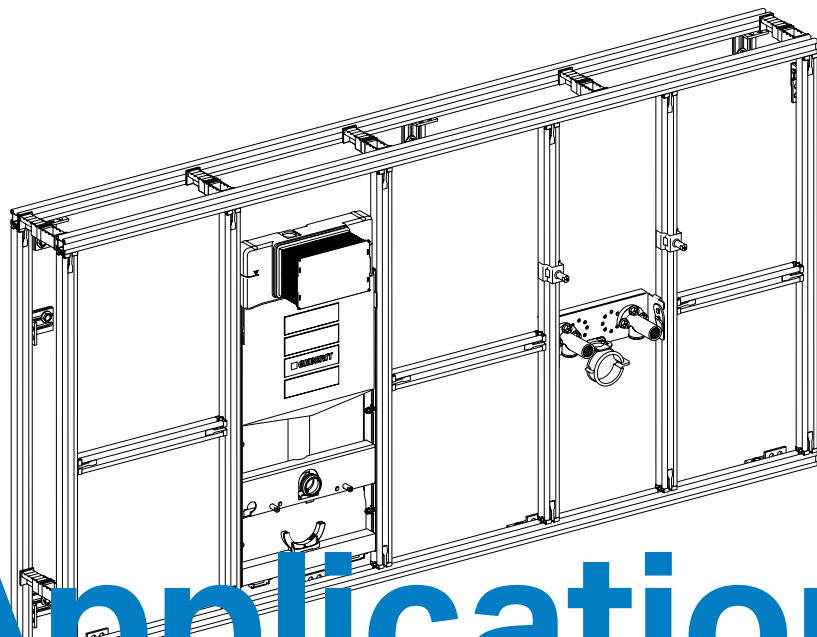




Application Technique

System walls and installation elements
Valid from May 2015

**KNOW
HOW**
INSTALLED

Legal Information

System design / dimension data

This document contains only general, technical information. The design of Geberit GIS, especially the dimensions, must be drawn up and calculated separately for each specific individual application.

The dimension data stated in this planning manual is not binding and is in particular subject to works tolerances and possible future modifications.

Disclaimer

All information contained in this document, which is based on or which refers to standards, ordinances or regulations etc., has been thoroughly researched and compiled with the greatest possible care. However, we cannot guarantee that such information is correct, complete or up to date.

Further product information

Further product information is available at www.international.geberit.com.

Copyright

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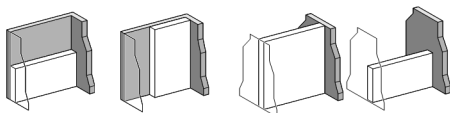
1 Installation

1.1 Installation rules

In general, Geberit GIS walls are assembled by the plumber using the support system, the installation elements and the panelling. Therefore, the support system with the installation elements is prepared in advance to such an extent that it can be screwed to the building in its entirety using the mounting bracket. Following the complete placement of all supply and drainage pipes, the Geberit system panelling is fixed with Geberit panel screws. Generally speaking, simple and constantly recurring installation rules are to be observed.

1.1.1 Basic rules for the Geberit GIS support system structure

Geberit GIS prewall, partition wall and room separator with fastening on two sides



The Geberit GIS profiles on wall, floor and ceiling are fastened with Geberit GIS mounting brackets at distances of 100 cm. On the floor and on the ceiling, each of the first Geberit GIS mounting brackets is set at a distance of 10 cm from the neighbouring wall or to the end of the wall.

If the vertical wall profiles are fixed to the horizontal floor and ceiling profiles with Geberit GIS profile connectors, then the first Geberit GIS mounting bracket on the wall can be mounted at a distance of 100 cm from the floor. In case of mounting without Geberit GIS profile connectors, the first Geberit GIS mounting bracket on the wall is mounted at a distance of 10 cm from the floor and from the ceiling.

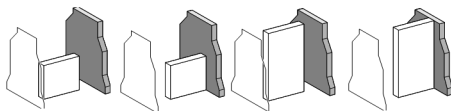
In the case of a Geberit GIS prewall, a wall fixation using Geberit GIS mounting brackets and continuous vertical Geberit GIS profiles must be put in place every 2.5 m.

In the case of a Geberit GIS wall, opposite, room-height, continuous vertical Geberit GIS profiles must be built-in every 2.5 m.

The vertical Geberit GIS profiles are connected with Geberit GIS connecting pieces at maximum distances of 100 cm. The same applies for a cruciform joint for the upper horizontal Geberit GIS profiles.

On the upper profile of the cruciform joint for the panel joint (1.35 m, possibly 2.65 m), drywall strips are placed at evenly spaced intervals across approx. 2/3 of the total wall length and are connected with both wall sides. The drywall strips must be a minimum of 30 cm in length; the distance between the screws must be < 20 cm.

Geberit GIS island and room separator with fastening on one side



The Geberit GIS profiles on wall, floor and ceiling are fastened with Geberit GIS mounting brackets at distances of 60 cm. On the floor and on the ceiling, each of the first Geberit GIS mounting brackets is set at a distance of 10 cm from the neighbouring wall or to the end of the wall.

If the vertical wall profiles are fixed to the horizontal floor and ceiling profiles with Geberit GIS profile connectors, then the first Geberit GIS mounting bracket on the wall can be mounted at a distance of 60 cm. In case of mounting without Geberit GIS profile connectors, the first Geberit GIS mounting bracket on the wall is mounted at a distance of 10 cm from the floor and from the ceiling.

The vertical Geberit GIS profiles are connected with Geberit GIS connecting pieces at maximum distances of 60 cm. The same applies for a cruciform joint for the upper horizontal Geberit GIS profiles.

On the upper profile of the cruciform joint for the plate joint (1.35 m, possibly 2.65 m), drywall strips are placed at evenly spaced intervals across approx. 2/3 of the total wall length. These are connected with both wall sides. The drywall strips must be a minimum of 30 cm in length; the distance between the screws must be < 20 cm.

Wall depths with installation kit for free-standing installation wall

Wall depths ranging from 20 to 44 cm are possible with the installation kit for free-standing installation walls. The mounting of the installation kit depends on the depth of the wall. Two installation kits are required for wall depths greater than 30 cm.

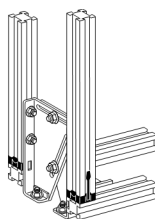


Figure 1: Wall depth 20–27 cm

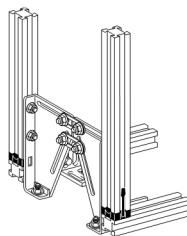


Figure 2: Wall depth 28–29 cm

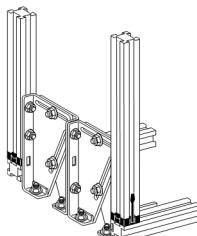


Figure 3: Wall depth 30–44 cm

Panelling

The panel joint for the panels is formed using two horizontal Geberit GIS profiles. These profiles are connected to one another with Geberit GIS connecting straps at a distance of max. 100 cm.

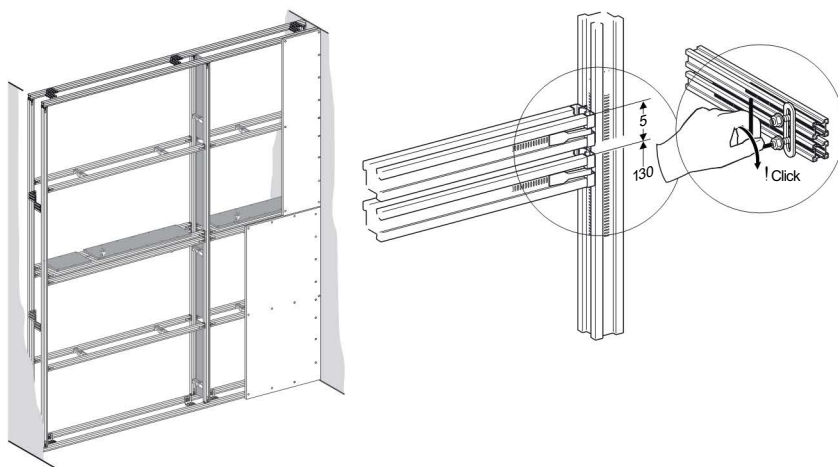


Figure 4:

1.1.2 Geberit GIS prewall

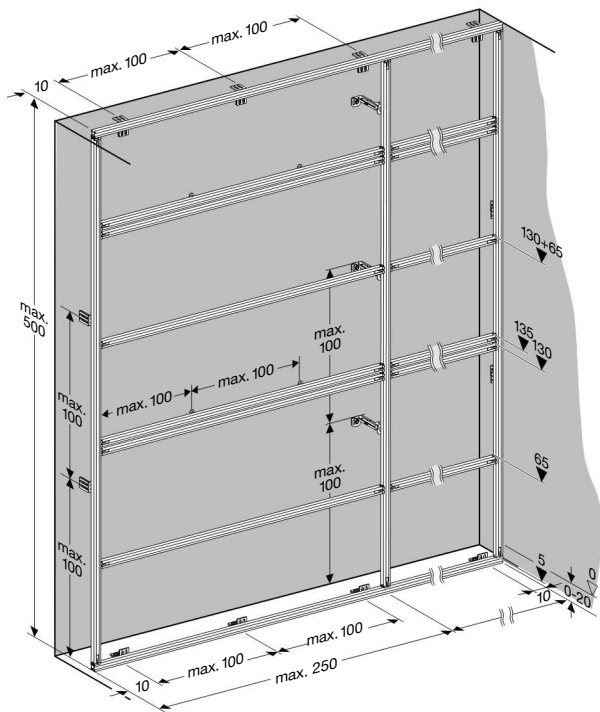
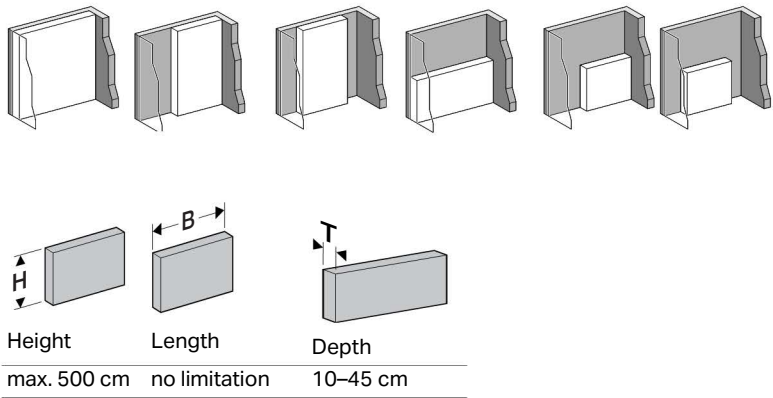


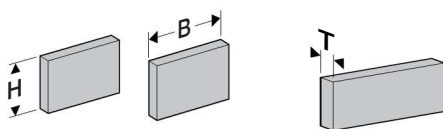
Figure 5:

Installation rules

Table 1:

Geberit GIS profile	Maximum distances of horizontal profile (upper edge of profile):	
	1st (lowest) profile	5 cm above the unfinished floor level
	2nd profile	65 cm above the unfinished floor level
	3rd profile	130 cm above the unfinished floor level
	4th profile	135 cm above the unfinished floor level
	All further profiles	65 cm apart
	Maximum distance of the vertical profiles or	250 cm
	Maximum distance of the wall fixations	250 cm
Geberit GIS mounting bracket	Cutting length of the profile	Clear inside dimensions minus 3 cm
	Maximum distance for mounting on or to solid ceilings or walls:	100 cm
	Maximum distance for mounting to drywall ^a	40 cm
	Maximum distance when connecting to the following profiles with profile connectors	100 cm
Geberit GIS wall fixation	Distance from the neighbouring wall	10 cm
	Maximum distance of the wall connections to the rear wall, vertical and horizontal profiles	250 cm
Geberit GIS connecting strap	Maximum distance of the connections of the cruciform joint	100 cm
Geberit GIS panel	Maximum fastening distance	18 cm (4 screws for each board width)
	Align the panels so that no cross joints occur	

a. The fastening distance also applies for gypsum plank walls (lightweight, non-load-bearing walls in accordance with DIN 4103-2 made of gypsum structural panels) that must be a minimum of 8 cm thick



Height	Length	Depth
max. 360 cm	no limitation	13–45 cm
max. 450 cm	max. 350 cm	13–45 cm

