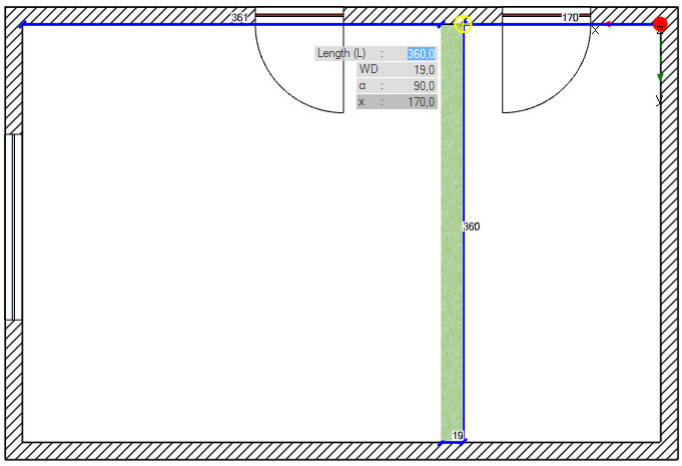
2. Highlight the room-height room separator.

3. Select **Auto** drawing mode.

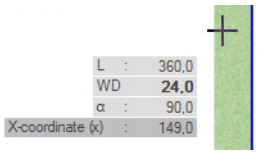
4. Move the mouse along the upper inner side of the room to the approximate position of the partition to be inserted.
   → A preview of the wall is displayed.
   The reference point lies on the left side and the wall depth is added on the right.



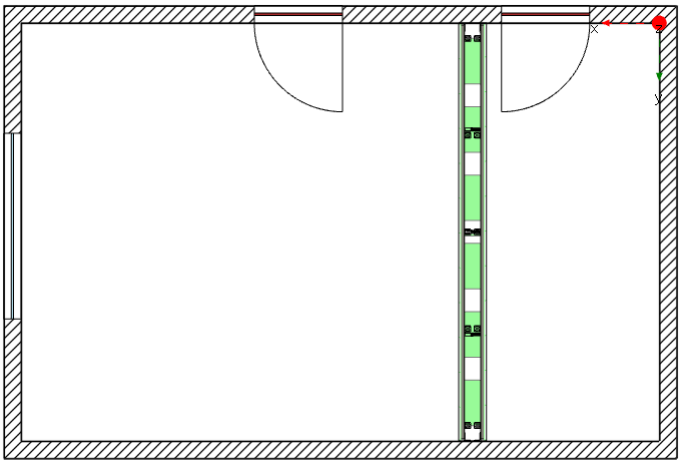
5. Press the **Z** key.
   → The wall depth is now added to the left of the reference point.



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



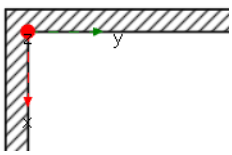
7. Confirm with **Enter** to place the wall.



Inserting free-standing GIS walls

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

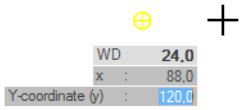
1. Click on **Set reference point** in the toolbar and set the reference point in the upper left corner of the room so that the x-axis is pointing downwards.



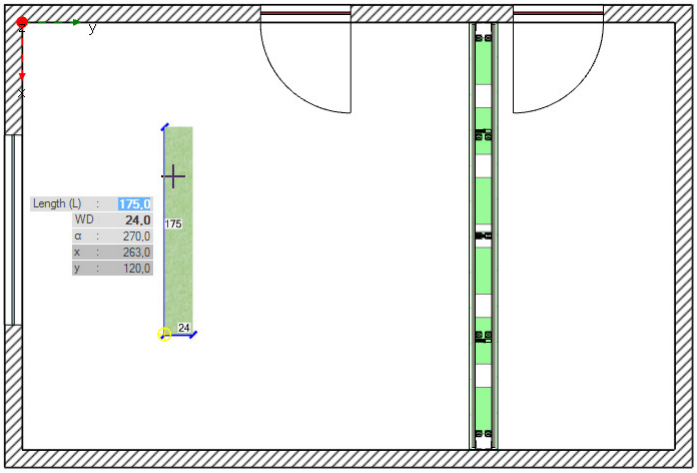
2. Highlight the free-standing, room-height wall in the **Installation walls** area.

3. Select the **Free** drawing mode.

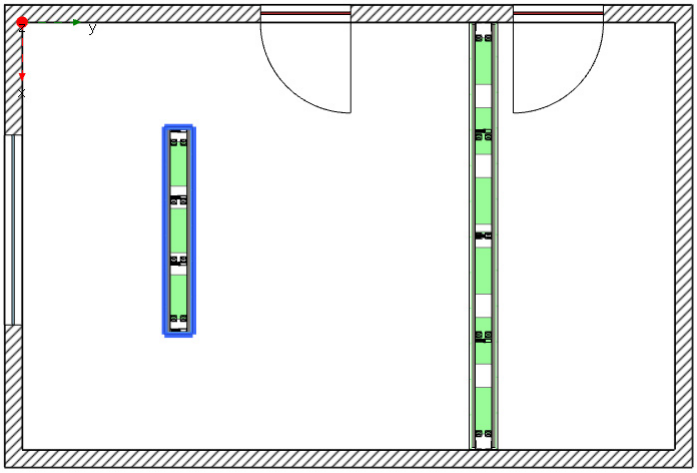
4. Move the cursor into the drawing area.
   → The cursor entry appears at the cursor.
5. Enter the value **24** in the **Wall depth** field, the x-value **88** for the horizontal and the y-value **120** for the vertical.



6. Confirm with **Enter**.
   → The cursor is placed with the coordinates entered and the starting point of the partition is set.
7. Move the mouse so that the partition wall points downwards.



8. Enter the value **175** in the **Length (L)** field and confirm with **Enter**.
   → The wall is drawn with the length entered.



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

4.2.4.2 Inserting Prewalls

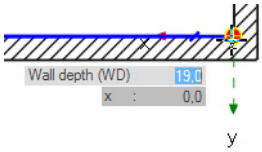
Your planning continues with 3 prewalls once you have inserted the partition wall and room separator. First insert 2 room-height prewalls and then draw a part-height prewall on the right side wall.

Inserting the first room-height prewall

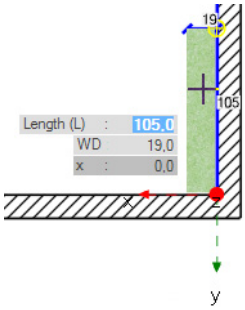
1. Select **Assign reference point automatically**.
2. Select the room-height prewall in the **Installation walls** area.

3. Select the **Free** drawing mode.

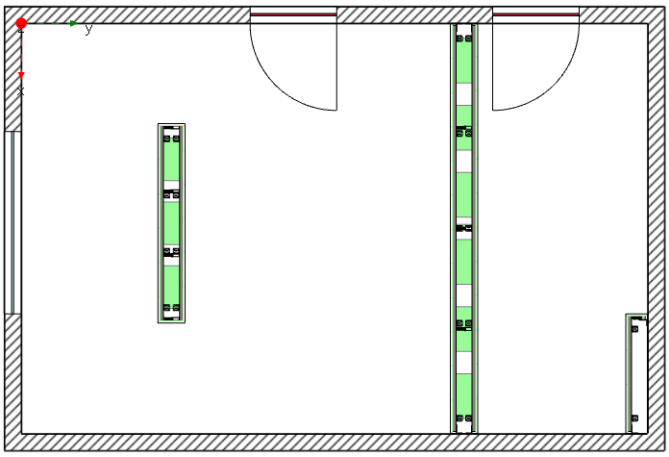
4. Enter the value **19** in the **Wall depth** field.



5. Click in the top right corner of the room 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** in the **Length (L)** field.



