Develop floor level showers

Things to know and technology

GB

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

Avis Technique 9+13/07-855 Secrétariat de la commission des Avis Techniques

Avis Technique 13/07-1021 Secrétariat de la commission des Avis Techniques

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Fundo *Primo / Trollo / Borgo / Nautilo*

General product description

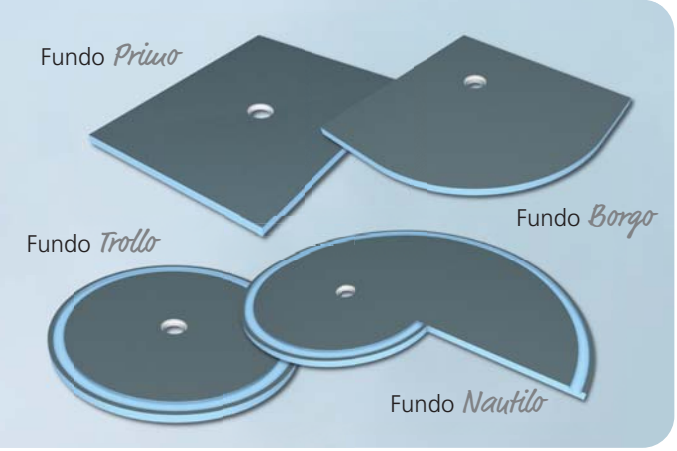
Floor-level shower element for direct tiling with horizontal or vertical floor drain for newly built and renovation projects.

Applications

- In domestic residential construction
- In publicly accessible buildings and workplaces complying with DIN 18040 part 1
- In accessible dwellings complying with DIN 18040 part 2 (note specifications for minimum tile size if wheelchair access is planned, see technical properties)
- As a construction seal combined with tile and natural stone coverings of load class A0, A and B (floors subject to moderate surface flowing water in interior areas; directly loaded floors in rooms in which tap or cleaning water is used very frequently or for long periods, 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.

Product properties

The wedi Fundo system can be installed on almost any surface as an individual tileable floor-level shower system. The system includes a sealed foam core with special coating, a specified surface slope as well as a perfectly-fitting system floor drain.



Form of delivery and storage

- Floor element and drain in separate boxes
- In principle the wedi Fundo system should be stored flat. It should be protected against direct sunlight and moisture.

Technical properties – Rigid foam

Extruded polystyrene rigid foam core	XPS
Long-term compressive strength (50 years) ≤ 2% compression EN 1606	0.08 N/mm²
Compressive resistance at 10% compression EN 826	0.25 N/mm²
Thermal conductivity EN 13164	0.036 W/mK
Bulk density EN 1602	32 kg/m³
Temperature limits	-50°C / +75°C
Fire behaviour/Building material class DIN 4102	B1
Fire behaviour EN 13501-1	E
Tested waterproof	1.5 bar

Technical properties – Drain

Special drain with odour trap and stainless steel cover. Frame can be adapted to tile thickness.
Frame with stainless steel grid available in the following dimensions: 95 x 95 mm, 120 x 120 mm, 142 x 142 mm, Ø 120 mm

Drain performance depending on the drain selected:	
Fundo drain Mini Max, horizontal, DN 40	0.54 l/s ; 32.4 l/min
Fundo drain, horizontal, DN 50	0.80 l/s ; 48.0 l/min
Fundo drain, vertical, DN 50	1.00 l/s ; 60.0 l/min
Fundo drain, vertical, DN 70	0.88 l/s ; 52.8 l/min

Fundo drain with fire protection collar as a pipe seal of fire resistance class R120, R90, R60 and R30 when fitted with components of fire resistance class F120, F90, F60 and F30 in accordance with DIN 4102-2. In the event of a fire, the intumescent material in the metal body expands at 150°C and closes the drain opening.

Installation specifications

Minimum cover thickness (concrete, reinforced concrete, porous concrete) 15 cm, minimum thickness wooden beam ceilings (in accordance with DIN 4102-4, section 5.3.3. of fire resistance class F30-B) 15 cm, core hole 160 mm or round sheath 157 – 177 mm. When connecting drain pipes within the fire protection collar, polypropylene "SML/HT pipe connectors" by Dallmer GmbH & Co. should be used (general technical approval at www.wedi.eu).

Technical properties – Fundo

Wheelchair load-bearing from minimum tile size	50 x 50 mm
Glass mosaic from 3 mm, minimum size	20 x 20 mm
Minimum foundation height depending on the drain:	
horizontal drain, DN 50	130 mm
horizontal drain Mini Max, DN 40	97 mm
vertical drain	40 mm
Surface slope (from outer edge of Fundo floor element to outer edge drain opening) (exception: Fundo Nautilo, 28 mm surface slope)	18 mm

For impact sound insulated floor structures, installation of impact sound insulation under wedi Fundo and perimeter isolation strips should be planned: Construction using wedi Nonstep Plan impact sound deadening boards (6 mm rubber granulate insulation element, $\Delta L_{w,R}$ = 14 dB in accordance with DIN 52210). Alternatively, approved polythene membranes may be used.

Permitted noise level in accordance with DIN 4109 LIn ≤ 30 dB(A) and in accordance with VDI 4100 SSt III ≤ 25 dB (A), caused by water installations: complied with using wedi Fundo and Nonstep Plan (see noise test report at www.wedi.eu)

wedi Fundo floor elements can be cut to size on site, but the geometry of the elements should be maintained.

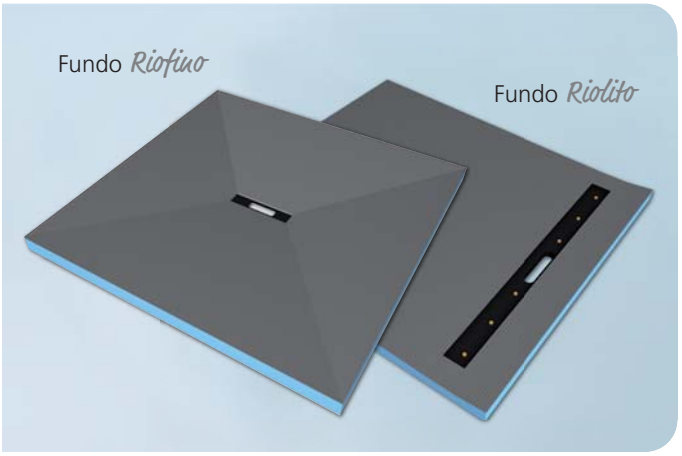
Fundo *Riolito / Riofino*

General product description

Floor-level shower element for direct tiling with horizontal or vertical floor drain for newly built and renovation projects.

Applications

- In domestic residential construction
- In publicly accessible buildings and workplaces complying with DIN 18040 part 1
- In accessible dwellings complying with DIN 18040 part 2 (note specifications for minimum tile size if wheelchair access is planned, see technical properties)
- As a construction seal combined with tile and natural stone coverings of load class A0, A and B (floors subject to moderate surface flowing water in interior areas; directly loaded floors in rooms in which tap or cleaning water is used very frequently or for long periods, 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.



Product properties

The wedi Fundo Riolito/Riofino system can be installed on almost any surface as an individual tileable floor-level shower system. The floor element (sealed foam, sealed special waterproof coating, specified slope) and a perfectly-fitting system floor drain and various channel covers.

Technical properties – Rigid foam

Extruded polystyrene rigid foam core	XPS
Long-term compressive strength (50 years) ≤ 2% compression EN 1606	0.08 N/mm²
Compressive resistance at 10% compression EN 826	0.25 N/mm²
Thermal conductivity EN 13164	0.036 W/mK
Bulk density EN 1602	32 kg/m³
Temperature limits	-50°C / +75°C
Fire behaviour/Building material class DIN 4102	B1
Fire behaviour EN 13501-1	E
Waterproof tested to	1.5 bar

Installation specifications

Minimum cover thickness (concrete, reinforced concrete, porous concrete) 15 cm, minimum thickness wooden beam ceilings (in accordance with DIN 4102-4, section 5.3.3. of fire resistance class F30-B) 15 cm, core hole 160 mm or round sheath 157 – 177 mm. When connecting drain pipes within the fire protection collar, polypropylene "SML/HT pipe connectors" by Dallmer GmbH & Co. should be used (general technical approval at www.wedi.eu).

Technical properties – Fundo Riolito / Riofino

Wheelchair load-bearing from minimum tile size	50 x 50 mm
Glass mosaic from minimum size	20 x 20 mm
Minimum foundation height depending on the drain:	
horizontal drain, DN 50	130 mm
vertical drain, DN 50	50 mm
Surface slope (from outer edge of Fundo Riolito / Riofino floor element to outer edge of drain opening)	15 mm

For impact sound insulated floor structures, installation of impact sound insulation under wedi Fundo and perimeter isolation strips should be planned: Construction using wedi Nonstep Plan impact sound deadening boards. Alternatively, approved polythene membranes may be used.

wedi Fundo Riolito / floor elements can be cut to size on site, but the geometry of the elements should be maintained and they should not be shortened by more than 30 mm on the inside of the channel.

Technical properties – Drain

Sealed, built-in channel drain with drain base and odour trap. Channel cover can be adapted to tile size.

The Fundo Riolito / Riofino are available with channels in the following lengths / widths:	300 mm/40 mm
	700 mm/40 mm
	800 mm/40 mm
	900 mm/40 mm
	1100 mm/40 mm
Drain performance depending on the drain selected:	
Fundo Riolito/Riofino drain, horizontal, DN 50	0.80 l/s ; 48.0 l/min
Fundo Riolito/Riofino drain, vertical, DN 50	1.12 l/s ; 67.2 l/min
Fundo Riolito/Riofino drain, horizontal, DN 40 Minimax	0.40 l/s ; 24 l/min

The channel covers are available in three models: standard, deluxe and tileable.

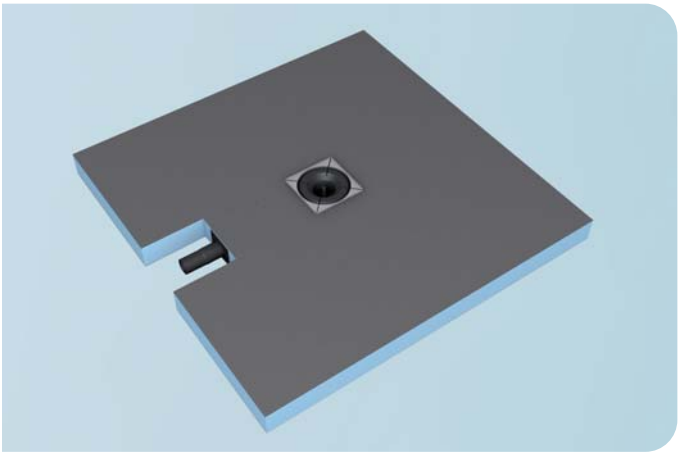
Technical data of drain covers (structural heights)

wedi Fundo Riolito standard	4.5 to 14.5 mm
wedi Fundo Riolito deluxe	3.5 to 13.5 mm
wedi Fundo Riolito tileable	7 to 20 mm
wedi Fundo Riofino standard	4.5 to 14.5 mm
wedi Fundo Riofino deluxe	3.5 to 13.5 mm
wedi Fundo Riofino tileable	7 to 20 mm

Fundo *Plano*

General product description

Floor-level shower element for direct tiling with integrated horizontal floor drain. For newly built and renovation projects, and particularly suitable for refurbishment of old buildings.



Applications

- In domestic residential construction
- In publicly accessible buildings complying with DIN 18040 part 1
- In accessible dwellings complying with DIN 18040 part 2 (Please note specifications for minimum tile size if wheelchair access is planned, see technical properties)
- As a construction seal combined with tile and natural stone coverings of load class A0. There should be an additional sealing for load class A. More info available at www.wedi.eu

Product properties

wedi Fundo Plano can be installed on almost any surface as an individual tileable floor-level shower system. The system includes: a waterproof rigid-foam core with a special, resistant and glass fibre-reinforced mortar coating as well as preset surface slope and very thin, integrated horizontal drain.

Surface requirements, processing

Information on processing and surface requirements can be found in fitting instructions (see www.wedi.eu).

Technical properties – Rigid foam

Extruded polystyrene rigid foam core	XPS
Long-term compressive strength (50 years) ≤ 2% compression EN 1606	0.08 N/mm²
Compressive resistance at 10% compression EN 826	0.25 N/mm²
Thermal conductivity EN 13164	0.036 W/mK
Bulk density EN 1602	32 kg/m³
Temperature limits	-50°C / +75°C
Fire behaviour/Building material class DIN 4102	B1
Fire behaviour EN 13501-1	E
Waterproof tested to	1.5 bar

Technical properties – Drain

Special drain with odour trap and stainless steel cover integrated into the Fundo floor element.

Frame for installation of stainless steel grid (fixed in element)	136 x 136 x 8 mm
Stainless steel grid	132 x 132 mm
Grid support frame	136 x 136 x 24.7 mm
Drain capacity	0.50 l/s ; 30 l/min

Technical properties – Fundo Plano

Wheelchair load-bearing from minimum tile size	50 x 50 mm
Minimum foundation height	65 mm
Surface slope (from outer edge of Fundo floor element to outer edge of drain opening)	≥ 2.4 %

wedi Fundo floor elements can be cut to size on site, but the geometry of the elements should be maintained.

Fundo *Ligno*

General product description

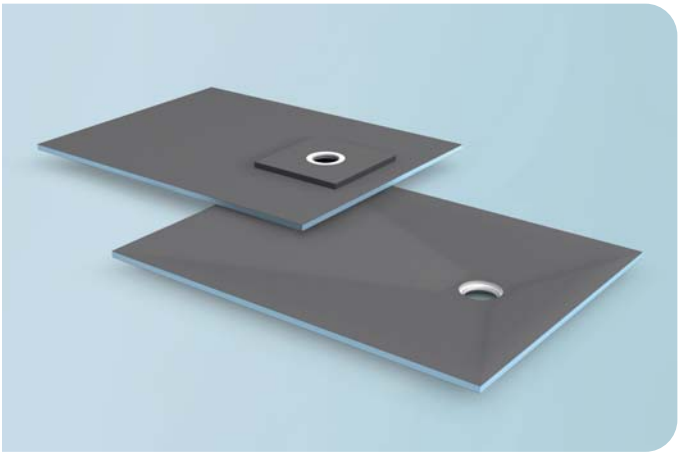
Floor-level shower element for direct tiling with horizontal or vertical floor drain for new build and renovation projects. For installation on or in suspended timber floors.

Applications

- In domestic residential construction
- In publicly accessible buildings and workplaces complying with DIN 18040 Part 1
- In accessible dwellings complying with DIN 18040 Part 2 (note specifications for minimum tile size if wheelchair loading is planned, see technical properties)
- As a construction seal combined with tile and natural stone coverings of load class A0 (floors subject to moderate surface flowing water in interior areas; directly loaded floors in rooms). More information is available at www.wedi.eu

Product properties

The wedi Fundo system can be installed on almost any surface as an individual, tileable, floor-level shower system. The system includes a sealed foam core with special coating, a specified surface slope as well as a custom-fit system floor drain. Thanks to its special design, the Fundo Ligno is especially suitable for suspended timber floors or timber floors. It adds a mere 20 mm in the edge area.



Surface requirements, processing

Information on processing and surface requirements can be found in the wedi "Building systems" brochure and installation instructions (see www.wedi.eu).

Technical properties – Rigid foam

Extruded polystyrene rigid foam core	XPS
Long-term compressive strength (50 years) ≤ 2% compression EN 1606	0.08 N/mm²
Compressive resistance at 10% compression EN 826	0.25 N/mm²
Thermal conductivity EN 13164	0.036 W/mK
Bulk density EN 1602	32 kg/m³
Temperature limits	-50°C / +75°C
Fire behaviour/Building material class DIN 4102	B1
Fire behaviour EN 13501-1	E
Waterproof tested to	1.5 bar

Technical properties – Fundo

Wheelchair load-bearing from minimum tile size	50 x 50 mm
Glass mosaic from minimum size	20 x 20 mm
Minimum foundation height depending on the drain:	
horizontal drain, DN 50	130 mm
horizontal drain Minimax, DN 40	97 mm
vertical drain	40 mm
Surface slope (from outer edge of Fundo floor element to outer edge drain opening) (exception: Fundo Nautilo, 28 mm surface slope)	18 mm
Fire behaviour DIN 4102	B2

wedi Fundo Riolito floor elements can be cut to size on-site, but the geometry of the elements should be maintained.

wedi Fundo elements can only be combined with the wedi Fundo drains.

Technical properties – drain

Special drain with odour trap and stainless steel cover. Frame can be adapted to tile thickness.

Frame with stainless steel grid available in the following dimensions:	95 x 95 mm
	120 x 120 mm
	142 x 142 mm
	Ø 120 mm
Drain performance depending on the drain selected:	
Fundo drain Minimax, horizontal, DN 40	0.54 l/s ; 32.4 l/min
Fundo drain, horizontal, DN 50	0.80 l/s ; 48.0 l/min
Fundo drain, vertical, DN 50	1.00 l/s ; 60.0 l/min
Fundo drain, vertical, DN 70	0.88 l/s ; 52.8 l/min

Fundo drain with fire protection collar as a pipe seal of fire resistance class R120, R90, R60 and R30 when fitted with components of fire resistance class F120, F90, F60 and F30 in accordance with DIN 4102-2. In the event of a fire, the intumescent material in the metal body expands at 150°C and closes the floor opening.

Installation specifications

Minimum floor thickness (concrete, reinforced concrete, porous concrete) 15 cm, minimum thickness of suspended timber floors (in accordance with DIN 4102-4, section 5.3.3., of fire resistance class F30-B) 15 cm, core hole 160 mm or round sheath 157 – 177 mm. When connecting drain pipes within the fire protection collar, polypropylene "SML/HT pipe connectors" from Dallmer GmbH & Co. should be used (general approval from the building authorities at www.wedi.eu).