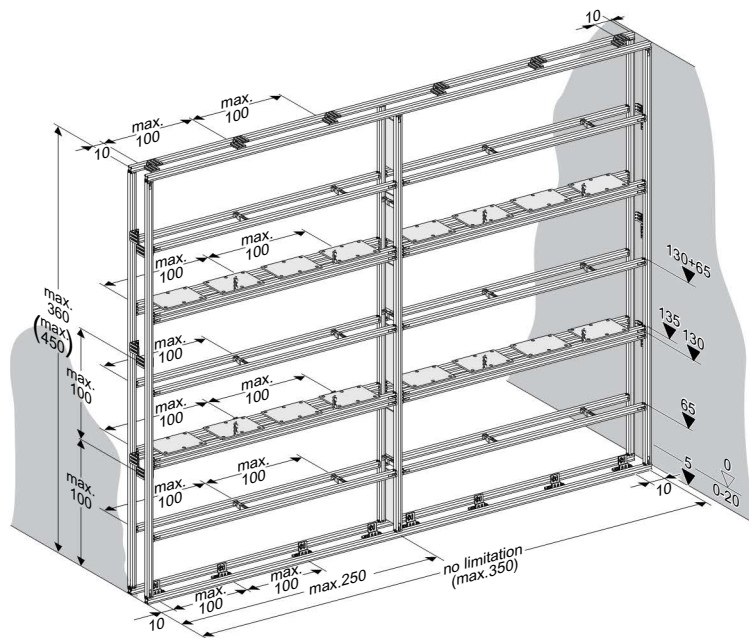
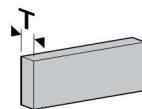
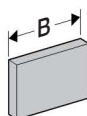


Figure 6:

Table 2:

Geberit GIS profile	Maximum distances of horizontal profiles (upper edge of profile):	
	1st (lowest) profile	5 cm above the unfinished floor level
	2nd profile	65 cm above the unfinished floor level
	3rd profile	130 cm above the unfinished floor level
	4th profile	135 cm above the unfinished floor level
	All further profiles	65 cm apart
	Maximum distance of the vertical profiles	250 cm (on both sides)
	Cutting length of the profile	Clear inside dimensions minus 3 cm
Geberit GIS mounting bracket	Maximum distance for mounting on or to solid ceilings or walls	100 cm
	Maximum distance for mounting to drywall ^a	40 cm
	Maximum distance when connecting to the following profiles with profile connectors	100 cm
	Distance from the neighbouring wall	10 cm
Geberit GIS connecting piece	Maximum distance with vertical and horizontal profiles	100 cm
Geberit GIS connecting strap	Maximum distance of the connection of the cruciform joint	100 cm
Geberit GIS panel	Maximum fastening distance	18 cm (4 screws for each board width)
	Bracing at cruciform joint (135/265 cm) with drywall strips across 2/3 of the wall length	
	Bracing of the vertical profiles with drywall strips across 2/3 of the room height, distance of the vertical profiles max. 250 cm	
	Align the panels so that no cross joints occur	

a. The fastening distance also applies for gypsum plank walls (lightweight, non-load-bearing walls in accordance with DIN 4103-2 made of gypsum structural panels) that must be a minimum of 8 cm thick



Depth

20-45 cm

13-45 cm

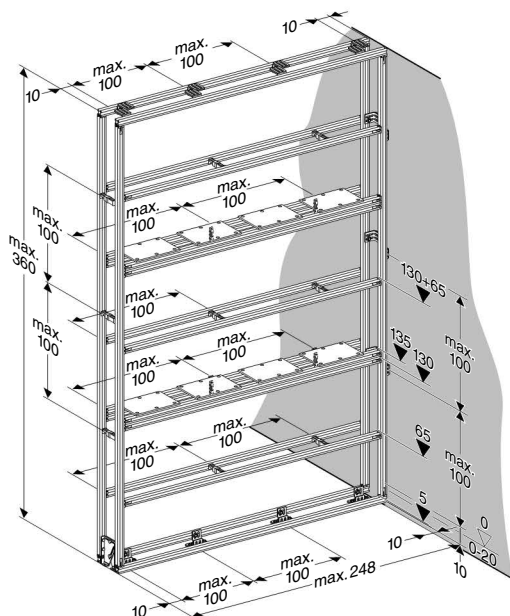


Figure 7:

Installation rules

Table 3:

Geberit GIS profile	Maximum distances of horizontal profiles (upper edge of profile)	
	1st (lowest) profile	5 cm above the unfinished floor level
	2nd profile	65 cm above the unfinished floor level
	3rd profile	130 cm above the unfinished floor level
	4th profile	135 cm above the unfinished floor level
	All further profiles	65 cm apart
	Maximum distance of the vertical profiles (on both sides)	248 cm
	Cutting length of the profile	Clear inside dimensions minus 3 cm
Geberit GIS mounting bracket	Maximum distance for mounting on or to solid ceilings or walls	100 cm
	Maximum distance for mounting to drywall ^a	40 cm
	Maximum distance when connecting to the following profiles with profile connectors	100 cm
	Distance from the neighbouring wall	10 cm
Geberit GIS connecting piece	Maximum distance with vertical and horizontal profiles	100 cm
Geberit GIS connecting strap	Maximum distance of the connection of the cruciform joint	100 cm
With Geberit GIS installation kit for free-standing system walls	Use additional 1 x for installation of Geberit GIS installation elements for wall-hung WC, shower toilet, bidet and washbasin	
Geberit GIS panel	Maximum fastening distance	18 cm (4 screws for each board width)
	Bracing at cruciform joint (135/265 cm) with drywall strips across 2/3 of the wall length	
	Align the panels so that no cross joints occur	

a. The fastening distance also applies for gypsum plank walls (lightweight, non-load-bearing walls in accordance with DIN 4103-2 made of gypsum structural panels) that must be a minimum of 8 cm thick

Rules for fastening

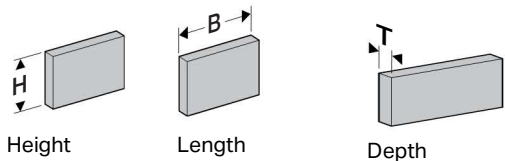
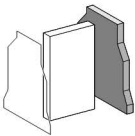
For a Geberit GIS wall with integrated Geberit GIS installation elements for wall-hung WC, Geberit AquaClean, bidet or washbasin, the following fastening rules must be observed:

- Mounting on unfinished floor
- Fasten free-standing side to the unfinished floor with Geberit GIS installation kit for free-standing system walls
- Fastening of the installation kits and the mounting brackets to the unfinished floor with heavy-duty dowels
- Fastening of the Geberit GIS mounting brackets to the wall with the "normal" dowels included in the delivery

The following fastening rules must be observed in the case of a Geberit GIS wall without Geberit GIS installation elements:

- Mounting on unfinished or finished floor, without using the Geberit GIS installation kits for free-standing system wall
- Fastening the Geberit GIS mounting bracket with the "normal" dowels included in the delivery

1.1.5 Geberit GIS room separator, room-height, without side fastening, without wall connection



	Height	Length	Depth
With Geberit GIS installation kit for free-standing system walls, for installation of Geberit GIS installation elements	max. 360 cm	max. 250 cm	20–44 cm
Without Geberit GIS installation kit for free-standing system walls, without installation of Geberit GIS installation elements	max. 360 cm	max. 250 cm	13–45 cm

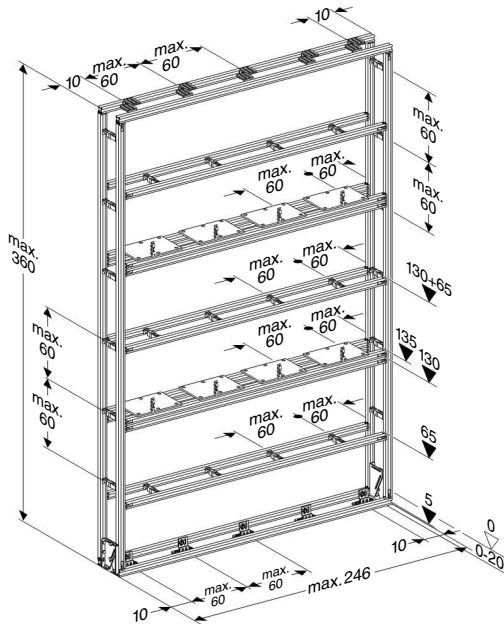


Figure 8:

Installation rules

Table 4:

Geberit GIS profile	Maximum distances of horizontal profiles (upper edge of profile):	
	1st (lowest) profile	5 cm above the unfinished floor level
	2nd profile	65 cm above the unfinished floor level
	3rd profile	130 cm above the unfinished floor level
	4th profile	135 cm above the unfinished floor level
	All further profiles	65 cm apart
	Maximum distance of the vertical profiles (on both sides)	246 cm
Geberit GIS mounting bracket	Cutting length of the profile	Clear inside dimensions minus 3 cm
	Maximum distance for mounting on or to solid ceilings	60 cm
	Maximum distance when connecting to the following profiles with profile connectors	60 cm
	Distance from the neighbouring wall	10 cm
Geberit GIS connecting piece	Maximum distance with vertical and horizontal profiles	60 cm
Geberit GIS connecting strap	Maximum distance of the connection of the cruciform joint	60 cm
With Geberit GIS installation kit for free-standing system walls	Use additional 2 x for installation of Geberit GIS installation elements for wall-hung WC, shower toilet, bidet and washbasin	
Geberit GIS panel	Maximum fastening distance	18 cm (4 screws for each board width)
	Bracing at cruciform joint (135/265 cm) with drywall strips across 2/3 of the wall length	
	Align the panels so that no cross joints occur	

Rules for fastening

For a Geberit GIS wall with integrated Geberit GIS installation elements for wall-hung WC, Geberit AquaClean, bidet or washbasin, the following fastening rules must be observed:

- Mounting on unfinished floor
- The Geberit GIS installation kits for free-standing system wall are fastened to both free sides of the wall to the unfinished floor
- Fastening of the installation kits and the mounting brackets to the unfinished floor with heavy-duty dowels

The following fastening rules must be observed in the case of a Geberit GIS wall without Geberit GIS installation elements:

- Mounting on unfinished or finished floor, without using the Geberit GIS installation kit

for free-standing system walls

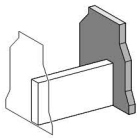
- Fastening the mounting bracket with the "normal" dowels included in the delivery

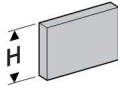
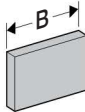
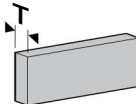
Bracing

Installation kits for free-standing installation walls must be fitted to the unfinished floor on the free-standing sides.

On the upper profile of the cruciform joint (135 cm, possibly 265 cm), drywall strips are at evenly spaced intervals across approx. 2/3 of the total wall length.

1.1.6 Geberit GIS room separator, part-height, with fastening on two sides



		
Height	Length	Depth
max. 360 cm	max. 250 cm	13–45 cm

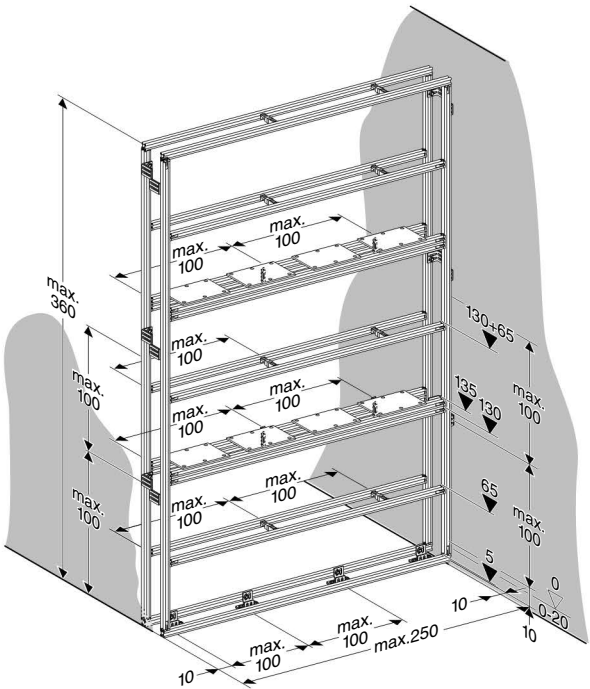


Figure 9:

Table 5:

Geberit GIS profile	Maximum distances of horizontal profiles (upper edge of profile)	
	1st (lowest) profile	5 cm above the unfinished floor level
	2nd profile	65 cm above the unfinished floor level
	3rd profile	130 cm above the unfinished floor level
	4th profile	135 cm above the unfinished floor level
	All further profiles	65 cm apart
	Maximum distance of the vertical profiles (on both sides)	250 cm
	Cutting length of the profile	Clear inside dimensions minus 2.5 cm
Geberit GIS mounting bracket	Maximum distance for mounting on or to solid ceilings	100 cm
	Maximum distance for mounting to drywall ^a	40 cm
	Maximum distance when connecting to the following profiles with profile connectors	100 cm
	Distance from the neighbouring wall	10 cm
Geberit GIS connecting piece	Maximum distance with vertical and horizontal profiles	100 cm
Geberit GIS connecting strap	Maximum distance of the connection of the cruciform joint	100 cm
Geberit GIS panel	Maximum fastening distance	18 cm (4 screws for each board width)
	Bracing at cruciform joint (135/265 cm) with drywall strips across 2/3 of the wall length	
	Align the panels so that no cross joints occur	

a. The fastening distance also applies for gypsum plank walls (lightweight, non-load-bearing walls in accordance with DIN 4103-2 made of gypsum structural panels) that must be a minimum of 8 cm thick

Rules for fastening

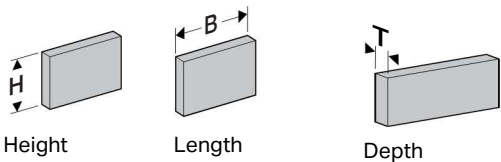
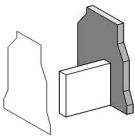
The Geberit GIS mounting brackets are fastened to the floor and to the walls with the "normal" dowels included in the delivery.