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



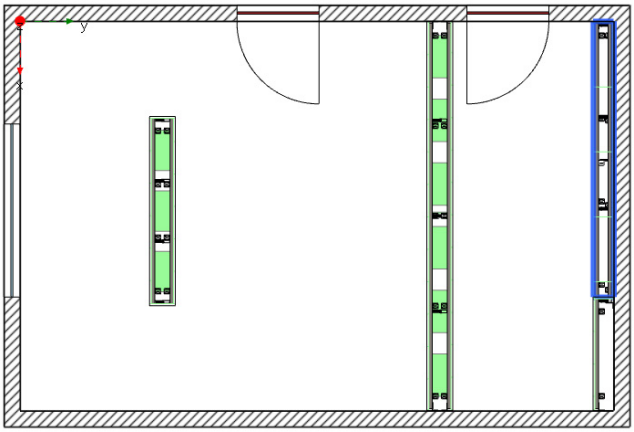
Inserting a part-height prewall

1. In the **Installation walls** area, highlight the part-height prewall.

2. Select **Auto** drawing mode.

3. Position the cursor at the planned position.
4. Enter the value **120** in the **Height (H)** field.

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

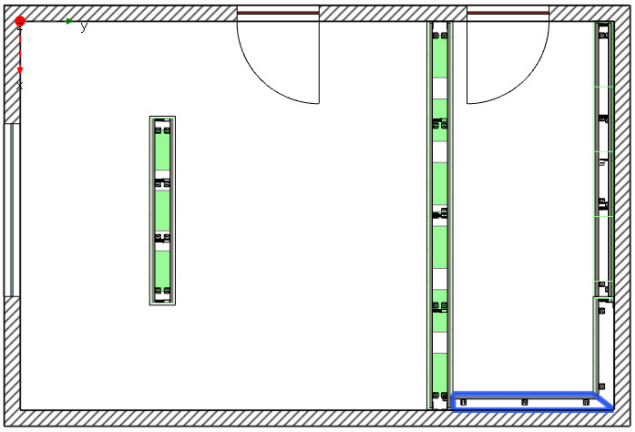


Inserting the second room-height prewall

1. In the **Installation walls** area, highlight the room-height prewall.

2. Select **Auto** drawing mode.

3. Enter the value **15** in the **Wall depth** field.
4. Position the cursor at the planned position and click.



Inserting duct inserts

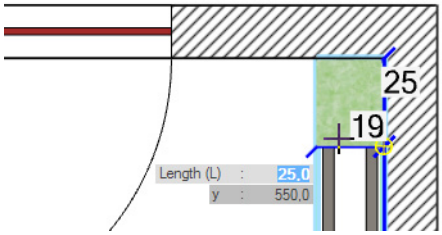
You need ducts to be able to plan pipes for water supply connections, heating, ventilation and the electrical installation. First insert a duct insert so that you can place a duct on the part-height GIS prewall.

For additional information about duct planning, refer to the Help at **Detailed Planning 3D > Placing and adapting installation walls > Duct plan**.

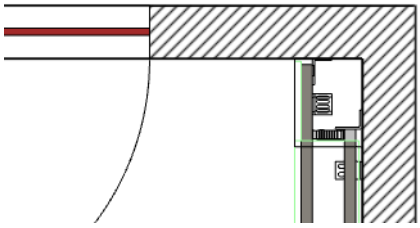
1. In the **Installation walls** area, highlight the **Duct insert**.

2. Select the **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** 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.

Inserting a corner wall

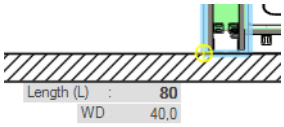
Place the corner wall once you have inserted the prewalls.

1. In the **Installation walls** area, highlight the room-height corner solution.

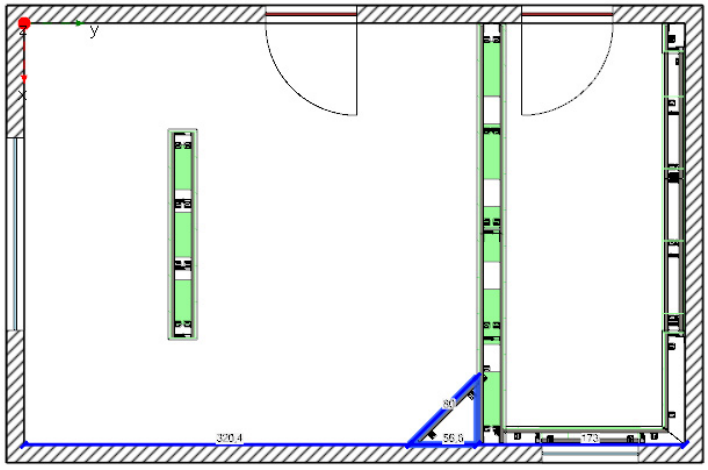
2. Select the **Free** drawing mode.

3. Move the cursor into the lower right corner of the large room so that a cross-hair with a yellow circle become visible.

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



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



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

4.2.5 Placing Objects

You can 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**.

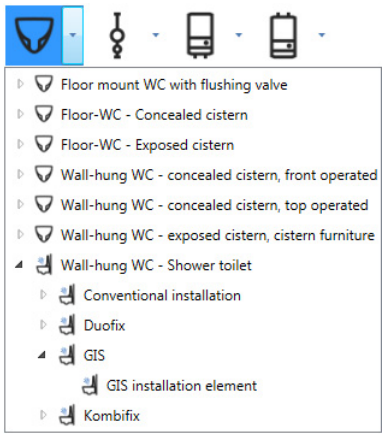
4.2.5.1 Adapting the View

- Click on **Window** in the **View** menu and select **Objects**.
  → The Objects window appears.

In the Objects window you can select between the **Large symbols** and **Tree** views.

The standard view with large symbols is used for this section in the training manual. You can change to the **Tree** view using the right mouse key pop-up menu.

Expand the tree structure using the triangle in front of the entry and select a specific object. Otherwise the default object will be used.



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

4.2.5.2 Inserting Objects into the Small Room

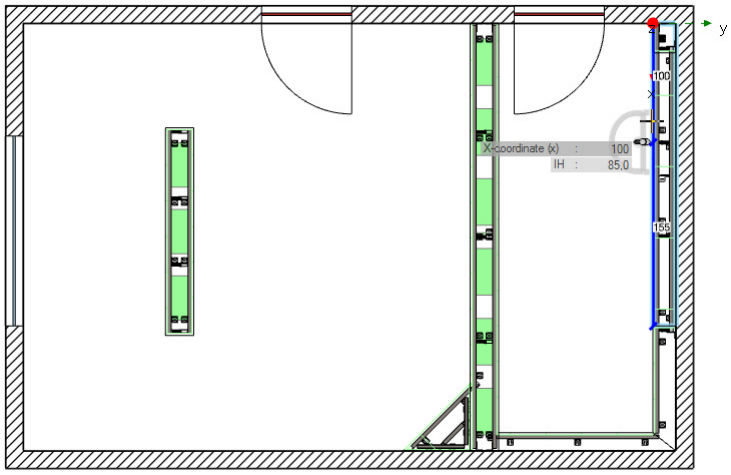
Inserting the washbasin

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

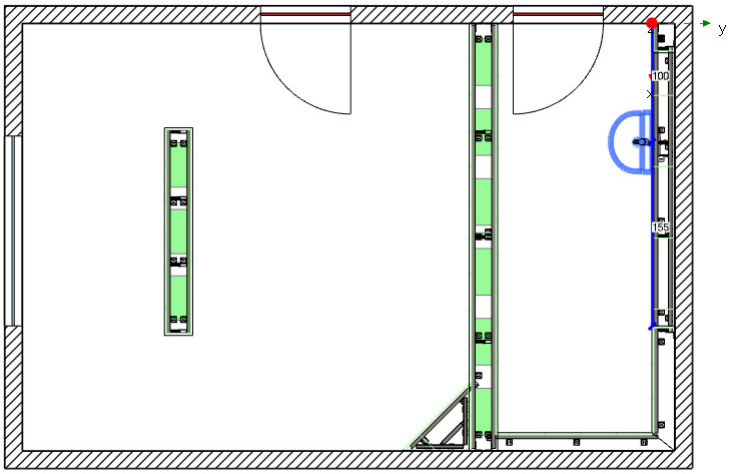
Start with the left object if several objects are placed on the same wall. You can place the additional objects by specifying the distances from the middle of the respective object. Note that the distance in the cursor entry always relates to the reference point.

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

3. Position the cursor at the top end of the part-height prewall.
   → A preview of the object as well as the cursor entry appear.
   The reference point is at the top end of the part-height prewall.



