What if solid partitions didn’t need masonry at all …

Tips & Tricks
for wall solutions



…wedi®
an **ARDEX**GROUP Company



Still relying on masonry or ready to move on?

A smarter, faster way to build solid bathroom partitions

With wedi, there is no need for unnecessary deliveries, heavy lifting or extended drying times associated with traditional masonry construction. But even when working with studwork and plasterboard, additional waterproofing steps, tanking systems and careful detailing are often required to make the structure suitable for wet areas. wedi building boards combine structural stability and waterproof performance in a single solution. Whether mechanically fixed to studwork or installed as a self-supporting partition, they create a rigid, load-bearing wall ready for direct tiling – without additional tanking layers or added complexity on site.

Lightweight
Easily handled and installed by one person.

Fast
Bonded at the wall and floor only – creating a stable partition in one step.

Customisable
Simply cut to size and rout channels for pipework or cabling.

Versatile
Suitable for screed, concrete or timber substrates.

Wide
Freestanding partitions possible up to 1800 mm in length.

High-performance wall elements for freestanding bathroom partitions

Freestanding shower screens, room dividers or privacy walls – wedi wall elements provide a reliable solution for a wide range of layouts and site conditions. Part of the wider wedi system, they combine structural performance with integrated waterproofing for use in bathrooms and wet rooms. All wedi wall elements form part of the wedi waterproofing system, tested and approved for use in wet areas in line with recognised UK standards.



wedi building boards (from 50 mm thickness) – 600 mm wide, 'standard' versions



wedi building boards XL/XXL (from 50 mm thickness) – 900/1200 mm wide, large format versions



wedi Sanwell XL/ XXL wall elements with integrated niche



wedi Sanwell/ Sanwell XS shower wall modules with integrated technology

Design parameters – tested limits

- **Freestanding up to 1200 mm –** minimum 50 mm board thickness, bonded on two sides (one wall & floor).
- **Freestanding up to 1800 mm** – minimum 80 mm board thickness, bonded on two sides (one wall & floor).
- **Partitions >1800 mm in length** – in addition to bonding, additional structural bracing, such as a ceiling support or a return/corner to provide structural stability, is required.

Put it to the test

Less weight. Fewer steps. Faster to tile.

What creates the difference between wedi and traditional wall construction? How long does it take to build a partition in blockwork — or to frame, board and waterproof a stud wall before tiling? We measured it on site. Installation time was recorded, materials were weighed and specified drying times reviewed. The result was clear: with wedi XXL building boards, a tile-ready wall is achieved significantly faster.

10 x lighter
Approx. 15 kg to handle instead of up to 150 kg with blockwork or stud construction

8 x faster to install
Installed in approx. 0.5 hours instead of at least 4 hours for blockwork or stud construction

5 x faster to tile
Tile-ready after 1 day compared with approx. 5 days for masonry and over 30 hours for stud construction

Where does the time saving come from?

A closer look at the construction and installation process shows where the advantage comes from:

- Less weight and fewer components – reducing handling and material movement on site
- A simplified installation process – saving time on site and minimising potential points of failure
- A fully waterproof wall in a single step – ready for tiling without additional tanking layers or priming

With wedi building boards, wall thicknesses from 50 mm are approved. By comparison, blockwork typically requires 70 mm or more, while stud partitions are commonly around 80 mm before waterproofing layers are added.

If adjustments are needed on site, wedi boards can simply be cut to size with a saw. This allows you to respond to site conditions without adding unnecessary work. The following comparison pages look in more detail at the key stages involved in each construction method. Drying times were assessed in accordance with manufacturers' specifications and relevant guidance. Installation details, however, should always be confirmed with the relevant manufacturer. Set-up, cleaning and material transport times were not included – factors that would further increase the time advantage of wedi wall systems.