For a Geberit GIS wall with integrated Geberit GIS installation elements for wall-hung WC, Geberit AquaClean, bidet or washbasin, mounting must be done on the unfinished floor.

Bracing

On the upper profile of the cruciform joint (135 cm, possibly 265 cm), drywall strips are placed at evenly spaced intervals across approx. 2/3 of the total wall length.

1.1.7 Geberit GIS room separator, part-height, with fastening on one side



	Height	Length	Depth
With Geberit GIS installation kit for free-standing system walls, for installation of Geberit GIS installation elements	max. 150 cm	max. 250 cm	20–44 cm
Without Geberit GIS installation kit for free-standing system walls, without installation of Geberit GIS installation elements	max. 200 cm	max. 100 cm	13–45 cm

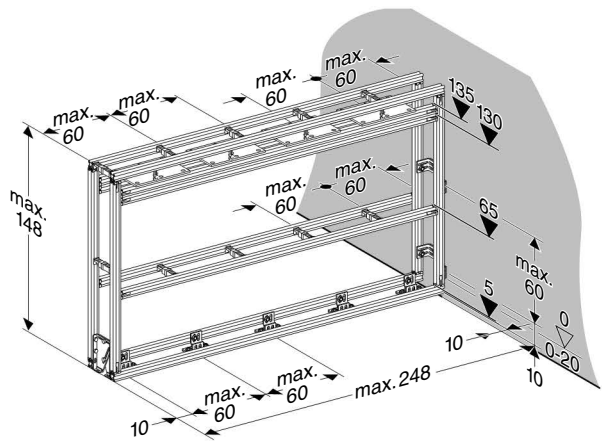


Figure 10:

Table 6:

Geberit GIS profile	Maximum distances of horizontal profiles (upper edge of profile)	
	1st (lowest) profile	5 cm above the unfinished floor level
	2nd profile	65 cm above the unfinished floor level
	3rd profile	130 cm above the unfinished floor level
	4th profile	135 cm above the unfinished floor level
	5th profile	max. 148 cm above the unfinished floor level
	Maximum distance of the vertical profiles (on both sides)	248 cm
Geberit GIS mounting bracket	Cutting length of the profile	Clear inside dimensions minus 2.5 cm
	Maximum distance for mounting on or to solid ceilings or walls	60 cm
	Maximum distance for mounting to drywall ^a	40 cm
	Maximum distance when connecting to the following profiles with profile connectors	60 cm
Geberit GIS connecting piece	Distance from the neighbouring wall	10 cm
	Maximum distance with vertical and horizontal profiles	60 cm
Geberit GIS connecting strap	Maximum distance of the connection of the cruciform joint	60 cm
With Geberit GIS installation kit for free-standing system walls	Use an additional 1 x	
Geberit GIS panel	Maximum fastening distance	18 cm (4 screws for each board width)
	Bracing at cruciform joint (135/265 cm) with drywall strips across 2/3 of the wall length	
	Align the panels so that no cross joints occur	

a. The fastening distance also applies for gypsum plank walls (lightweight, non-load-bearing walls in accordance with DIN 4103-2 made of gypsum structural panels) that must be a minimum of 8 cm thick

After the panelling is finished, the floor joints between profiles and panels are filled with two-component polyurethane foam.

The two-component polyurethane foam must meet the following requirements:

- Compressive stress at 10 % compression (DIN 53241) approx. 10 N/cm²
- Adhesion to unfinished floor and panel
- Neutral behaviour towards metals
- It should be possible to lay the finished floor directly after foaming, this means that curing should also be possible in airtight spaces

Rules for fastening

For a Geberit GIS wall with integrated Geberit GIS installation elements for wall-hung WC, Geberit AquaClean, bidet or washbasin, the following installation rules must be observed:

- Mounting on unfinished floors and using the Geberit GIS installation kits for free-standing system wall
- Fasten free-standing end to the unfinished floor with Geberit GIS installation kit for free-standing system wall
- Fastening of the mounting bracket and the Geberit GIS installation kit for free-standing system wall to the unfinished floor with heavy-duty dowels
- Fastening the mounting bracket to the wall with the "normal" dowels included in the delivery

The following installation rules must be observed in the case of a Geberit GIS wall without Geberit GIS installation elements:

- Mounting on unfinished or finished floor, without using the Geberit GIS installation kits for free-standing system wall
- Fastening the mounting bracket with the "normal" dowels included in the delivery

Bracing

On the upper profile of the cruciform joint (135 cm), drywall strips are placed at evenly spaced intervals across approx. 2/3 of the total wall length.

1.1.8 Geberit GIS island, part-height, without side fastening

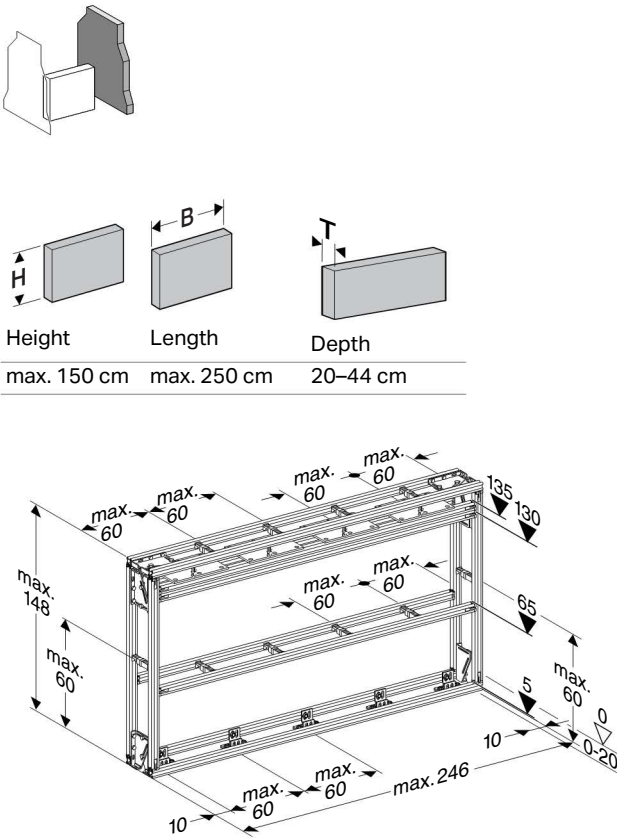


Figure 11:

Table 7:

Geberit GIS profile	Maximum distances of horizontal profiles (upper edge of profile)	
	1st (lowest) profile	5 cm above the unfinished floor level
	2nd profile	65 cm above the unfinished floor level
	3rd profile	130 cm above the unfinished floor level
	4th profile	135 cm above the unfinished floor level
	5th profile	max. 148 cm above the unfinished floor level
	Maximum distance of the vertical profiles (on both sides)	246 cm
	Cutting length of the profile	Clear inside dimensions minus 2.5 cm

Installation rules

Geberit GIS mounting bracket	Maximum distance for mounting on solid construction floors	60 cm
	Maximum distance for connections of the connecting profiles with profile connectors	60 cm
	Distance from the neighbouring wall	10 cm
Geberit GIS connecting piece	Maximum distance with vertical and horizontal profiles	60 cm
Geberit GIS connecting strap	Maximum distance of the connection of the cruciform joint	60 cm
With Geberit GIS installation kit for free-standing system walls	Use an additional 6 x	
Geberit panel	Maximum fastening distance	18 cm (4 screws for each board width)
	Bracing at cruciform joint (135/265 cm) with drywall strips across 2/3 of the wall length	
	Align the panels so that no cross joints occur	

After the panelling is finished, the floor joints between profiles and panels are filled with two-component polyurethane foam.

The two-component polyurethane foam must meet the following requirements:

- Compressive stress at 10 % compression (DIN 53241) approx. 10 N/cm²
- Adhesion to unfinished floor and paneling
- Neutral behaviour towards metals
- The finished floor should be able to be laid directly after the foaming, this means that, the curing should also be possible in airtight spaces

Rules for fastening

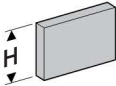
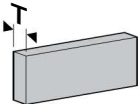
The following fastening rules must be observed in the case of a Geberit GIS wall with or without integrated Geberit GIS installation elements:

- Mounting on unfinished floor
- Geberit GIS installation kit for free-standing system walls mounted at all corners
- Fastening of the installation kits and mounting brackets with heavy-duty dowels
- Additional foam cushioning of the panelled construction with suitable two-component polyurethane foam

Bracing

On the upper profile of the cruciform joint (135 cm), drywall strips are placed at evenly spaced intervals across approx. 2/3 of the total wall length.

1.1.9 Door openings

	
Height	Depth
max. 260 cm	13–45 cm

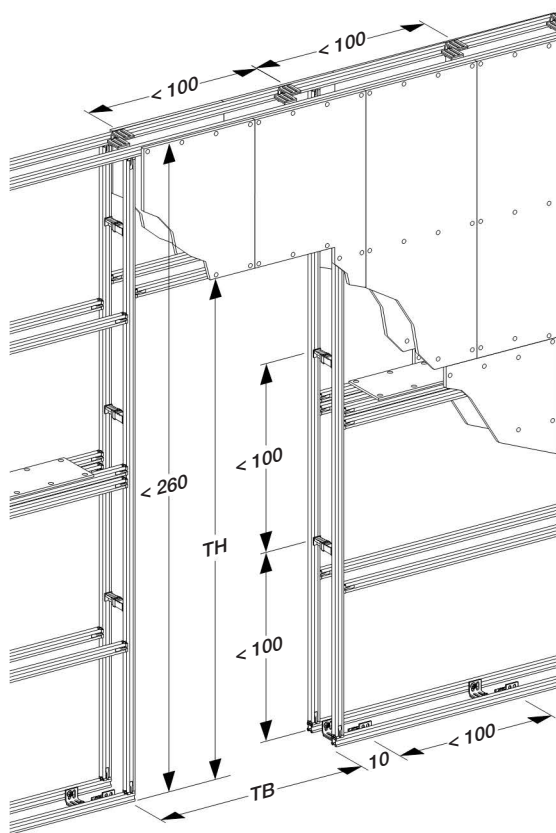


Figure 12:

TH Door height 188.5–205.0 cm from the upper edge of the finished floor level

TB Door width 63.5 cm, 76 cm, 88.5–115 cm

Installation rules

Table 8:

Geberit GIS profile	Maximum distances of horizontal profiles (upper edge of profile)	
	1st (lowest) profile	5 cm above the unfinished floor level
	2nd profile	65 cm above the unfinished floor level
	3rd profile	130 cm above the unfinished floor level
	4th profile	135 cm above the unfinished floor level
	All further profiles	65 cm apart
	Maximum distance of the vertical profiles (on both sides)	250 cm
	Cutting length of the profile	Clear inside dimensions minus 2.5 cm
Geberit GIS mounting bracket	Maximum distance for mounting on solid construction floors	100 cm
	Maximum distance for mounting to drywall	40 cm
	Maximum distance when connecting to the following profiles with profile connectors	100 cm
	Distance from the neighbouring wall	10 cm
Geberit GIS connecting piece	Maximum distance with vertical and horizontal profiles	100 cm
Geberit GIS connecting strap	Maximum distance of the connection of the cruciform joint	100 cm
With Geberit GIS installation kit for free-standing system walls	Use an additional 2 x with installation of Geberit GIS installation elements	
Geberit GIS panel	Maximum fastening distance	18 cm (4 screws for each board width)
	Bracing at cruciform joint (135/265 cm) with drywall strips across 2/3 of the wall length	
	Align the panels so that no cross joints occur	

Construction of a door opening

Room-height vertical Geberit GIS profiles are used as door posts, the connected floor/ceiling rails must be fastened at every joint in the immediate vicinity with a Geberit GIS mounting bracket.

