

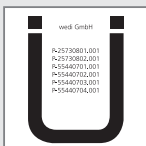
Building boards – interior

Things to know and technology





wedi products and systems are of a high standard of quality and have received numerous certifications throughout Europe.



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wedi building board

General product description

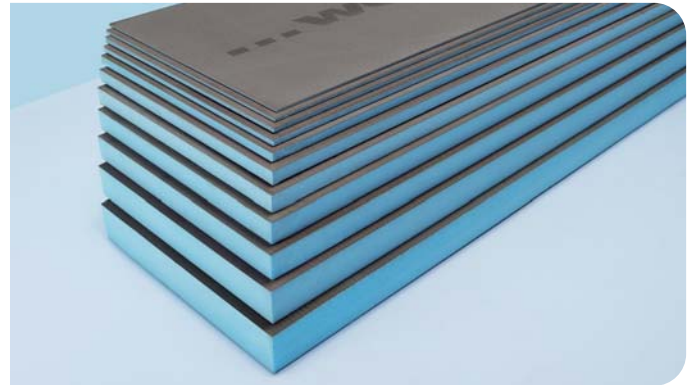
The wedi building board has a blue core made from rigid extruded polystyrene foam. The rigid foam is reinforced with glass fibre (with alkali-resistant finish) on both sides and coated with a polymer-modified cement.

Applications

With its special properties, the wedi building board has a wide variety of applications:

- Carrier element for laying tiles, slabs and natural stone floor coverings using the thin-bed method
- Adhesive surface for applying plaster, tile adhesive and other materials
- Moisture protection
- Effective heat insulation
- Design element
- Composite sealing with tile and slab coverings of load class A and B (directly loaded walls and floors in rooms in which tap or cleaning water is used very frequently or for long periods, walls and floors of indoor and outdoor pools that are filled with water with the properties of drinking water). More info available at www.wedi.eu

wedi building boards are approved for indoor use in rooms at normal temperature. Contact your wedi application specialist for advice on special applications (swimming pools, freezer facilities, outdoor areas etc.). wedi building boards are approved for use on floors in rooms with an ordinary residential load. Wheeled loads with high concentrated loads are not permitted.



Product properties

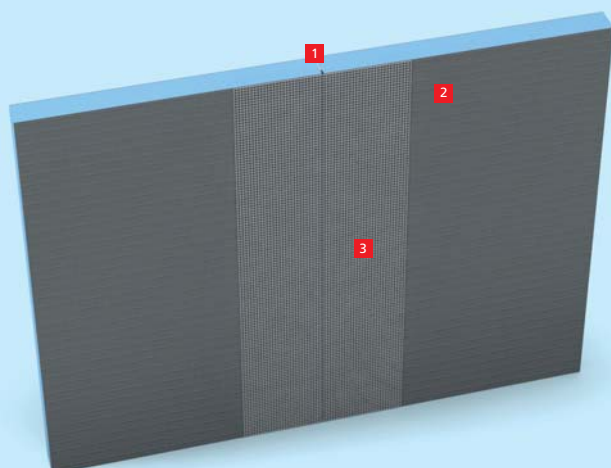
All wedi building boards can be applied to almost any surface. They are waterproof, heat insulating, versatile, lightweight and dimensionally stable, and they can be cut, shaped and installed quickly.

Surface requirements, laying

Information on the processing and surface requirements can be found in the "General guidelines for use of wedi building boards, wall and floor applications".

Form of delivery and storage

- Boards on pallets
- In principle, wedi building boards should be stored flat irrespective of their thickness. They should be protected against direct sunlight and moisture.



The strong tile backing wedi building board

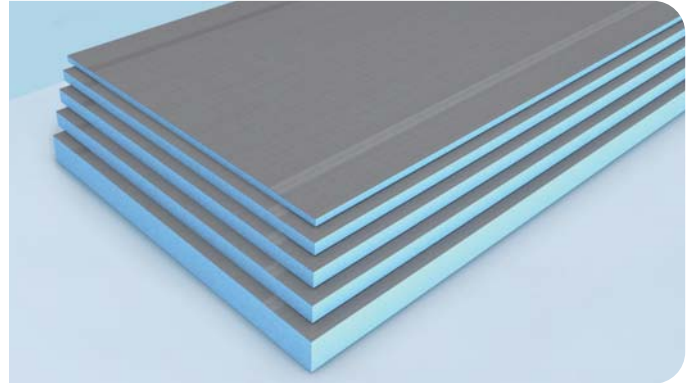
The completely waterproof building board offers the perfect substrate for ceramic coverings thanks to high adhesion. The joints can be sealed using only wedi 610 – officially approved and tested.

- 1 wedi 610
- 2 wedi building board
- 3 wedi *Tools* joint reinforcement tape

wedi building boards *Premium*

General product description

The wedi Premium building board – just like any other wedi building board – has a blue core made from rigid extruded polystyrene foam. This rigid foam is glass fibre-reinforced on one side and coated with plastic-tempered mortar. A glass fibre fleece is embedded into the mortar on the flat side of the Premium building board so that there is a plane cement surface. Furthermore, this side of the surface is provided with a tapered edge on the left and right so that there is a completely flat background after application of the board joint reinforcement.



Applications

With its special properties, the wedi building board Premium has a wide variety of applications:

- Adhesive substrate for installation of surfaces such as mosaics, wallpaper, plaster and paint
- Carrier material for laying tiles using the thin-bed method
- Moisture protection and effective thermal insulation
- Sealing in conjunction with tiles and boards on walls and floors load classes A0 and A.

wedi building boards Premium are approved for indoor use in rooms at normal temperature. Contact your wedi application specialist for advice on special applications such as freezer facilities, swimming pools, outdoor areas etc. Use in contact with the soil is only approved for residential areas, not for ground areas in commercial use (subject to wheel loads or high point loads).

Product properties

All wedi building boards can be applied to almost any surface. They are waterproof, heat insulating, versatile, lightweight and dimensionally stable, and they can be cut, shaped and installed quickly.

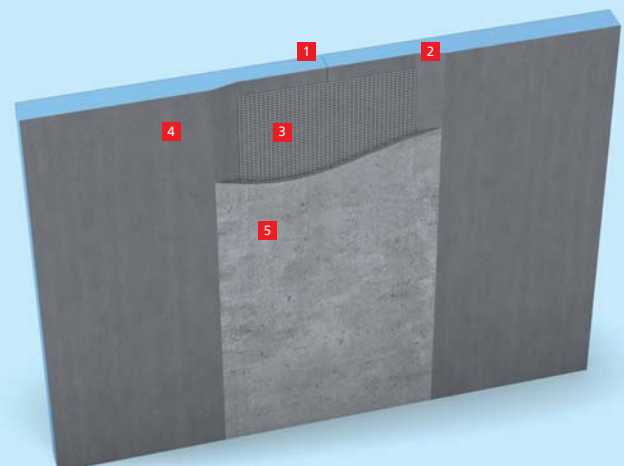
Surface requirements, laying

Information on the processing and surface requirements can be found in the "General guidelines for use of wedi building boards Premium".

For finest top layers wedi Premium building board

Thanks to its particularly fine surface, this building board is suitable for the finest top layers such as plaster, paint or wallpaper. A tapered edge has already been integrated at the joints which accommodates the thickness of the reinforcement tape and adhesive exactly and therefore offers a completely level substrate throughout.

- 1 Building board joint
- 2 Tapered edge
- 3 wedi *Tools* joint reinforcement tape
- 4 wedi building board *Premium*
- 5 wedi 240 *Premium* joint filler



Technical properties – Rigid foam

HCFC-free extruded polystyrene rigid foam with closed cell structure and flame-retardant additive.

Long-term compressive strength (50 years) \leq 2% compression EN 1606	0.08 N/mm ²
Compressive resistance or compressive strength at 10% compression EN 826	0.25 N/mm ²
Associated modulus of elasticity EN 826	10–18 N/mm ²
Thermal conductivity EN 13164	0.036 W/mK
Tensile strength EN 1607	0.45 N/mm ²
Shearing resistance EN 12090	0.2 N/mm ²
Shear modulus EN 12090	7 N/mm ²
Bulk density EN 1602	32 kg/m ³
Resistance to water vapour diffusion (μ) EN 12086	100
Water absorption under long-term immersion EN 12087	\leq 1.5 % by vol.
Capillar action	0
Linear coefficient of thermal expansion	0.07 mm/mK
Temperature limits	-50°C / +75°C
Fire behaviour DIN 4102	B1
Propellant gas, carbon dioxide, GWP value	1

Technical data of building board

Fire behaviour DIN 4102-1 (from 4 mm board thickness)	B2
Sound insulation DIN EN ISO 140-3 (at board thickness of 12.5 mm)	Rw,P 23 dB
Fire behaviour EN 13501	E
Bending stress based on DIN 53293	3900 kPa (mean value)
Adhesive tensile strength	0.28 N/mm ²
Weight: wedi building board (1250 x 600 x 4 mm)	2.7 Kg
wedi building board XXL (2500 x 1200 x 50 mm)	13.8 Kg
Linear coefficient of thermal expansion	0.02 mm/mk

Technical data of building board Premium

Fire behaviour DIN 4102-1 (from 12,5 mm board thickness)	B2
Fire behaviour EN 13501	E

Nominal thickness in mm	Thermal resistance $1/\Delta$ $\text{m}^2 \times \text{K/W}^1$	U-value $\text{W/m}^2 \times \text{K}^2$
4	0.108	3.60
6	0.167	2.97
10	0.229	2.509
12.5	0.3	2.13
20	0.514	1.46
25	0.657	1.21
30	0.800	1.03
40	1.086	0.80
50	1.371	0.65
60	1.657	0.55
80	2.229	0.42
100	2.800	0.34

¹⁾ When determining the thermal resistance $1/\Delta$, thermal conductivity group 035 in accordance with DIN 4108 is taken as the basis for the thermal insulation.