Timber stud and traditional masonry construction compared with partitions built using wedi XXL building boards

wedi XXL building board 1200 × 2500 mm, 3 m²

Tools required:		Product	Quantity	Installation	Drying
■ Spirit level ■ Pencil ■ Stanley knife, hand saw, circular or Jigsaw ■ Cartridge gun		wedi XXL BA 50 mm	1 pcs, 15.02 kg	30 min	1 day
		wedi 610	310 ml, 0.5 kg		
		Total	**15.52 kg**	**working time 0.5 hours**	**tileable from the next day**

Traditional blockwork construction 1200 × 2500 mm, 3 m²

Tools required:

- Spirit level
- Mixing paddle for mortar and plaster
- Handsaw for aerated blocks
- Trowel
- Float/finishing trowel
- Utility knife



Product	Quantity	Installation	Drying
Aerated concrete block min 70 mm	20 pcs, 111.8 kg - 5.6 kg per stone	144 min	1 day
Tile adhesive	3.6 kg		
Reinforcement mesh	5 m², 0.5 kg	64 min	1 day / mm 3-4 days min
Reinforcing mortar	30 kg		
Wall anchors/ties	5 pcs	10 min	–
1K/Liquid waterproofing membrane	3 kg	20 min	1. layer 2 hours 2. layer 4 hours
	~ 150 kg	**working time 4 hours**	**tileable after 5 days**

Timber stud construction 1200 × 2500 mm, 3 m²

Tools required:

- Hammer drill
- Cordless drill/driver
- Circular saw
- Utility/Stanley knife
- Spirit level
- Mixing paddle
- Filling knife
- Paint roller
- Hammer



Product	Quantity	Installation	Drying
Studs	3 units approx. 35 kg	60 min	–
OSB boards	6 m² approx. 60 kg	60 min	–
Plasterboard	6 m² approx. 55 kg	45 min	–
Screws and dowels	1 kg	15 min	–
Jointing tape	0.1 kg	5 min	–
Jointing compound	6 kg	60 min	24 hours
Primer	1 kg	15 min	1 hours
1K/Liquid waterproofing membrane	3 kg	20 min	6 hours
	> 160 kg	**working time > 4.5 hours**	**tileable after 31 hours**

Sources for time calculations are based on benchmark values from the North Rhine tiling trade tariff guidelines (Vorgabewerte) and the "Kalkulationshilfe Ausbau – Fassade – Umbau"

Tested on site: when niches are integrated, even faster with wedi Sanwell® XXL

wedi Sanwell XXL wall element 1200 × 2500 mm, 3 m²

Tools required:

- Spirit level
- Pencil
- Stanley knife, hand saw, circular or Jigsaw
- Cartridge gun



Product	Quantity	Installation	Drying
wedi Sanwell XXL wall element	1 pcs, 24.0 kg	30 min	1 day
wedi 610	310 ml, 0.5 kg		
Total	**24.5 kg**	**working time 0.5 hours**	**tileable from the next day**

Traditional blockwork construction 1200 × 2500 mm, 3 m²

Tools required:

- Spirit level
- Pencil
- Mixing paddle for mortar and plaster
- Handsaw for areated blocks
- Trowel
- Float/finishing trowel
- Utility knife



Product	Quantity	Installation	Drying
Areated concrete block min 100 mm	20 pcs, 149 kg - 7.4 kg per stone	8.95 hours	1 day
Tile adhesive	4.5 kg		
Reinforcement mesh	5 m², 0.5 kg		1 day / mm 3-4 days min
Reinforcing mortar	30 kg		
Wall anchors/ties	5 pcs		–
1K/Liquid waterproofing membrane	3 kg		1. layer 2 hours 2. layer 4 hours
	~ 187 kg	**working time 9 hours**	**tileable after 5 days**

Timber stud construction 1200 × 2500 mm, 3 m²

Tools required:

- Hammer drill
- Cordless drill/driver
- Circular saw
- Utility/Stanley knife
- Spirit level
- Mixing paddle
- Filling knife
- Paint roller
- Hammer



Product	Quantity	Installation	Drying
Studs	4 units approx. 50 kg	75 min	–
OSB boards	6 m² approx. 60 kg	90 min	–
Plasterboard	6 m² approx. 55 kg	75 min	–
Screws and dowels	1 kg	30 min	–
Jointing tape	0.1 kg	5 min	–
Jointing compound	6 kg	75 min	24 hours
Primer	1 kg	15 min	1 hours
1K/Liquid waterproofing membrane	3 kg	120 min	6 hours
	> 160 kg	**working time > 8 hours**	**tileable after 31 hours**