In the case of Geberit GIS walls with Geberit GIS installation elements, the door posts are fastened to the connecting floor profiles with the installation kit for free-standing installation walls.

The lintel is formed by a single horizontal profile. One horizontal profile each is installed in the centre between lintel and ceiling profile. They are connected with one another with a Geberit GIS connecting piece.

Opposite door posts and lintel profiles are connected with Geberit GIS connecting pieces at distances of a maximum of 100 cm. One Geberit GIS connecting piece is mounted at the joints between lintel and door post/floor profile.

When more than one door is being installed, a minimum distance of 100 cm must be maintained between the doors.

i If foam is to be applied, e.g. with solid-core doors or steel frames, then pieces of wood must be properly connected with the Geberit GIS structure in order to give the necessary hold to the foam.

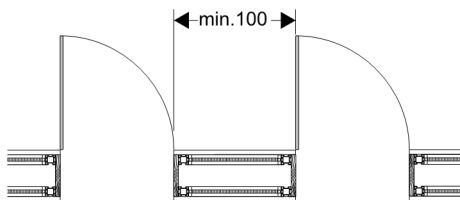


Figure 13:

If a floor construction is planned to be greater than 10 cm and if no separation joints are necessary in the area of the door, then the floor profiles can run through without a break in the door area.

The panel joints are not placed on the door posts, but always offset above the door opening.

All frames are anchored in the Geberit GIS profile with self-tapping Geberit panel screws.

Panel door

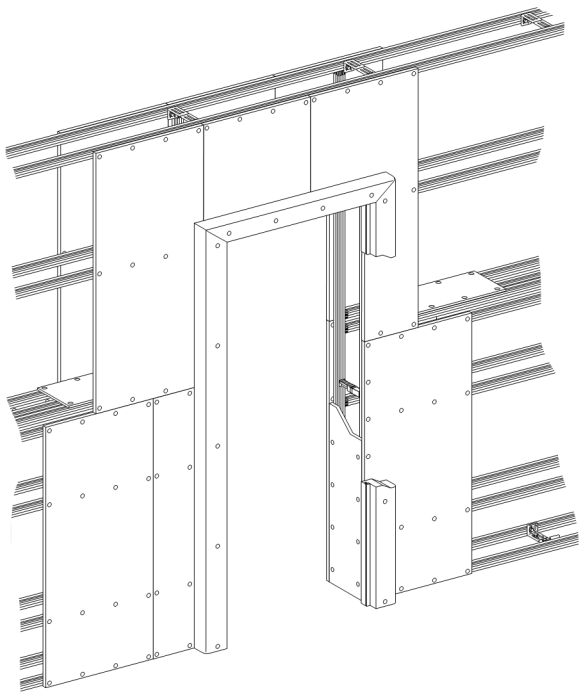


Figure 14:



Figure 15:

Solid-core door

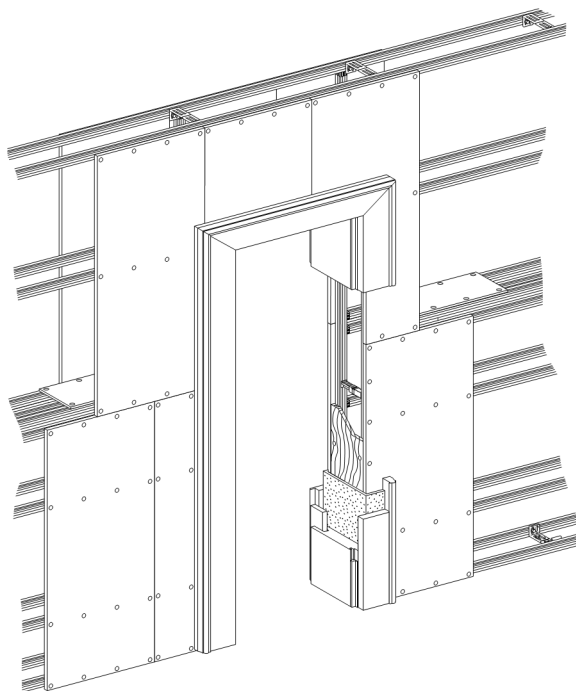


Figure 16:

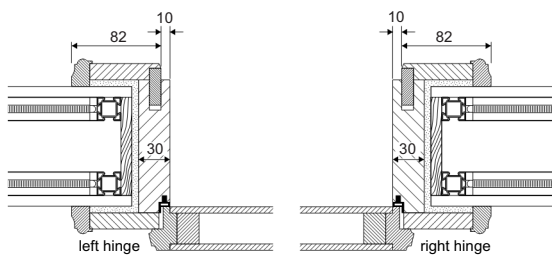


Figure 17:

Aluminium door

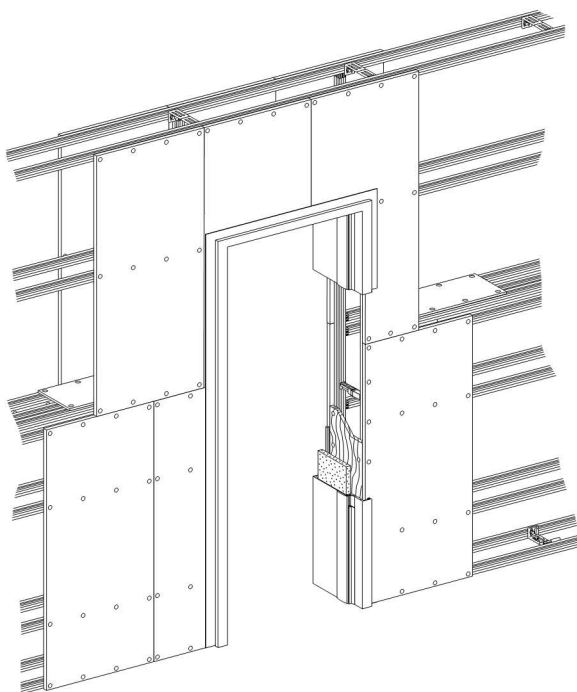


Figure 18:

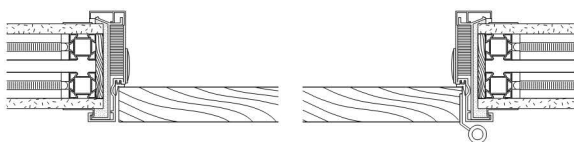


Figure 19:

Steel frame

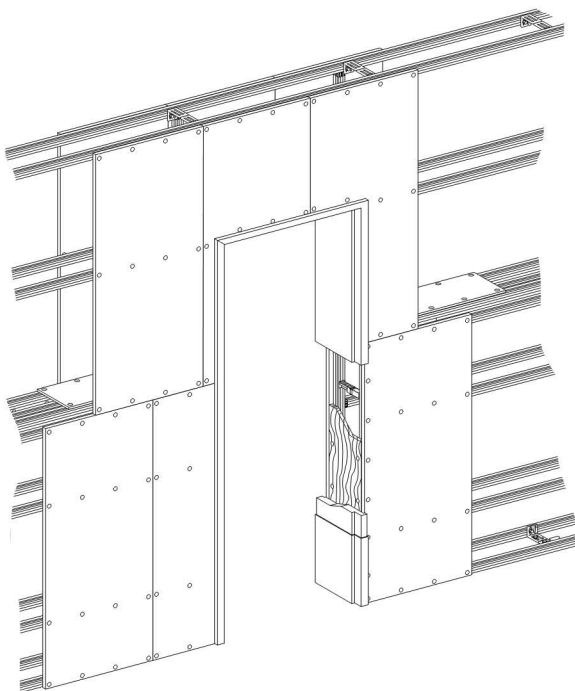


Figure 20:

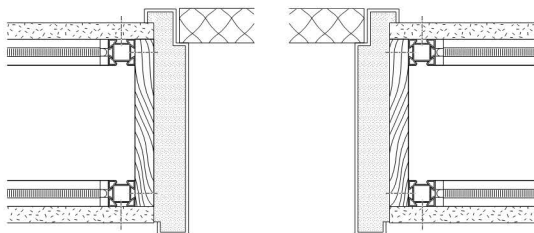


Figure 21:

1.1.10 Prefabrication

Geberit GIS prefabrication refers to the manufacture of prefabricated support systems all the way to support systems with piping completely pre-installed. This is carried out by the plumber in a suitable room at the construction site or in the workshop. The Geberit installation walls are to be brought in by the plumber, due to their short building time as prefabricated units. The basic installation rules for Geberit GIS also apply for the installation of prefabricated units.

The Geberit GIS walls often need to be divided up into two or more blocks for transport and for bringing them into the building. Horizontal and vertical cuts may be necessary for the prefabrication of Geberit GIS walls.

The prefabricated Geberit GIS support systems can be stiffened for transport using Geberit GIS transportation locks.

Connecting prefabricated Geberit GIS units

The prefabricated Geberit GIS units are connected with Geberit GIS profile guides at horizontal cuts.

It is recommended to implement the horizontal separation every 130 cm on the cruciform joint. Thus no additional material is required.

Prefabricated Geberit GIS prewalls with horizontal cuts must be connected as follows:

- Part-height prewalls: with Geberit GIS profile connectors
- Room-height prewalls: every 130 cm with Geberit GIS profile guides on the cruciform joint

In the case of a room-height Geberit GIS wall with fastening on three sides, the profile must be additionally fastened to the wall with a Geberit GIS mounting bracket 10 cm below the horizontal cuts.

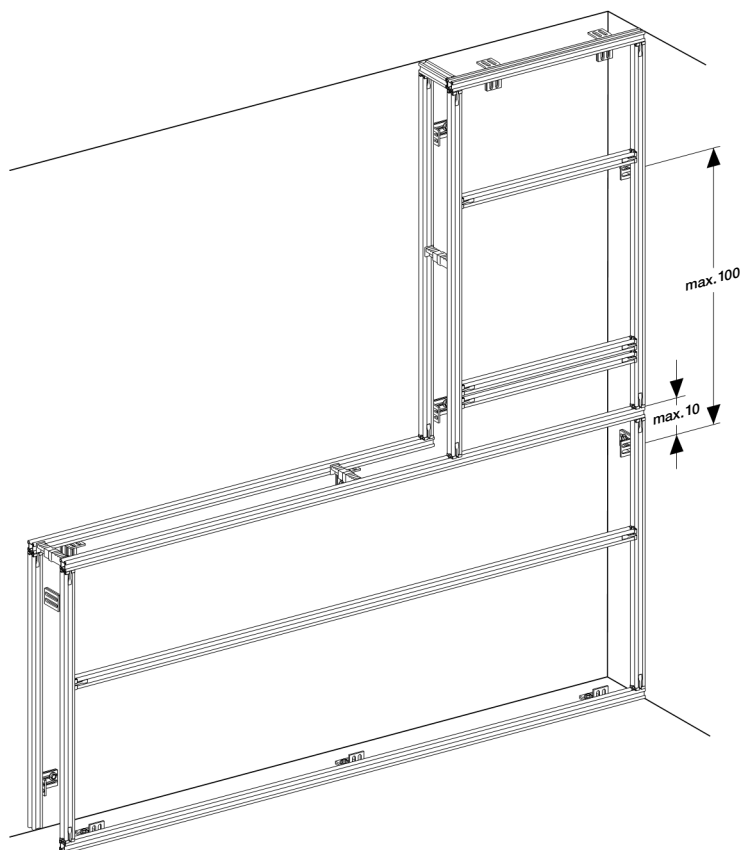


Figure 22:

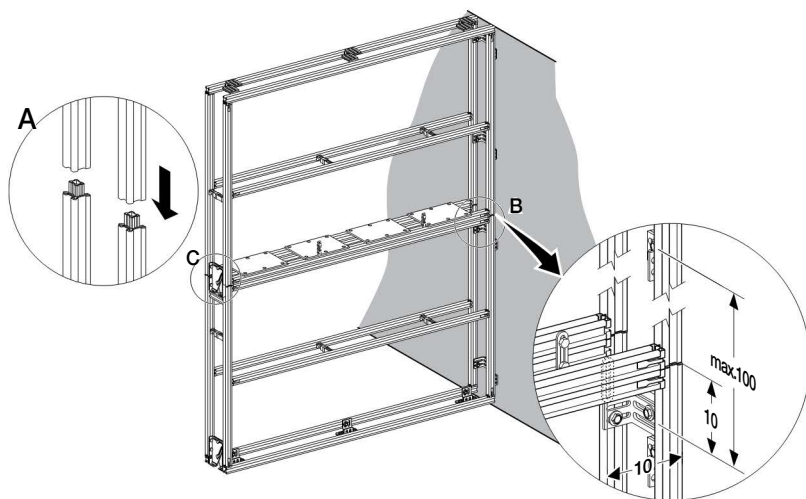


Figure 23:

At the vertical cuts, the prefabricated Geberit GIS units are connected with Geberit GIS profile guides (detail A), Geberit GIS connecting straps (detail B) and the Geberit GIS installation kit for free-standing system walls (detail C).