Fundo *Riolito Discreto*

General product description

Attachment element for Riolito, for creation of wall drain solution.

Applications

The fields of application described here apply in connection with the use of a wedi Fundo Riolito floor element

- In domestic residential construction
- In publicly accessible buildings complying with DIN 18040 part 1
- In accessible dwellings complying with DIN 18040 part 2 (note specifications for minimum tile size if wheelchair access is planned, see technical properties)
- As a construction seal combined with tile and slab coverings of load class A0, and A (floors subject to moderate surface flowing water in interior areas; directly loaded floors in rooms in which tap water or cleaning water is used very frequently or for long periods). More info available at www.wedi.eu

Product properties

With Fundo Riolito Discreto, the drain of the Riolito can be integrated into existing building walls as well as drywall installations and other superstructure situations such as benches, wall niches and steps. This way, a wall-flush drain situation can be created. The height of the Fundo Riolito Discreto element can be cut. The system includes:

a moulded plastic part integrated into a wedi building board that is exactly adapted to the Riolito drain and can be easily mounted onto such a unit.

Surface requirements, processing

The substrate should be a Riolito element. For further information on processing, please refer to the installation instructions (www.wedi.eu).

Technical properties – Rigid foam

Extruded polystyrene rigid foam core	XPS
Long-term compressive strength (50 years) ≤ 2% compression EN 1606	0.08 N/mm²
Compressive resistance at 10% compression EN 826	0.25 N/mm²
Thermal conductivity EN 13164	0.036 W/mK
Bulk density EN 1602	32 kg/m³
Temperature limits	-50°C / +75°C
Fire behaviour/Building material class DIN 4102	B1
Fire behaviour EN 13501-1	E
Waterproof tested to	1.5 bar

Technical properties

Cover made of V_2A stainless steel, both sides can be used (1st side: brushed surface, 2nd side: can be tiled). It can be set to a tile thickness of 5 to 20 mm (wall and floor). Adjustment is made with a stencil (included in scope of delivery). The whole element width corresponds to the Riolito width.

Distance of floor tile and cover	7 mm
Dimensions of cover (length x height x thickness)	690 x 70 x 20 mm 790 x 70 x 20 mm 890 x 70 x 20 mm
Installation depth, horizontal	150 mm
Structural height on Riolito	180 mm (can be cut to 150 mm)

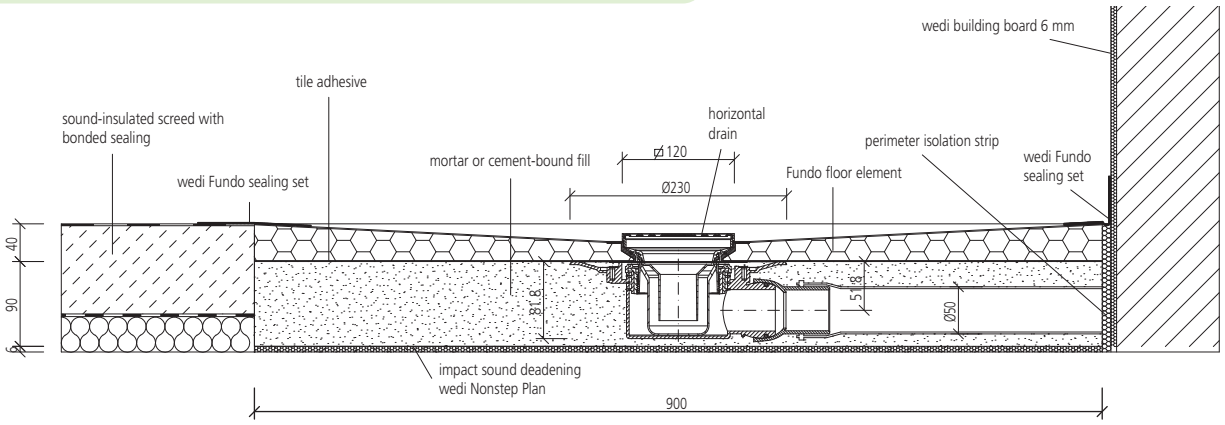
Designation	**Length x width x height**	**Drain length**
Fundo Riolito Discreto, attachment element	800 x 180 x 76 mm	700 mm ①
Fundo Riolito Discreto, attachment element	900 x 180 x 76 mm	800 mm ②
Fundo Riolito Discreto, attachment element	1000 x 180 x 76 mm	900 mm ③
Designation	**Length x width x height**	**Drain length**
Fundo Riolito, floor element	900 x 800 x 50 mm	700 mm ①
Fundo Riolito, floor element	1200 x 800 x 50 mm	700 mm ①
Fundo Riolito, floor element	900 x 900 x 50 mm	800 mm ②
Fundo Riolito, floor element	1200 x 900 x 50 mm	800 mm ②
Fundo Riolito, floor element	900 x 1000 x 50 mm	900 mm ③
Fundo Riolito, floor element	1200 x 1000 x 50 mm	900 mm ③

• The numbers ①, ② and ③ stand for the corresponding combination versions with Fundo Riolito.

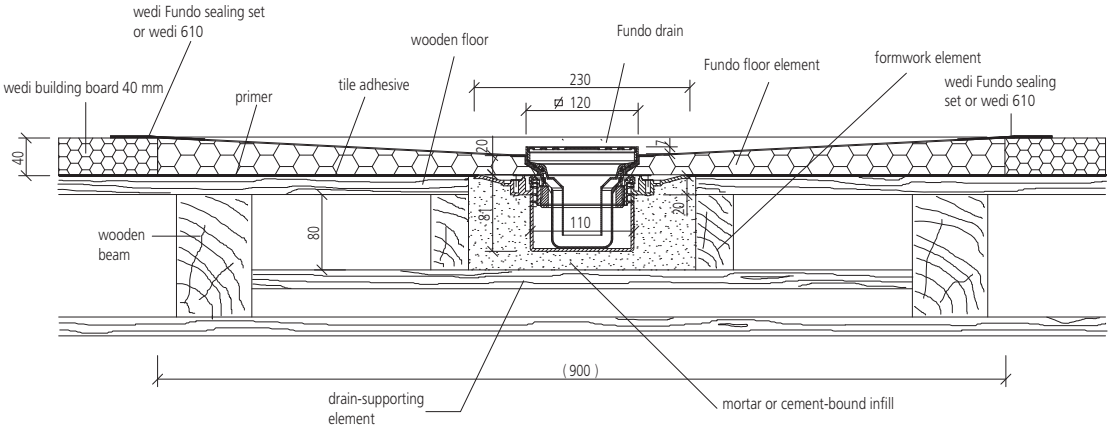
wedi Fundo Riolito floor elements can be cut to size on site, but the geometry of the elements should be maintained.

Drain versions for Fundo floor elements

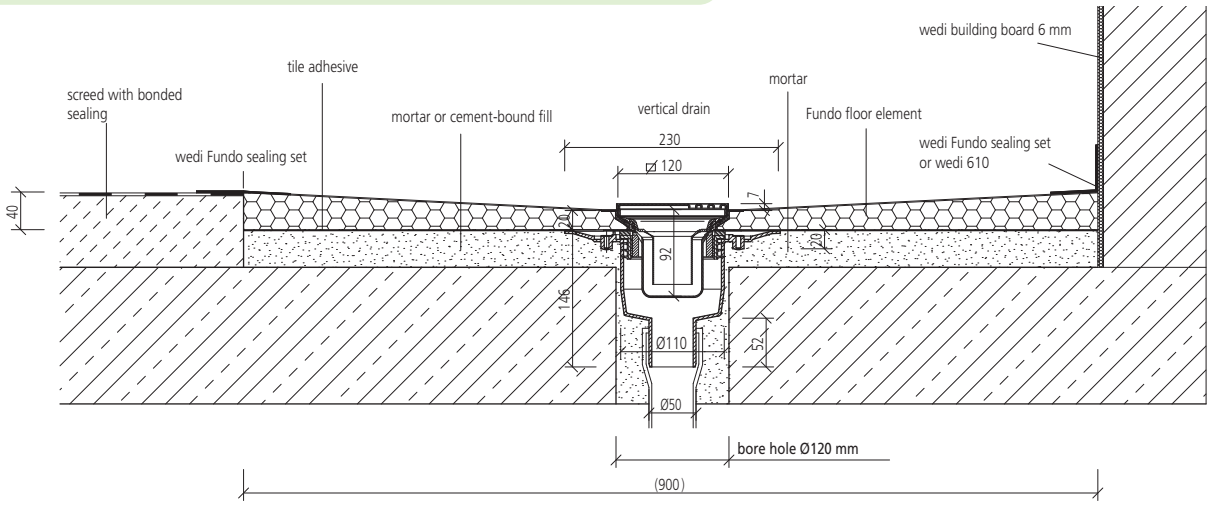
Fundo drain, horizontal, DN 50, screed floor



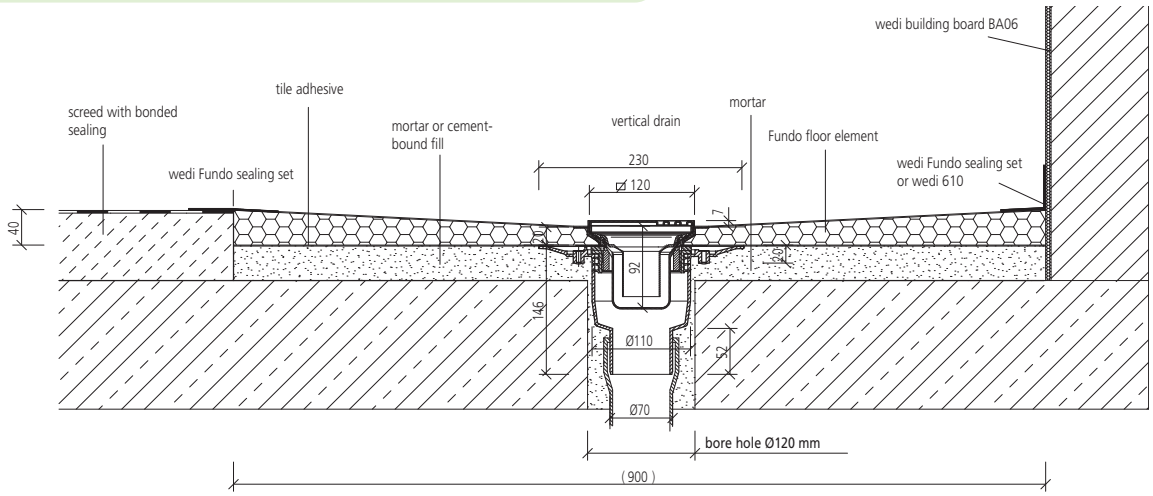
Fundo drain, horizontal, DN 50, wooden floor



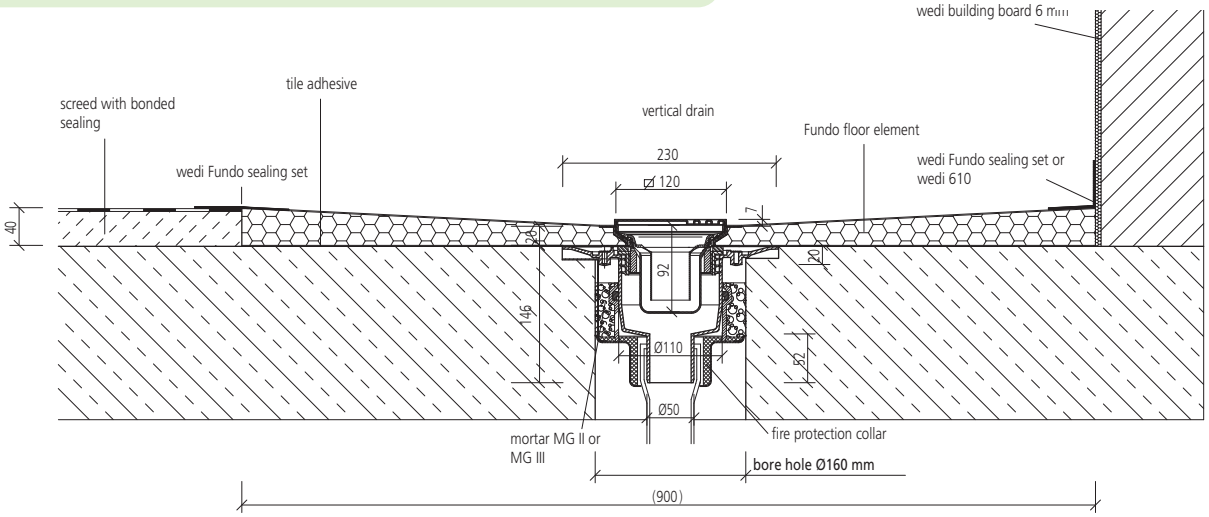
Fundo drain, vertical, DN 50, screed floor



Fundo drain, vertical, DN 70, screed floor

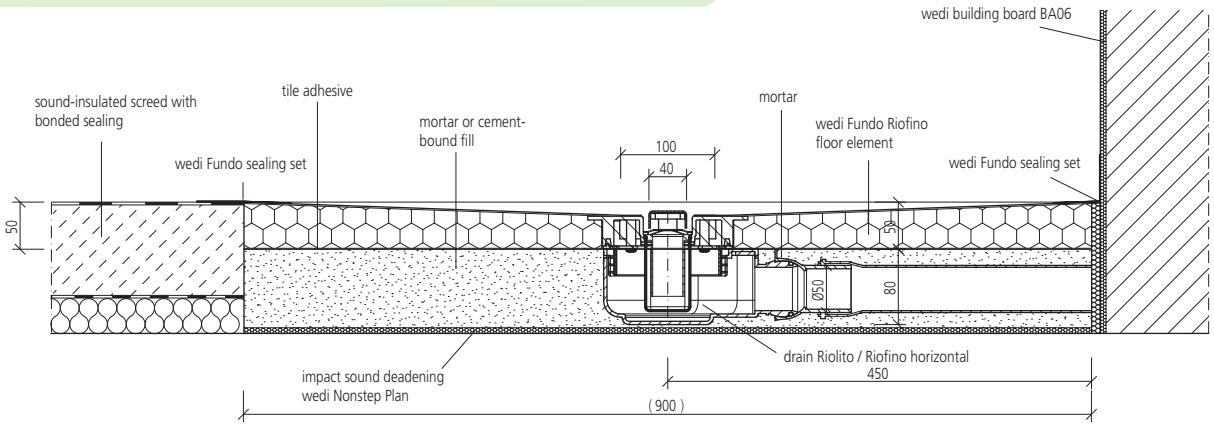


Fundo drain, vertical, DN 50, with fire protection collar, screed floor

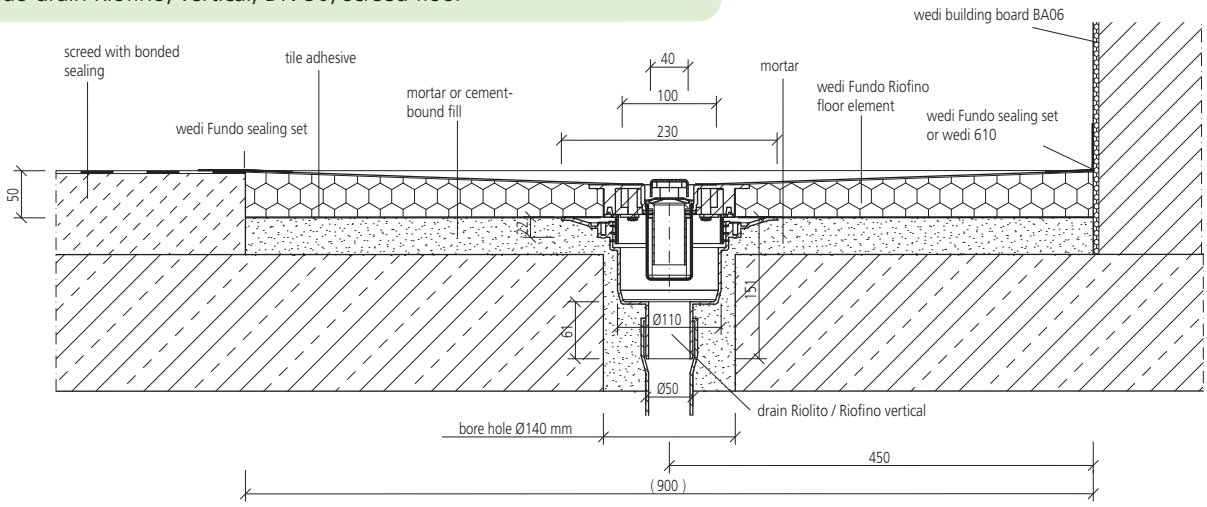


Drain versions for Fundo floor elements

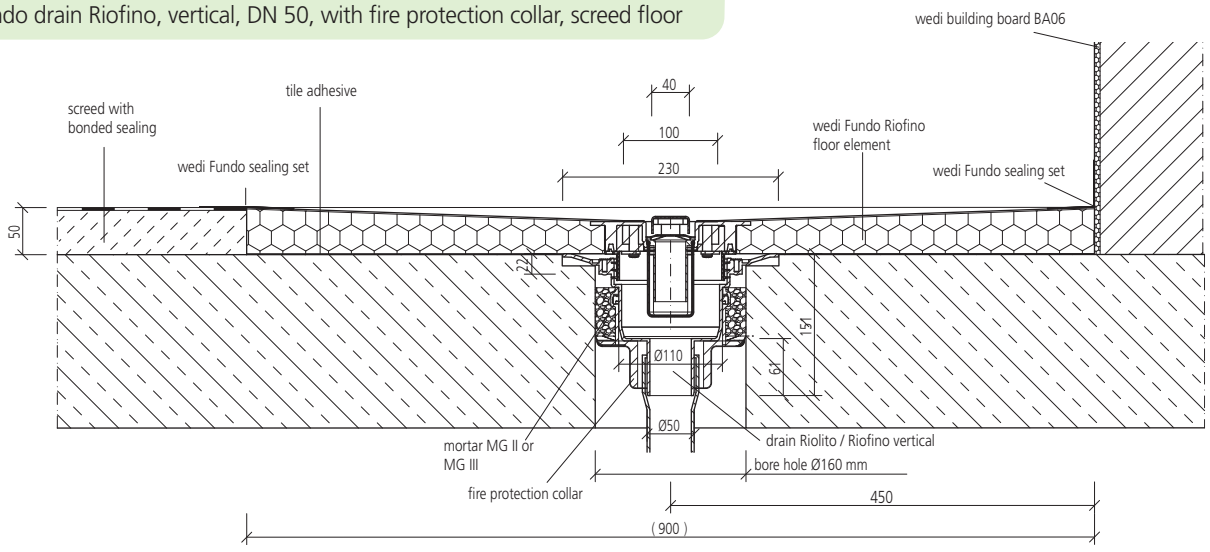
Fundo drain Riofino, horizontal, DN 50, screed floor