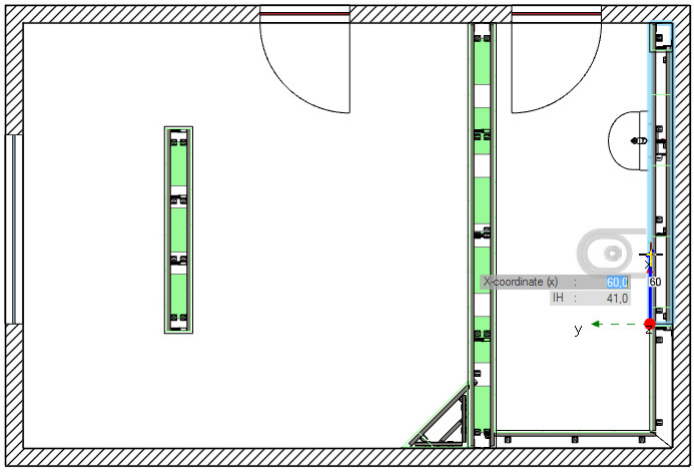
4. Make sure that the reference point is at the top and enter the value **100** in the **X-coordinate (x)** field.
5. Confirm with **Enter** to set the washbasin.



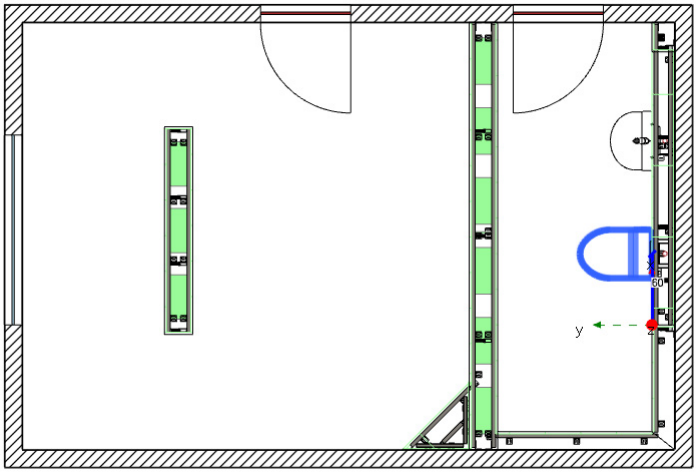
Inserting a WC

1. Select the WC in the Objects window.

2. Position the cursor on the part-height prewall so that the reference point is at the lower end of the part-height prewall.



3. Enter the value **60** in the **X-coordinate (x)** field.
4. Confirm with **Enter** to set the WC.



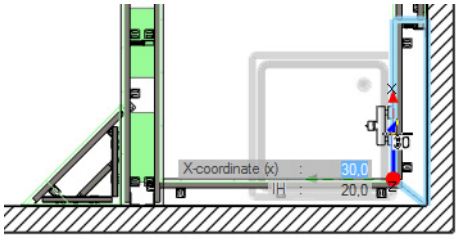
Inserting a shower

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

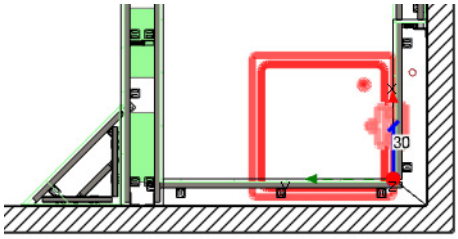
To meet this function, the shower is intentionally set incorrectly in the following step.

1. Select **Shower** in the Objects window.

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



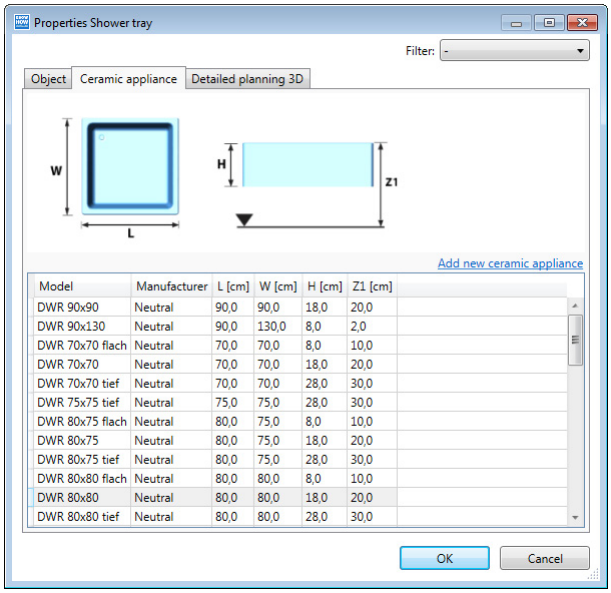
3. Click in the drawing area to set the shower.
   → The shower is set "behind the wall" and appears red in the Design area window.



Adapting ceramic sanitary appliances

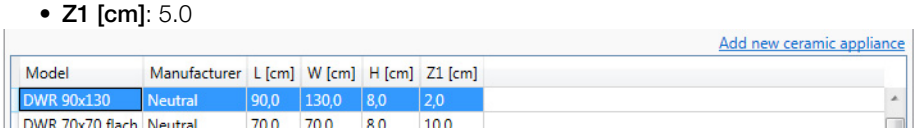
The default shower object does not conform to the specification of the planning example. In this step you will now adapt the size of the shower in line with the specification. You will then move the shower tap.

1. Highlight the shower.
2. Right-click on the shower and select **Properties** in the pop-up menu.
   → The **Shower properties** window appears.
3. Select the **Ceramic appliance** tab.

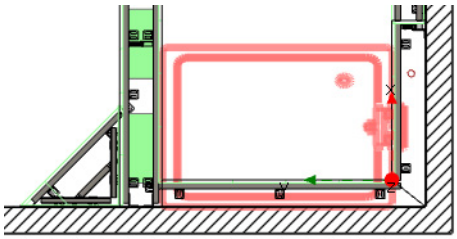


4. Click on **Add new ceramic appliance**.
   → A new line appears in the table.

5. Enter the following data. Press **Tab key** to jump from entry to entry.
   - **Model**: 90x130
   - **Manufacturer**: Neutral
   - **L [cm]**: 90.0
   - **W [cm]**: 130.0
   - **H [cm]**: 8.0
   - **Z1 [cm]**: 5.0

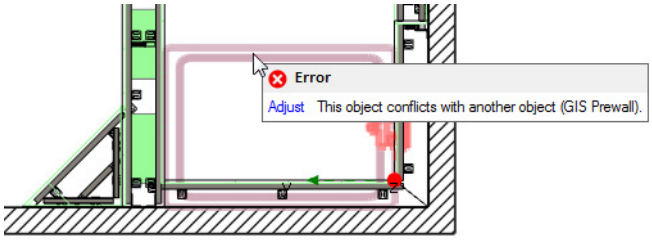


6. Make sure that the line just created is highlighted.
7. Confirm with **OK**.
   → The size of the shower has been adjusted.

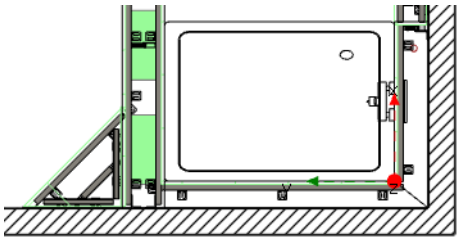


Correcting placement of the shower

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

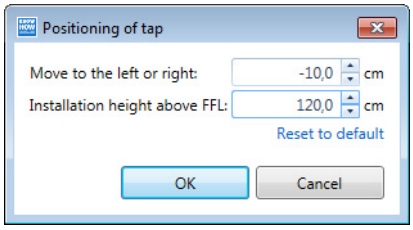


2. Click in the error message on the **Correct** link to automatically rectify the error.
   → The shower was set at the correct distance to the wall.



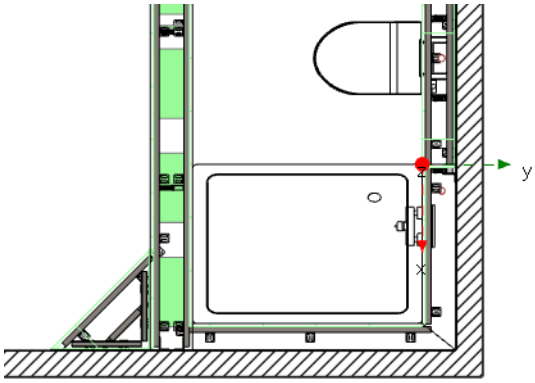
Moving the shower tap

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 to a 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.