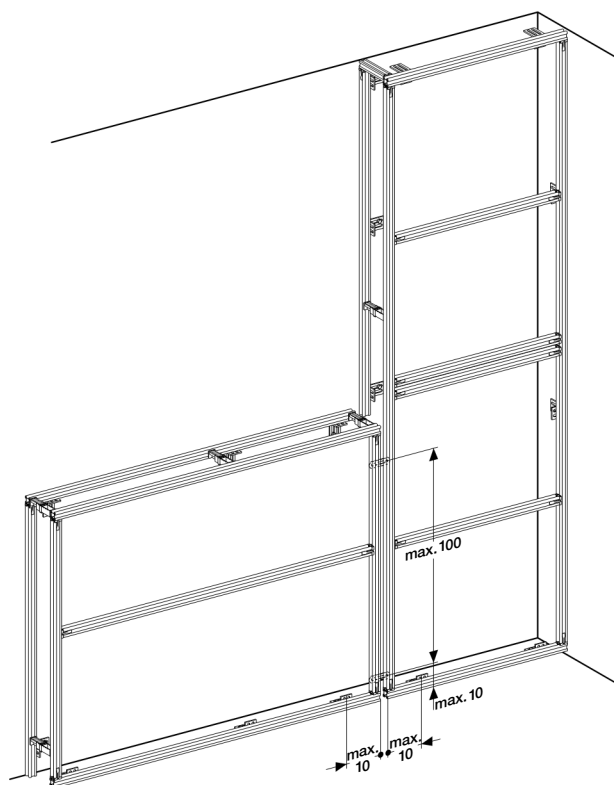


Figure 24:

Bracing

On the free-standing sides, an additional Geberit GIS installation kit for free-standing system walls must be fitted at a height of 130 cm above the upper edge of the unfinished floor (see detail A). The installation kit is connected with the cross-profile of the lower part of the wall using ratchet pins.

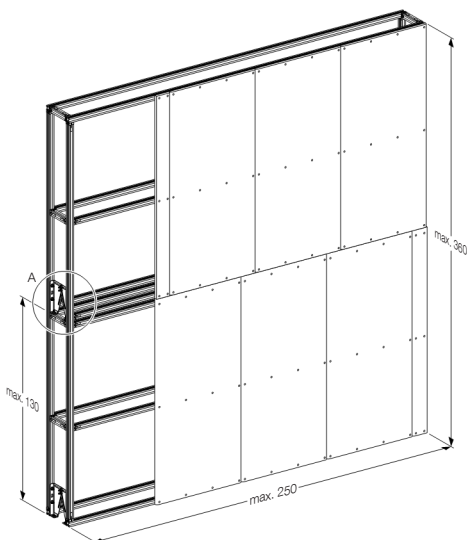


Figure 25:

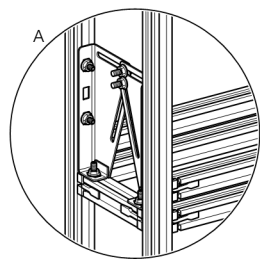


Figure 26:

On the upper profile of the cruciform joint (130 cm, possibly 260 cm), drywall strips are placed at evenly spaced intervals across approx. 2/3 of the total wall length.

1.1.11 Piping installation

Drinking and waste water pipes

In the case of a Geberit GIS prewall, the riser and the stack are fastened to the rear wall.

In the case of a Geberit GIS wall, the riser and the stack are fastened to the structure with Geberit GIS pipe brackets.

The protective plugs with punching tip included in the delivery can be used with up to 15 bar water pressure. They are not suitable for doing a pressure test with air.

The thermal insulation must be provided on-site in accordance with applicable national regulations. Anti-condensation insulation for roof drainage water can be done by using Geberit Isol sound insulation mats..

Additional systems

If additional systems are installed, e.g. for gas, heating, ventilation and electricity, then the generally accepted rules of construction technology and the technical building codes introduced (e.g. standards, regulations) are to be observed.

1.1.12 Panelling

Geberit panels can be painted, wallpapered and tiled.

The Geberit GIS panels are used in areas without water exposure and with low water exposure (exposure classes 0 and A01) in residential construction or other units designed for comparable use (e.g. hotel rooms, etc.).

For areas exposed to high amounts of moisture (exposure class A1) in public buildings, e.g. saunas, indoor pools, cement bonded Geberit aqua panel Plus must be used.

Within the sequence of trades (tiler), the prescribed measures for the necessary seal must be taken into account.

Basic Rules for the Panelling

The following distances must be observed for the panelling:

- Distance between building structure and panel: approx. 1 cm
- Distance between the panels: max. 0.3 cm

Cross-joints are not permitted.

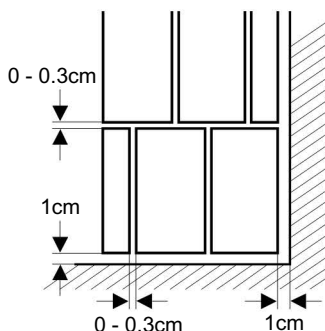


Figure 27:

All horizontal panel joints, including prewall claddings, must be carried out with chamfered plates.

In the case of vertical panel joints, only the cut panels need to be chamfered.

V-joints enable simple processing of the filler, because the filler cannot escape towards the rear. They also guarantee a force-closed connection of the individual panels.

Chamfer all cut edges of the panels to an angle of 45° for 2/3 of the panel thickness.

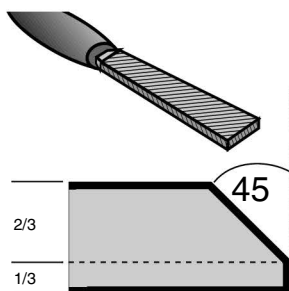


Figure 28: Chamfering the cut edges

The individual drilling holes can be marked afterwards by knocking on the panels at the pressure test plugs.

The panels are mounted in accordance with the following rules:

- Always fasten the panels in upright position
- Use Geberit panel screws to screw on the horizontal profiles
- 4–5 panel screws per panel width

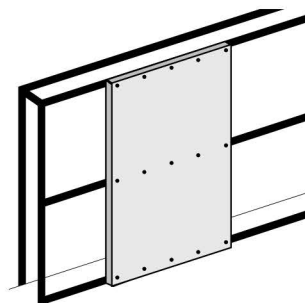


Figure 29:

All plate joints and transitions from Geberit GIS constructions to the building structure are filled in with Geberit filler. The processing temperature of the filler must be at least 8 °C.

Protruding filler material is removed after 40 to 50 minutes.

Joint technique and filler quality

The joint technique and/or filler quality on the panelling depends on surface treatment and subsequent coating. As a general rule, all joints must be filled with Geberit filler. As a rule the plumber creates the Geberit GIS wall up to the tile-ready surface that corresponds to quality level Q1 in accordance with Information Sheet No. 2 of the Gypsum Board Industry Group (→ www.gipsindustrie.de).

Table 9:

Coating	Surface	Joint technique
Finished plaster or painting	Sharp-edged cuts/chamfered edges (white plaster visible)	Execute joints with groove cover strip
Finished plaster or painting	Cardboard-coated edges	Execute joints with groove cover strip
Ceramic tiles		Fill joints with Geberit filler



As a general rule, the subsequent trade (tiler or painter) is under obligation to check the underground to see whether it complies with the requirements of his work. Coordination between plumber/tiler and/or painter is to be recommended.

Further processing of the panels (gypsum board)

The following rules must be observed for further handling of the panels:

- A coat of primer must be applied in any case, e.g. Knauf deep penetrating primer. The cut edges and pipe feed-throughs are also treated at the same time.
- All automatic tap and drainage feed-throughs must be sealed with sealing washers or permanently elastic mastic. Depending on the manufacturer's specifications, deep penetrating primer or primer must be used for processing of the permanently elastic mastic.
- The joints of the pipe feed-throughs in the damp area must be filled with water-resistant permanently elastic sealing putty, e.g. Knauf silicone plumbers putty. Because of the danger of stress corrosion cracking, no plumbers putty may be used that releases ammonia.
- In the damp area (shower or bathtub), the panel surfaces must be additionally sealed with a permanently elastic rubber-bitumen emulsion, e.g. Knauf Flächendicht or corresponding adhesive sealant.
- The adhesives of wall coverings must be suitable for the respective underground treatment.
- Corner joints in the tile area must be given permanently elastic backfilling.

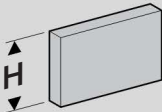
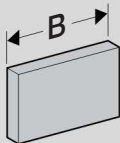
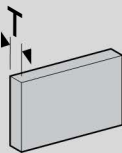
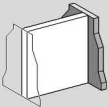
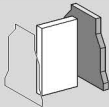
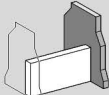
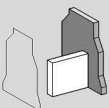
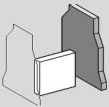
Panelling in stages

If the floor construction takes place before the Geberit GIS panelling, then a partial panelling must be carried out in the floor area. An additional, horizontal Geberit GIS profile is installed above the floor area for fastening the remaining panelling.

1.2 Installation dimensions

1.2.1 Maximum wall dimensions

Table 10: Maximum dimensions of Geberit GIS prewalls and walls

				
		Height	Length	Depth
	Prewall, part-height/room-height	500 cm	No limitation	45 cm
	Partition wall, room-height	360 cm	No limitation	45 cm
	Fastening to all sides on the floor, walls and ceiling	450 cm	350 cm	45 cm
	Room separator, room-height	360 cm	250 cm	45 cm
	One-sided fastening to the unfinished floor, wall and ceiling			
	Room separator, room-height	360 cm	250 cm	45 cm
	Fastening to unfinished floor and ceiling, without side fastening			
	Room separator, part-height	360 cm	250 cm	45 cm
	Two-sided fastening to the floor and walls			
	Room separator, part-height	150 cm	250 cm	44 cm
	One-sided fastening to unfinished floor and wall	200 cm ^a	100 cm ^a	45 cm ^a
	Room separator, part-height (island)	150 cm	250 cm	44 cm
	Fastening to unfinished floor, without side fastening			

a. For shower partition walls without heavy loads

The height refers to the maximum possible construction height, inclusive floor construction. All dimensions refer to Geberit GIS walls with mounting elements (e.g. for WC, bidet, washbasin) and Geberit GIS panelling. All Geberit GIS walls can be mounted to or in front of drywall or solid construction walls (see planning requirements).