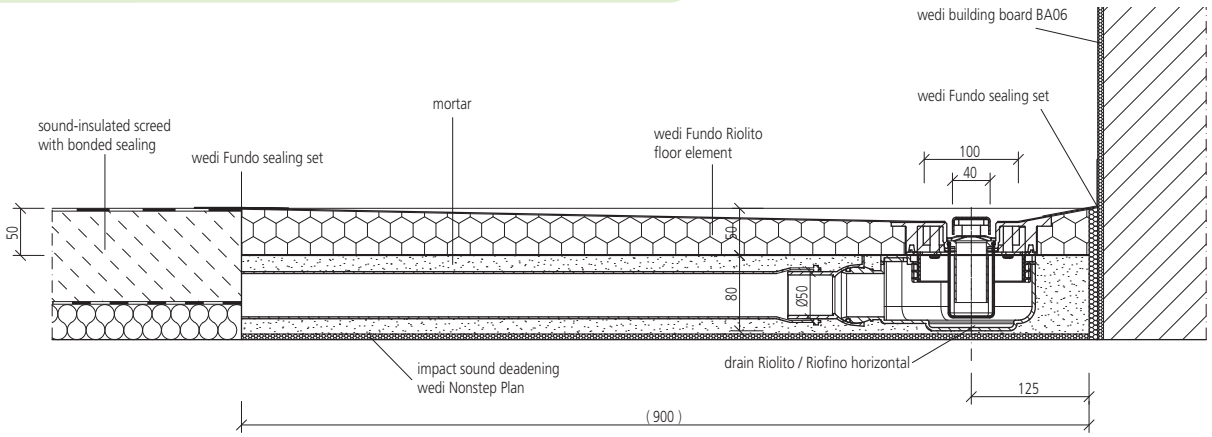
Fundo drain Riofino, vertical, DN 50, screed floor



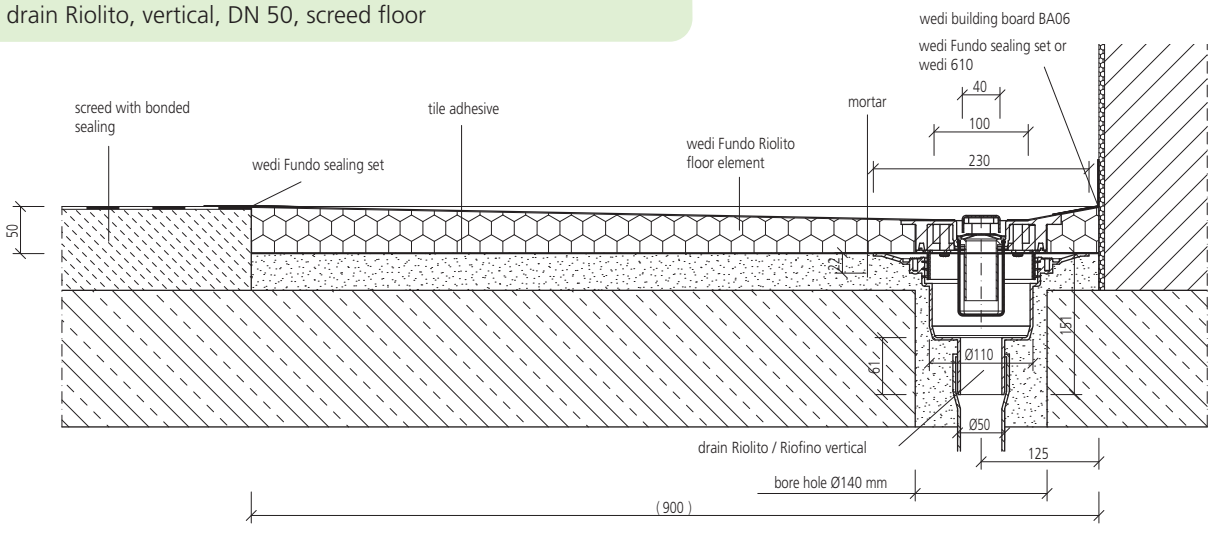
Fundo drain Riofino, vertical, DN 50, with fire protection collar, screed floor



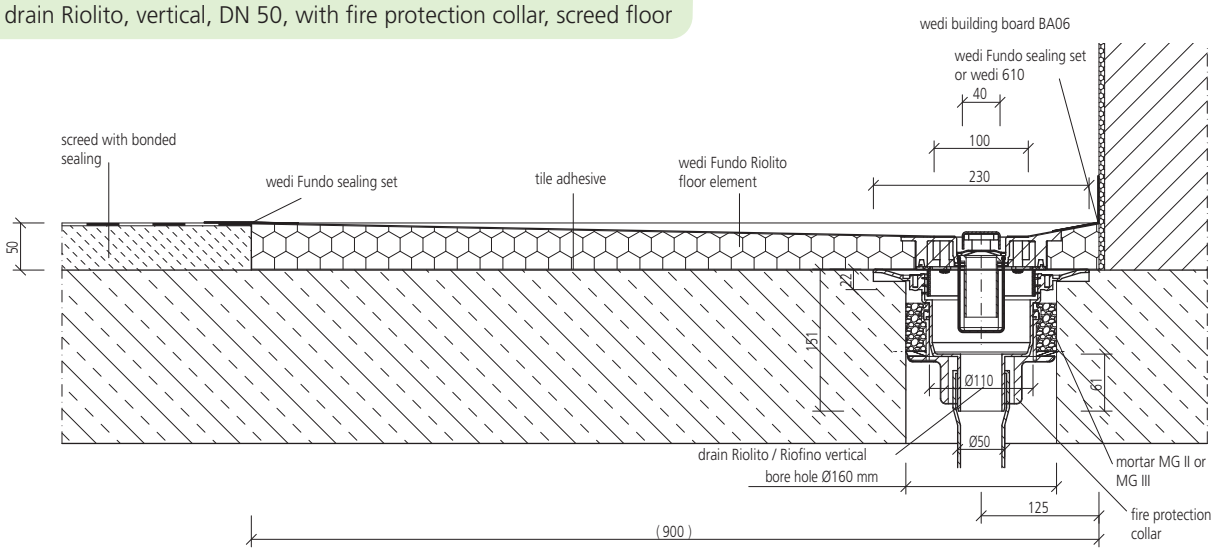
Fundo drain Riolito, horizontal, DN 50, screed floor



Fundo drain Riolito, vertical, DN 50, screed floor

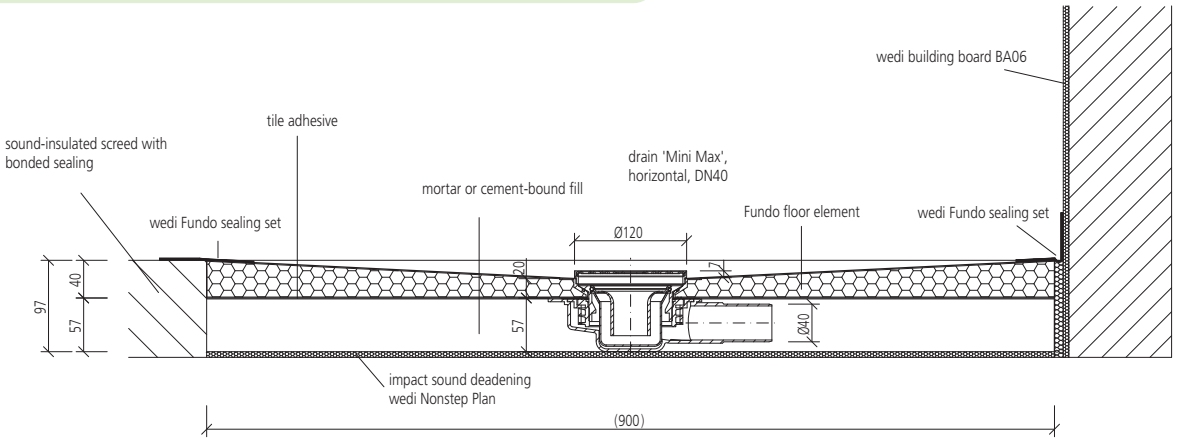


Fundo drain Riolito, vertical, DN 50, with fire protection collar, screed floor

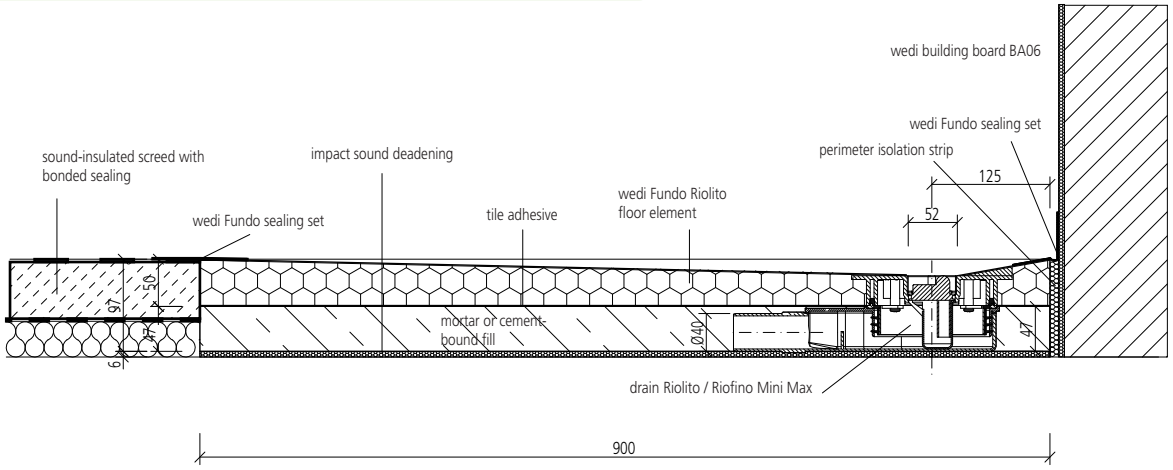


Drain versions for Fundo floor elements

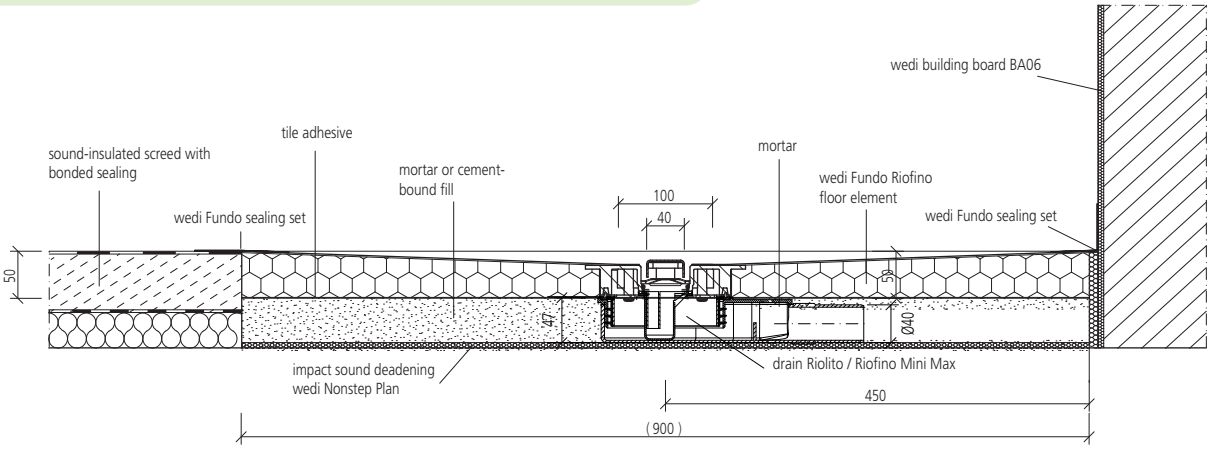
Fundo drain Mini-Max, DN 40



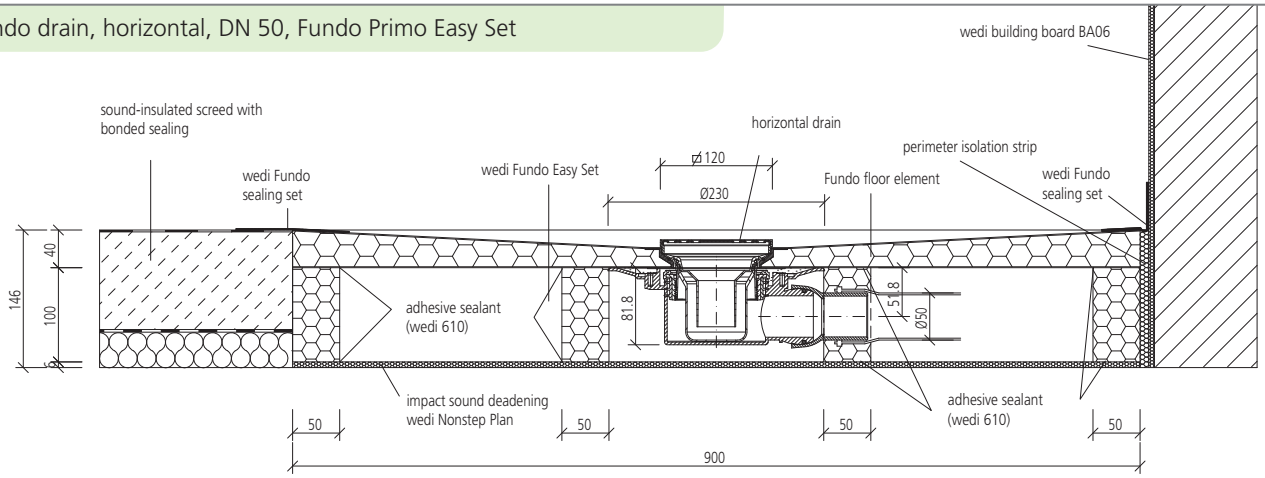
Fundo drain Riolito Mini Max DN 40



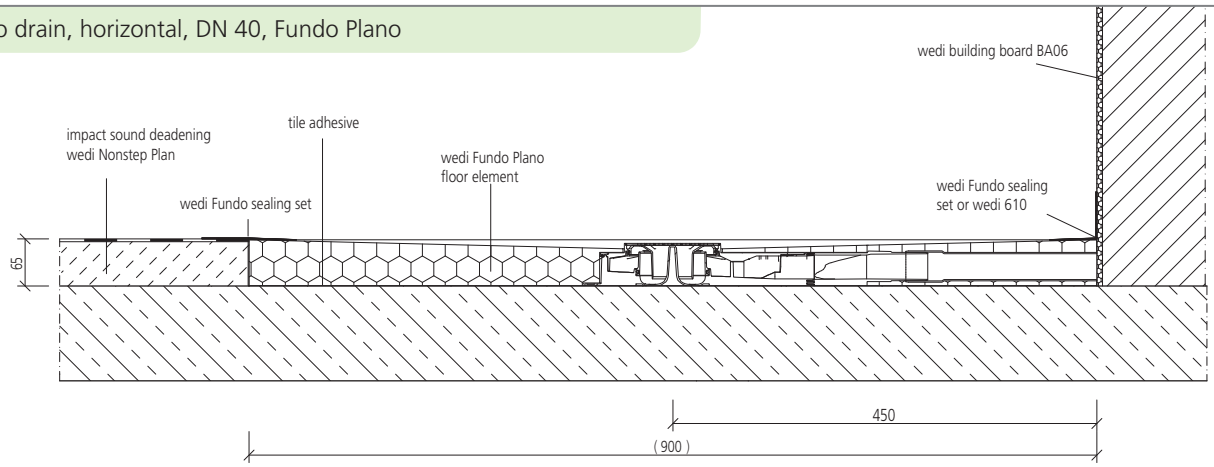
Fundo drain Riofino Mini Max DN 40



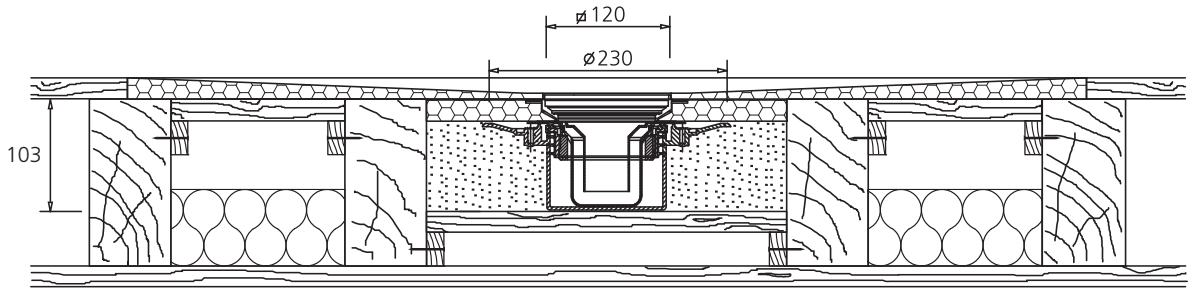
Fundo drain, horizontal, DN 50, Fundo Primo Easy Set