²⁾ When determining the U-value, only wedi building board and heat transmission resistance $1/\alpha_i$ and $1/\alpha_a$ for external walls are taken into account. In specific applications, the existing masonry and other layers should also be included.

wedi building board *Vapor*

General product description

The wedi building board Vapor is a composite element made from extruded polystyrene rigid foam reinforced on both sides with a special cement coating and with a vapour barrier on one side.

Applications

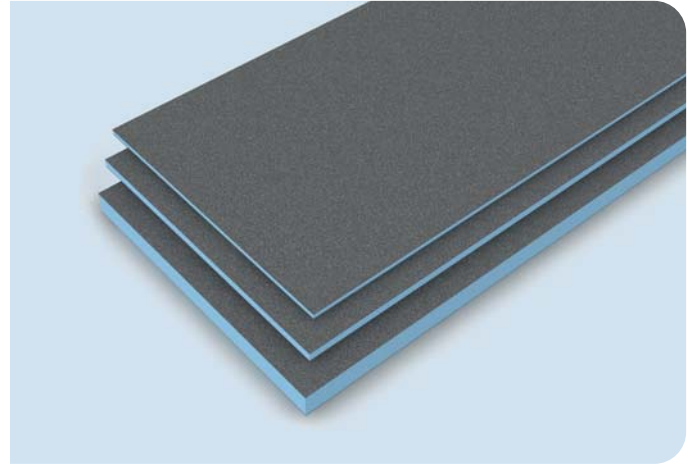
With its special properties, wedi building boards Vapor have a wide variety of applications:

- Carrier material for laying tiles using the thin-bed method
- Adhesive surface for applying plaster, tile adhesive and other materials
- Moisture protection
- Effective heat insulation
- Vapour barrier

The wedi building board Vapor is approved for interior use on swimming pool walls and ceilings, steam baths, communal shower facilities and any areas where a vapour barrier is required for structural reasons when internal thermal insulation is installed. Use on floors is only approved if no wheeled loads or concentrated loads are expected.

Product properties

Tile and plaster carrier element for thermal insulation and simultaneous vapour barrier in rooms with permanently raised humidity. wedi building boards Vapor can be fitted on almost any surface, and they are waterproof, heat-insulating, versatile and quick to install.



Surface requirements

Information on the processing and surface requirements can be found in the "General guidelines for use of wedi building boards, wall and floor applications". The joints are not formed in the way shown in the aforementioned general guidelines for use: The joints are sealed using wedi Tool sealing tape adhered in place in a layer of epoxy-resin adhesive. An additional layer of epoxy-resin adhesive is then applied over the sealing tape and a quartz sand blinding applied.

Form of delivery and storage

- Boards on pallets
- In principle, wedi building boards Vapor should be stored flat irrespective of their thickness. They should be protected against direct sunlight and moisture.

Technical properties – Rigid foam

Extruded polystyrene rigid foam core	XPS
Long-term compressive strength (50 years) $\leq 2\%$ compression EN 1606	0.08 N/mm ²
Compressive resistance at 10% compression EN 826	0.25 N/mm ²
Thermal conductivity EN 13164	0.036 W/mK
Bulk density DIN EN 1602	32 kg/m ³
Temperature limits	-50°C / +75°C
Fire behaviour DIN 4102	B1
Fire behaviour EN 13501-1	E

Technical properties – building board Vapor

Composite element made of extruded polystyrene rigid foam reinforced on both sides with a special cement coating and a vapour barrier on one side.

Colour	grey
Dimensions	600 x 2500 mm
Thickness	14 mm, 21.5 mm, 51.5 mm
Vapour barrier (sanded epoxy-resin vapour barrier)	1.5 mm
Equivalent air space thickness, sd value (epoxy-resin vapour barrier)	283 m
Resistance to water vapour diffusion (μ) EN 12086	188571
Fire behaviour DIN 4102-1 (from 4 mm board thickness)	B2
Fire behaviour EN 13501	E

Nominal thickness in mm	Thermal resistance $1/\Delta$ m ² x K/W ¹⁾	U-value W/m ² x K ²⁾
14	0.3	2.13
21.5	0.514	1.46
51.5	1.371	0.65

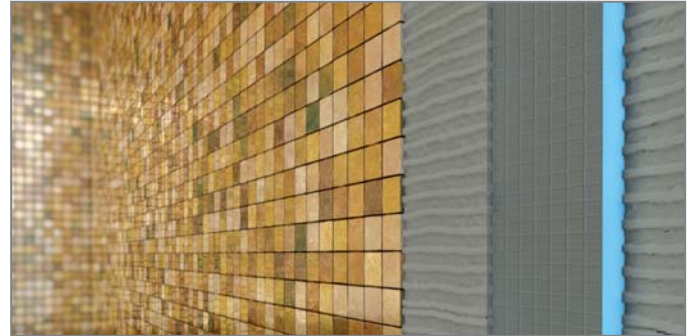
¹⁾ When determining the thermal resistance $1/\Delta$, thermal conductivity group 035 in accordance with DIN 4108 is taken as the basis for the thermal insulation.

²⁾ When determining the U-value, only wedi building board and heat transmission resistance $1/\alpha_i$ and $1/\alpha_a$ for external walls are taken into account. In specific applications, the existing masonry and other layers should also be included.

Surface design

Ceramic coverings

Ceramic coverings offer various possibilities for wall and floor design. Depending on the intended use and personal taste, there is a wide variety of tiles and boards with different shapes, colours and materials. Here, the wedi building board is the perfect carrier element for ceramic coverings as the tile can be installed directly to the board surface without any additional steps needed.

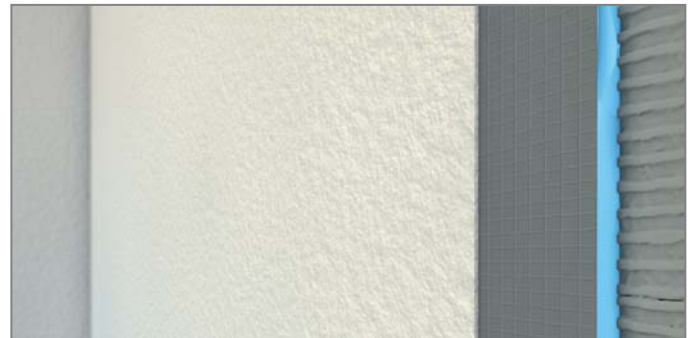


Plasters and fillers

Today, plasters are not only used for creation of a plane surface for tiling, painting or wallpapering, but they also represent a visual design element. Also here, the wedi building board is the perfect substructure.

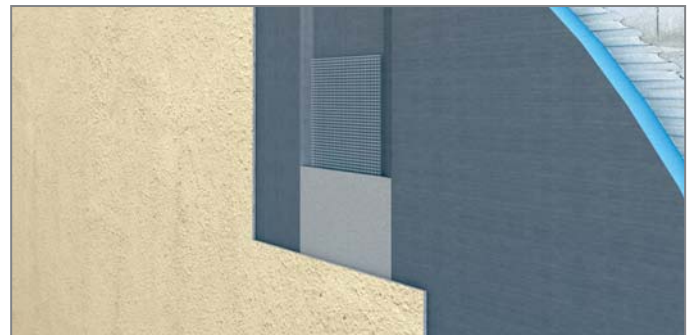
! Important information:

Contact the wedi application specialist for advice on areas with shock loads. Plasters containing gypsum require priming of the building board / building board Premium.



Wall paints

The unique wedi building board Premium is also suitable for direct application of paint. Whether in the living areas or the bedroom – the design options are many and the room will always be pleasantly insulated.



Wallpapers

It is even possible to hang wallpaper directly on the plane side of the wedi building board Premium. Its cement finish offers a stable surface for the adhesive. An enormous advantage over many other boards.



Natural stone coverings

Natural stone coverings have a very particular flair. They are made from natural stones and maintain their visual appearance as they are neither ground nor polished. This results in special characteristics such as the irregular colouration or pattern. wedi building boards are an ideal carrier element and allow for easy and fast installation.



Laminates / ready-to-lay parquets

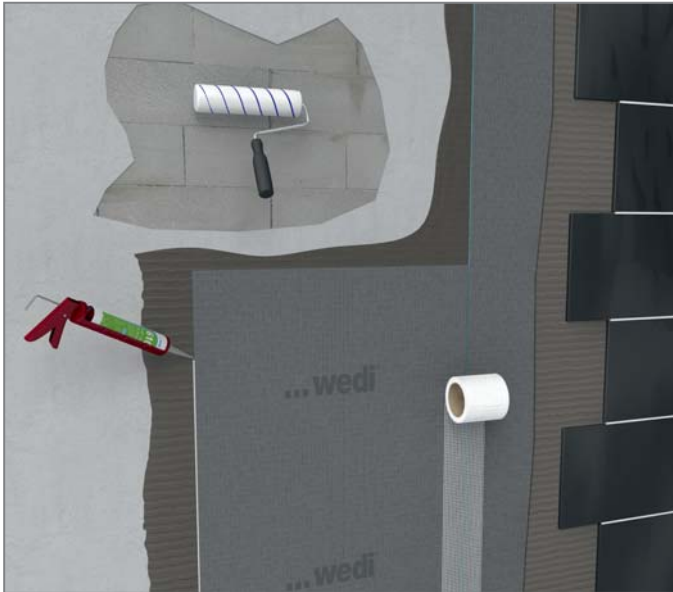
Laminates and ready-to-lay parquets are an alternative to ceramic floor coverings. Laminate is a comparatively low-priced material that is only coated with a decorative layer; parquet is a wooden flooring that – depending on quality – may be very durable. Both floor coverings are available in many different wood designs and colours as well as various qualities. Also here, the wedi building board is the perfect carrier element. Where the laminate is laid as a floating floor.