1.2.2 Wall depths and wall heights without reference to installation

Geberit GIS prewall, part-height

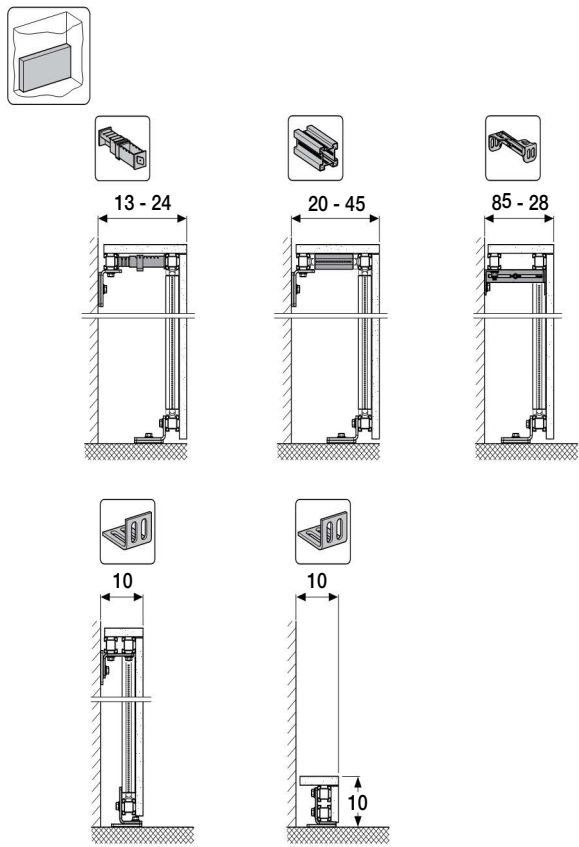


Figure 30:

Table 11:

		min.	max.
Prewall depth without tiles	With Geberit GIS connecting piece (adjustable in 0.5 cm increments)	12 cm (18 cm without shortening)	23 cm
	With Geberit GIS profile	20 cm	45 cm
	With Geberit GIS mounting bracket	10 cm	
	With Geberit GIS wall fixation	8.5 cm (15.5 cm without shortening)	28 cm
Prewall height without tiles		21 cm (10 cm only with mounting bracket)	500 cm

Geberit GIS prewall, room-height

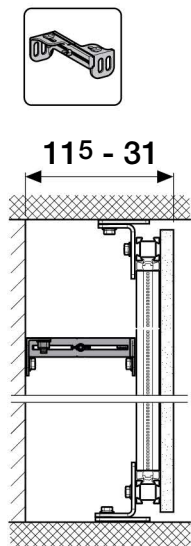


Figure 31:

Table 12:

		min.	max.
Prewall depth without tiles	With Geberit GIS mounting bracket	10 cm	45 cm
Prewall height		21 cm (10 cm only with mounting bracket)	500 cm

Geberit GIS wall, room-height/part-height

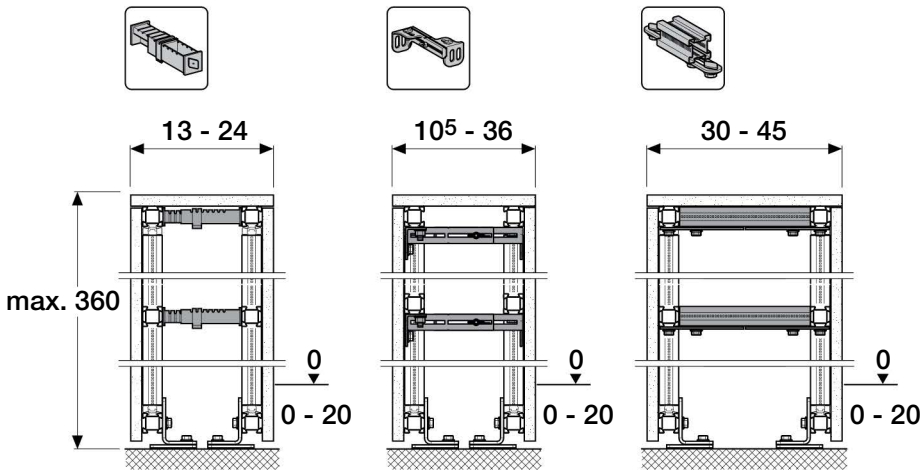


Figure 32:

Table 13:

		min.	max.
Wall depth, room-height	With Geberit GIS mounting bracket	13 cm	45 cm
Wall depth, part-height	With Geberit GIS profile	21 cm	45 cm
	With Geberit GIS connecting piece	13 cm	24 cm
Wall height, room-height	For wall length > 350 cm	21 cm	360 cm
	For wall length < 350 cm	21 cm	450 cm
Wall height, part-height		21 cm	360 cm

Geberit GIS wall, free-standing, "island"

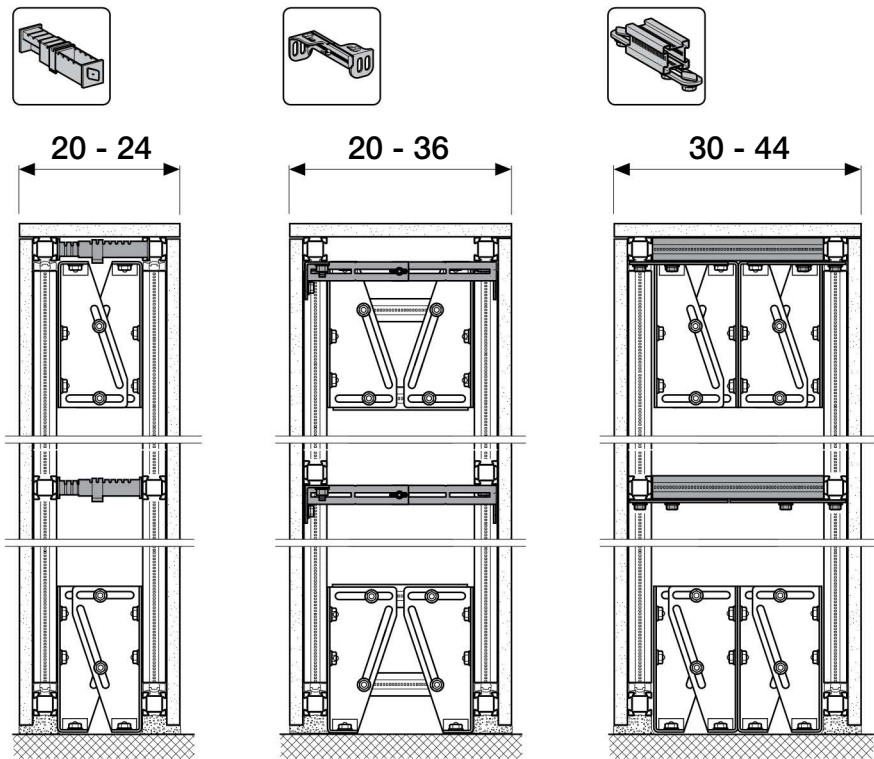


Figure 33:

Table 14:

		min.	max.
Wall depth	With Geberit GIS installation kit for free-standing system walls	20 cm	44 cm
Wall height		25 cm	150 cm

1.2.3 Wall depths with reference to discharge pipes

The wall depths are dependent on the drainage dimensions of the branch discharge pipe/stack.
The dimensions are without reference to the pipe position.

Prewall construction

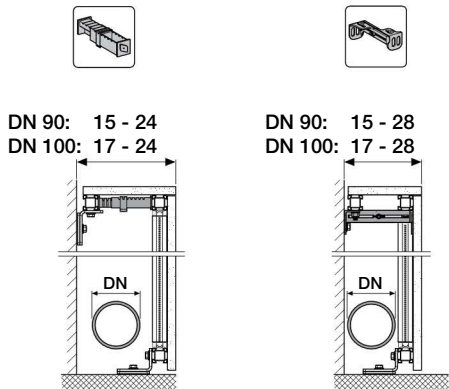


Figure 34:

Table 15:

	DN 90	DN 100
Minimum prewall depth T	15 cm	17 cm
Maximum prewall depth T	45 cm	45 cm

Room-height wall

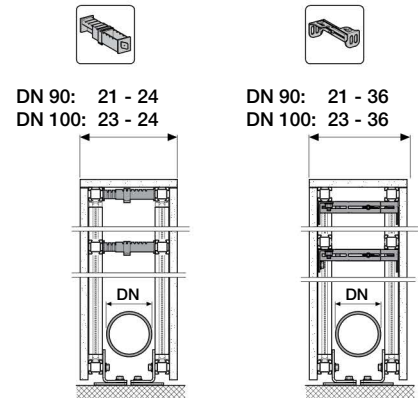


Figure 35:

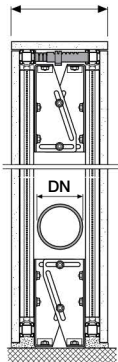
Table 16:

	DN 90	DN 100
Minimum prewall depth T	21 cm	23 cm
Maximum prewall depth T	45 cm	45 cm

Free-standing wall, "island"



DN 90: 21 - 24
DN 100: 23 - 24



DN 90: 21 - 36
DN 100: 23 - 36

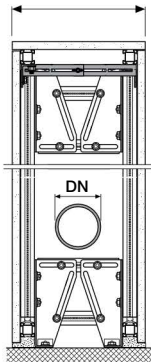


Figure 36:

Table 17:

	DN 90	DN 100
Minimum prewall depth T	21 cm	23 cm
Maximum prewall depth T	44 cm	44 cm

1.2.4 Wall height and wall depth with installation of a door opening

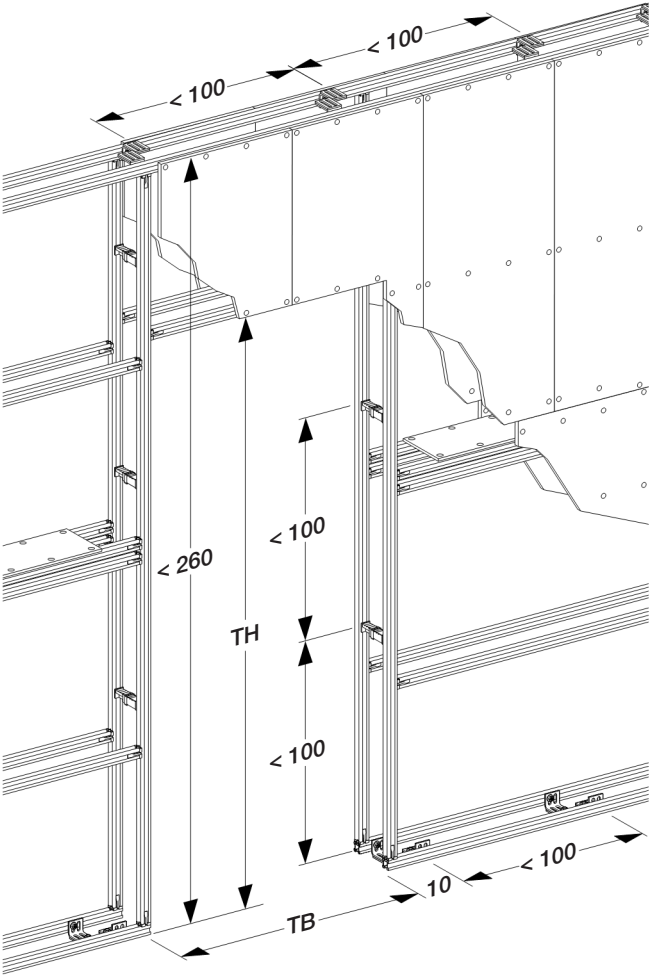


Figure 37:

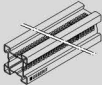
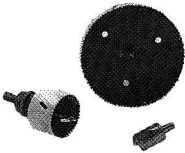
Table 18:

Wall height	max. 260 cm
Wall depth	13–45 cm
Room-height	max. 260 cm
Door width B (unfinished opening measurement)	63.5 cm, 76 cm, 88.5–115 cm
Door height H (from upper edge of finished floor)	188.5–205.0 cm

1.3 Installation tools

No special requirements exist with respect to the tools necessary for the installation of Geberit GIS. We would like to give you some tool tips here for effective installation. The tools listed are not distributed by Geberit, but rather can be obtained through specialist trade outlets.