Fundo drain, horizontal, DN 40, Fundo Plano

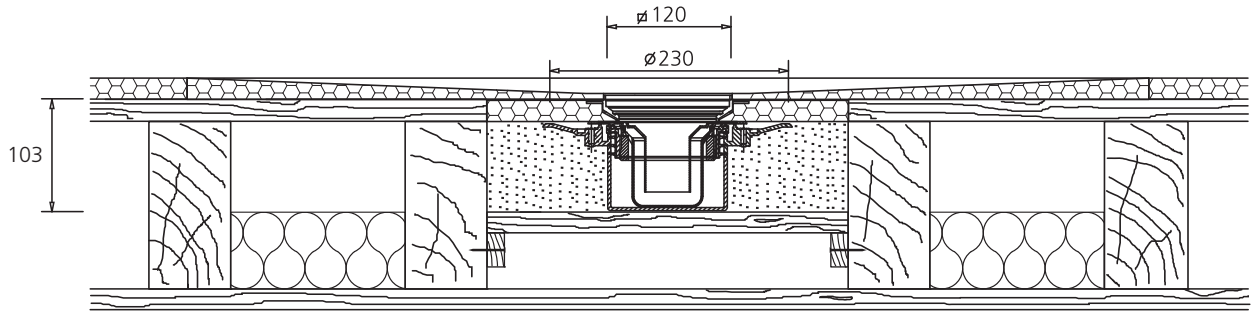


Fundo drain Ligno, horizontal, DN 50, in timber flooring

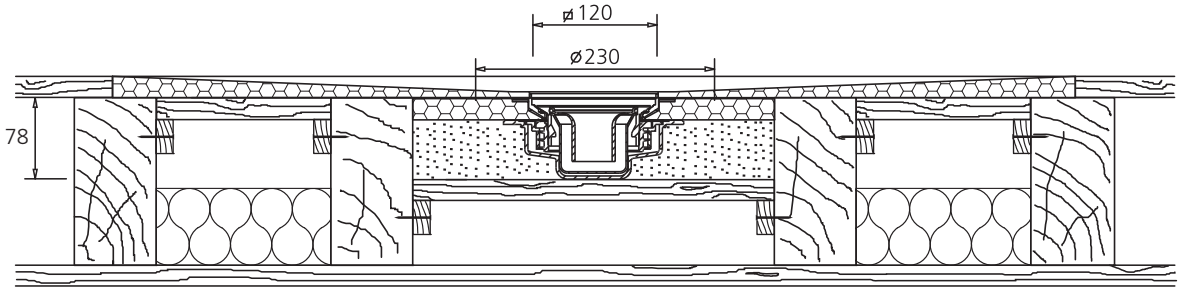


Drain versions for Fundo floor elements

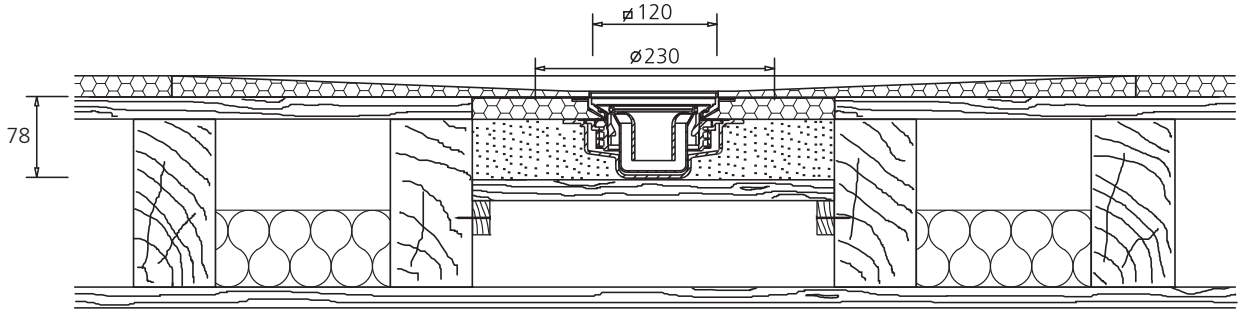
Fundo drain Ligno, horizontal, DN 50, on timber flooring



Fundo drain Ligno Mini Max, horizontal, DN 50, in timber flooring



Fundo drain Ligno Mini Max, horizontal, DN 50, on timber flooring

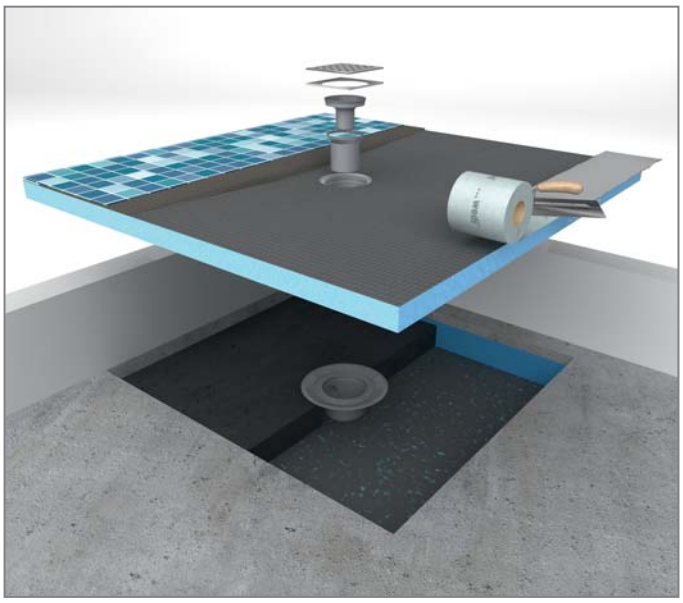


Possible combinations of floor elements & drain

	Fundo Primo	Fundo Trollo	Fundo Nautilo	Fundo Borgo	Fundo Plano	Fundo Ligno	Fundo Riolito	Fundo Riofino	Fundo Primo Easy Set
Fundo drain, vertical DN 50									
Fundo drain, vertical DN 50, circular									
Fundo drain, vertical DN 50 with fire barrier									
Fundo drain, vertical DN 70									
Fundo drain, horizontal DN 50									
Fundo drain, horizontal DN 50, circular									
Fundo drain Mini Max DN 40, extra-flat					Permanently integrated in the floor element				
Fundo drain Riolito / Riofino vertical, DN 50									
Fundo drain Riolito / Riofino vertical, DN 50 with fire barrier									
Fundo drain Riolito / Riofino horizontal, DN 50									
Fundo drain Riolito / Riofino Mini Max DN 40, extra-flat									

combinable not combinable

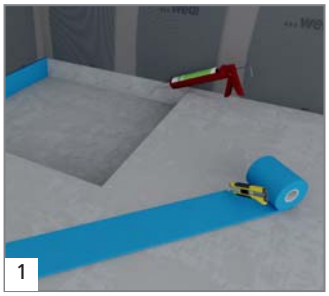
Point drainage on screed substrates (horizontal)



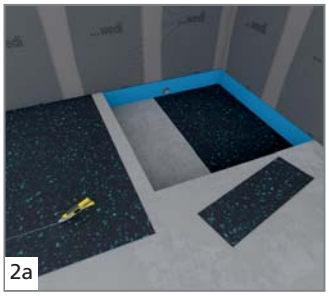
Fundo floor elements from wedi offer a reliable and efficient solution for the construction of waterproof, floor level showers. Featuring a fitted and sealed floor drain, a supplementary factory applied waterproof coating and a predefined slope, they require far less work on any building site and therefore save the construction company a lot of time. Installation with a horizontal drain is demonstrated below.

wedi system components:

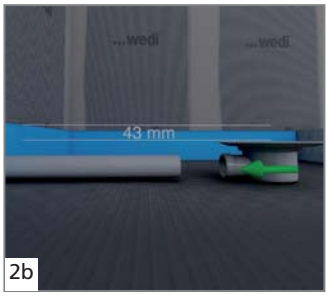
- Fundo floor elements
- Fundo drain/drain cover
- wedi *Nonstep Plan*
- wedi 610 adhesive sealant
- Fundo sealing set



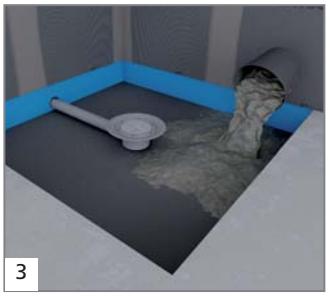
Create a recess in the existing or new screed and attach edge insulating strips if required.



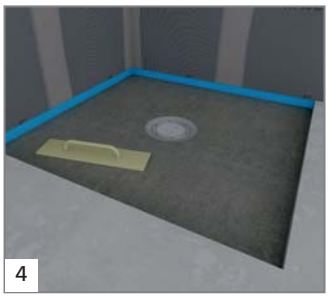
If sound insulation is required, Nonstep Plan can be cut to size and installed.



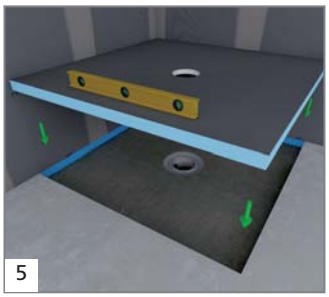
For floor level installation, please be aware of the necessary difference between the top surface of the drain flange and the top surface of the recess.



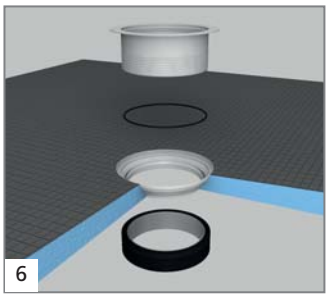
Fill the recess with a bonded levelling screed or slightly moist screed.



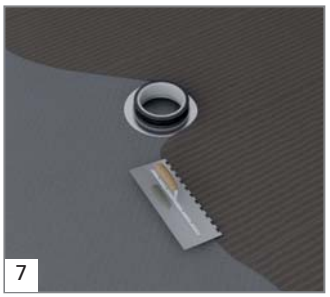
Compact and smooth it at the appropriate level.



Check drain position by loosely placing the wedi Fundo element and, if applicable, adjust drain position by adding new levelling screed.

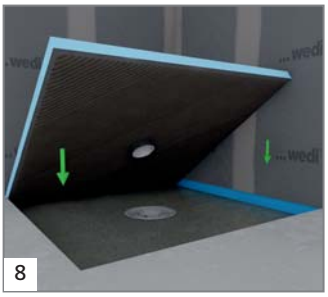


Fit the O-ring from above into the plastic frame and screw down the shower base screw valve into the seal insert.

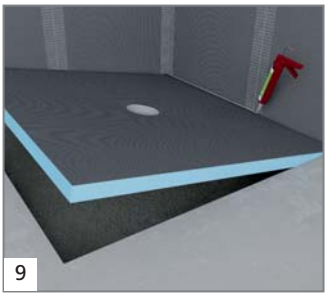


Apply tile adhesive across the entire underside of the shower element.

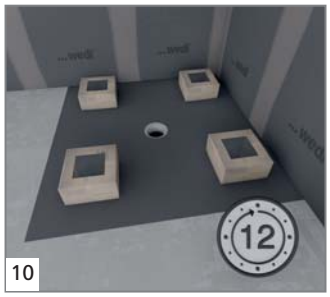
Continuation of installation steps



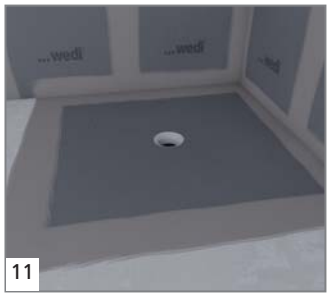
Insert the shower element flush into the recess.



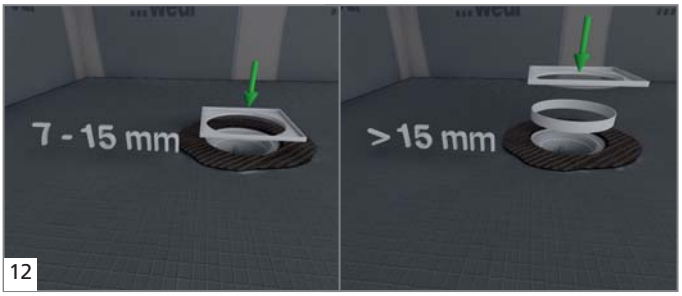
If no edge insulating strip is used, a bonding to the wall using wedi 610 is also possible.



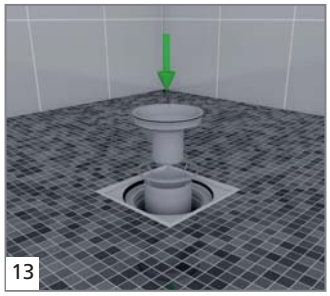
Leave the tile adhesive to settle under low pressure for 12 hours.



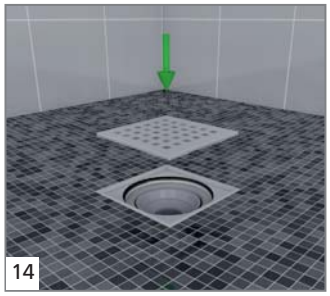
Seal all joints and connection areas as well as transitions by using sealing tape and slurry sealant.



Adjust the grid frame to the height of the top of the tiles including tile adhesive. With a tile thickness of more than 15 mm, the extensions piece will need to be used for height adjustment.



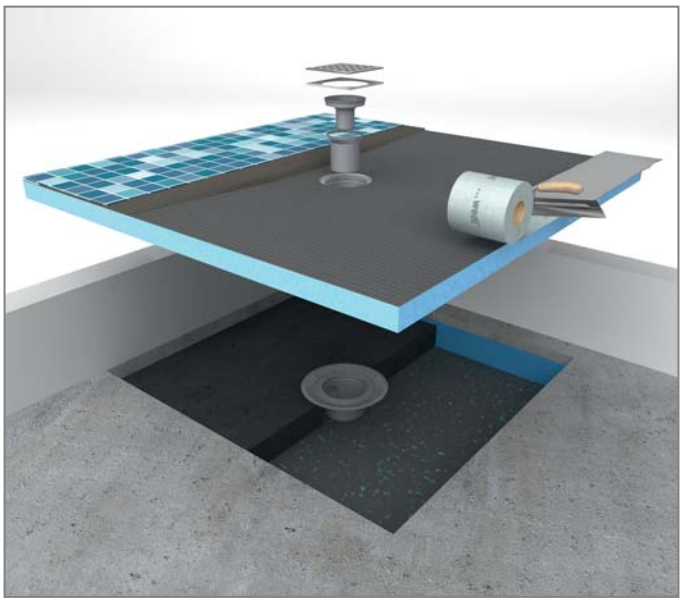
Tile the element. Fit the shower insert and syphon.



Insert the stainless steel grid. The syphon can be removed and cleaned any time.

Please note:
Alternative drain covers as well attachment elements are included in our product range and can be found in the Internet at www.wedi.eu.

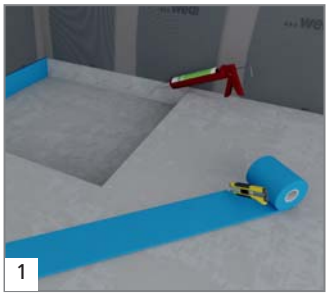
Point drainage on screed substrates (vertical)



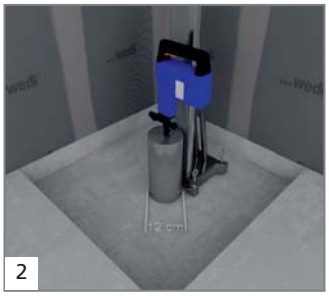
Alternative to a horizontal drain, Fundo floor elements can also be installed with a vertical drain.

wedi system components:

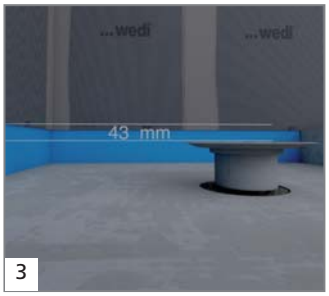
- Fundo floor elements
- Fundo drain/drain cover
- wedi 610 adhesive sealant
- Fundo sealing set



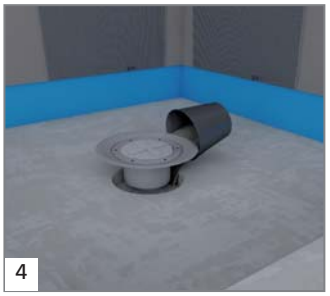
Create a recess in the existing or new screed and attach edge insulating strips if required.



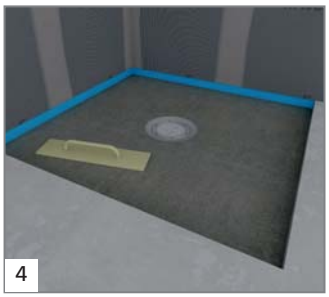
In the case of a vertical drain, a bore hole of 12 cm should be drilled. If sound insulation is required, Nonstep Plan can be cut to size and installed.



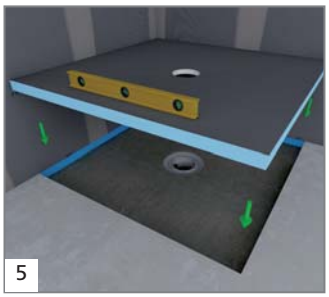
For floor level installation, please be aware of the necessary difference between the top surface of the drain flange and the top surface of the recess.