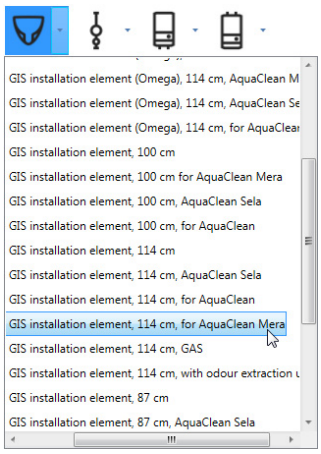
4. Confirm with **OK**.
   → The shower tap has been moved.



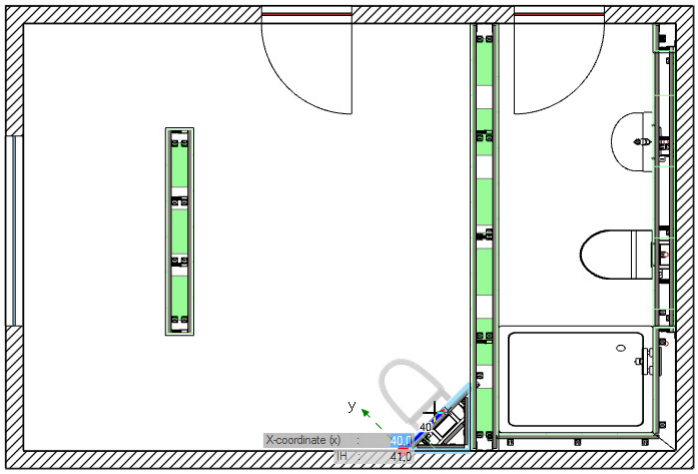
4.2.5.3 Inserting Objects into the Large Room

Inserting a WC into the corner

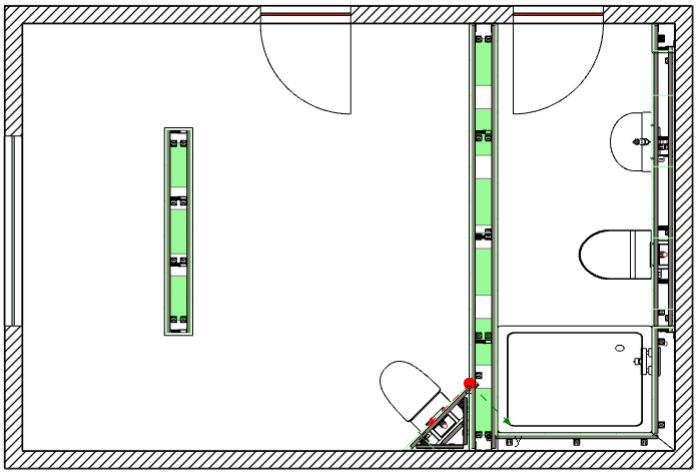
1. Highlight a Geberit AquaClean Mera series WC with GIS mounting element, 112 cm or 114 cm, in the Objects window.



2. Position the cursor on the corner wall of the large room.
3. Enter the value **40** in the **X-coordinate (x)** field.

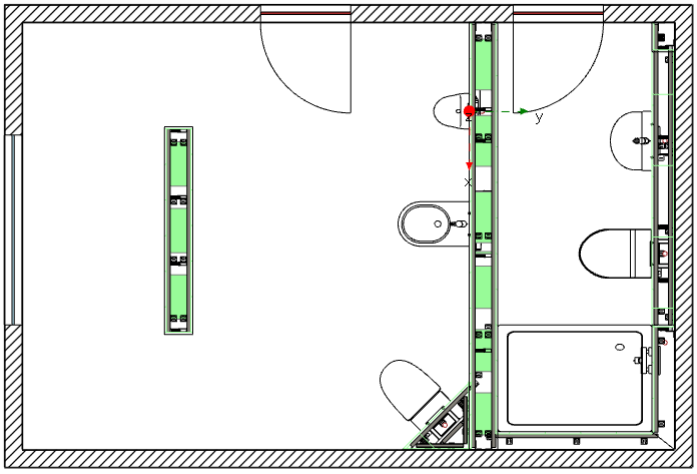


4. Confirm with **Enter** to set the WC.



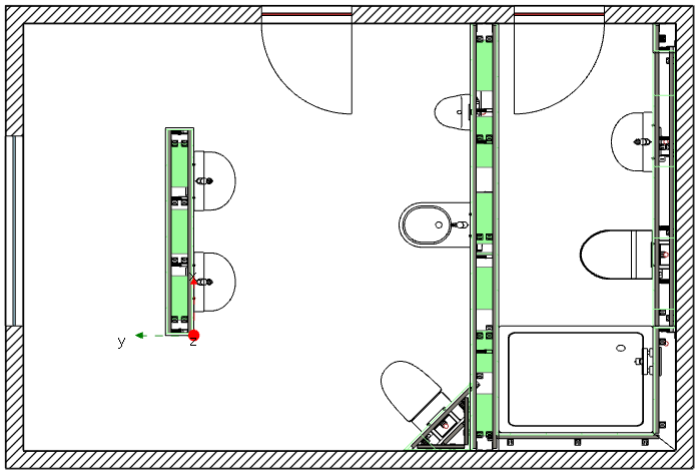
Inserting a bidet and urinal

- Set the bidet and the urinal as per the planning specification (see page 73). In each case, select the default object in the first layer.



Inserting washbasins

1. Click on **Show front view arrows** in the toolbar to hide the front view arrow.
2. Set the two washbasins as per the planning specification as well (see page 73). In each case, select the default object in the first layer.

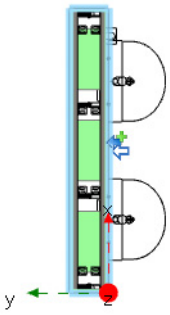


Inserting mounting plates

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

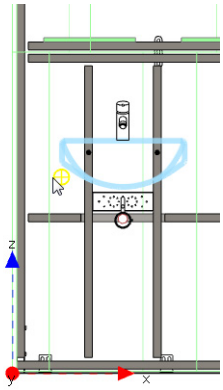
The mounting plates are shown in the front view.

1. Click on **Add front view** in the toolbar.
2. Position the cursor on the free-standing installation wall between the washbasins.

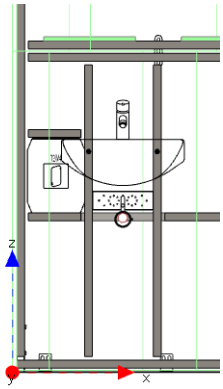


3. Click in the drawing area to set the front view.
   → The front view appears in the Front view window.
4. In the **Masonry walls and installation walls** window, select **Mounting plate**.

5. Position the cursor to the left between the left washbasin at the point at which the mounting plate is to be inserted.

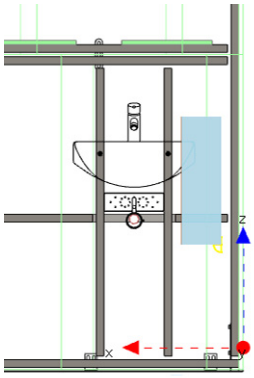


6. Click on the drawing area.
   → The mounting plate is adjusted.



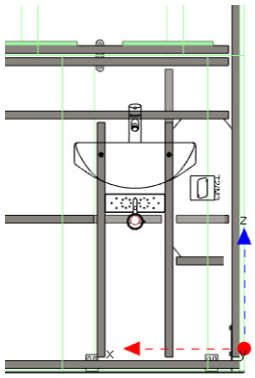
7. In the **Masonry walls and installation walls** window, select **Mounting plate**.

8. Use your mouse to draw open an area to the right close to the right washbasin, which is to be filled with a mounting plate.



→ A mounting plate is inserted which fills the entire highlighted area.

The profile in the middle of the mounting plate drawn belongs to the rear of the installation wall.