Sources for time calculations are based on benchmark values from the North Rhine tiling trade tariff guidelines (Vorgabewerte) and the "Kalkulationshilfe Ausbau – Fassade – Umbau"



wedi System components:

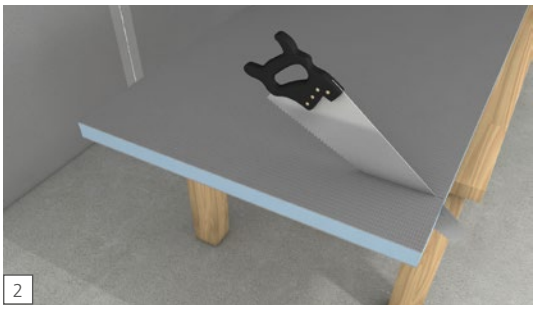
1 wedi Sanwell XXL wall element with wedi Top Wall and wedi Sanwell Top niche
2 wedi I-Board, tiled 3 wedi Sanoasa bench 4 with wedi Top Wall cut to size
4 Fundo Riolito Neo shower element with Fundo Top 5 wedi building boards, tiled

Freestanding partitions up to 1200 mm

Installation example: wedi XL/XXL building board (min 50 mm thickness)



Mark out the position, ensuring the panel is vertical and square to the wall. Ensure full bearing support on the substrate. For widths up to 1200 mm, no additional fixings are required.



Cut the board to size using a utility knife, handsaw, circular saw or jigsaw. Applicable to all widths and thicknesses.



Apply wedi 610 in continuous beads to floor and wall. Position the board and secure if required. ❗ Do not install over electric underfloor heating.



Apply the surface finish*: e.g. tiles, plaster or the ready-to-install wedi Top Wall design surface. Alternatively, apply a 5 mm reinforcement layer to one side.

Important note

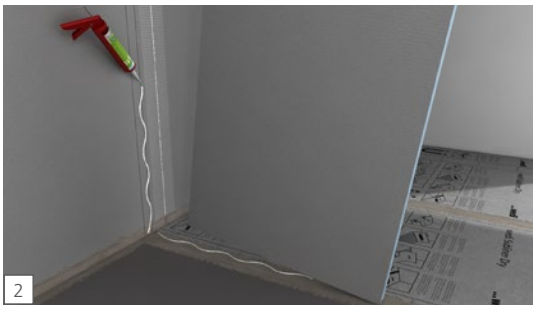
Install without drilling: bond the wedi building board using wedi 610 adhesive and sealant.
* wedi building boards must be tiled on at least one side to achieve structural stability.

Freestanding partitions up to 1800 mm

Installation example: wedi building boards (min 80 mm thickness)



Mark out the position, ensuring the panel is vertical and square to the wall. Ensure full bearing support on the substrate. For widths up to 1800 mm, no additional fixings are required. Cut to size if required.



Apply wedi 610 in continuous beads to floor and wall. Position the board and secure if required. ! Do not install over electric underfloor heating.



Apply wedi 610 in continuous beads to the board edge and floor. Position the second board and secure if required. Reinforce the joint with wedi Tools Joint reinforcement tape.



Apply the surface finish*: e.g. tiles, plaster or the ready-to-install wedi Top Wall design surface. Alternatively, apply a 5 mm reinforcement layer to one side.

Good to know

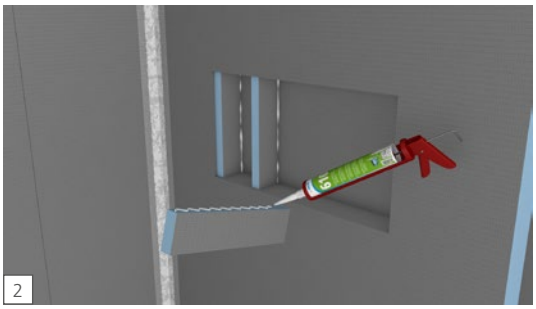
With just two or three wedi building boards (e.g. product no. 010001281 or 010710080), freestanding partitions up to 1800 mm wide and 2600 mm high can be constructed quickly and reliably. Consider individual board dimensions and cut to size where required. See page 13 for a full overview of wedi system solutions.