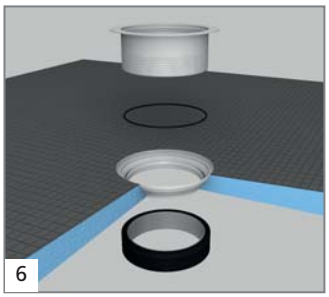
Connect the wedi Fundo drain and fill the recess with a bonded levelling screed or slightly moist screed.



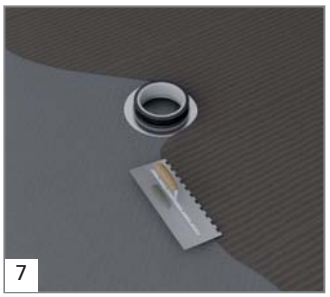
Compact and smooth it at the appropriate level.



Check drain position by loosely placing the wedi Fundo element and, if applicable, adjust drain position by adding new levelling screed.

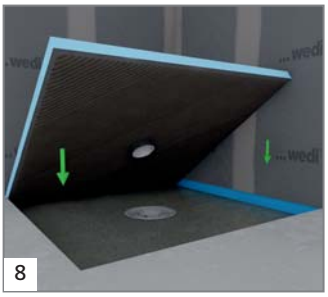


Fit the O-ring from above into the plastic frame and screw down the shower base screw valve into seal insert.

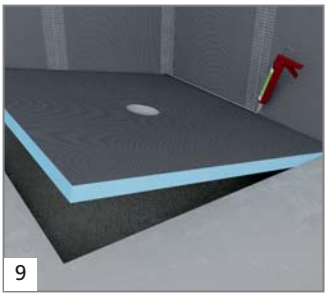


Apply tile adhesive across the entire underside of the shower element.

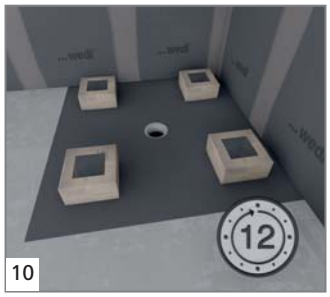
Continuation of installation steps



Insert the shower element flush into the recess.

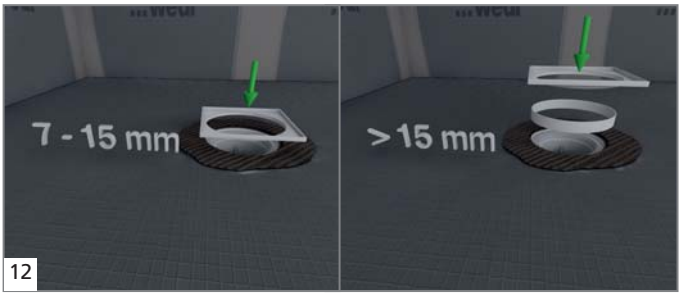


Seal the floor element and the building board joints using wedi 610 adhesive sealant.

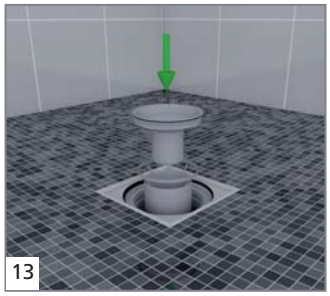


Leave the tile adhesive to settle under low pressure for 12 hours.

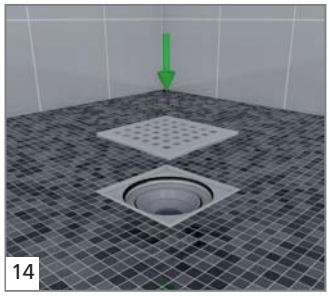
Seal all joints and connection areas as well as transitions by using sealing tape and slurry sealant.



Adjust the grid frame to the height of the top of the tiles including tile adhesive. With a tile thickness of more than 15 mm, the extension piece will need to be used for height adjustment.



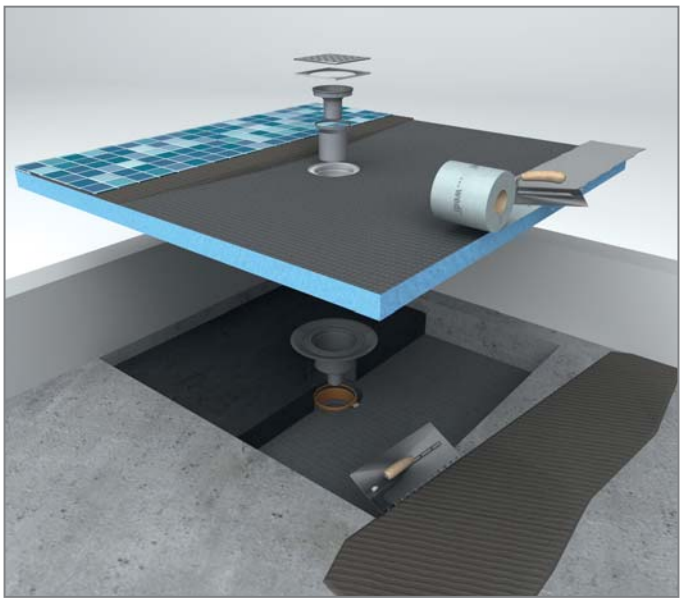
Tile the element. Fit the shower insert and syphon.



Insert the stainless steel grate. The syphon can be removed and cleaned any time.

Please note:
Alternative drain covers as well attachment elements are included in our product range and can be found in the Internet at www.wedi.eu.

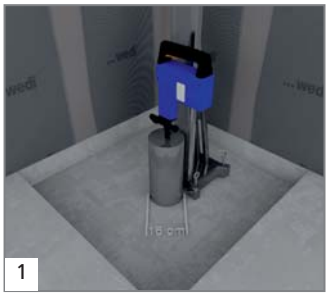
Point drainage with fire protection collar



Alternative to a horizontal drain, Fundo floor elements can also be installed with a vertical drain. There is also the possibility to use a fire protection collar. The corresponding installation steps are explained below.

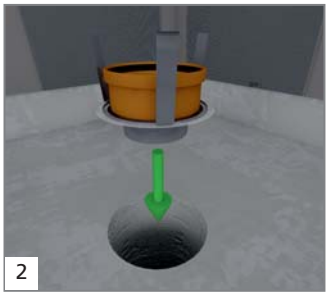
wedi system components:

- Fundo floor elements
- Fundo drain/drain cover
- wedi *Nonstep Plan*
- wedi 610 adhesive sealant
- Fundo sealing set



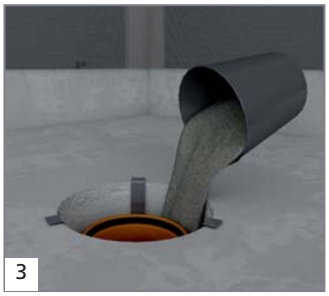
1

In the case of a vertical drain with fire protection collar, a bore hole of 16 cm should be drilled.



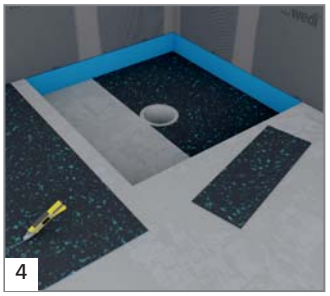
2

Installation of the fire protection collar element.



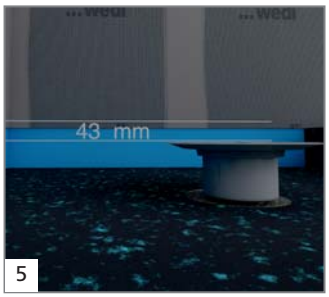
3

Fill the intermediate spaces of borehole and fire protection collar element with MG 2 or 3. If sound insulation is required, install Nonstep Plan.



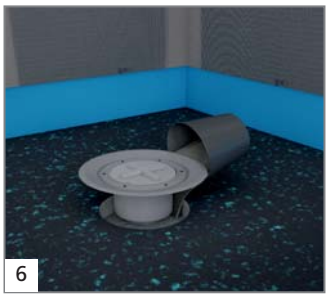
4

Insert the drain base. Cut wedi Nonstep Plan to precisely the required size and lay it. Attach edge insulating strips if required.



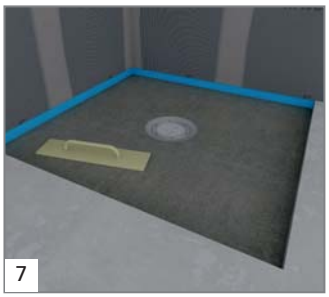
5

For floor level installation, please be aware of the necessary difference between the top surface of the drain flange and the top surface of the recess.



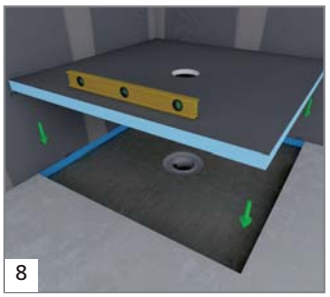
6

Connect the wedi Fundo drain and fill the recess with a bonded levelling screed or slightly moist screed.



7

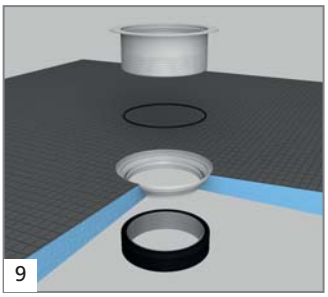
Compact and smooth it at the appropriate level.



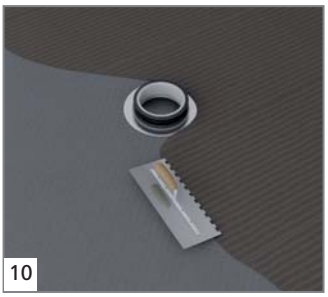
8

Check drain position by loosely placing the wedi Fundo element and, if applicable, adjust drain position by adding new levelling screed.

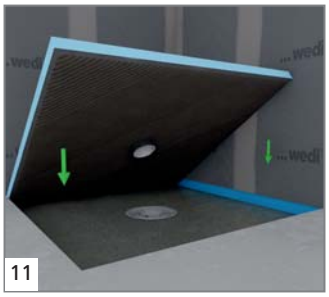
Continuation of installation steps



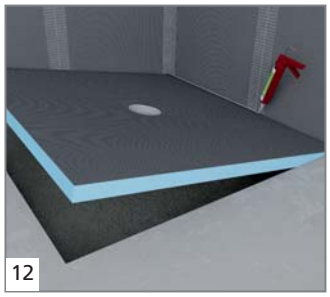
Fit the O-ring from above into the plastic frame and screw down the shower base screw valve into seal insert.



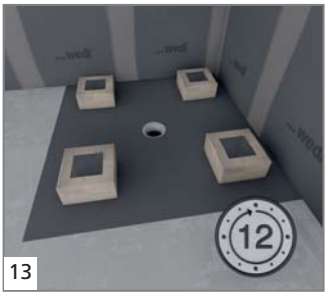
Apply tile adhesive across the entire underside of the shower element.



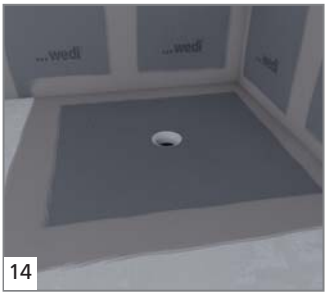
Insert the shower element flush into the recess.



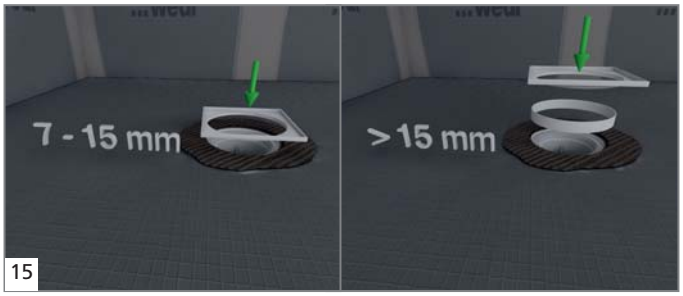
Seal the floor element and the building board joints using wedi 610 adhesive sealant.



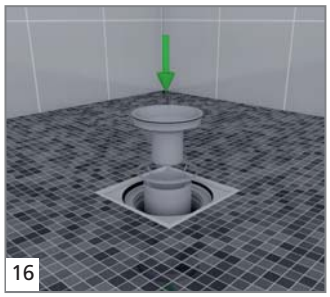
Leave the tile adhesive to settle under low pressure for 12 hours.



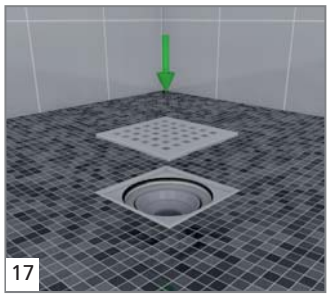
Seal all joints and connection areas as well as transitions by using sealing tape and slurry sealant.



Adjust the drainage frame to the height of the top of the tiles including tile adhesive. With a tile thickness of more than 15 mm, the extension piece will need to be used for height adjustment.



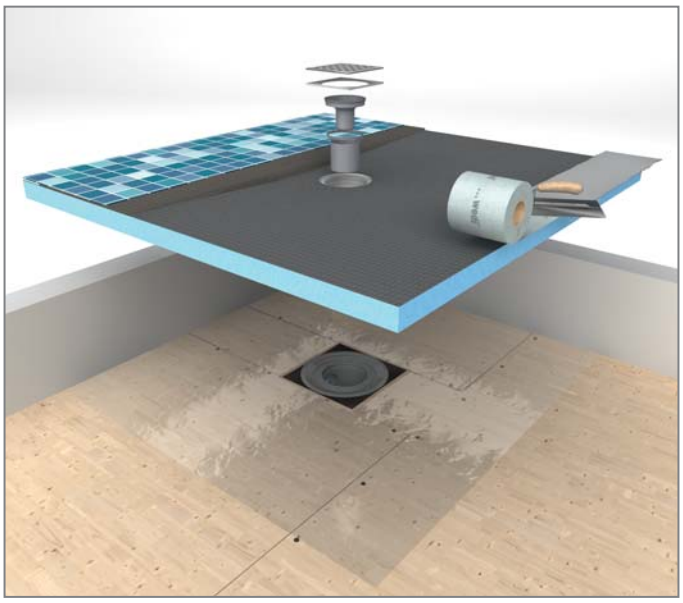
Tile the element. Fit the shower insert and syphon.



Insert the stainless steel grate. The syphon can be removed and cleaned any time.

Please note:
Alternative drain covers as well attachment elements are included in our product range and can be found in the Internet at www.wedi.eu.

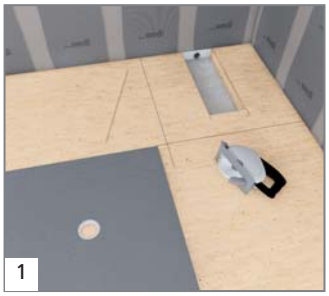
Point drainage on wooden substrates



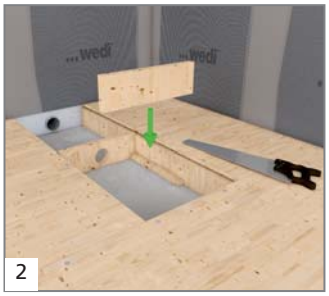
wedi Fundo floor elements cannot only be used with screed substrates, but also with wooden substrates. The installation steps are explained by taking a horizontal drain as an example.

wedi system components:

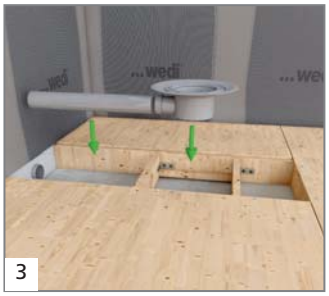
- Fundo floor elements
- Fundo drain/drain cover
- wedi 610 adhesive sealant
- Fundo sealing set



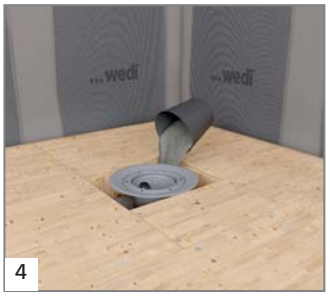
Cut out the required piece of flooring in order to incorporate the drain element.



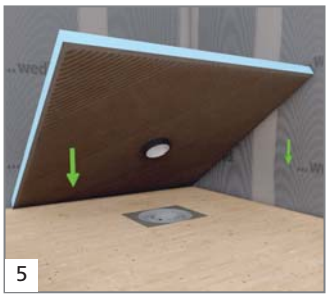
Incorporate the box work element in the area where the drain body will later be fitted. Allow a recess for the pipe.



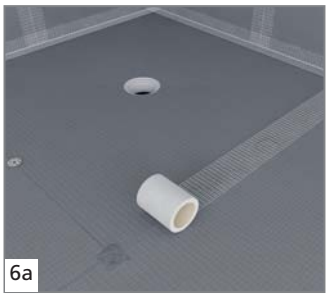
Connection and positioning of the drain body to the pipe. The upper edge of the drain flange should be at the same height as the wooden floor.



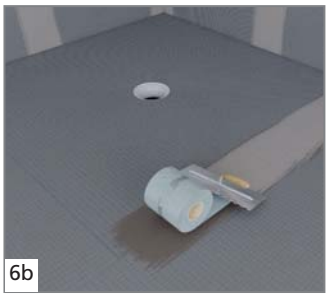
Reinsert the sections of flooring. Fill the box work element with mortar up to the upper edge of the drain flange. Ensure that the mortar is laid as a solid bed in the area around the drain.



Fit the parts of the drain onto the Fundo element. If necessary, pre-treat the wooden surface with primer before bonding the element. Use tile adhesive to bond the element.



If wedi 610 adhesive sealant has been applied to the building board joints, this is followed by the application of the wedi Tools reinforcement tape.