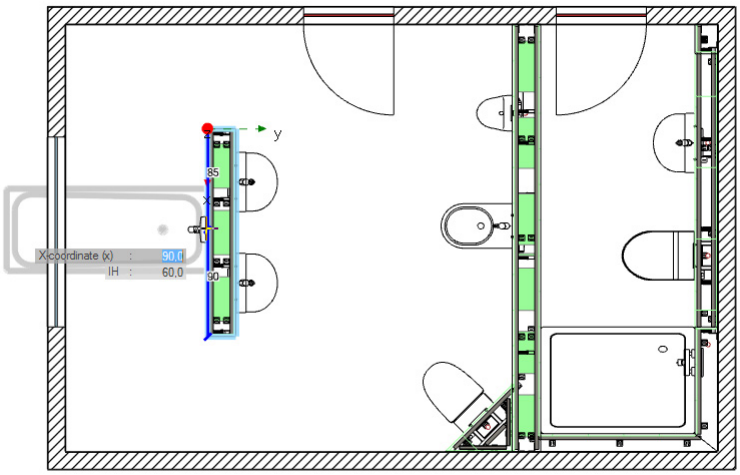


o

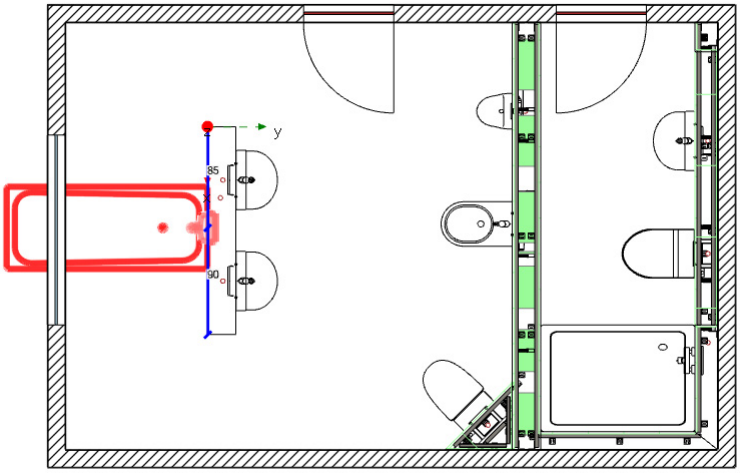
Inserting the bathtub

1. Switch back to the floor plan.
2. Highlight the bathtub in the Objects window.

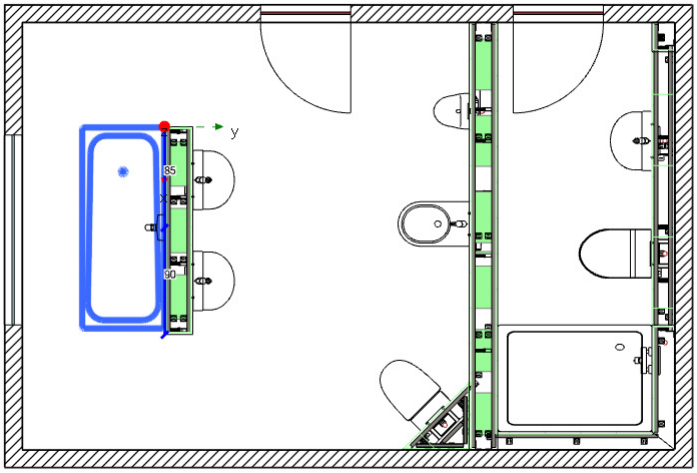
3. Position the cursor approximately in the middle of the free-standing GIS wall.



4. Click in the drawing area to set the bathtub.
   → As there is insufficient space for the bathtub, the bathtub appears red in the Design area window and the Message list also shows a corresponding error message.

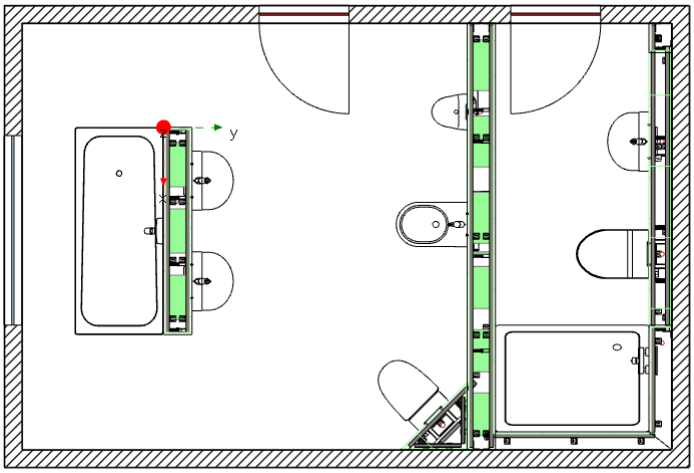


5. Highlight the bathtub.
6. Right-click on the bathtub and select **Turn** and then **Turn counter-clockwise**.
   → The bathtub is turned 90° counter-clockwise and placed on the free-standing GIS wall.



7. Adjust the ceramic size of the bathtub to 175x75 cm (see page 20).

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

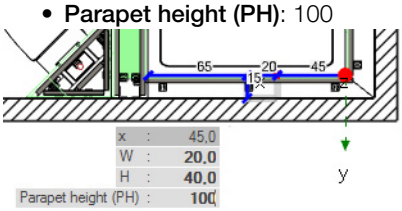


Inserting a recess

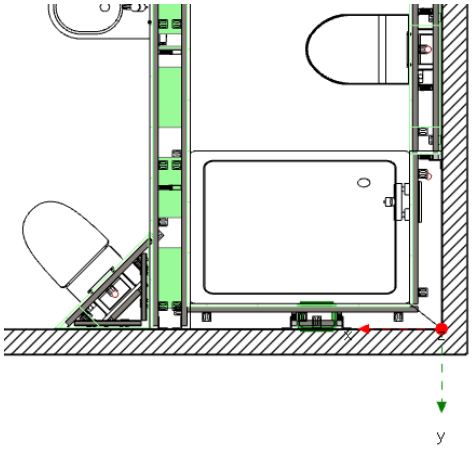
To complete the planning example, insert the recess in the shower.

1. Highlight the **Recess** in the **Installation walls** area in the **Masonry walls and installation walls** window.

2. Position the cursor on the wall in the shower.
3. Use the cursor to enter the following values:
   - **X-coordinate (x)**: 45
   - **Width (W)**: 20
   - **Height (H)**: 40
   - **Parapet height (PH)**: 100



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



4.3 Reproducing an Installation Wall on an Imported Plan

In the Detailed Planning 3D module, you can import different image files (e. g. AutoCAD DXF/ DWG, SVG, JPEG) and draw plans based on the imported graphics and images. This will now be explained in this section.

Download the training file from the following address if you do not have it: http://gpp-update.geberit.com/Download/E-Learning/english/Training Manuals/.

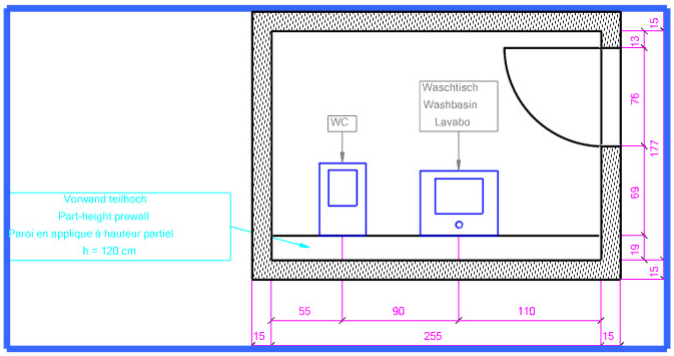
Selecting an installation unit

- Select the upper installation unit **Guest WC** in the Building window.

4.3.1 Importing a CAD Plan

Reading a CAD plan

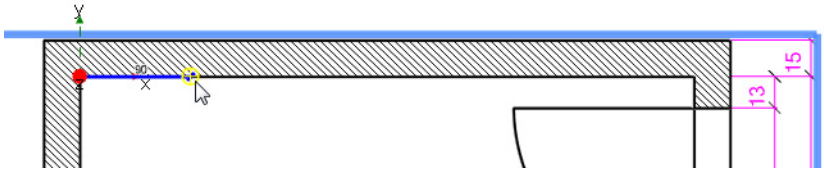
1. Click on **Import figure or CAD plan** in the toolbar.
2. Select the training file in the **Import figure or CAD plan** window.
3. Click on **Open**.
   → The CAD file is read and is suspended from the cursor.
4. Click in the drawing area to place the CAD plan.



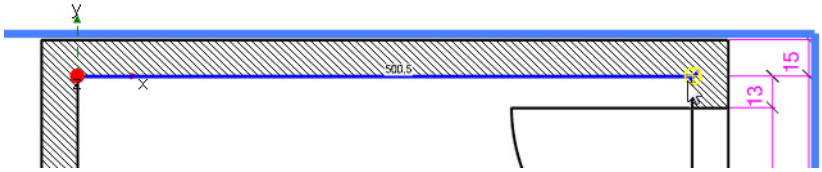
Specifying the scale

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.