Freestanding partitions with integrated niche

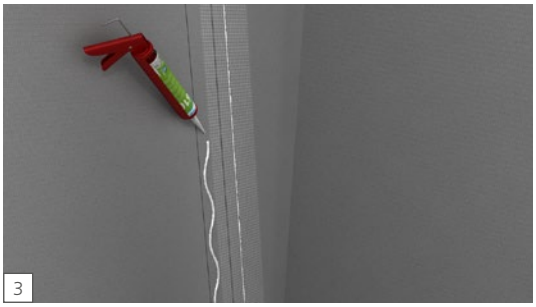
Installation example: wedi Sanwell XL/XXL wall element



Mark out the position, ensuring the wall element is vertical and square. Ensure full bearing support on the substrate. For widths up to 1800 mm, no additional fixings are required.



Adjust the niche to the required size by bonding in the supplied wedi building board panels. Adjust the height of the niche by cutting the wall element at the top or bottom as required.



Apply wedi 610 in continuous beads to the wall and floor. Position the wall element and secure if required. ! Do not install over electric underfloor heating.



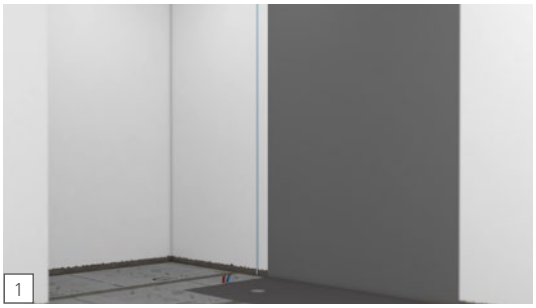
Apply the surface finish*: e.g. tiles, plaster or the ready-to-install wedi Top Wall design surface. Alternatively, apply a 5 mm reinforcement layer to one side.

Important note

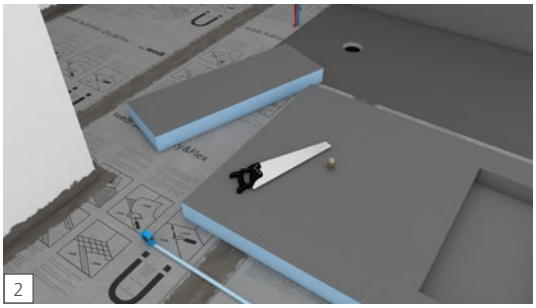
Install without drilling:
Sanwell wall elements and modules are bonded using wedi 610 adhesive and sealant.
* Sanwell wall elements and modules must be tiled on at least one side to achieve structural stability.

Freestanding partitions with integrated technology

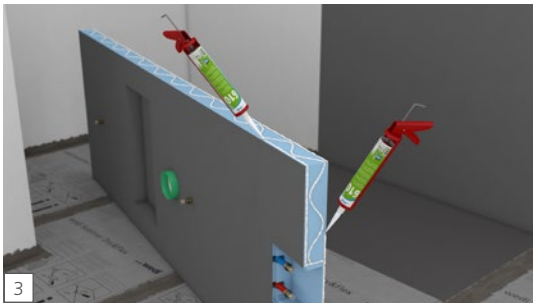
Installation example: wedi Sanwell shower wall module



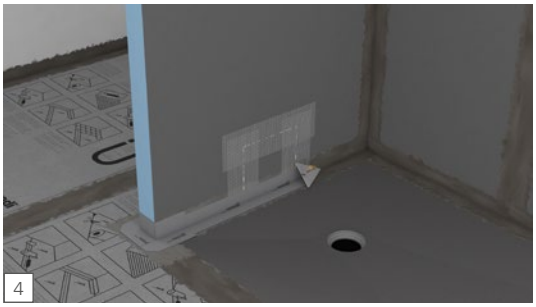
Measure and mark out the wall position, ensuring the module is vertical and square. Ensure full bearing support on the substrate. For widths up to 1800 mm, no additional fixings are required.



Cut the top of the module to size if required using a utility knife, handsaw, circular saw or jigsaw. Always refer to the installation instructions and technical data sheet.



Apply wedi 610 in continuous beads to the shower wall module. Position the module and secure if required.