Table 19: Recommended tools

For the processing of	Tool	
Geberit GIS profile 	Cold circular saw, e.g. Dry Cutter from Jepson	
	Spirit level with magnet	
Geberit GIS mounting bracket 	Hexagon socket spanner insert, 13 mm	
Geberit panel screws in magazine 	Quick-fit auto-feed screwdriver, e.g. magazine screwdriver from Makita	
Geberit GIS panels Geberit aqua panel Plus 	Blade	
	Keyhole saw	
	Planer for chamfering the panels	
	Core drill for cutting out the drilling holes for sanitary appliance connections d = 120 mm, e.g. WC outlet d = 60 mm, e.g. WC flush pipe d = 50 mm, e.g. concealed stop valve d = 40 mm, e.g. clip M10 d = 30 mm, e.g. bolts M12	

1.4 Installation instructions

1.4.1 Overview

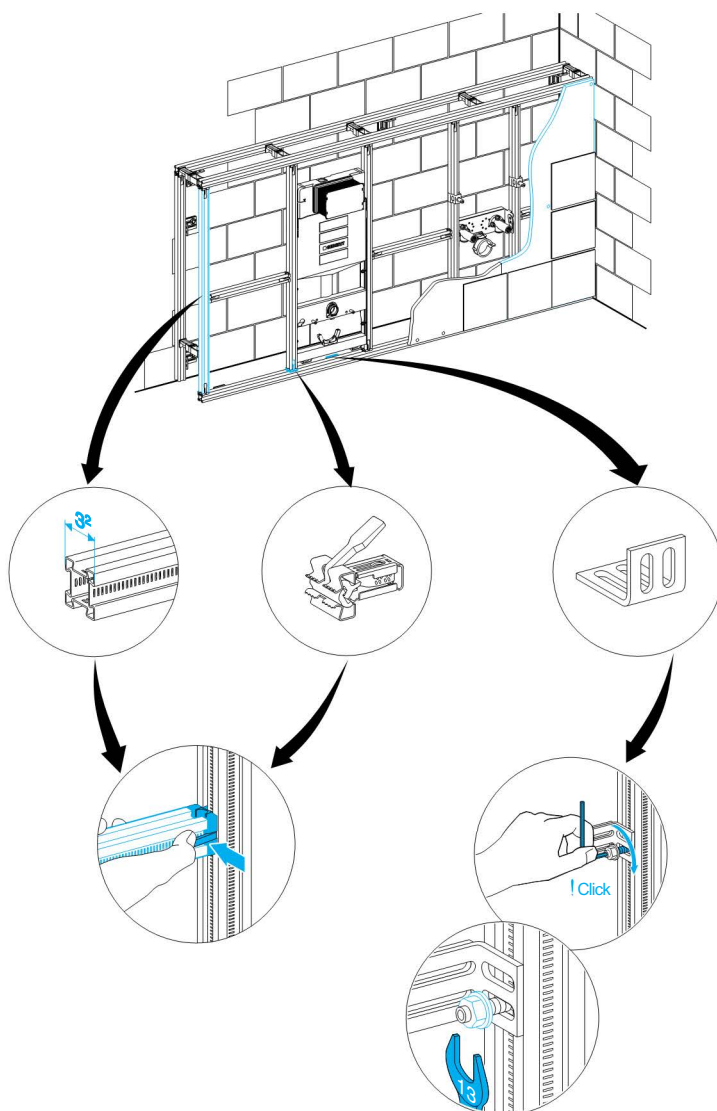


Figure 38:

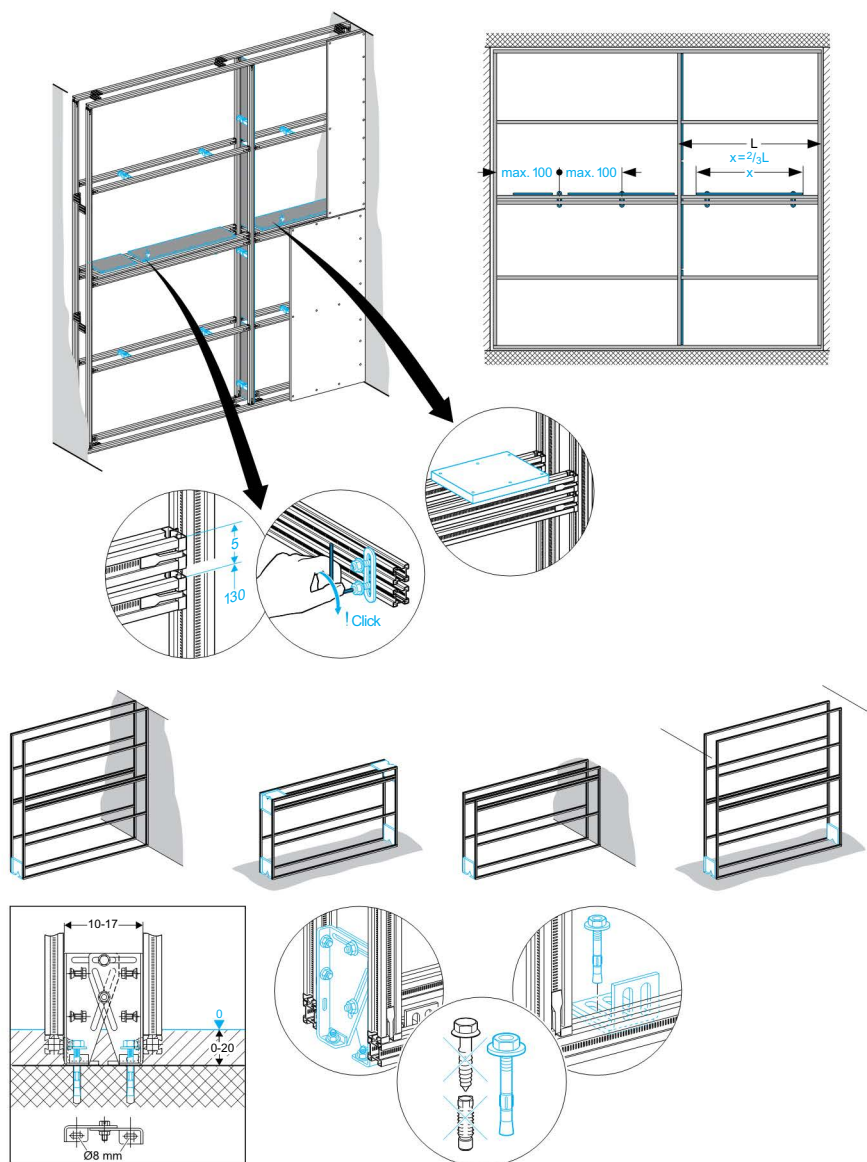


Figure 39:

i In the case of part-height, free-standing walls (island), the floor joint must be filled in with a suitable two-component foam after panelling.

1.4.2 Geberit GIS installation instructions, prewall, room-height

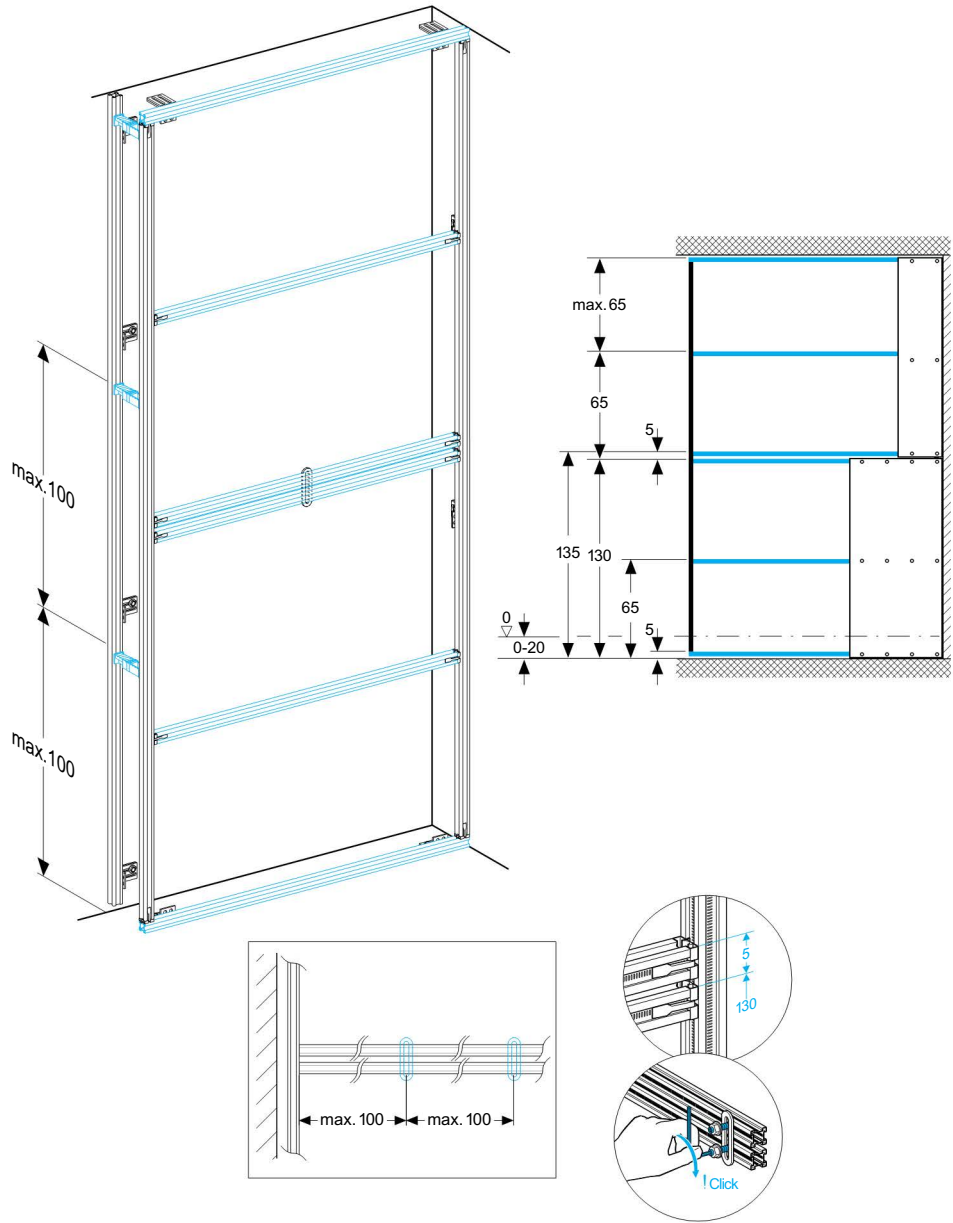


Figure 40:

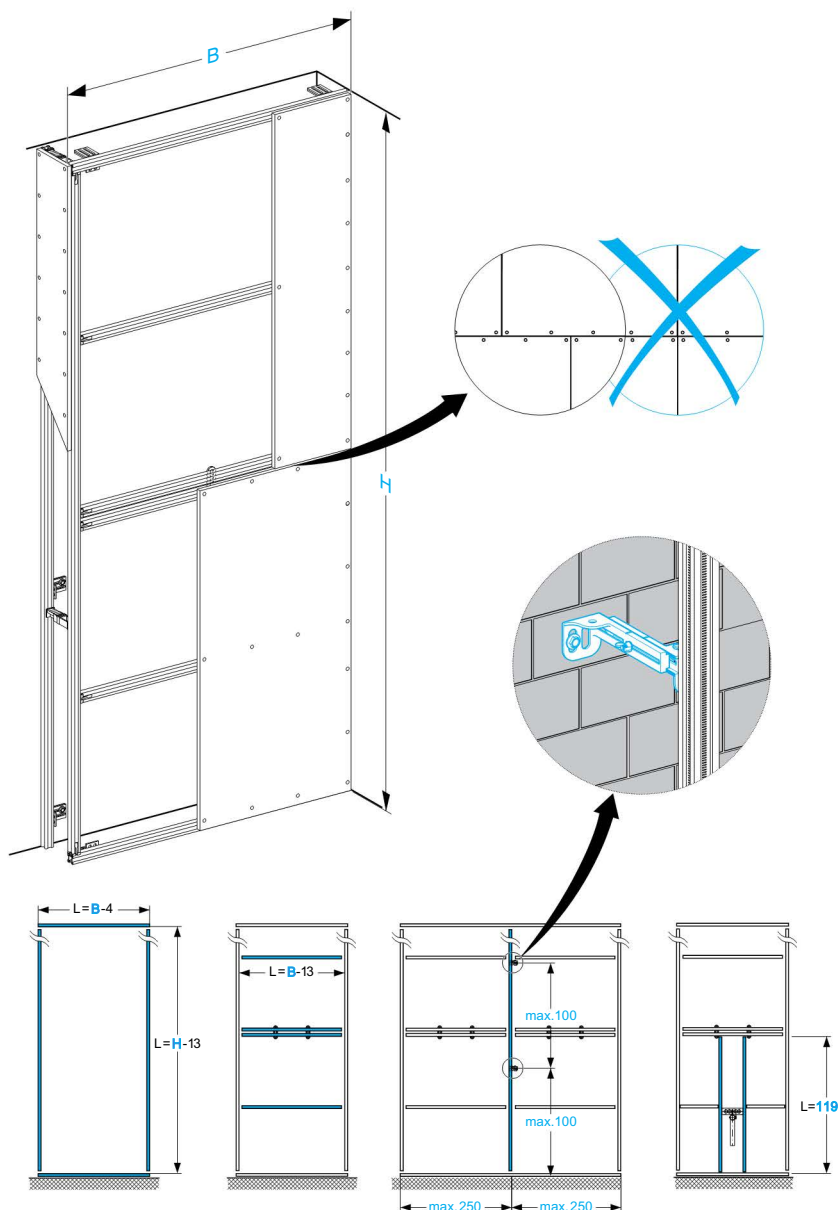


Figure 41:

1.4.3 Geberit GIS installation instructions, partition wall, free-standing

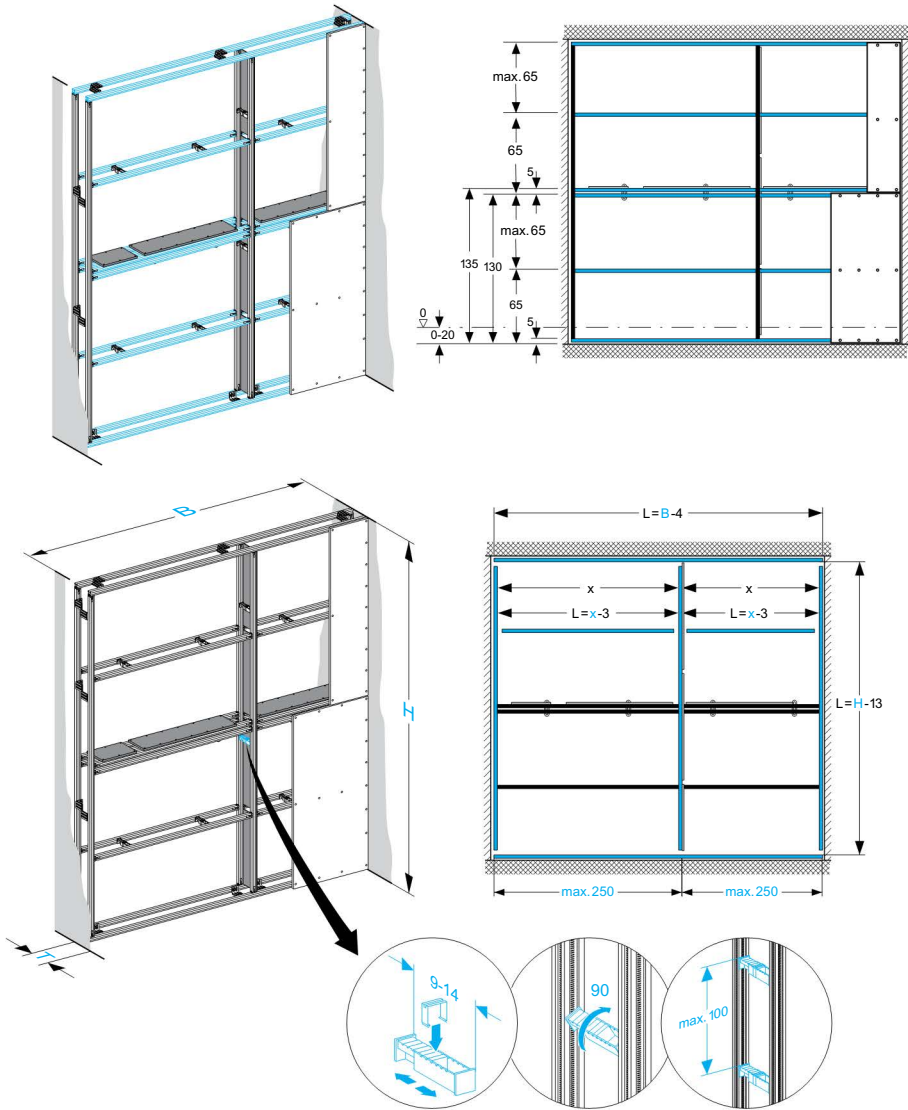


Figure 42:

1.5 Profile length determination for Geberit GIS

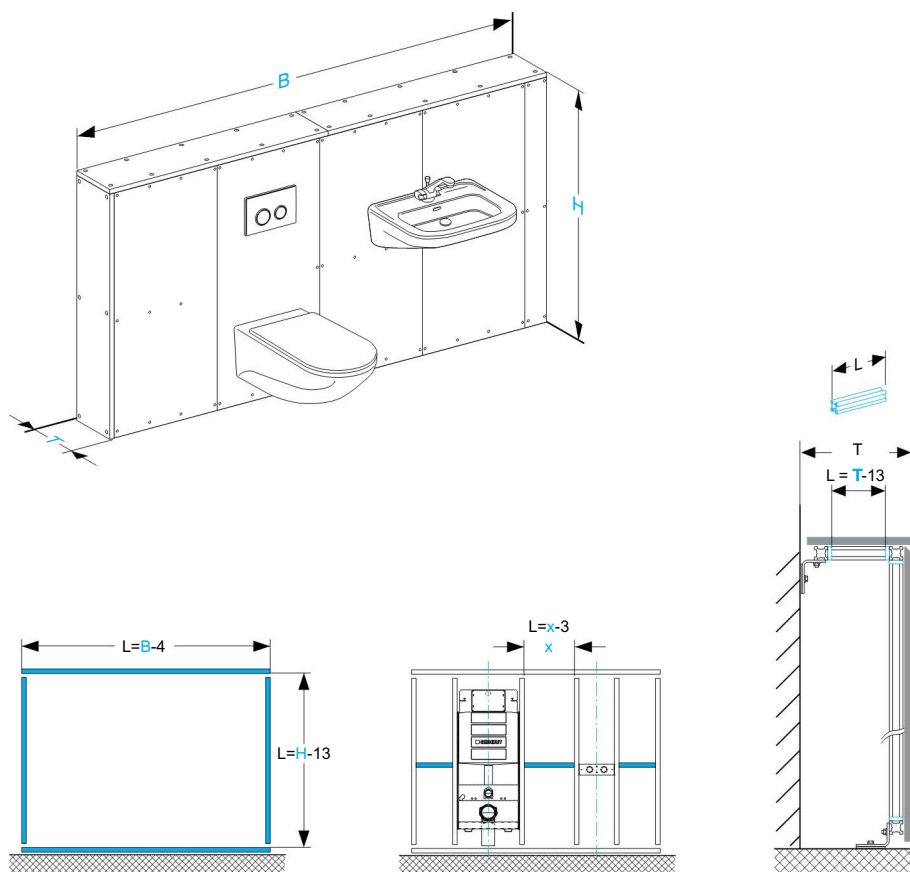


Figure 43:

1.6 Geberit GIS installation instructions, prewall, part-height

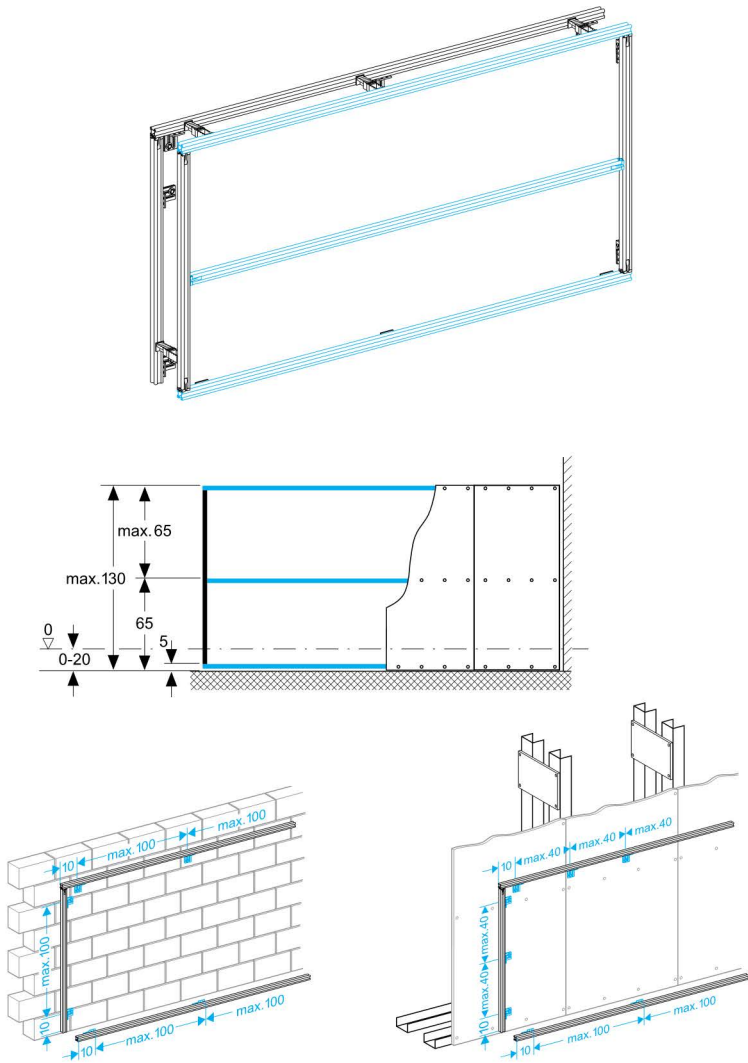


Figure 44:

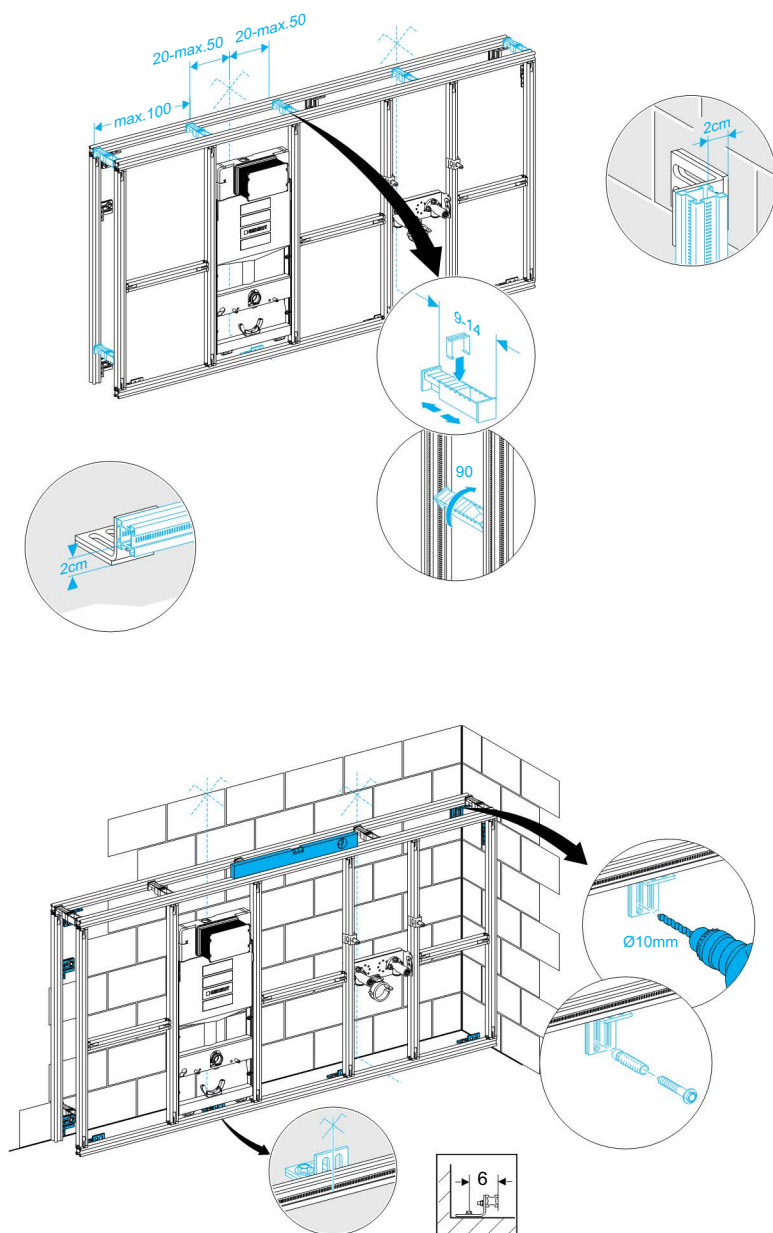


Figure 45:

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CH-8640 Rapperswil
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→ www.international.geberit.com