1. Highlight the CAD plan.
2. Right-click on the CAD plan and select **Obtain distance** in the pop-up menu.
3. Click in the CAD plan on the upper left inner corner of the room to set the starting point of the section.

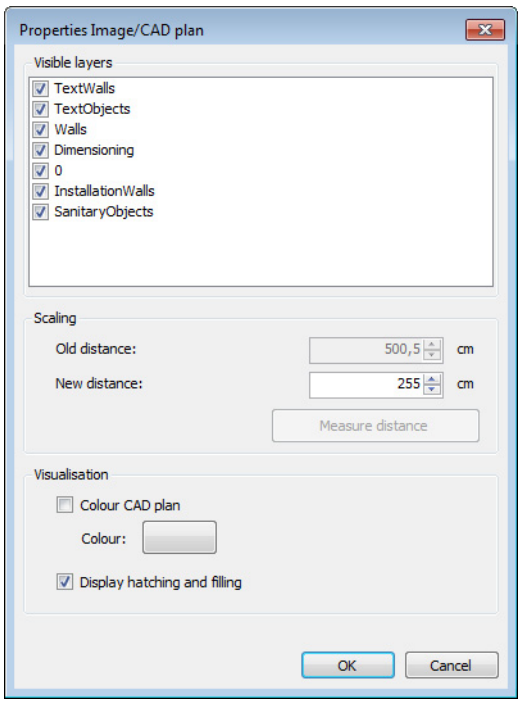


4. Click in the CAD plan on the upper right inner corner of the room to set the end point of the section.



The **Image/CAD plan properties** window appears.

5. Enter the value **255** in the **New distance** field.



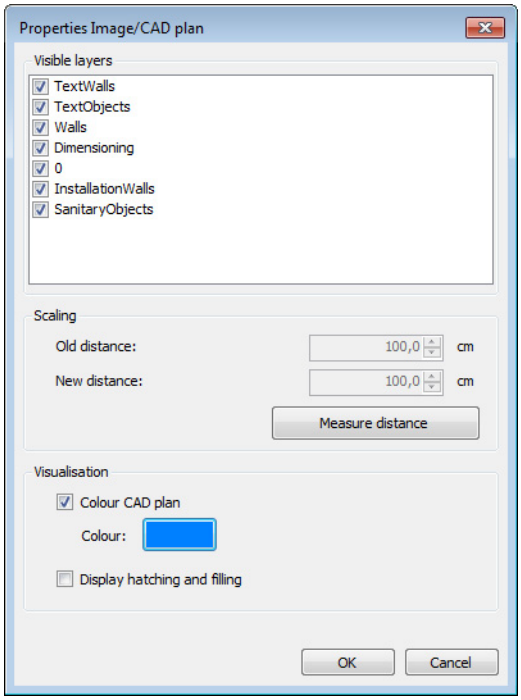
6. Confirm with **OK**.

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

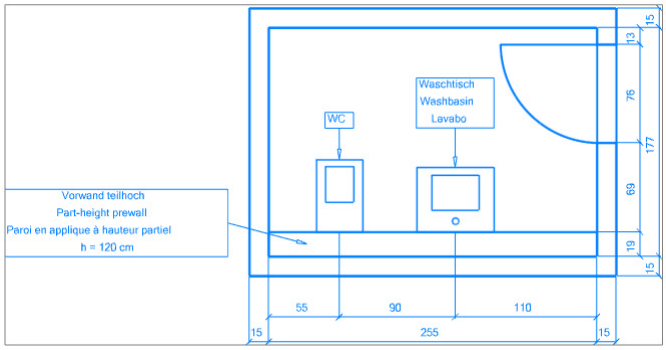
Colouring the CAD plan

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

1. Highlight the CAD plan.
2. Right-click on the CAD plan and select **Properties** in the pop-up menu.
   → The **Image/CAD plan properties** window appears.
3. Select **Colour CAD plan** in the **Visualisation** area.
4. Click on **Colour** and select a colour.
5. Deselect **Hide hatching and filling**.



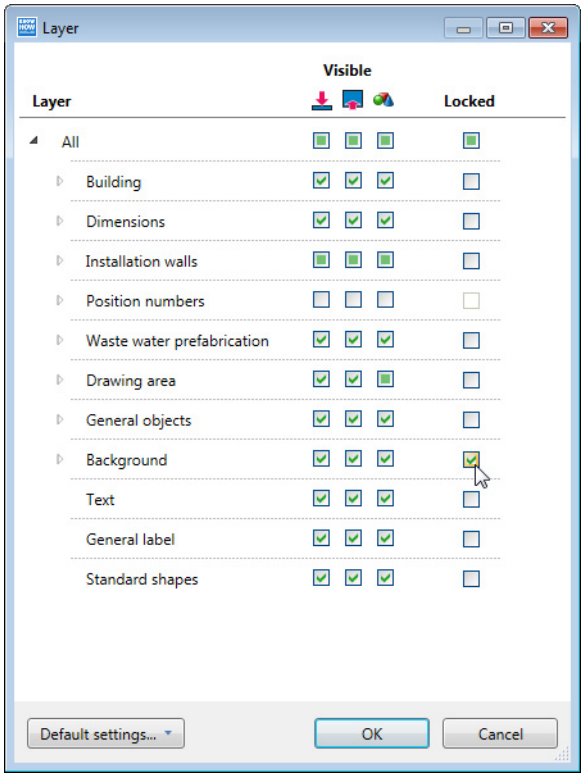
6. Confirm with **OK**.



Fixing the CAD plan

We recommend fixing the CAD plan if a plan is to be drawn up based on the imported data. You can draw objects in the Design area window without the CAD plan being moved.

1. Click in the toolbar on **Layer**.
   → The **Layer** window appears.
2. Activate the checkbox in the **Locked** column for the **Background**.



3. Confirm with **OK**.
   → The CAD plan can no longer be selected and thus cannot be inadvertently moved or changed when drawing.

Additional information can be found under Help at **Detailed Planning 3D > Images and CAD plans**.

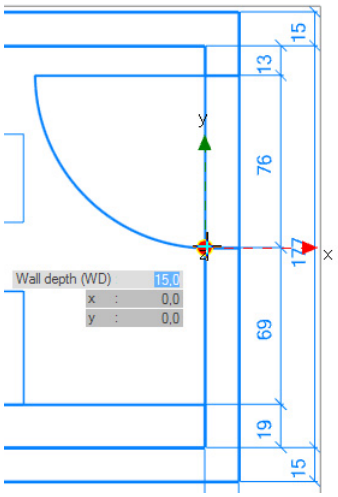
4.3.2 Drawing a Room

Reproducing walls

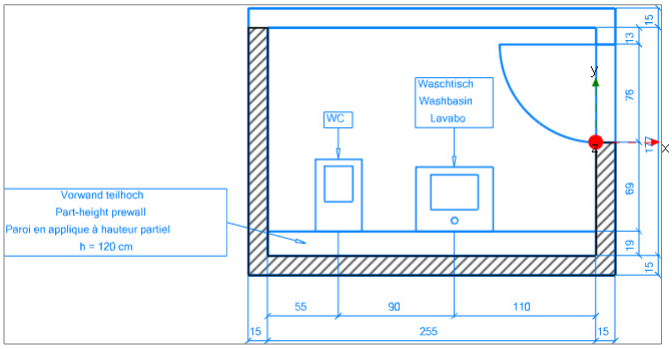
You can reproduce the plan as soon as you have specified the scale and fixed the CAD plan.

1. Highlight the solid wall in the **Walls** area in the **Masonry walls and installation walls** window.

2. Click in the CAD plan in the lower inner corner near the door to set the starting point of the wall.



3. Go around the room to the upper left corner.
4. Click on each corner to set the corner points.
5. If required, press **Z** to change the wall side when drawing.
6. Press **ESC** to quit drawing the wall and select the open room completion.