Bond the access panel with wedi 610 and reinforce the joints. Seal all joint edges within the shower area at wall and floor using wedi 520 and wedi Tools sealing tape.

Good to know

It couldn't be faster or easier. Freestanding partitions up to 1800 mm wide and 2600 mm high can be created by extending the Sanwell wall element or shower wall module with one or two matching wedi building boards (e.g. product no. 010001281 or 010710080). Detailed information can be found in the data request form.



Wider partitions built in no time

Make every millimetre count – choose the room divider designed for installers who demand durability, speed, and a perfect finish. You can now create up to 1.8 metre wide self-supporting partitions with only two wedi building boards and on virtually any surface! Without any mechanical support, the joints are simply bonded to the floor and to the wall – it couldn't be easier or faster.

Craftsmanship meets efficiency: 1 hour vs 1 day

	Partitions made of studs	Partitions made of wedi building boards
Build the wall	3 hours	1 hour
- wait for curing	2 hours	n/a
Waterproofing	15 minutes	n/a
- wait for curing	2 hours	n/a
Working time	**7-8 hours**	**1 hour**

Note: traditional, waterproof stud construction 2500 × 1800 × 80 mm (4.5 m^2), wedi wall 2500 × 1800 × 100 mm (4.5 m^2) consisting of wedi Sanwell XXL wall element 2500 × 1200 × 100 mm and wedi building board 2500 × 600 × 100 mm

1800 mm wide freestanding partitions without a single screw

Elegant partitions are a defining feature of modern bathroom design. With wedi, freestanding room dividers can be tailored to a wide range of layouts and design concepts. Whether used to separate the shower area, create privacy or structure the room, they combine design freedom with reliable construction.

- **Up to 1800 mm wide:** engineered for effortless fitting, only two wedi building boards are required to bring visions to life without structural compromise.
- **Space-smart:** despite the extra length, the 80 mm thick wedi building boards provide long-term stability your customers will rave about.
- **Up to 2600 mm high:** gives every bathroom the 'pro touch' whilst ensuring privacy at all times.

Suitable product combinations for up to 1800 mm wide freestanding partitions

Product no.	Products / combinations	Length	Width	Thickness	Quantity	Note
010710080	wedi building board	2,500 mm	600 mm	80 mm	3	–
010710199	wedi building board	2,500 mm	600 mm	100 mm	3	–
010000999	wedi XL building board	2,600 mm	900 mm	100 mm	2	–
010001281	wedi XXL building board	2,600 mm	1,200 mm	80 mm	2	Cut combined width ≤ 1,800 mm
076400356	wedi Sanwell shower wall module	2,500 mm	1,200 mm	100 mm	1	–
010710199	wedi building board	2,500 mm	600 mm	100 mm	1	–
076400356	wedi Sanwell shower wall module	2,500 mm	900 mm	100 mm	1	–
010000999	wedi XL building board	2,600 mm	900 mm	100 mm	1	Cut the height to match
041701101	wedi Sanwell XXL wall element	2,500 mm	1,200 mm	100 mm	1	–
010710199	wedi building board	2,500 mm	600 mm	100 mm	1	–
041701100	wedi Sanwell XL wall element	2,500 mm	900 mm	100 mm	1	–
010000999	wedi XL building board	2600 mm	900 mm	100 mm	1	Cut the height to match

Note: these partitions must be tiled on at least one side to achieve structural stability. We listed a few examples above, but of course, there are other possible combinations.

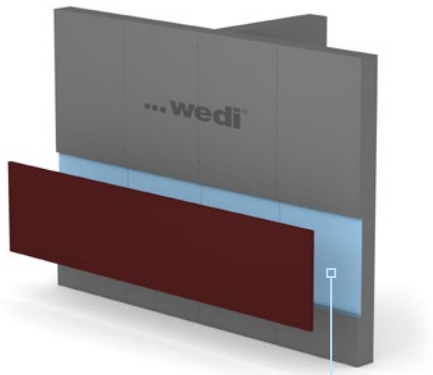
„Where others see problems, we craft smart solutions – like our self-supporting partition walls up to 1.8 metre in width. With that in mind, clock off and unwind."