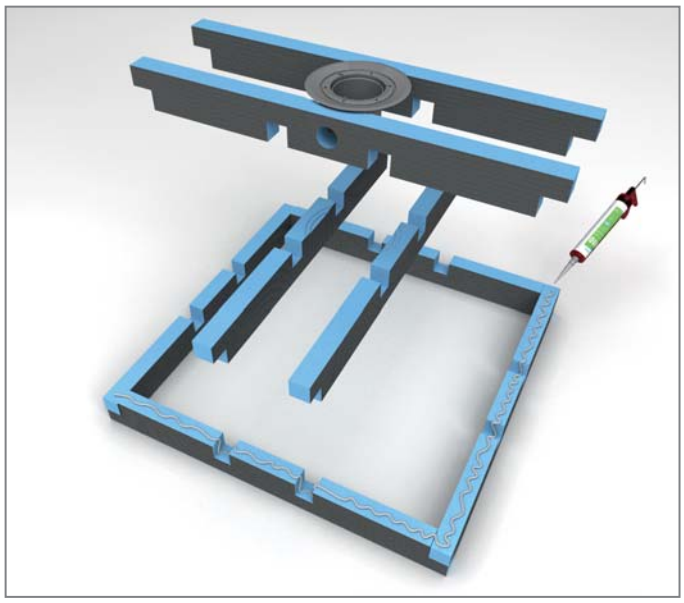


If there is no wedi 610, seal all joints, transitions and holes with the Fundo sealing set.

Please note:

Alternative drain covers as well attachment elements are included in our product range and can be found in the Internet at www.wedi.eu.

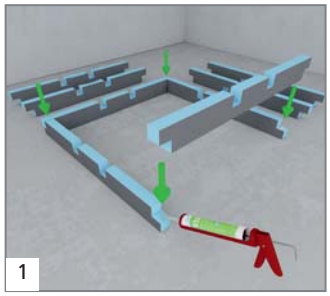
Point drainage with Easy Set system



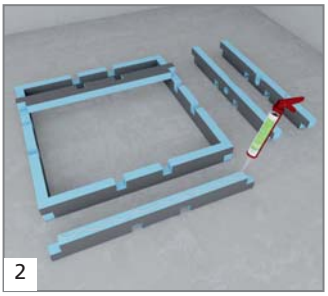
wedi Fundo floor-level showers can be installed to the correct height quickly and easily using the Fundo Primo Easy Set. There is no need to spend time filling with mortar and screed. The total assembly height for the Fundo Primo Easy Set is 14 cm.

wedi system components:

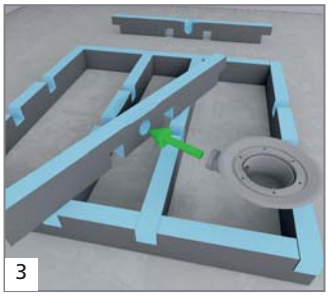
- Fundo *Primo Easy Set*
- Fundo drain/drain cover
- Fundo sealing set
- wedi 610 adhesive sealant
- Fundo floor element



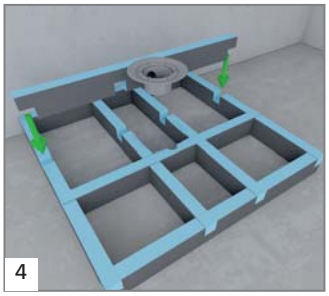
Assemble the Fundo Primo Easy Set on a level substrate (level out any uneven areas with flexible medium-bed mortar).



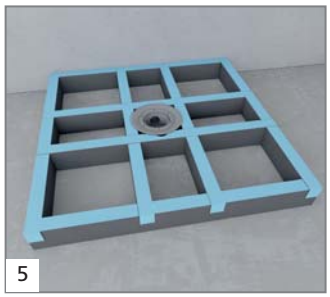
Join the individual elements together using wedi 610 adhesive sealant.



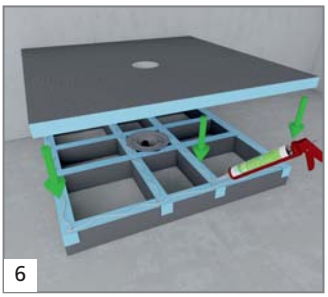
Place the drain body in the recess provided. Then affix the Fundo Primo Easy Set to the substrate using wedi 610 adhesive sealant.



Connect the drain body to the existing drainage pipe.



The Fundo Primo Easy Set is finished and ready for use.



The wedi Fundo floor element can now be fitted using the wedi 610 adhesive sealant.

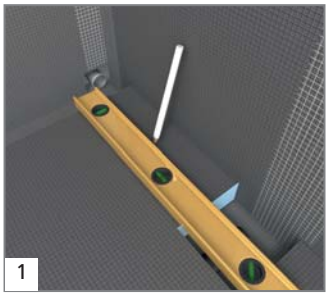
Please note:
Sound insulation of the Fundo Primo Easy Set has been checked in combination with wedi Nonstep Plan and wedi Fundo. This design achieves an increased sound insulation SST3 ≤ 25 dB (A).

Point drainage with integrated drain

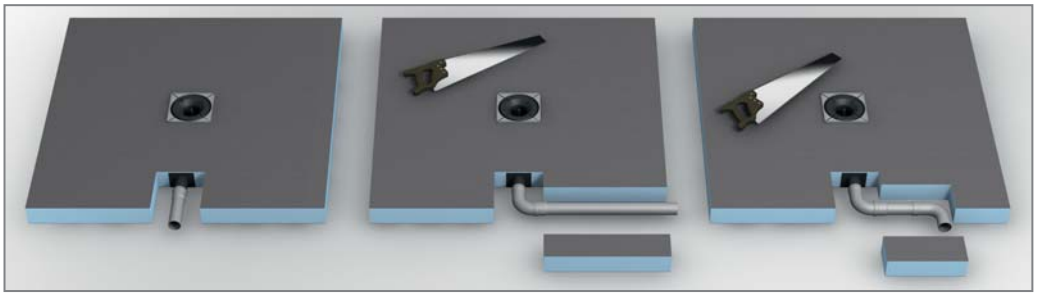
The thinnest complete system for floor-level showers available on the market. Thanks to the pre-fabricated drain, the entire system is a mere 65mm. This innovative system is absolutely unbeatable in renovation work, such as old building renovations, where every millimetre counts. Of course it goes without saying that the product offers all the advantages of the wedi products with a proven reliability of more than 27 years – from the guaranteed 100% waterproofness through to the versatile and simple application. Perfection in renovation.

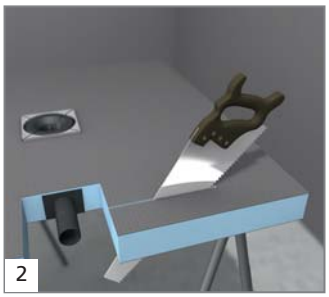
wedi system components:

- Fundo *Plano*
- Fundo drain/drain cover
- Fundo sealing set

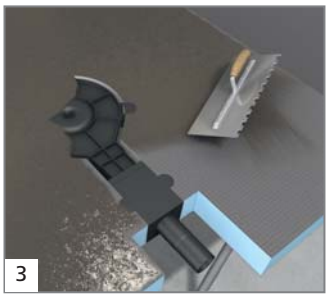


Mark out the necessary channel for the pipe.

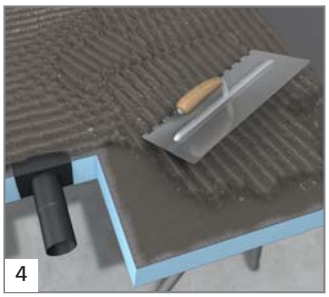




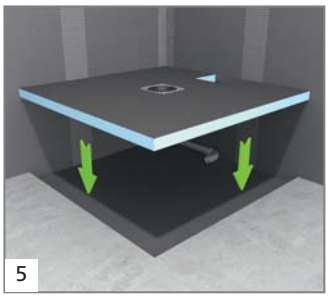
Saw out the marked area.



Apply a contact layer of tile adhesive to the rear of the element and fill the drain pot with mortar.

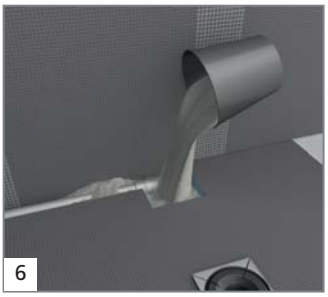


Then, spread the rear with tile adhesive (10 teeth).

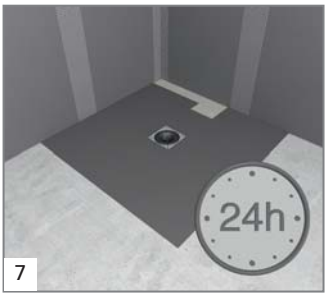


Glue the element into the recess...

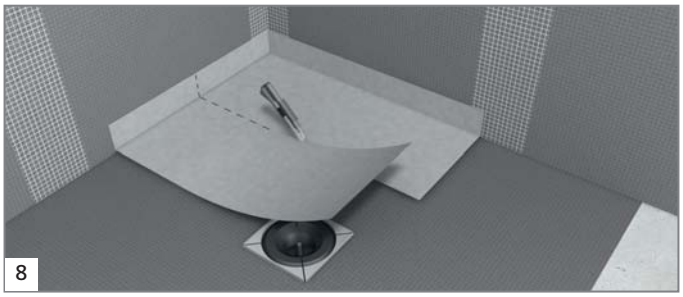
Continuation of installation steps



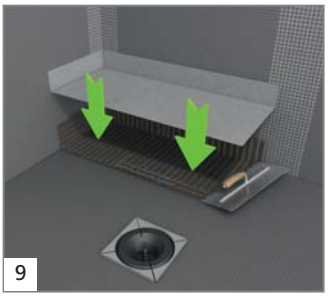
... and connect the pipe. Then, close the opening with a mortar mixture.



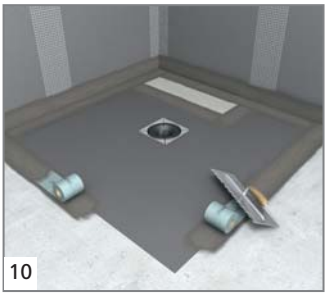
You can start to seal the join areas after 24 hours.



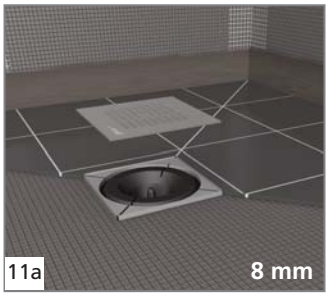
Cut the supplied sealing corner to size according to the recessed corner, incl. an overlap of approx. 5 cm.



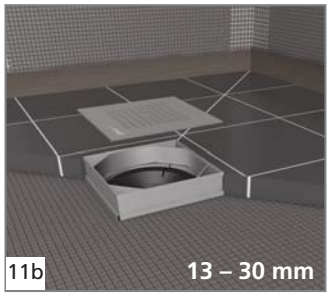
Glue the sealing corner with tile adhesive.



Seal the remaining joins and screed transitions with the wedi Fundo sealing set.

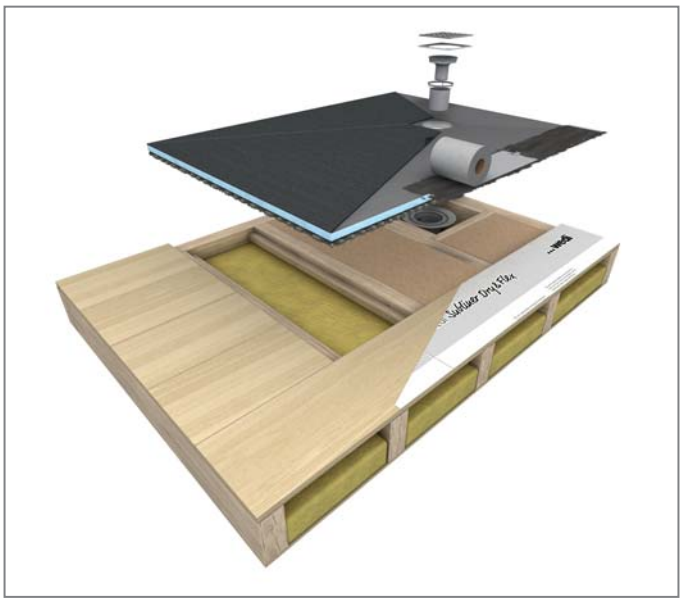


Use the pre-installed frame for foundation heights up to 8 mm.



Use the supplied support frame for a foundation height from 13 to 30 mm.

Point drainage in suspended timber floors (integrated)

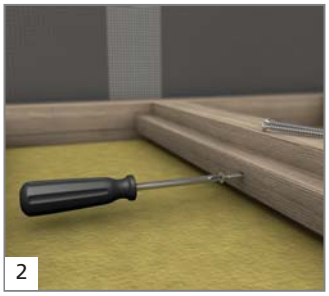


The wedi Fundo Ligno floor element was specially developed for use in old and new builds with suspended timber floors. With the integrated version shown here, the seal is created on the neighbouring timber construction using the wedi Fundo sealing set.

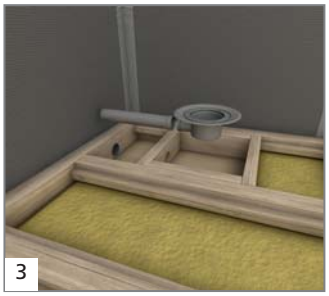
wedi system components:

- Fundo *Ligno* floor element
- Fundo drain/drain cover
- wedi *Subliner Dry & Flex*
- Fundo sealing set

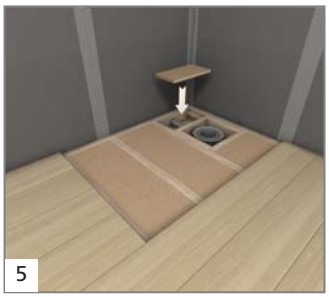
Cut out the timber beam position in the Fundo Ligno shape and remove the insulating material underneath.



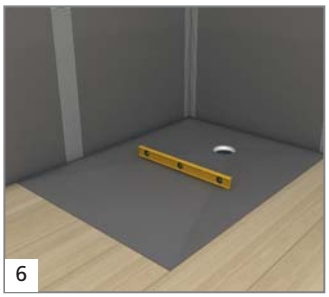
Then, make a holder for the Fundo Ligno element. To do this, screw timber strips onto the available beam construction.



Build formwork (35 x 35 cm) in the drain pot area.



Now, connect the drain pot and attach the structure preservation cover. Create the holder for the Ligno element using timber boards, which are screwed onto the strips.

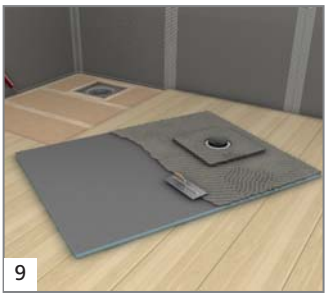


Check the drain position of the wedi Fundo Ligno element and adapt it, if necessary.

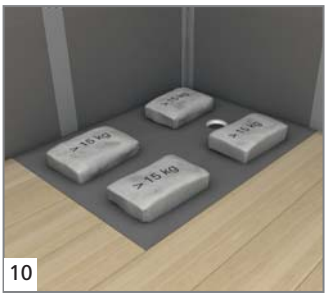
Fill the recess with earth-moist screed.

Insert the O-ring into the plastic frame's groove from above and screw down the shower tray's screw valve using sealing insert.

Continuation of installation steps

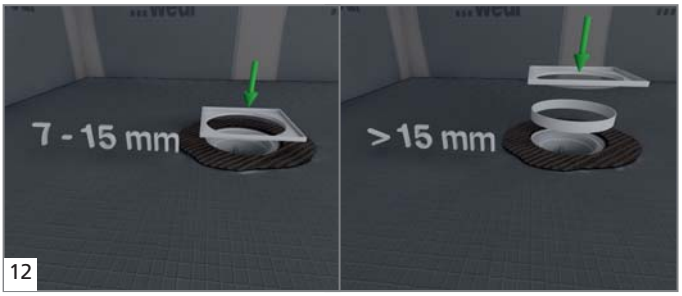


Apply tile adhesive all over the underside of the shower element.

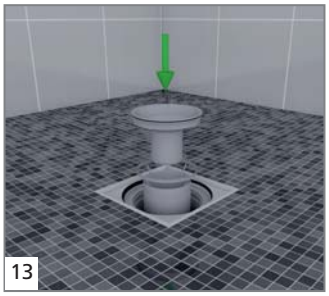


Weight the element down for 24 hours.

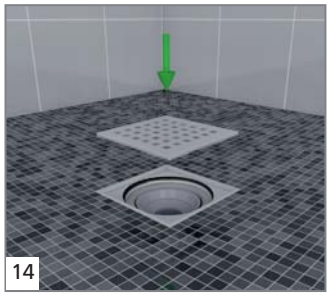
Seal the joins and timber beam transitions with the wedi Fundo sealing set. Recommendation: Seal the complete timber floor area with wedi Dry & Flex.



Bring the drain frame to the height of the top tile edge and secure in the bed of adhesive. If the tile is thicker than 15 mm, use the ramping element to adjust the height.



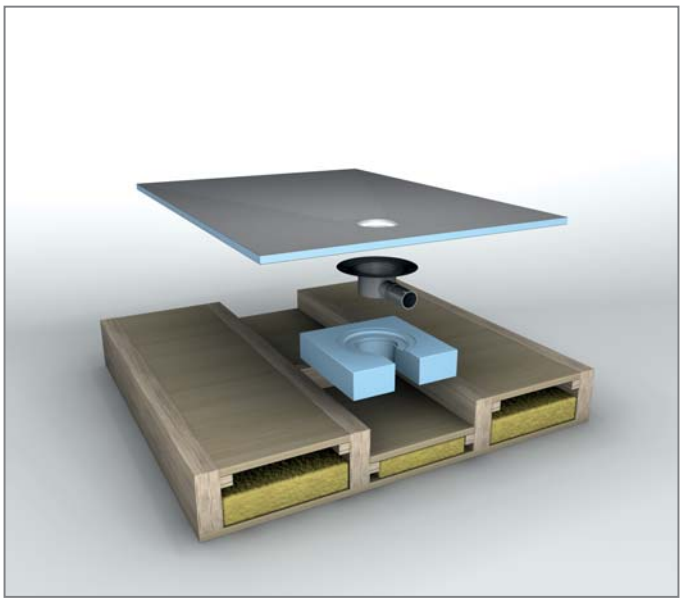
Tile the element. Insert the shower insert and odour trap.