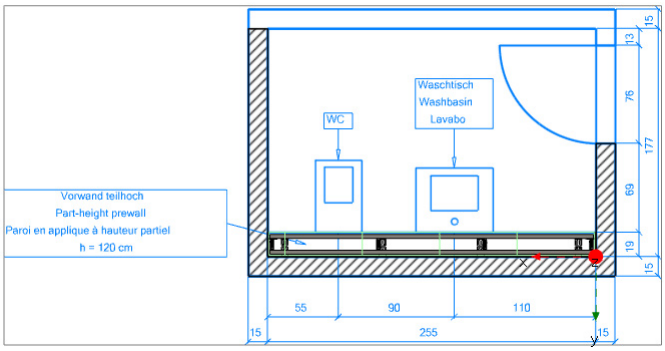


Inserting a part-height prewall

1. In the **Masonry walls and objects** window, select the part-height prewall.

2. Select **Auto** drawing mode.

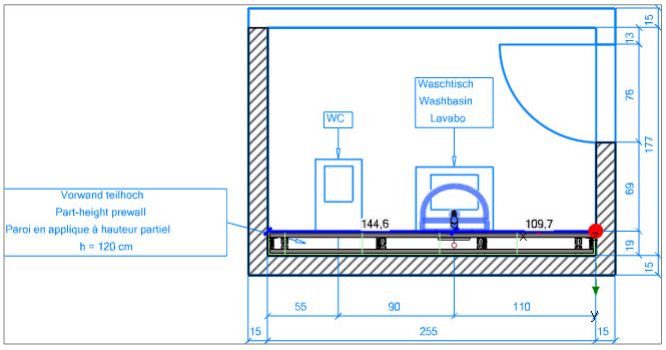
3. Insert the part-height prewall with a height of 120 cm.



4.3.3 Inserting Objects

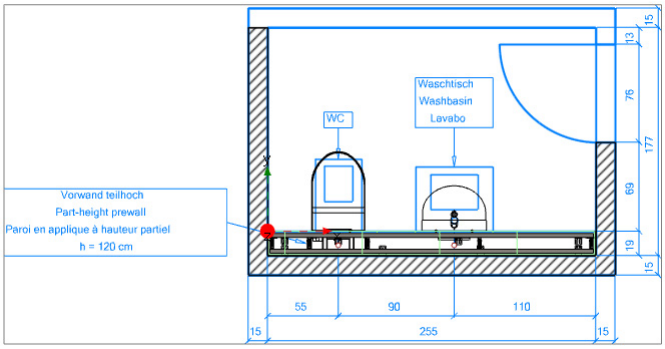
1. Select **Washbasin** in the Objects window.

2. Move the mouse over the CAD plan.
   → The cursor automatically clicks into place at capture points in the CAD plan.
3. Place the washbasin above the washbasin in the CAD plan and click in the drawing area.



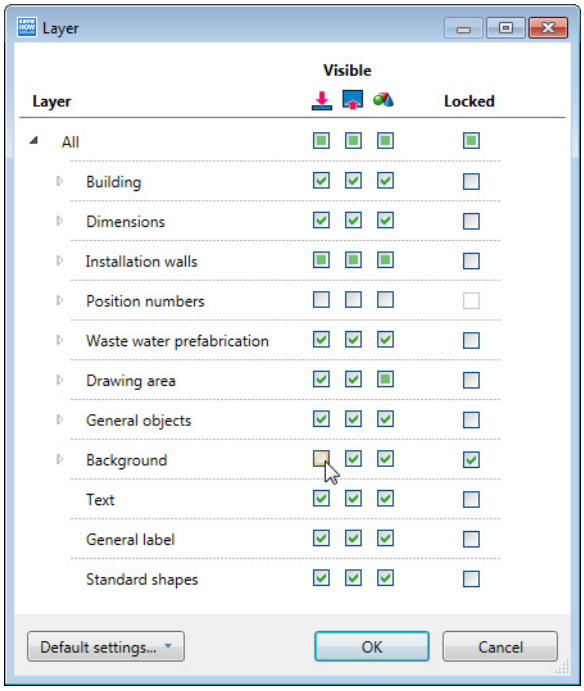
4. Select the **WC** in the Objects window.

5. Set the WC in the same way above the WC in the CAD plan.

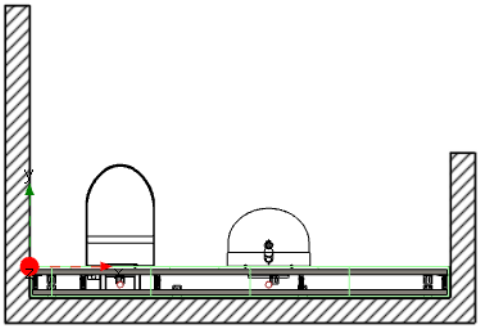


4.3.4 Hiding Layers

1. Click in the toolbar on Layer.
2. Deselect the checkbox in the **Visible** column for the **Background**.



3. Confirm with **OK**.



5 Keyboard Shortcuts

You can use keyboard shortcuts to work more quickly with Geberit ProPlanner. You can 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.

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

5.1 General

Keyboard shortcut	Description
Ctrl + **C**	Copy: Copy selected objects to clipboard
Ctrl + **A**	Select all
Press and hold down **Ctrl** + **LEFT MOUSE KEY**	Highlight several objects
Ctrl + **X**	Cut: Remove highlighted objects and copy to the clipboard
Ctrl + **V**	Paste: Paste objects from the clipboard
Del	Delete highlighted objects
Alt+**Enter**	Open properties of highlighted objects
Esc	Cancel/Exit
F5	Calculate
Ctrl + **F5**	Calculate all
F1	Call up the Help function
F2	Rename
Ctrl + **O**	Open existing document
Ctrl + **S**	Save
Ctrl + **P**	Print
Ctrl + **Z**	Undo

Keyboard shortcut	Description
Ctrl + **Y**	Redo
Right mouse key	Open pop-up menu
Ctrl + right mouse key	Open pop-up menu
+/- (on numerical keypad)	Zoom +/-
POS1	Return screen to starting position
Pressed **MOUSE WHEEL**	Move drawing area
Rotate **MOUSE WHEEL**	Zoom-in, Zoom-out

5.2 Detailed Planning 3D

Keyboard shortcut	Requirement	Description
Tab key		Coordinates field is activated when drawing walls and placing objects
Space bar		All objects located in the area underneath the cursor are shown in a selection menu and can be selected that way (Plan view and Front view)
Z	Object with several docking sides is highlighted	Object changes docking side
Arrow keys	Object or wall is highlighted in the plan view or front view	Move highlighted object a centimetre at a time
Ctrl + arrow keys	Object or wall is highlighted in the plan view or front view	Move highlighted object a millimetre at a time
M	One object is highlighted	You can move the object with your mouse

3D view:

Keyboard shortcut	Requirement	Description
Drag while holding down right mouse key		Rotation in the room
W		Slide drawing to the front
S		Slide drawing to the rear
A		Slide drawing to the left
D		Slide drawing to the right