Surface qualities for Premium building board

Quality level Q1	Quality level Q2	Quality level Q3	Quality level Q4
<p>In case of surfaces without any visual (decorative) requirements, basic trowel application (Q1) will be sufficient.</p> <p>Trowel application of quality level 1 includes:</p> <ul style="list-style-type: none"> • Filling of butt joints between the wedi Premium building boards • Covering the visible parts of the fasteners. <p>Protruding filler material should be removed. Tool-related markings, score marks and devices are allowed.</p> <p>Basic trowel application includes installation of joint cover strips (reinforcement strips) as far as this is required within scope of the selected trowel application system (filler material, edge shape of boards).</p>	<p>Trowel application of quality level 2 (Q2) is sufficient for usual surface requirements of walls and ceilings. The objective of trowel application is to level the joint area by stepless transitions of the board surface. The same applies to the fasteners, interior and exterior corners as well as connections with fillers.</p> <p>Trowel application of quality level 2 includes:</p> <ul style="list-style-type: none"> • Basic trowel application Q1 • Subsequent trowel application (finish) until achievement of a stepless transition to the board surface. The filled areas should be ground, if required. <p>Tool marks and/or filler edges cannot be avoided completely.</p> <p>The surfaces are suitable for e.g.:</p> <ul style="list-style-type: none"> • Moderately and roughly structured wall coverings such as ingrain wallpapers or other paper-based wallpapers • Matt, filling, moderately to roughly structured paints/coatings (e.g. emulsion paints) that are applied manually by using lambskin roller or structured roller • Finishing coats (grain sizes above 1 mm) as far as approved by the plaster manufacturer with regard to the respective plasterboard system. <p>If quality level 2 is used as basis for wall coverings, paints and coatings, then marks - in particular on account of grazing light - cannot be excluded. Decrease of such effects can be achieved in connection with trowel application of quality level 3.</p>	<p>If the filled surface is subject to increased requirements, then actions exceeding the Q2 actions will be required.</p> <p>Trowel application of quality level 3 includes:</p> <ul style="list-style-type: none"> • Trowel application as per Q2, and additionally • More comprehensive filling of joints as well as straight smoothing of the remaining board surface for purposes of closing the voids using a spatula. <p>Filler edges or score marks are not allowed. However, marks that become visible with grazing light cannot be avoided at all. Degree and extent of such marks is lower as compared to Q2.</p> <p>Drywall surfaces of quality level Q3 are suitable for:</p> <ul style="list-style-type: none"> • Fine-structured wall coverings • Matt, fine-structured paints/coatings • Decorative finishing coats (grain size less than 1 mm) 	<p>If the drywall surface is subject to highest requirements, then the surface should be fully covered with joint filler or thin-layer plaster.</p> <p>Quality level 4 includes:</p> <ul style="list-style-type: none"> • Trowel application as per Q2, and • Full-area covering of surface by using a suitable filler or thin-layer plaster material (layer thickness larger than 1 mm) <p>This surface is suited for:</p> <ul style="list-style-type: none"> • Plane or structured wall coverings with gloss, e.g. metal or vinyl wallpapers • Glazes or paints/coatings up to medium gloss • Smoothing techniques with marble-like appearance or other high-quality smoothing techniques. <p>Surface treatment quality level 4 meets the highest requirements and minimises the possibility of marks on the board surface and joints. As far as light (e.g. grazing light) has an impact on the appearance of the finished surface, undesired effects (e.g. changing shades on the surface, or minimal local marks) are mainly avoided. However, they cannot be excluded completely as the impact of light varies in a wide range and cannot be definitely determined and assessed. In principle, the lighting conditions present at later use should be known. It will be useful if such lighting conditions are already present at the time of filling/plastering work. Furthermore, the local technical limits of the structure should be considered. Filling areas that are completely without shades cannot be created. Depending on the building project it is recommended to create a quality level 4 sample area with the final lighting conditions. This should be separately ordered by the customer. In individual cases it could be necessary to perform further actions for preparation of the surface for purposes of final coating, e.g. for:</p> <ul style="list-style-type: none"> • Glossy coatings • Paintwork • Painted wallpapers

Sustainable surfaces



When people refurbish old bathrooms which are in need of renovation, they often have to consider what to do with the old wall coverings, e.g. walls tiled to half height. wedi building boards offer simple solutions to this. The building boards most commonly used are the thicknesses 4 mm or 6 mm because they can be applied flush to adjacent tilework, leaving the tradesman with a clean, level surface to work with.

wedi system components:

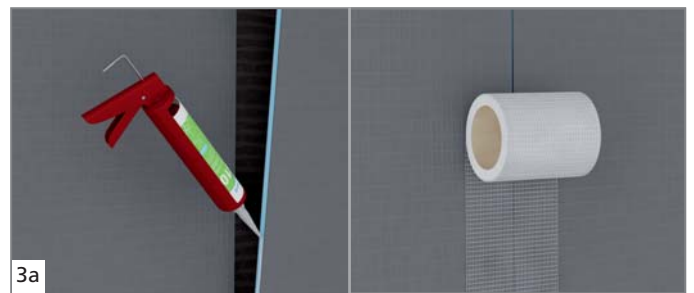
- wedi building board / building board *Premium*
- wedi 610 adhesive sealant
- wedi *Tools* self-adhesive reinforcement tape
- wedi *Tools* sealing tape



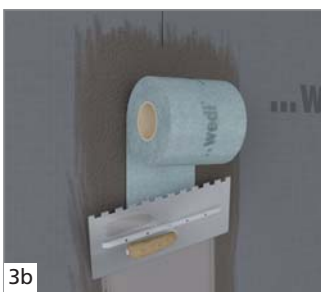
1 Clean the surfaces underneath before starting processing and, if applicable, apply a primer and level any present cavities.



2 Fix the building boards, applying tile cement all over and align. The transition to the tiles is carried out with wedi *Tools* reinforcement tape.



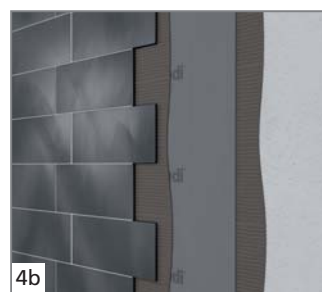
3a In wet areas, apply wedi 610 adhesive sealant to the joints. Then, the joints should be reinforced by using wedi *Tools* self-adhesive reinforcement tape.



3b Joints and holes can alternatively be sealed with wedi *Tools* sealing tape and tile adhesive.



4a Whether the building boards are only used on top of the old tiles or ...

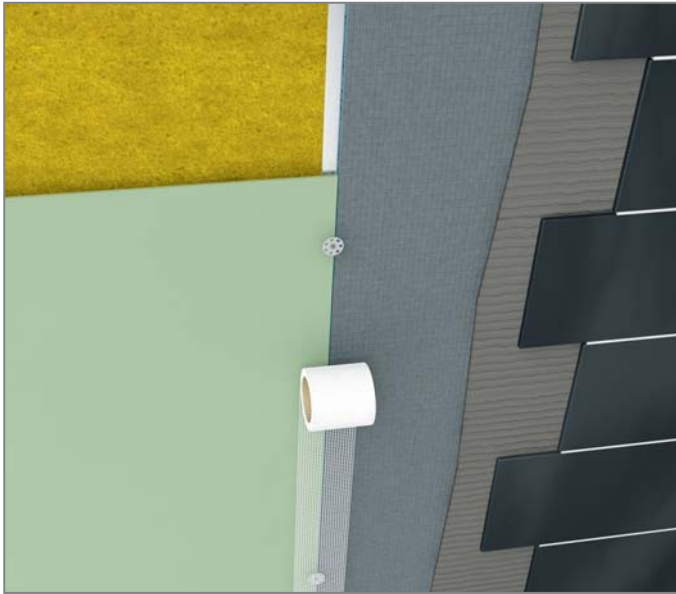


... are used on the whole surface, they can then be tiled on or plastered as normal.

i Please note: Detailed information on sealing is available in the wedi brochure "Sealing and decoupling".

The correct joint connection for use of wedi building board Premium can be found on page 5.

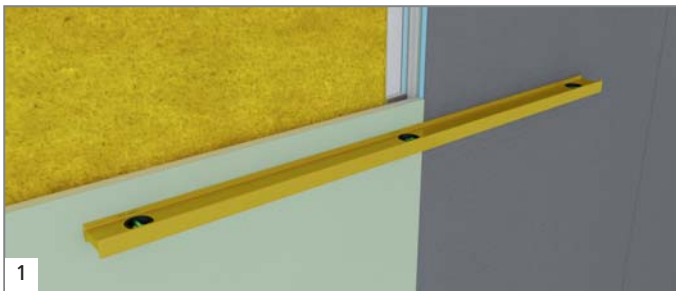
Flush transitions to plasterboard



wedi building boards with a thickness of 12.5 mm are a flush transition and very reasonable continuation of adjacent plasterboard surfaces in the splash water and wet areas of humid rooms. Contrary to common plasterboards, wedi building boards 12.5 mm – used together with the wedi Tools sealing tape – are impermeable to water and thermally-insulating, and do not require any additional waterproof coating. wedi building boards prevent the unpleasant feeling of cold walls in the shower area and reduce the build up of steam and condensation.

wedi system components:

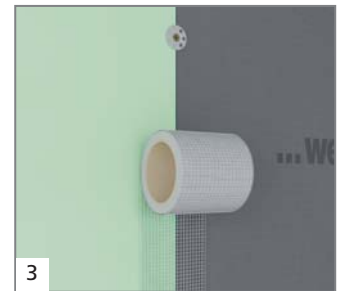
- wedi building board / building board *Premium*
- wedi *Tools* washers
- wedi *Tools* reinforcement tape



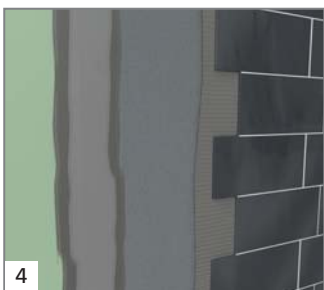
1 After cleaning the wall, align the wedi building board flush up to the plasterboard using a spirit level.