Markus Wittlerbäumer
wedi GmbH, Head of Application Technology



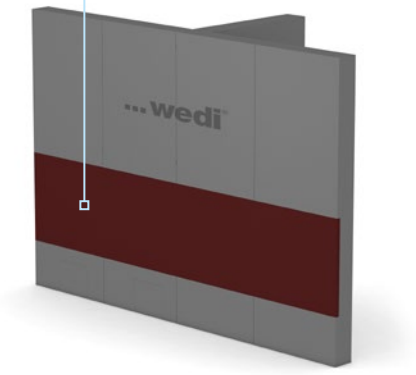
Tailored solutions for every layout

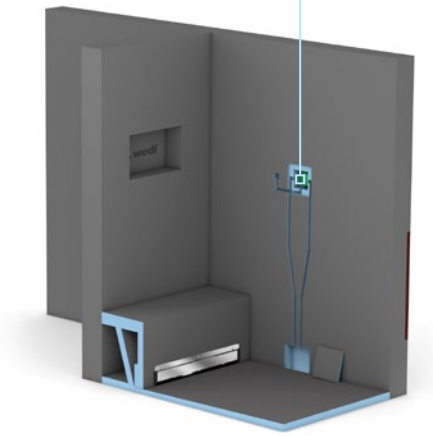
For more than 40 years, wedi has focused on helping installers meet individual project requirements and challenging site conditions. Our system solutions are designed to adapt to your specific needs. Options include factory-prefabricated wall elements, integrated recesses for pipework and fittings, or fully pre-assembled shower and wet room solutions delivered ready for installation. The choice is yours. **For project enquiries, please contact: technical@wedi.co.uk**



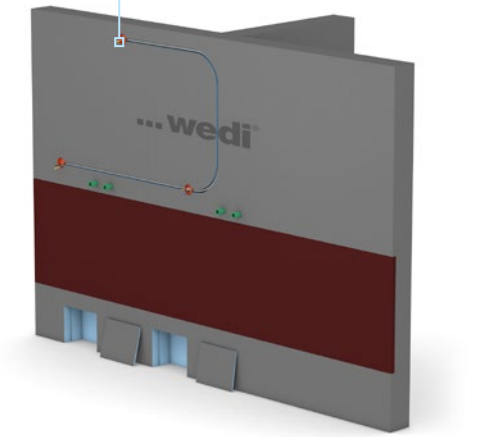
Rout the recess on site to bond in the reinforcement plate...

...or have the element delivered with the reinforcement plate factory-installed...





...or choose a prefabricated T-module with factory-integrated service channels and components.



Modular elements for complex installations

A high level of prefabrication saves time on site and simplifies installation. With wedi modular solutions, these advantages can be applied directly to your projects. A wide range of modules allows you to configure the right solution for each layout — from freestanding partitions to wall elements connected on one side, or constructions anchored to the floor and/or ceiling.

Project example: private bathroom

In this example, a T-module separates the shower area from the toilet. The load-bearing modules are manufactured from wedi building boards. The longest side provides the ideal base for a washbasin installation. Technical components, such as the Fundo Discreto optical wall drain and spacious storage niches are integrated at the factory. Faster installation, less complexity and greater reliability on site.