6 Overview of Planning Examples

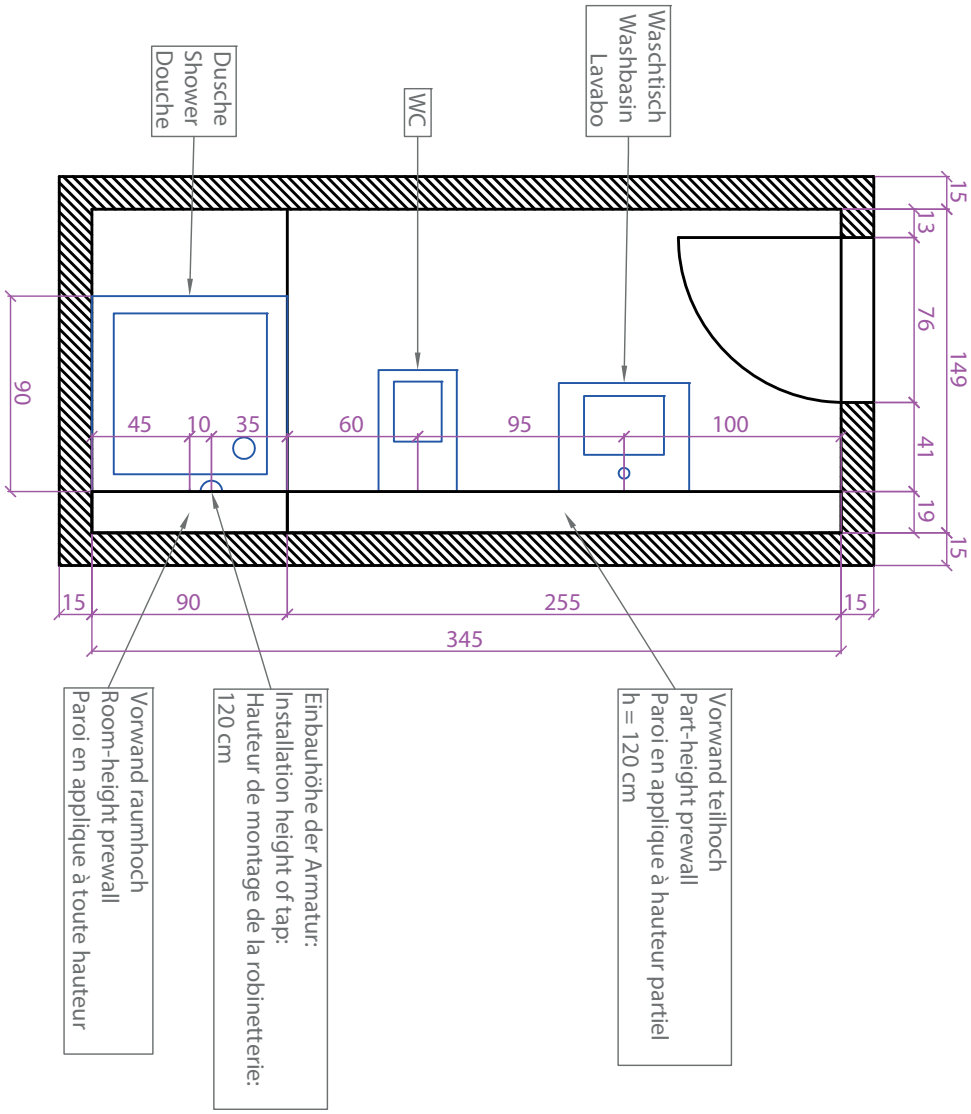


Fig. 6-1 Small bathroom planning example (all dimensions in cm)

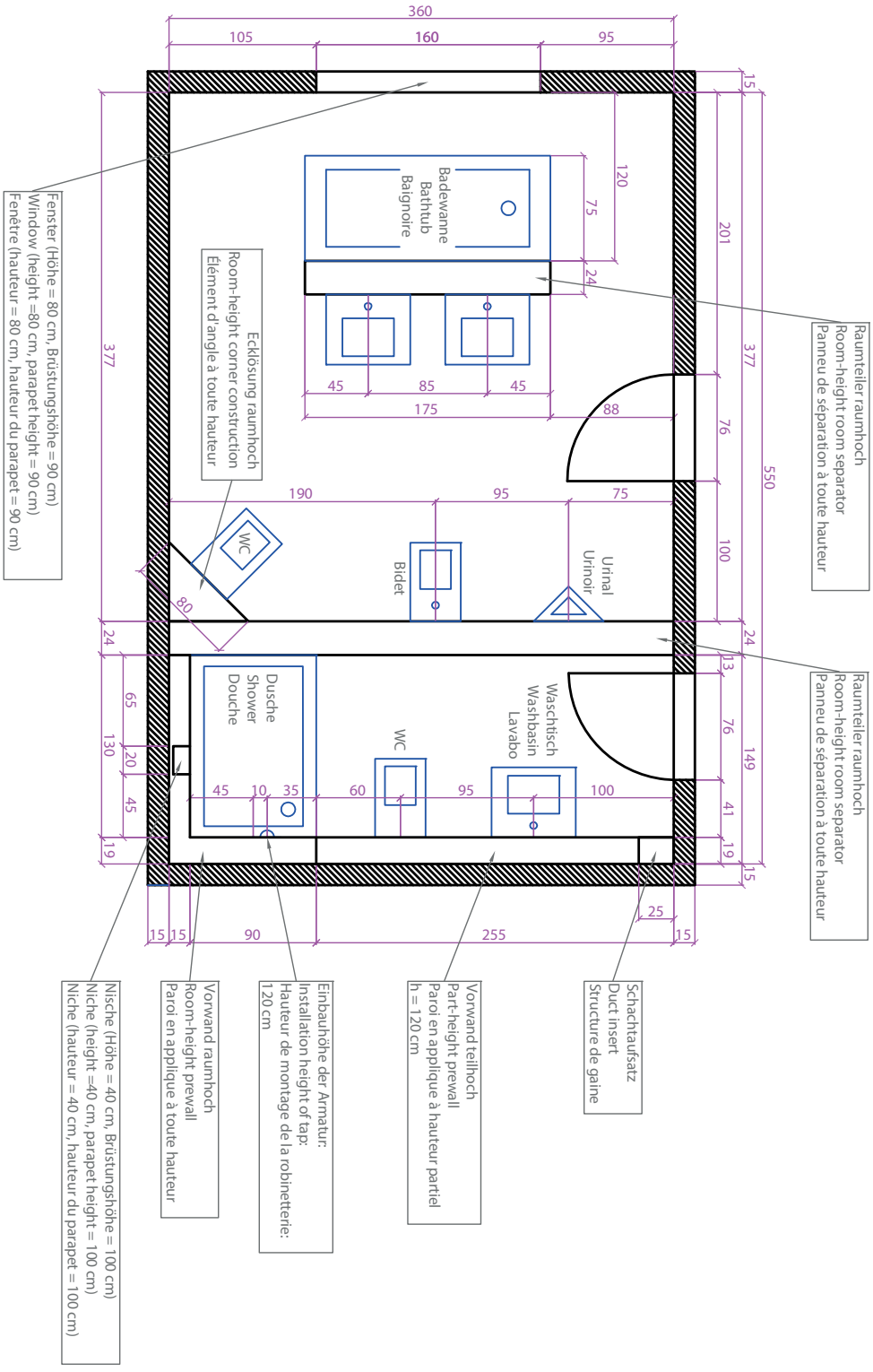


Fig. 6-2 Large bathroom planning example (all dimensions in cm)

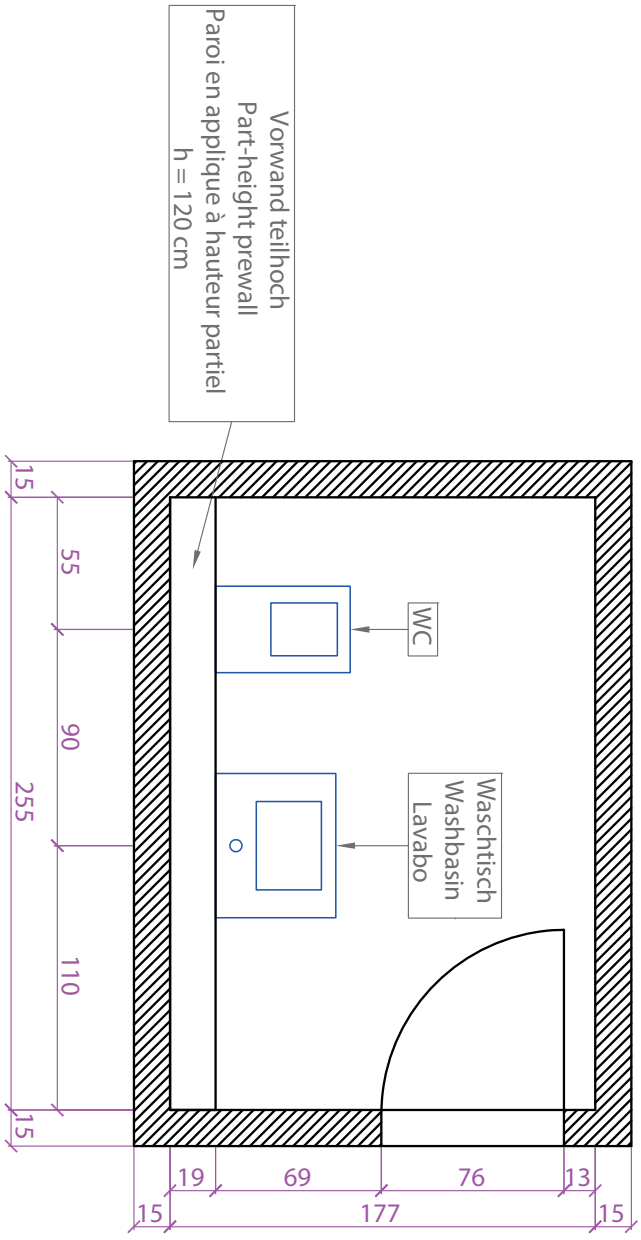


Fig. 6-3 Guest WC planning example (all dimensions in cm)