2 Fix the aligned wedi building board using wedi Tools washers and wood screws.



3 Apply wedi Tools reinforcement tape to the joints.

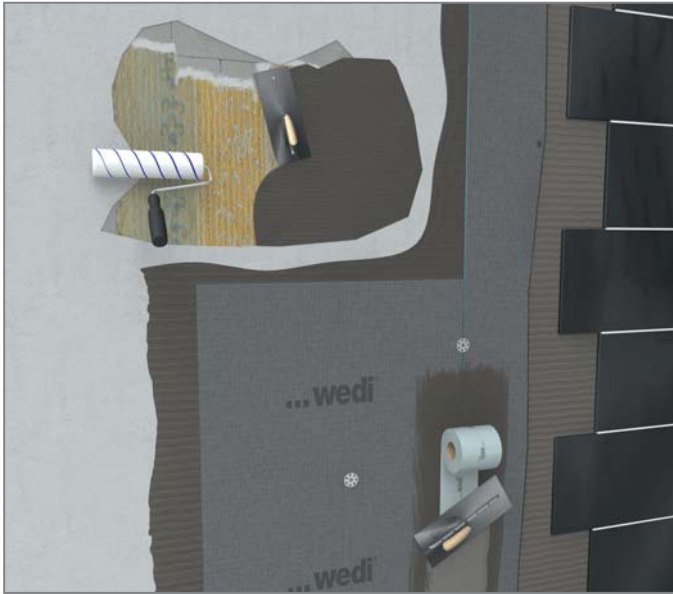


Please note:

The correct joint connection for use of wedi building board Premium can be found on page 5.

The tiling or plastering can then be carried out.

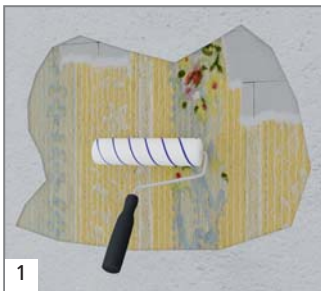
Surfaces with low load capacity



If the old substrates in rooms in need of renovation have only partial load-bearing capability (or none at all), wedi Tools metal or plastic dowels can be used for example, blocking surfaces or separating layers often fail to offer adequate adhesion for a new top covering. Making these substrates load-bearing would generally prove to be a very costly alternative. The wedi building board and matching system components offer a simple solution.

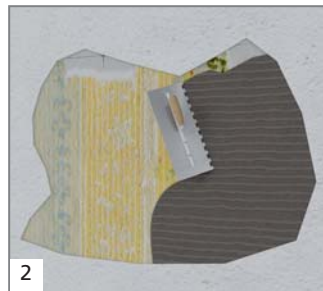
wedi system components:

- wedi building board / building board Premium
- wedi 610 adhesive sealant
- wedi Tools metal or plastic dowel
- wedi Tools sealing tape
- wedi Tools self-adhesive reinforcement tape



1

Clean the surfaces underneath before starting processing and, if applicable, apply a primer and level any present cavities.



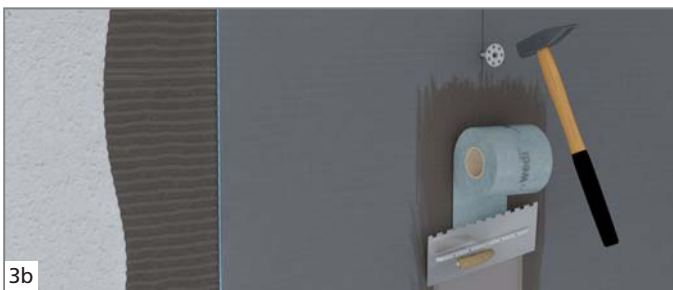
2

(Partial) levelling of the surface with a standard wall and floor repair filler.



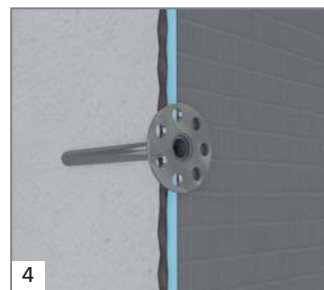
3a

Apply tile adhesive to the complete surface of the building boards and arrange them correctly. Hammer in the wedi Tools dowels to fix the boards. For a ceramic tile finish install 5 dowels per sqm. For natural stone install 8 dowels per sqm. Apply tile adhesive to all building board joints and install wedi Tools reinforcement tape.



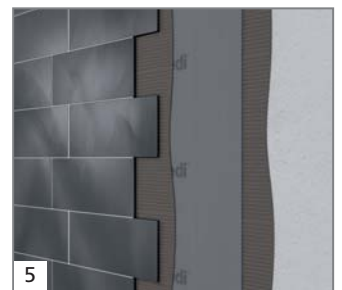
3b

Joints and holes can alternatively be sealed with wedi Tools sealing tape and tile adhesive.



4

The minimum dowel penetration depth into the load-bearing surface is 35 mm.



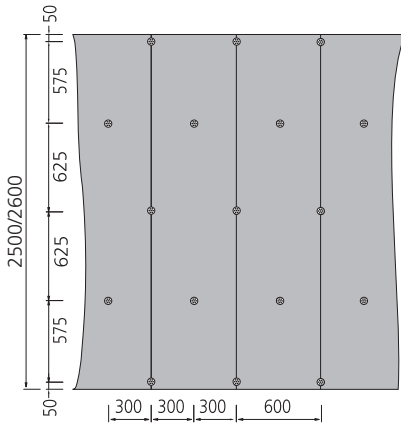
5

Then, install the top layer.

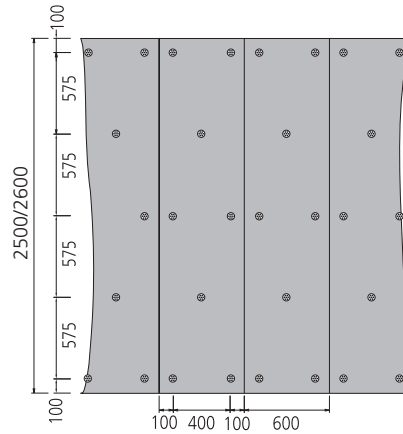
Please note:

Detailed information on sealing is available in the wedi brochure "Sealing and decoupling".

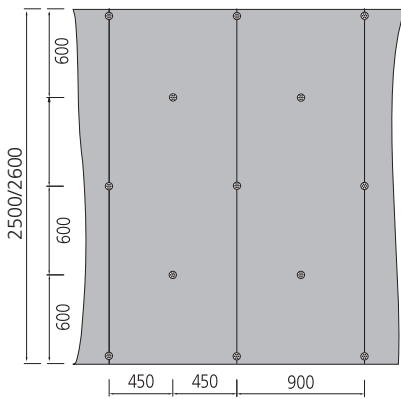
Arrangement of dowels and screws



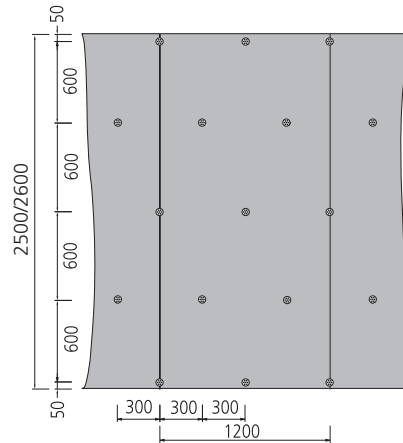
Application: full-surface bonding and dowelling from 4 mm.



Application: full-surface bonding and mortar from 20 mm.



Application: full-surface bonding and dowelling for BA 12.5; 20; 30; 50 mm.



Application: full-surface bonding and dowelling from BA 12.5.

i Please note:

Installation can also be made by horizontally allocate the building boards. Here, placement of dowels is identical.

The correct joint connection for use of wedi building board Premium can be found on page 5.

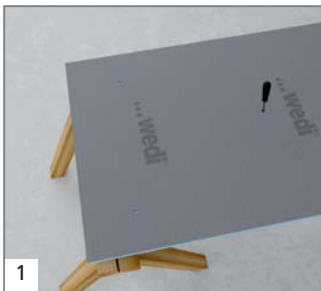
Uneven substrates



wedi building boards with a thickness of 20 mm or more are used on walls which are extremely uneven. Regardless of how old and dilapidated the old substrate is, you can create clean, even walls which offer lasting protection against moisture and insulate the room too.

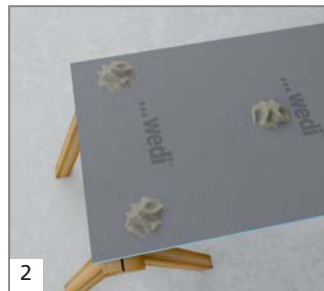
wedi system components:

- wedi building board / building board Premium
- wedi 240 Premium joint filler
- wedi Tools washers
- wedi 610 adhesive sealant
- wedi Tools self-adhesive reinforcement tape
- wedi Tools sealing tape
- wedi Tools metal or plastic dowel



1

Use a screwdriver to punch 8 holes (around 5 per sqm for ceramic tiles, increase to 8 per sqm for natural stone) in the wedi building board.



2

Then apply dabs of flexible medium-bed mortar over hole markings.



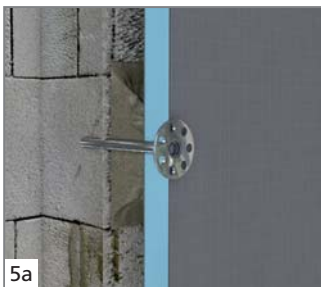
3

Position the building board on the wall; tap it with a rubber hammer and align it. Then, using a number 8 drill bit, drill through the board and the blobs of adhesive into the substrate behind.