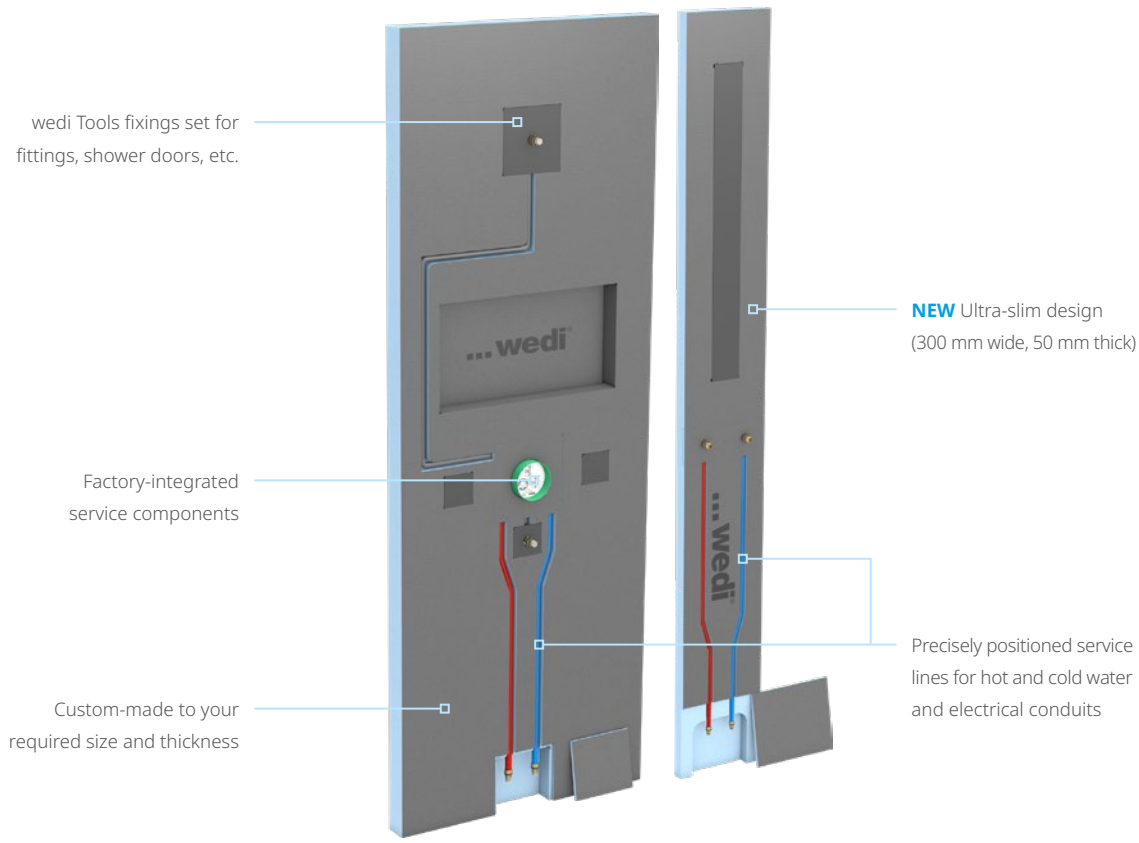




wedi Sanwell® shower wall modules – configured to suit your project

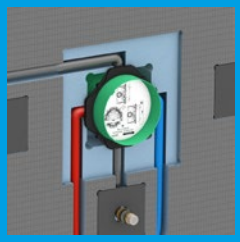
wedi Sanwell shower wall modules can be manufactured to your project specifications – whether for rear-wall installations or as freestanding shower partitions. Services can be factory-integrated and sealed, including the Hansgrohe iBox. Thickness (80 mm or 100 mm), width (900 mm or 1200 mm), recesses for fittings, electrical conduits and hot and cold water pipework: you define the requirements and we deliver a precisely prepared, installation-ready solution to site.

The new wedi Sanwell XS shower wall module is now available as a standard stock item. With its compact width of 300 mm and slim 50 mm thickness, it is ideal where space is limited. The module features factory-integrated hot and cold water pipes along with a reinforcement plate for mounting the shower rail, and can be combined with wedi building boards to create complete shower partitions.



Good to know

All components are fully sealed at the factory. This ensures reliable waterproofing and saves valuable time during installation – simply position and connect on site. Further technical details can be found in the data request form.



Glass door installation on wedi partition walls

The strength of wedi wall elements becomes clear when installing a glass door. At the free end, the total weight can reach up to 55 kg. Doors up to W 1000 × H 2000 × T 8 mm can be accommodated. The door is secured using the wedi Tools fixing set, with reinforcement plates positioned at the hinge and fixing points to ensure stability and safety. **Please note: when installing a shower partition with a door, the tiles must be at least 6 mm thick.**



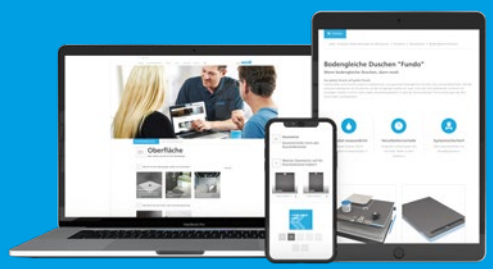
wedi System components:
1 wedi building board
2 wedi Tools Joint reinforcement tape, self-adhesive
3 wedi Tools fixings set



wedi System components:
1 wedi Sanoasa bench 3
2 Fundo Discreto optical drain attachment element
3 Fundo Riolito Neo shower element