Insert the stainless steel grid. The siphon can be cleaned at any time.

Please note:
Alternative drain covers as well attachment elements are included in our product range and can be found in the Internet at www.wedi.eu.

Point drainage in suspended timber floors



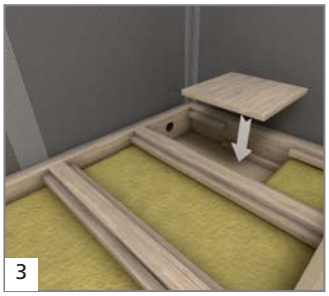
The pre-shaped foam element was specially designed for Fundo Ligno floor elements and guarantees secure embedding and a custom-fit drain lining. It is installed underneath the Fundo Ligno floor element.

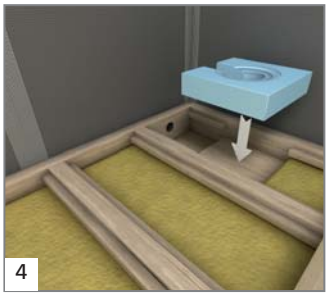
wedi system components:

- Fundo *Ligno* Substructure elements
- Fundo *Ligno* floor element


1


2


3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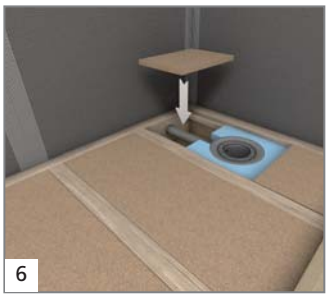
5

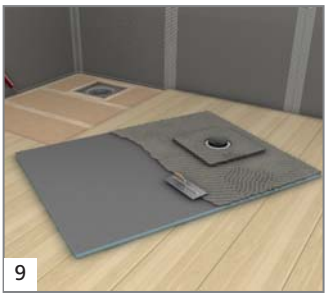

6


7

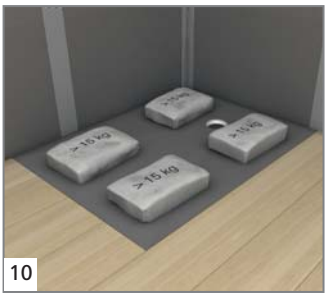

8

Insert the O-ring into the plastic frame's groove from above and screw down the shower tray's screw valve using sealing insert.

Continuation of installation steps

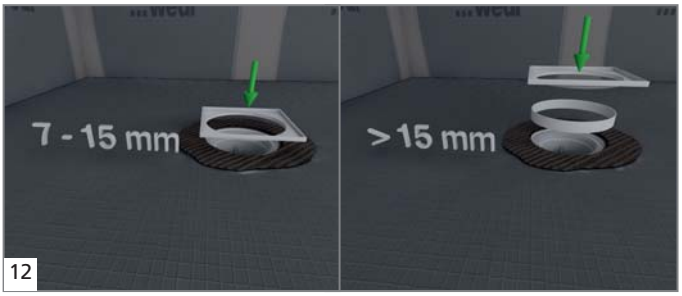


Apply tile adhesive all over the underside of the shower element.

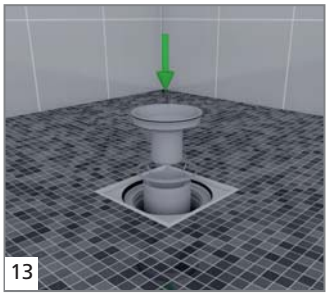


Weight the element down for 24 hours.

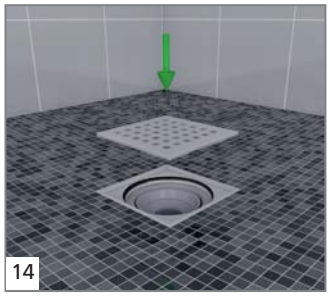
Seal the joins and timber beam transitions with the wedi Fundo sealing set.
Recommendation: Seal the complete timber floor area with wedi Dry & Flex.



Bring the drain frame to the height of the top tile edge and secure in the bed of adhesive. If the tile is thicker than 15 mm, use the ramping element to adjust the height.



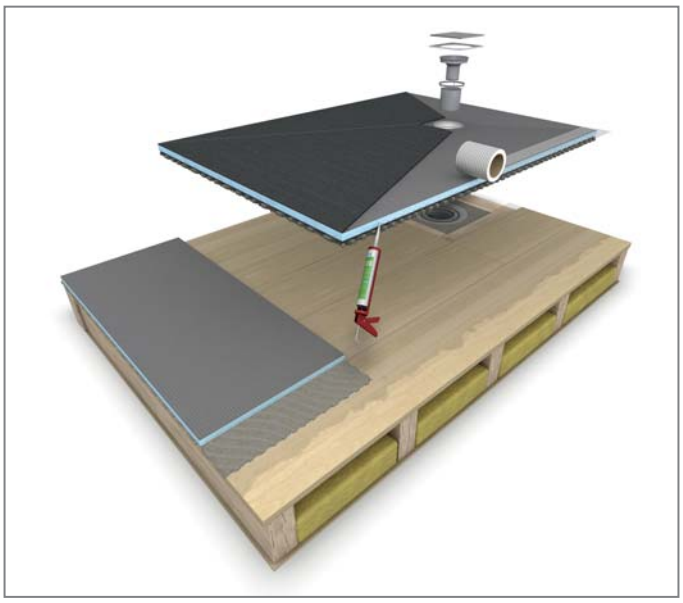
Tile the element. Insert the shower insert and odour trap.



Insert the stainless steel grid. The siphon can be cleaned at any time.

Please note:
Alternative drain covers as well attachment elements are included in our product range and can be found in the Internet at www.wedi.eu.

Point drainage on suspended timber floors

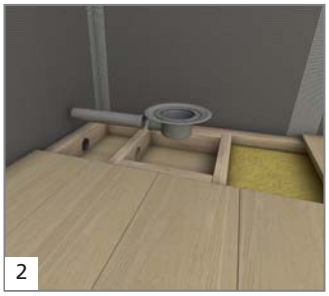


In addition to the integrated version, the wedi Fundo Ligno floor element can also be installed on the suspended timber floor. The height-adjusting wedi building boards are also used in this installation process, which is just as simple as the previous ones. Here, the joins are sealed with wedi 610.

wedi system components:

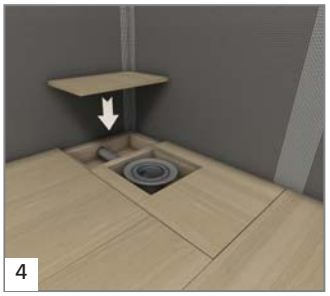
- Fundo *Ligno* floor element
- Fundo drain/drain cover
- wedi building board
- wedi *Tools* sealing tape
- wedi 610 adhesive sealant

Cut out the timber beam position in the drain pot area and remove the insulating material underneath.



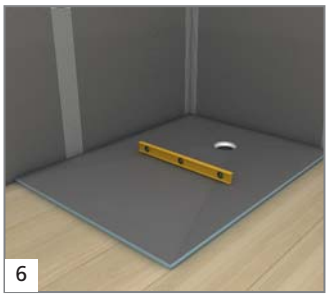
Build formwork (35 x 35 cm) in the drain pot area...

... and check that the drain is secure.

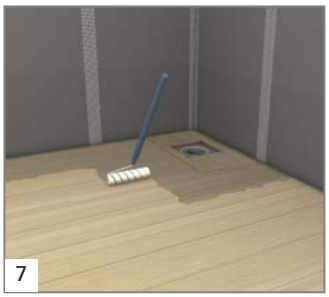


Close all the openings as far as the drain pot opening using boards.

Fill the recess with earth-moist screed.



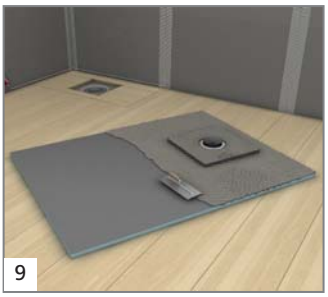
Check the drain position of the wedi Fundo Ligno element and adapt it, if necessary.



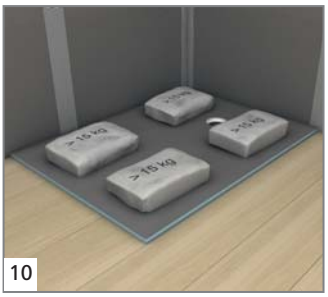
Prime the entire timber floor.

Insert the O-ring into the plastic frame's groove from above and tighten the screw valve of the shower tray using sealing insert.

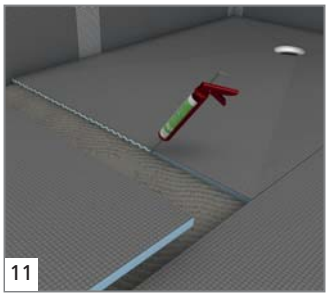
Continuation of installation steps



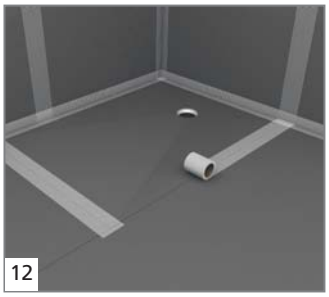
Apply tile adhesive all over the underside of the shower element.



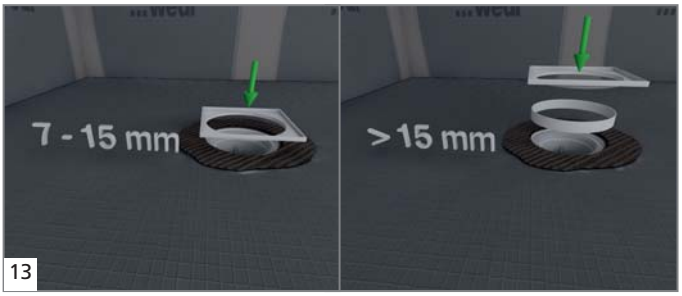
Weight the element down for 24 hours.



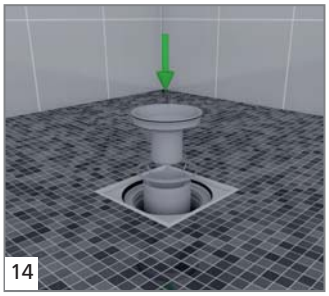
Fill the remaining area with 20 mm wedi building boards. The joins can either be sealed with wedi 610...



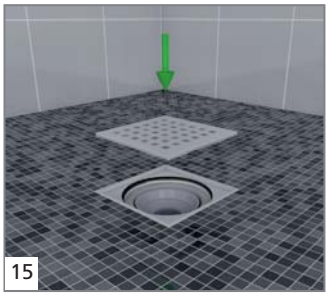
... or the wedi sealing strip.



Bring the drain frame to the height of the top tile edge and secure in the bed of adhesive. If the tile is thicker than 15 mm, use the ramping element to adjust the height.



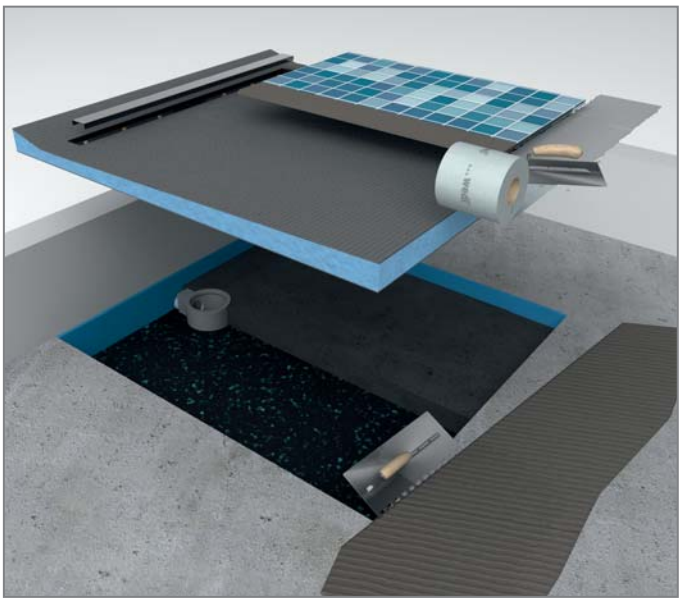
Tile the element. Insert the shower insert and odour trap.



Insert the stainless steel grid. The siphon can be cleaned at any time.

Please note:
Alternative drain covers as well attachment elements are included in our product range and can be found in the Internet at www.wedi.eu.

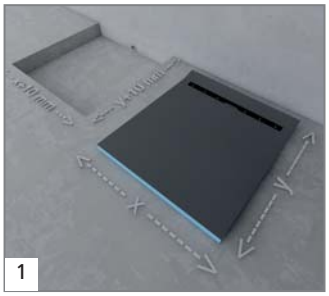
Channel drainage on cement substrates



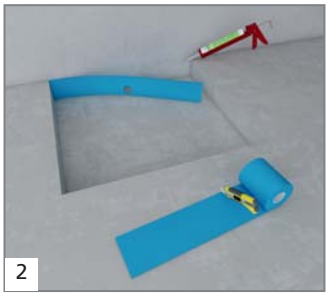
wedi Fundo Riolito and Fundo Riofino are floor-level shower elements with channel drainage. They guide the shower water into a linear drain. With the Riolito version, the linear drain has a lateral position, and with the Riofino version it has a central position. The required slope is already integrated into the floor elements. The below installation steps – shown with Riolito – are applicable to both channel options.

wedi system components:

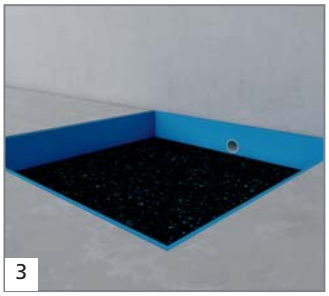
- Fundo *Riolito / Riofino*
- Fundo drain/drain cover
- wedi *Nonstep Plan*
- wedi 610 adhesive sealant
- Fundo sealing set



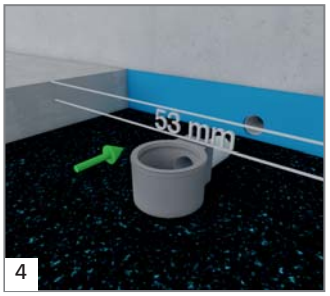
Create a recess in the existing or new screed.



Attach edge insulating strips using wedi 610 adhesive and sealant if required.

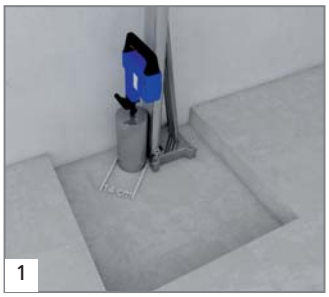


If sound insulation is required, Nonstep Plan can be cut to size and installed.

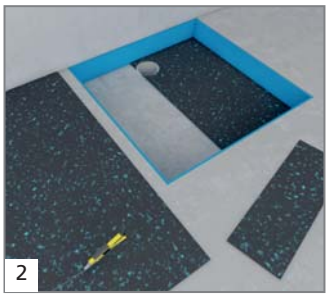


For floor level installation, please be aware of the necessary difference between the top surface of the drain flange and the top surface of the recess.

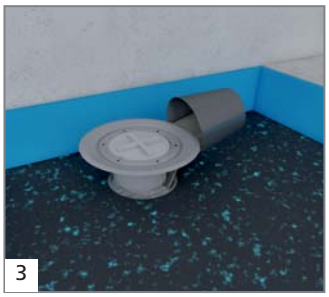
Alternative: vertical drain



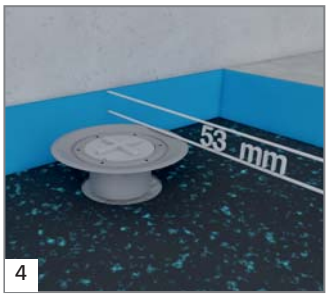
In the case of a vertical drain, a bore hole of 14 cm should be drilled. If sound insulation is required, Nonstep Plan can be cut to size and installed.



If sound insulation is required, Nonstep Plan can be cut to size and installed.

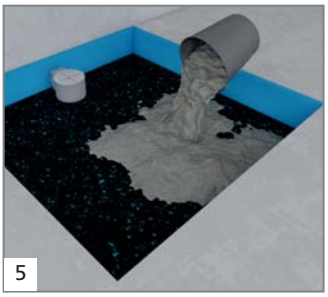


Connect the wedi Fundo drain and fill the hollow space in the ceiling using mortar casting while maintaining a vertical outlet.

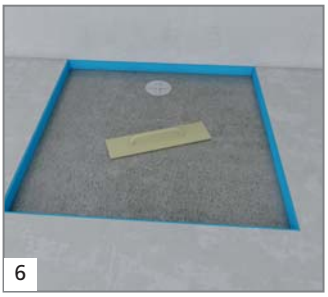


For floor level installation, please be aware of the necessary difference between the top surface of the drain flange and the top surface of the recess.