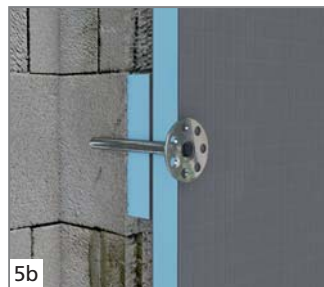
4

Push wedi Tools dowels through the blobs of adhesive and into the pre-drilled holes but do not hammer them in until the blobs of adhesive have hardened.



5a

The minimum dowel penetration depth in the load-bearing surface is 35 mm.



5b

In case of extreme unevenness in the substrate, offcuts of the building board can be used as packers.



6a

In dry areas, apply tile adhesive to all building board joints and embed wedi Tools reinforcement tape. Then tile or plaster as normal.



6b

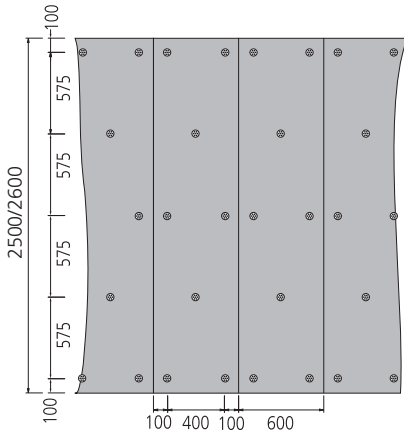
For wet areas, joints and holes can alternatively be sealed with wedi Tools sealing tape and tile adhesive.

Please note:

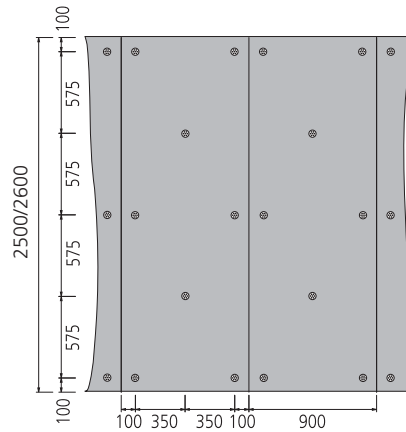
The blobs of mortar must not exceed the max. layer thickness of the mortar.

Detailed information on sealing is available in the wedi brochure "Sealing and decoupling".

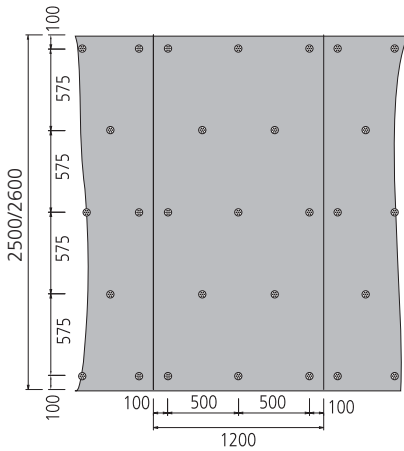
Arrangement of dowels and screws



Application: full-surface bonding and mortar from 20 mm.



Application: installation with dowel and blobs of mortar from 20 mm.



Application: installation with dowel and blobs of mortar from 20 mm.

i Please note:

The building boards can also be installed in a horizontal orientation.

Here, placement of dowels is identical.

The correct joint connection for use of wedi building board Premium can be found on page 5.

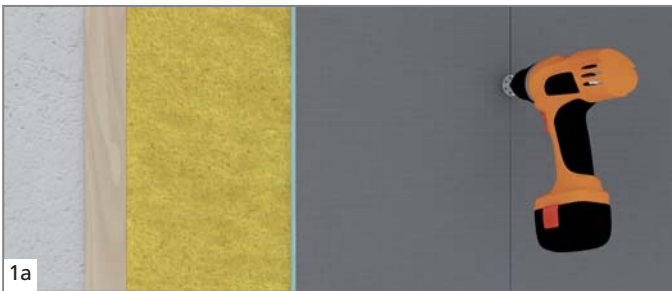
Wooden and metal frameworks



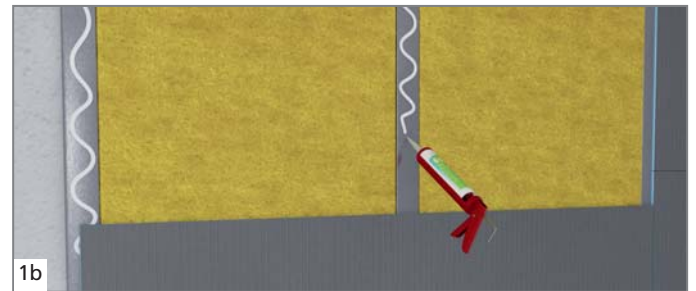
wedi building boards can also be used with wooden and metal frameworks. In such cases, wedi building boards with thicknesses of 10 mm or more are used to create a clean substrate for tiling, as well as a sturdy structure. To apply the wedi building board quickly and easily, a wooden or metal structure whose sections are perfectly perpendicular and flush should first be mounted on the load-bearing substructure. The maximum distance between the metal and wooden frameworks must not exceed 600 mm. When reducing the distance between the wooden and metal frameworks from 600 mm to 300 mm, boards with a thickness upwards of 10 mm or 12.5 mm can also be applied.

wedi system components:

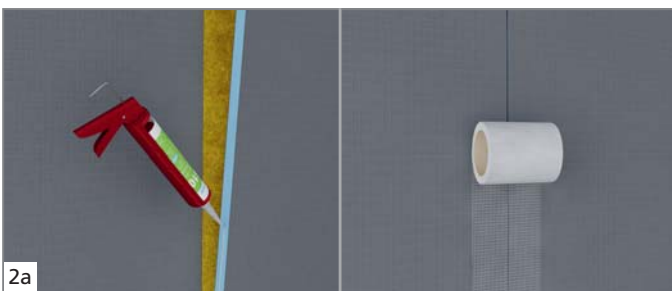
- wedi building board / building board *Premium*
- wedi building board XL/XXL
- wedi 240 *Premium* joint filler
- wedi 610 adhesive sealant
- wedi *Tools* washers
- wedi *Tools* self-adhesive reinforcement tape
- wedi *Tools* sealing tape



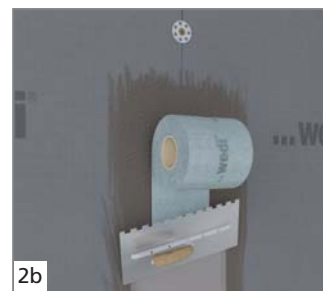
Use chipboard or drywall screws and wedi *Tools* washers to affix the building board to a wooden framework ...



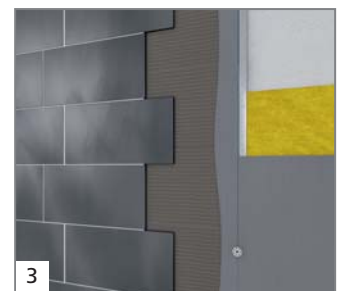
... or to a metal framework by using wedi 610 adhesive sealant.



In wet areas, apply wedi 610 adhesive sealant to the joints. Then, the joints should be reinforced by using wedi *Tools* self-adhesive reinforcement tape.



Joints and holes can alternatively be sealed with wedi *Tools* sealing tape and tile adhesive.

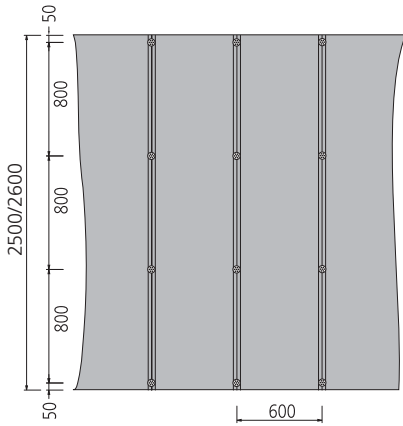


The tiling or plastering can then be carried out.

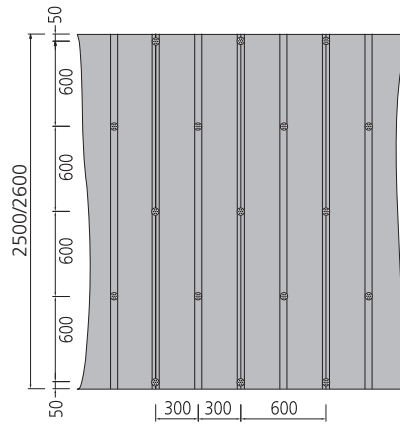
Please note:

For connection to plasterboards, the wedi product range also includes building boards with dimensions of 12.5 x 62.5 cm. Detailed information on sealing is available in the wedi brochure "Sealing and decoupling".