Good to know

For reinforcement, waterproofing and other installation details, instructions and installation videos are available at www.wedi.net





wedi System components:
1 wedi Tools fixings set 2 wedi XXL building board 3 wedi Tools sealing gaiter 4 wedi Tools Joint reinforcement tape, self-adhesive 5 Fundo Primo shower element



wedi System components:
1 wedi Top Wall 2 Fundo Top

Installing a bathroom radiator on wedi partition walls

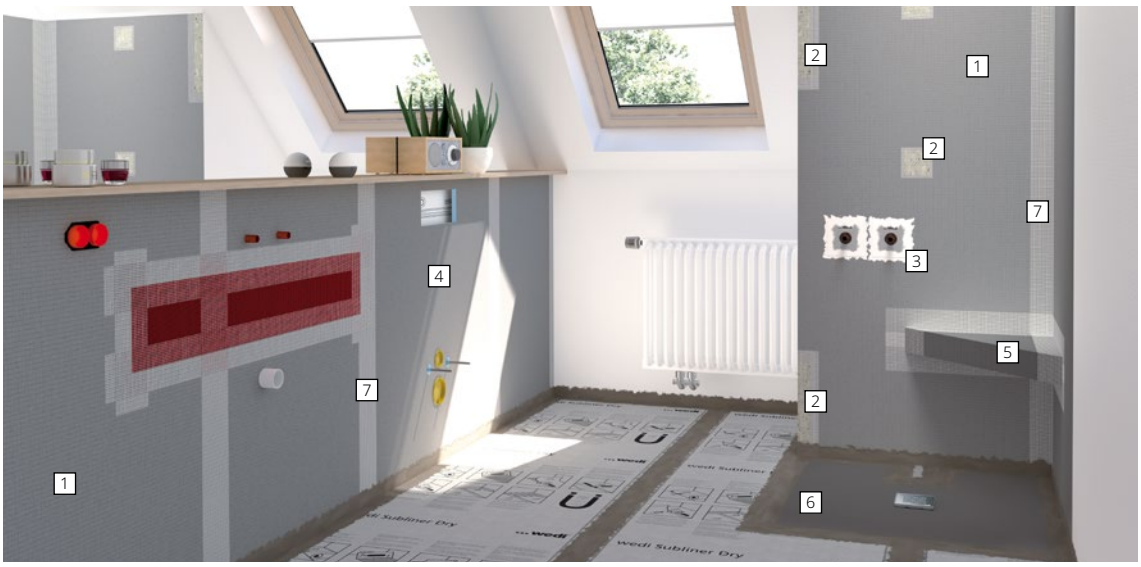
Planning to install a radiator on the partition wall? Use the reinforcement plates from the wedi Tools fixing set, which allow a total load of up to 80 kg. The required recesses can be ordered pre-routed in the building boards or wall elements.

Alternatively, they can be created on site: use a router to cut a suitable channel, position the pipework and fill the recess with tile adhesive. Before tiling, apply wedi Tools Joint reinforcement tape over the filled channels – done. **Please note: for a partition wall with a mounted radiator, the tiles must be at least 6 mm thick.**

Mounting fittings and washbasins

Mark the exact position of the reinforcement plate and rout the required recess using a router. **As a rule of thumb: routing depth = thickness of the reinforcement plate + 1 – 2 mm for bonding.**

Bond the reinforcement plate flush into the routed recess using wedi 610 adhesive and sealant. Then reinforce the area with self-adhesive wedi Tools Joint reinforcement tape – ready for tiling. For even faster installation, the recesses can be ordered pre-routed in the building boards.



wedi System components: 1 wedi building board 2 wedi Tools fixings set 3 wedi Tools sealing gaiter 4 wedi I-Board 5 wedi Sanoasa corner seat element 6 Fundo Plano shower element 7 wedi Tools Joint reinforcement tape



wedi System components: 1 wedi Top Wall 2 Fundo Top

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