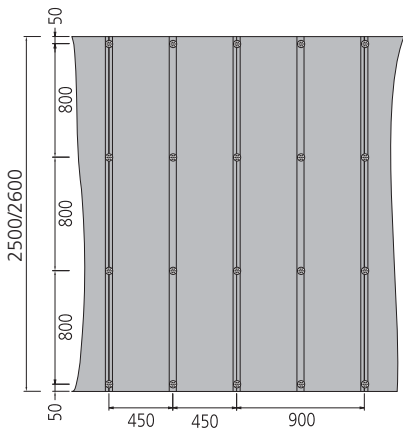
Arrangement of dowels and screws



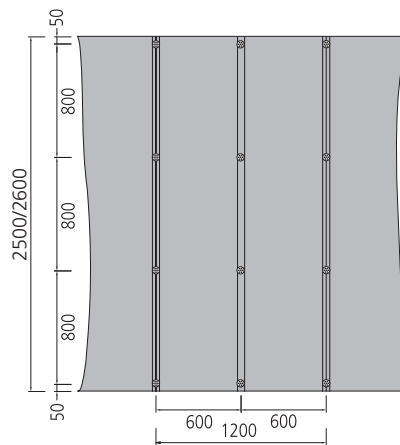
Application: 600 mm framework for BA 20mm.
Dimensions: 2500 x 600 mm



Application 300 mm framework for BA 10; 12.5 mm.
Dimensions: 2500 x 600 mm



Application 450 mm framework for building boards
from 12.5 mm. Dimensions: 2500 x 900 mm



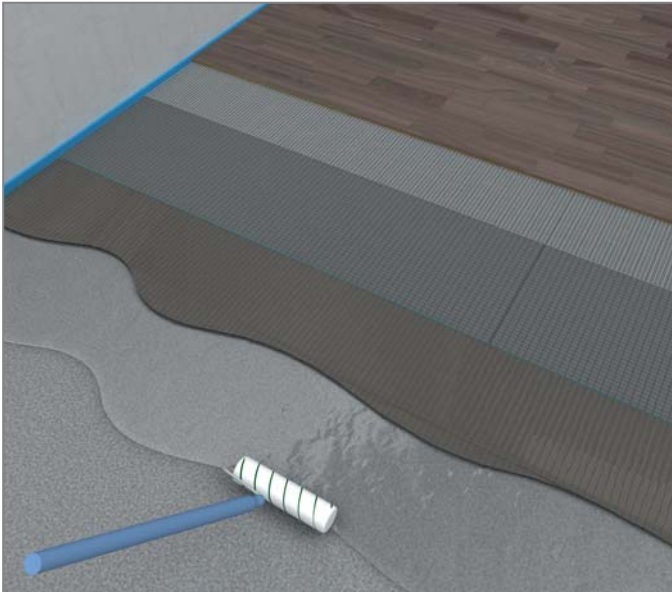
Application: 600 mm framework from 20 mm.
Dimensions: 2500 x 1200 mm

i Please note:

The building boards can also be installed
in a horizontal orientation.
Here, placement of dowels is identical.

The correct joint connection for use of wedi
building board Premium can be found on page 5.

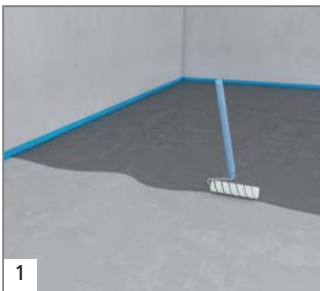
Installation on mineral substrates



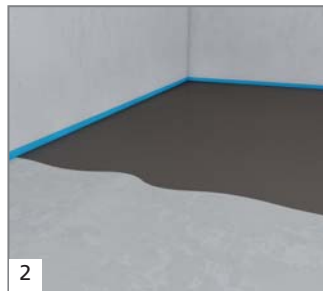
The substrate should be able to withstand the load and be cleaned of any mortar residue and dirt before you start to lay the wedi building boards. If necessary, treat the surface with primer. Eliminate unevenness. Newly created substrates should be adequately dried to ensure that the shrinkage process due to water-loss is completed before the wedi building board is fitted.

wedi system components:

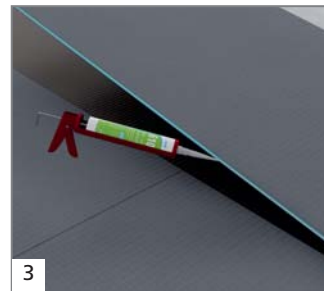
- wedi building board, all thicknesses / building board *Premium*, all thicknesses
- wedi 610 adhesive sealant
- wedi grout
- wedi *Tools* washers
- wedi *Tools* self-adhesive reinforcement tape 600 mm
- wedi *Tools* sealing tape



1
If necessary, prime the cement subsurface in advance and apply a perimeter isolation strip.



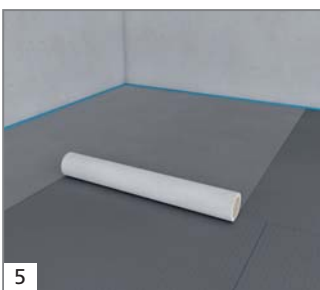
2
Apply tile adhesive to the substrate.



3
Apply wedi 610 adhesive sealant to the building board joints, if a sealing layer should be created in addition.



4
Embed the building board into the adhesive.



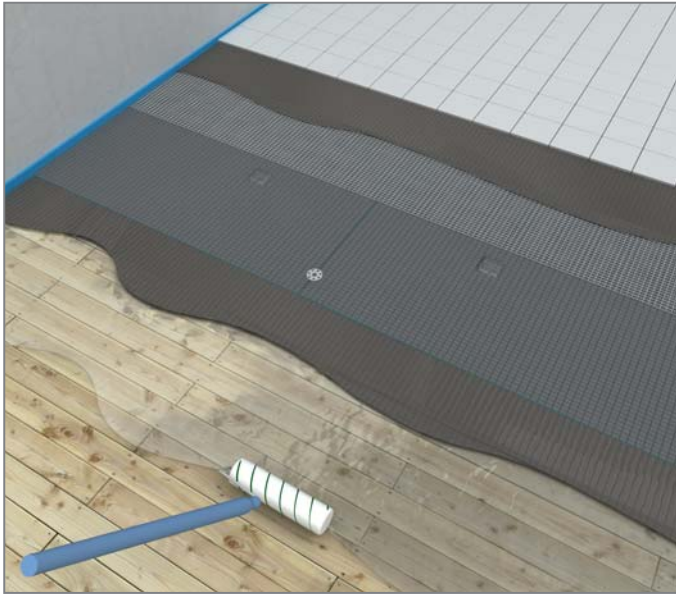
5
Affix a wide strip of wedi *Tools* self-adhesive reinforcement tape 600 mm with an overlap of approx. 5 cm. In wet areas, apply wedi *Tools* sealing tape to the building board to seal holes and joints.



6
Laminate or pre-fabricated flooring can be installed as a floating floor. For tiles, the following criteria applies: min. tile dimensions are 10 x 10 cm, and min. tile thickness is 7 mm.

i Please note:
Detailed information on sealing is available in the wedi brochure "Sealing and decoupling".

Wooden substrates



To ensure that you enjoy all the benefits of the wedi building board when used on wooden substrates, the following conditions should be met: The substrate should be rigid (not vibrating or sprung), be able to withstand the load, be dry, free of dirt and damaging infestation. Any unevenness should be eliminated.

wedi system components:

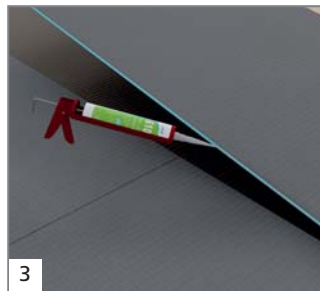
- wedi building board, all thicknesses / building board *Premium*, all thicknesses
- wedi 610 adhesive sealant
- wedi *Tools* self-adhesive reinforcement tape 600 mm
- wedi *Tools* washers
- wedi *Tools* sealing tape
- wedi grout



1 Prepare wooden floor with primer.



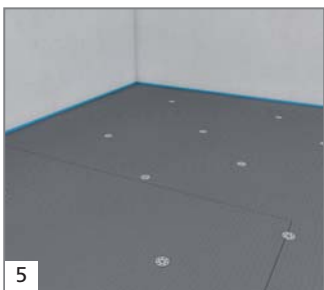
2 Apply tile adhesive to the wooden substrate.



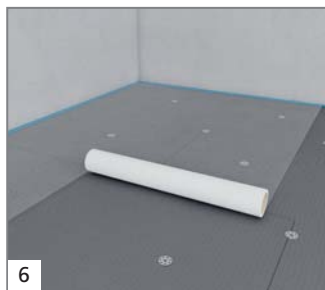
3 Apply wedi 610 adhesive sealant to the building board joints, if a sealing layer should be created in addition.



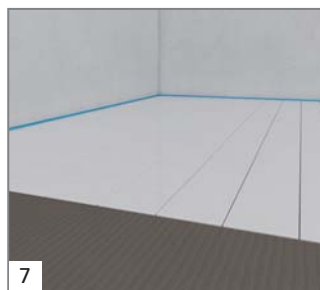
4 Place the building boards onto the adhesive ensuring board joints are staggered.



5 Once hardened, additional mechanical fixings are required to secure the building boards using wood screws (5 per sqm) and wedi *Tools* washers.



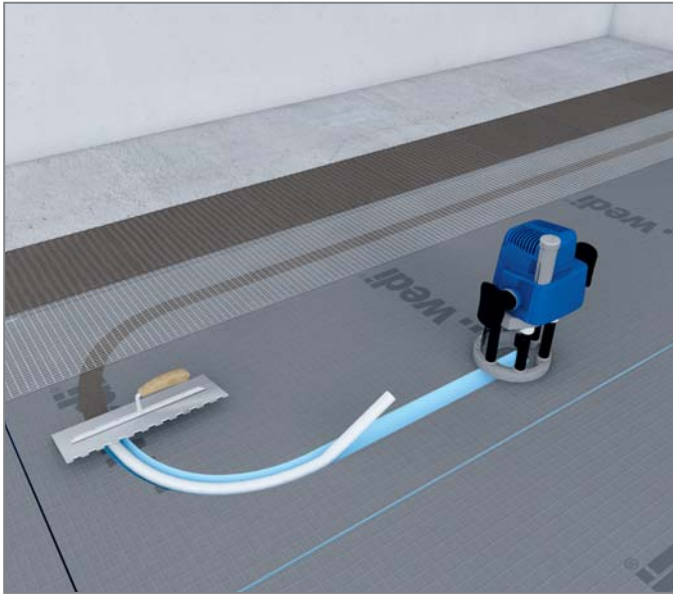
6 Affix a wide strip of wedi *Tools* self-adhesive reinforcement tape 600 mm. In wet areas, apply wedi *Tools* sealing tape to the building board to seal holes and joints.



7 Min. tile dimensions are 10 x 10 cm, and min. tile thickness is 7 mm.

i Please note:
Detailed information on sealing is available in the wedi brochure "Sealing and decoupling".

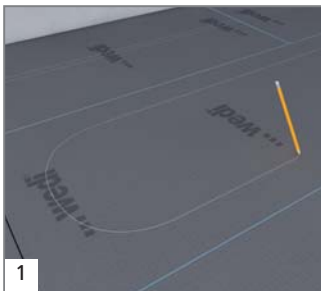
Wall and underfloor heating systems



wedi building boards are also ideally suited for use beneath underfloor heating systems. The building boards' good insulation properties keep the heat away from the ground and reflect it back up in to the room, irrespective of whether you have a hot-water heating system or an electrical design.

wedi system components:

- wedi building board / building board *Premium*
- wedi *Tools* self-adhesive reinforcement tape 600 mm
- wedi grout



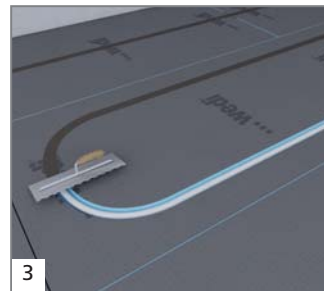
1

Draw ducts/grooves onto the wedi building board for installation of the heating system.



2

Cut grooves using the router. Cutting width should be the same as the pipe width; cutting depth should be at least 3 mm deeper.



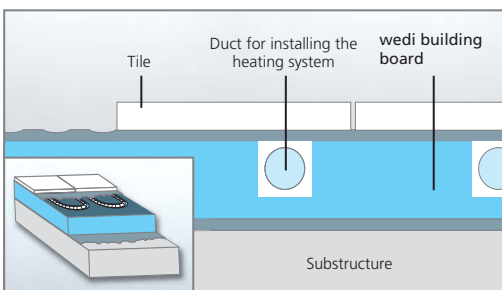
3

Install tubing into the groove. Fill tile adhesive into the pipe duct.

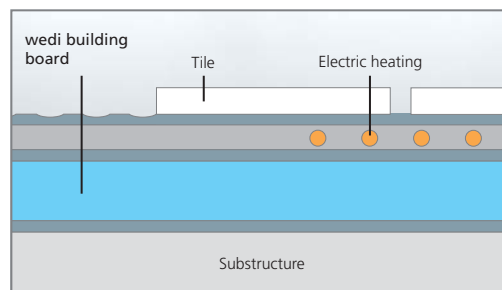


4

Apply self-adhesive wedi *Tools* reinforcement tape 600 mm onto the whole area. The tile dimension should not be min. 10 x 10 mm.



For hot-water systems, ducts can be cut into the building board and other wedi elements quickly and easily. The building board serves as a combined form of heat insulation and a base for installation.

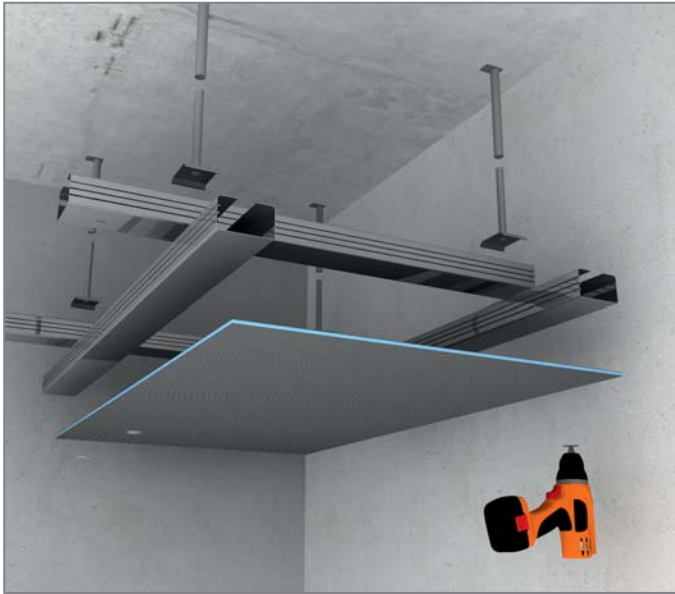


Electrical underfloor heating systems are easy to mount on the building board and downward heat loss is prevented, making the heating system noticeably more effective.

i Note on electric resistor heating:

Electric underfloor heating systems can be installed as per manufacturer's instructions onto already installed and reinforced elements (e.g. wedi building boards, Fundo floor elements, Sanoasa benches, Sanoasa loungers). Here, only heating systems approved for such area should be used.

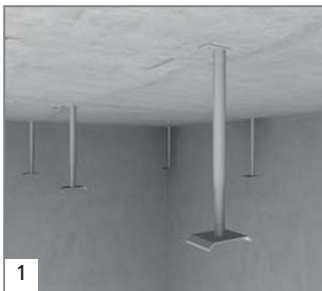
Levelling and suspension



Besides wall and floor applications, the versatile wedi building board can also be used for levelling and suspension of ceilings. Suspension height can be individually set during installation. For areas that require a fire barrier, additional backing material may need to be considered.

wedi system components:

- wedi building board / building board *Premium*
- wedi *Tools* washers
- wedi *Tools* metal dowel
- wedi 240 *Premium* joint filler
- wedi 610 adhesive sealant
- wedi *Tools* self-adhesive reinforcement tape



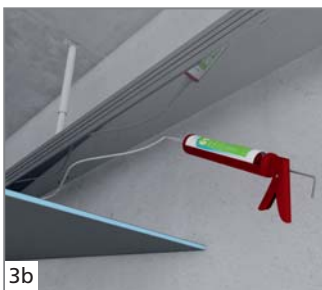
1
Install the ceiling suspension systems to the existing ceiling by using dowels, and set the desired suspension height.



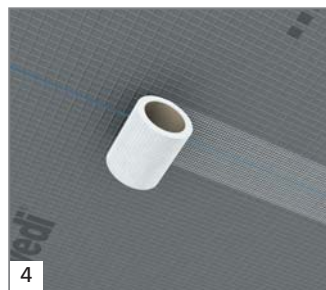
2
Install the corresponding profiles onto the already installed support.



3a
Screw-connect the building board by using wedi *Tools* washers. Placement of fixings is made on the basis of the requirements for wooden and metal frameworks.



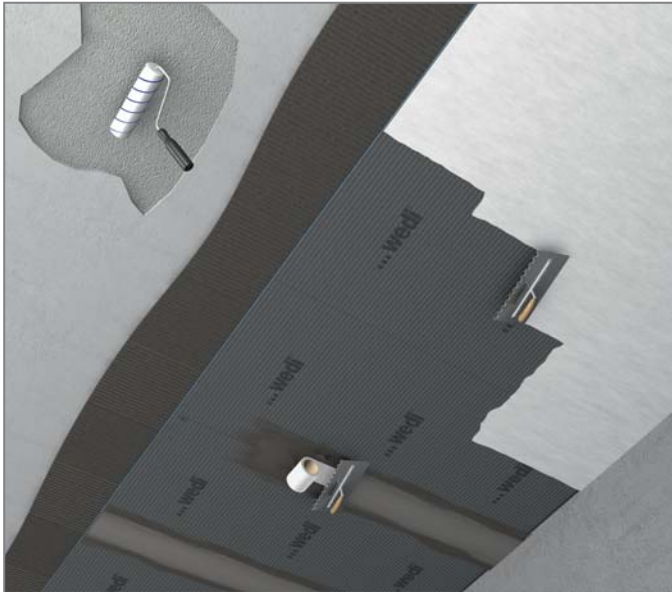
3b
Alternatively, the building boards can be bonded to the ceiling suspension system by using wedi 610 adhesive sealant.



4
Apply self-adhesive wedi *Tools* reinforcement tape to the board joints.

i Please note:
The correct joint connection for use of wedi building board Premium can be found on page 5.

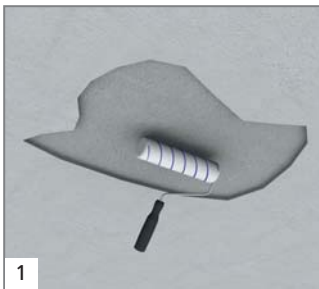
Ceilings with low load capacity



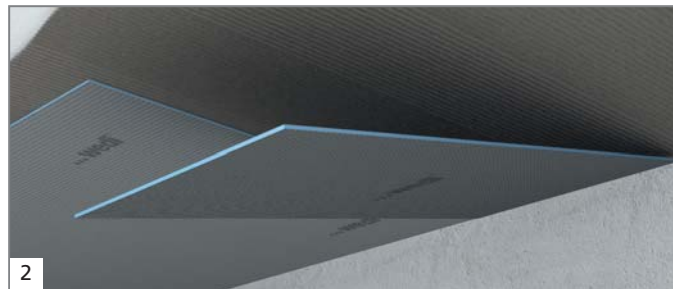
When people refurbish old bathrooms which are in need of renovation, they often have to consider what to do with the old ceiling coverings. wedi building boards offer simple solutions to this.

wedi system components:

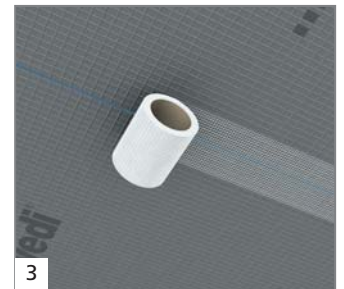
- wedi building board / building board *Premium*
- wedi 240 *Premium* joint filler
- wedi 610 adhesive sealant
- wedi *Tools* self-adhesive reinforcement tape
- wedi *Tools* sealing tape



1 Clean the surfaces underneath before starting processing and, if applicable, apply a primer and level any present cavities.



2 Fix the building boards, applying tile cement all over and align. Support the building boards until the adhesive has cured.



3 Apply wedi *Tools* reinforcement tape to the joints.

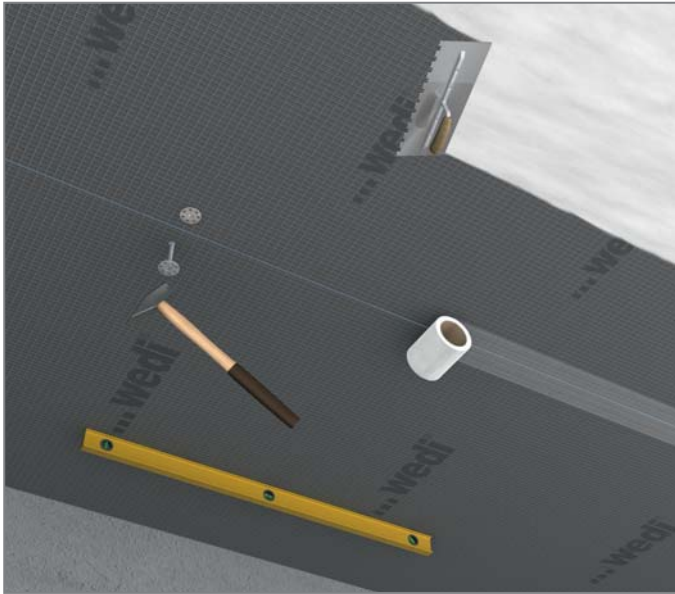


4 Finally, apply plaster, wallpaper or paint.

Please note:

The correct joint connection for use of wedi building board Premium can be found on page 5.

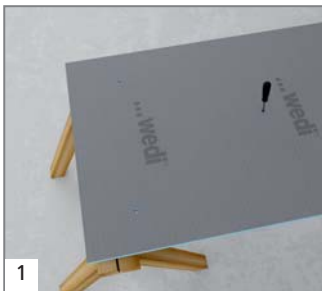
Uneven ceilings



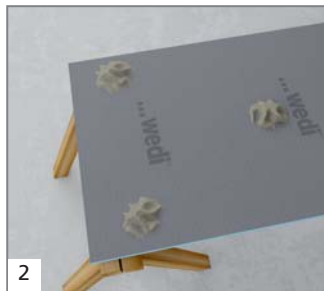
wedi building boards with a thickness of 20 mm or more are used on ceilings which are extremely uneven. Regardless of how old and dilapidated the old substrates are, you can create clean, even ceilings which offer lasting protection against moisture and insulate the room.

wedi system components:

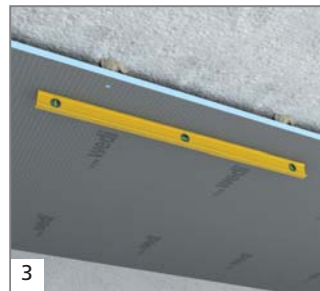
- wedi building board / building board Premium
- wedi 240 Premium joint filler
- wedi 610 adhesive sealant
- wedi Tools self-adhesive reinforcement tape
- wedi Tools washers
- wedi Tools metal dowel



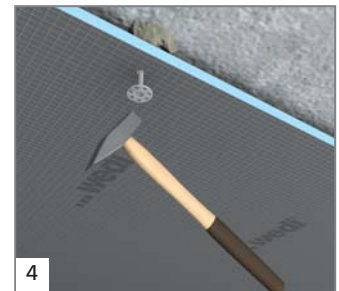
1 Use a screwdriver to punch 8 holes (around 5 per square metre) in a wedi building board.



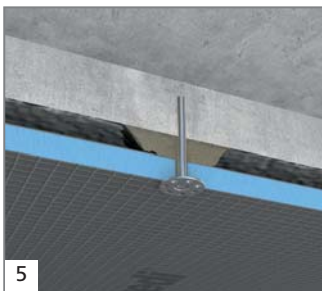
2 Then apply dabs of mortar made from flexible medium-bed mortar in line with the hole markings.



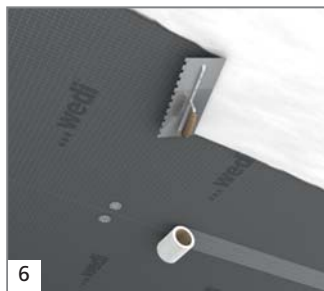
3 Position the building board on the ceiling; tap it with a rubber hammer and align it. Then drill with a number 8 drill bit through the board and the blobs of adhesive into the ceiling behind. Support the building boards until the adhesive has cured.



4 Push wedi Tools dowels through the blobs of adhesive and into the pre-drilled holes but do not hammer them in until the blobs of adhesive have hardened.



5 The minimum dowel penetration depth in the load-bearing surface is 35 mm.

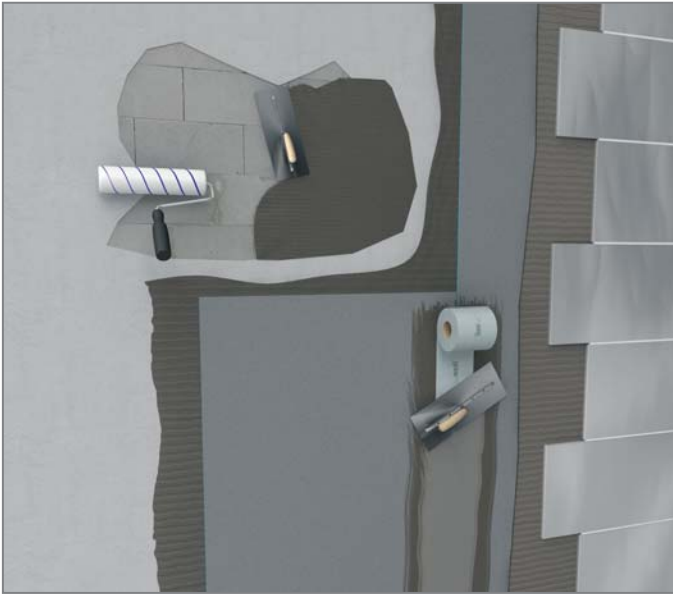


6 Apply wedi Tools reinforcement tape to all joints.

Please note:

The blobs of mortar must not exceed the max. layer thickness of the mortar.
The correct joint connection for use of wedi building board Premium can be found on page 5.

Special wet area with high levels of humidity



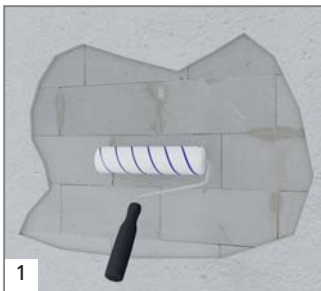
The wedi building board Vapor can be used as thermal insulation, sealing and – thanks to the factory-applied coating – also as vapour barrier in rooms with permanently increased humidity. Regardless of whether being used in private or public shower and wellness systems – in the field of walls and ceilings, the wedi building board Vapor is on of the best and most protective carrier elements available on the market. As a matter of fact, in can receive both a tile and plaster based finish.



wedi system components:

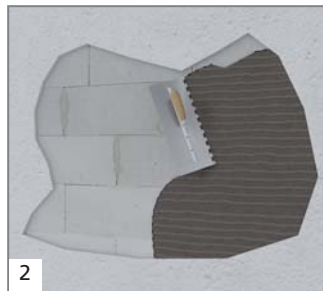
- wedi building board Vapor

- wedi Tools sealing tape



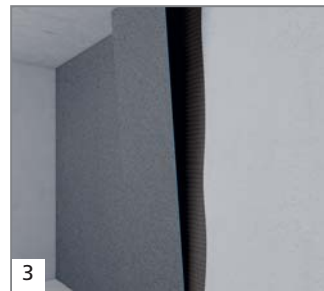
1

Clean the surfaces underneath before starting processing and prepare them with deep-penetrating primer or adhesive and bonding primer.



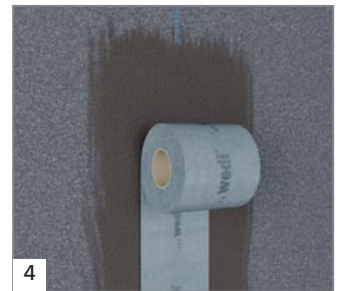
2

(Partial) levelling of the surface with a standard wall and floor repair filler.



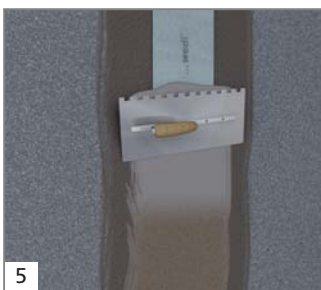
3

Fix the wedi building boards Vapor, sanded side outwards, applying tile cement all over and align.



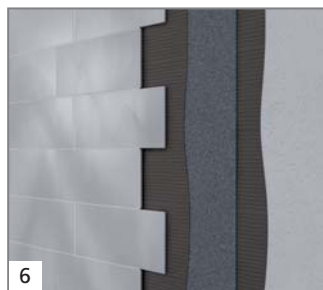
4

Apply epoxy-resin tile adhesive to the joints and install wedi Tools sealing tape.



5

Then cover with epoxy-resin tile adhesive and sand it with quartz sand.



6

The tiling or plastering can then be carried out.











Please note:

The wedi building board Vapor can also be used on mortar or frameworks.





-  wedi building board systems
-  wedi floor-level showers
-  wedi design elements
-  wedi sealing and decoupling

-  wedi wellness projects
-  wedi system chemistry
-  wedi practical auxiliaries
-  wedi support



wedi GmbH
Hollefeldstraße 51 · 48282 Emsdetten · Germany
Telephone +49 2572 156-0 · Fax +49 2572 156-133
info@wedi.de · www.wedi.eu