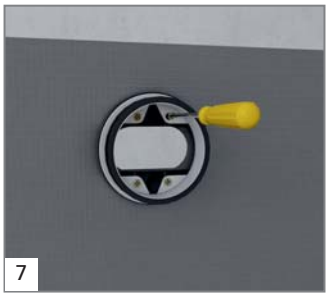
Continuation of installation steps



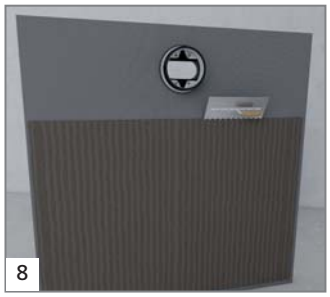
Fill the recess with a bonded levelling screed or slightly moist screed.



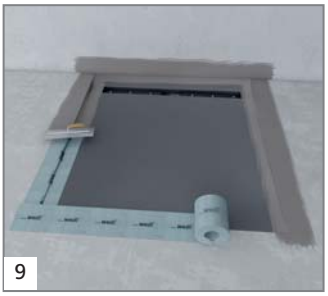
Seal properly and smooth off at the required height.



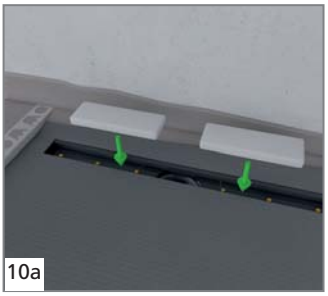
Attach the sealing collar to the back of the Fundo with 4 screws. Hand-tighten the screws.



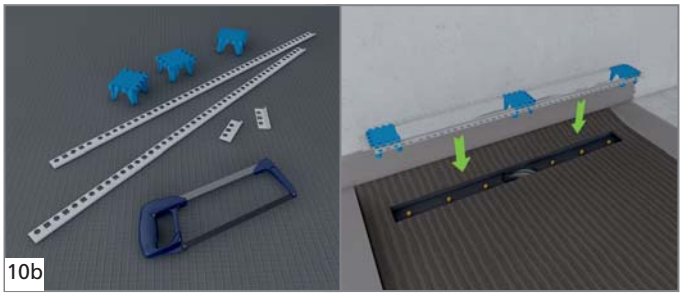
Apply tile adhesive to the entire underside of Fundo Riolito, and bond it to the substrate.



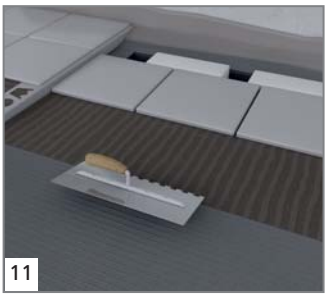
Insert shower element and seal the joints using the Fundo sealing set. Then, install the wedi Fundo Riolito profile.



Use the enclosed tiling guides. They ensure the correct distance between cover and tile is maintained.



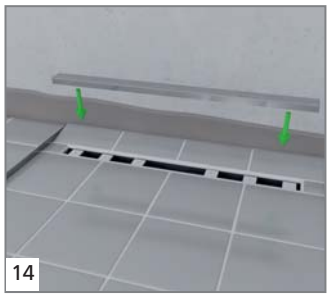
As an alternative, the enclosed frame clamping pieces can be used to create a tile profile frame around the drain. The tile clamping pieces should be removed before grouting.



Tile the element.

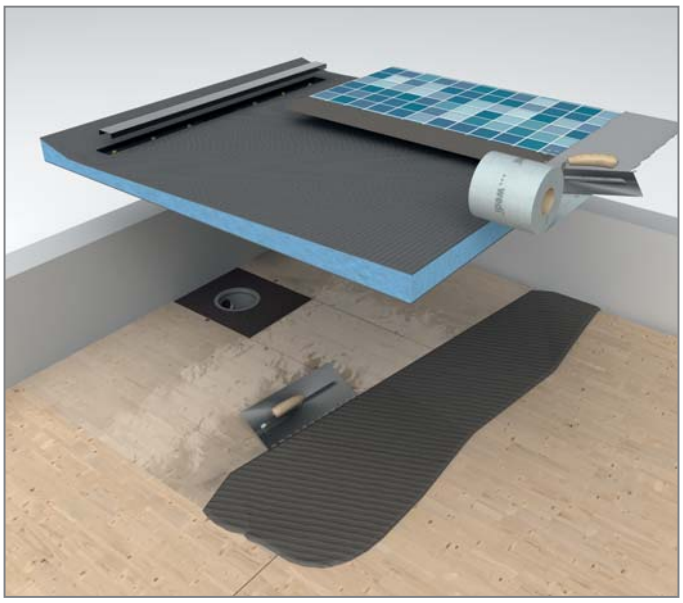
Fit shower insert and two-part syphon.

Open lock nuts for cover.



Adjust cover height by using the lock nuts.

Channel drainage on wooden substrates

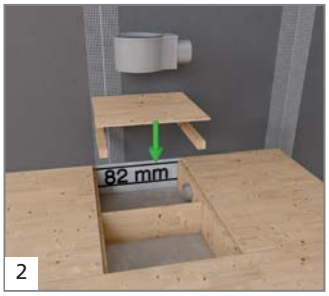


The wedi floor-level shower elements Fundo Riolito and Fundo Riofino are also perfectly suitable for channel drainage on wooden surfaces. The below installation steps – shown with Riolito – are applicable to both channel options.

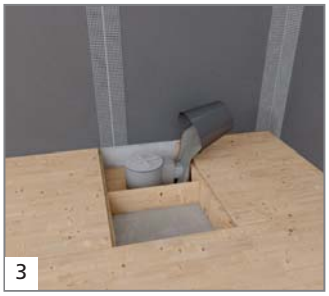
wedi system components:

- Fundo *Riolito*
- Fundo drain/drain cover
- wedi 610 adhesive sealant
- Fundo sealing set
- wedi building board

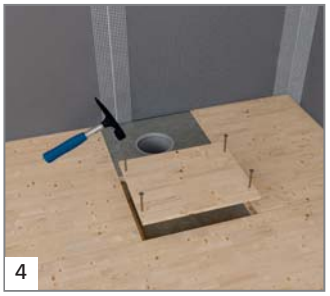
Cut out the required piece of flooring in order to incorporate the drain element.



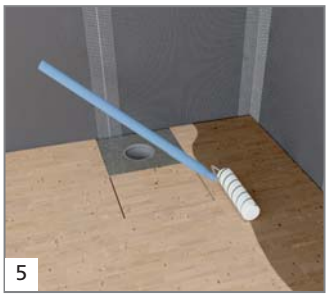
Connection and positioning of the drain body to the pipe. The upper edge of the drain flange should be at the same height as the wooden floor.



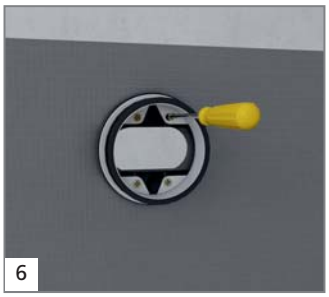
Fill the box work element with mortar up to the upper edge of the drain flange. Ensure that the mortar is laid as a solid bed in the area around the drain.



Reinsert the previously cut sections of flooring.

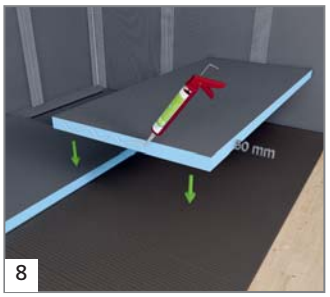


If necessary, pre-treat the wooden surface with primer before bonding the element.



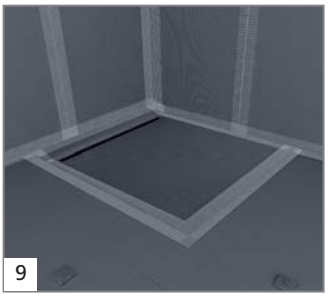
Attach the sealing collar to the back of the Fundo with 4 screws. Hand-tighten the screws.

Apply tile adhesive to the entire underside of Fundo Riolito, and bond it to the substrate.

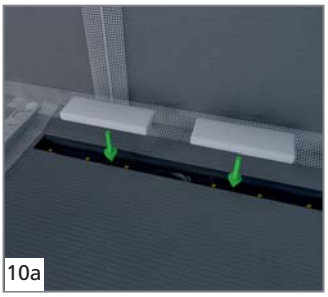


Apply wedi 610 adhesive sealant to the building board joints. Level off the adjacent area of wooden floor using 50 mm thick wedi building boards.

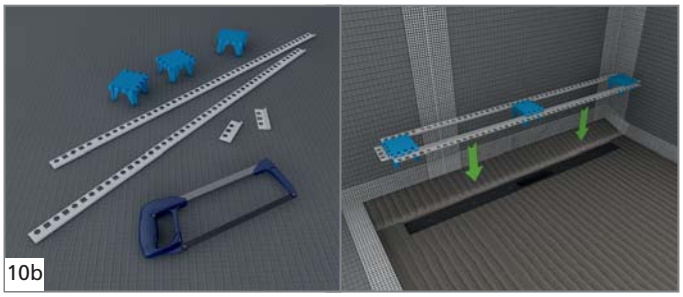
Continuation of installation steps



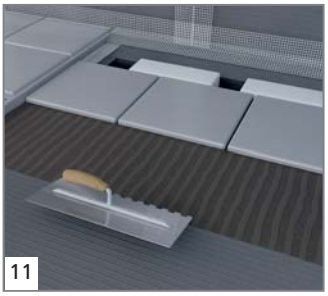
Seal the joints with the wedi 610 adhesive sealant and wedi Tools reinforcement tape. Then, install the wedi Fundo Riolito profile.



Use the enclosed tiling guides. They ensure the correct distance between cover and tile is maintained.

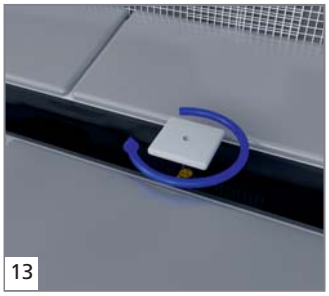


As an alternative, the enclosed frame clamping pieces can be used to create a tile profile frame around the drain. The tile clamping pieces should be removed before grouting.

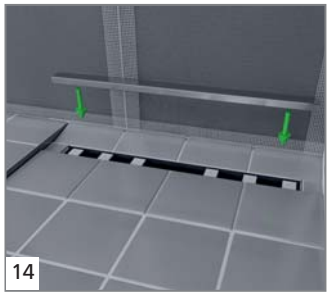


Tile the element.

Fit shower insert and two-part siphon.



Open lock nuts for cover.

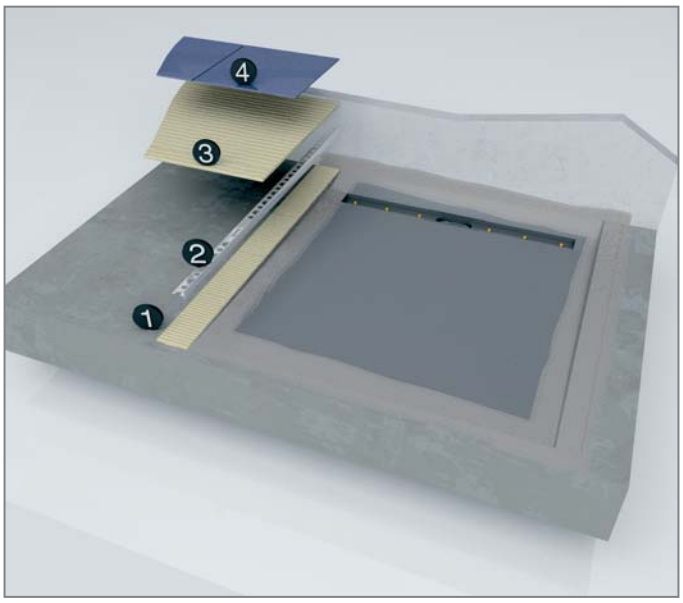


Adjust cover height by using the lock nuts.

Fundo *Riolito* profile

Alternative drain covers, including accessories, as well appropriate slope wedges are included in our product range and can be found in the Internet at www.wedi.eu.

Fundo *Riolito* | Floor profile



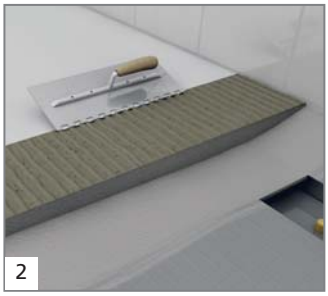
The Fundo Riolito profile is specifically designed for the Fundo Riolito floor element. It provides a visually attractive transition from the sloped surface of the floor element to the level flooring. It is available in left and right versions and in several heights, and it is easy to install. This new slope profile offers a strong combination of design and protection with floor-level showers.

wedi system components:

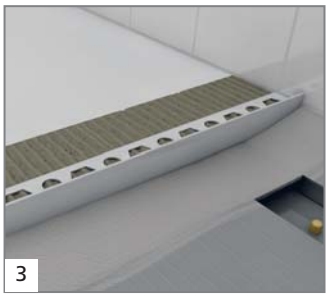
- wedi *Riolito* profile
- wedi *Riolito* floor element
- Fundo sealing set
- wedi *Tools* sealing tape

The Fundo Riolito profile is produced in pre-cut lengths for use with 1,200 mm Fundo Riolito floor elements.

However, it can easily be cut shorter at the marked notch for use with 900 mm Fundo Riolito floor elements.

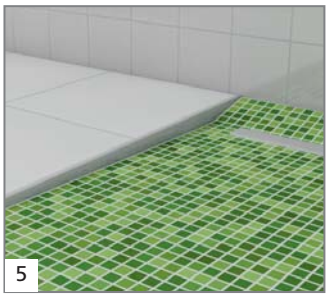


In the transition area between the Fundo floor element and the screed, apply tile adhesive to the alternative sealing system (wedi Tools sealing tape and Fundo sealing set) ...



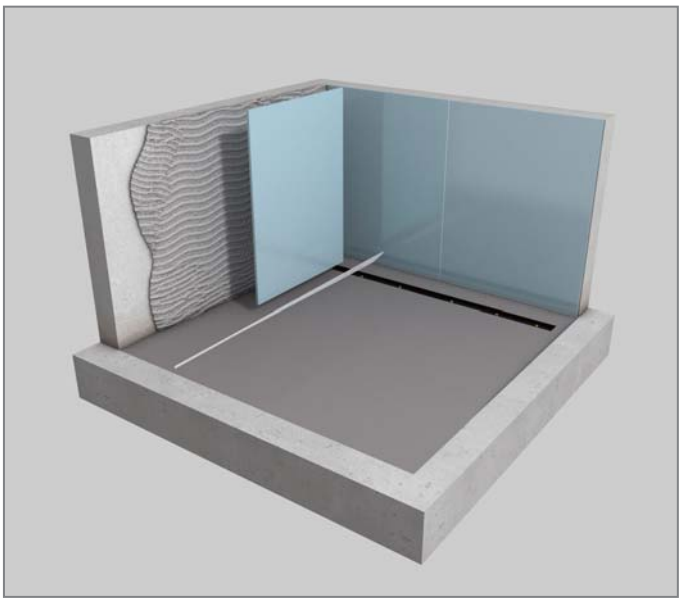
... and embed the sloped profile. The Riolito profile is available in left and right version. The correct side is determined when viewing towards the floor drain.

Apply tile adhesive with a grooved trowel and press the tiles in place.



Finish by tiling and grouting the floor element. The figure shows the left version of the profile.

Fundo *Riolito* | Wall profile



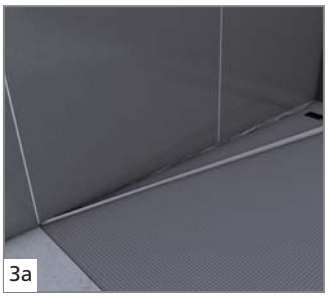
wedi system components:

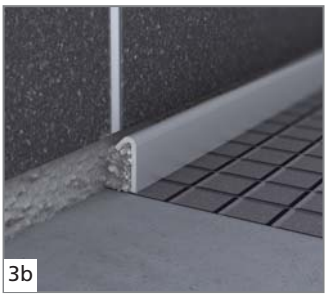
- wedi *Riolito* Wall profile
- wedi *Riolito* floor element


1a

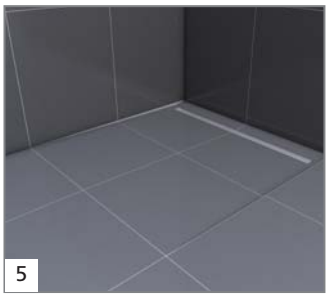

1b


2


3a


3b


4


5

Care instructions

Care instructions for stainless steel

Cleaning means removal of foreign objects from the surfaces. Given regular cleaning and care, stainless steel surfaces will maintain their appearance.

Impurities such as sand, dust, dried residues of drinks and food can be dissolved by using aqueous cleaning agents. Then, wipe off the dirt by using a wet cloth. Fats and oils are dissolved by using, alkaline or acidic cleaning agents.

Use special stainless steel cleaners in accordance with their respective instructions. When cleaning stainless steel, do not use steel wool or steel brushes as the corresponding abrasion material may result in rust forming. All cleaning agents should be free of hydrochloric acid and chlorine.

Occasionally occurring foreign rust originating from other rusted parts or air should be immediately removed by wiping off or by using a non-abrasive cleaning agent. Hardly soluble residues or minor scratches can be removed by using a plastic fibre fleece or sand paper suitable for stainless steel (min. grain size 280). Please note: always rub into the direction of the rubbing pattern already present – never rub diagonally to such pattern!

Preventative actions: aerosols rich in salts are highly aggressive; this particularly applies when there are high salt concentration on surfaces due to evaporation and the surface is not or only occasionally washed e.g. by rain. Depositing of solids such as soot resulting from improperly combusted oil usually results in accelerated corrosion.

Care instructions for Fundo floor elements

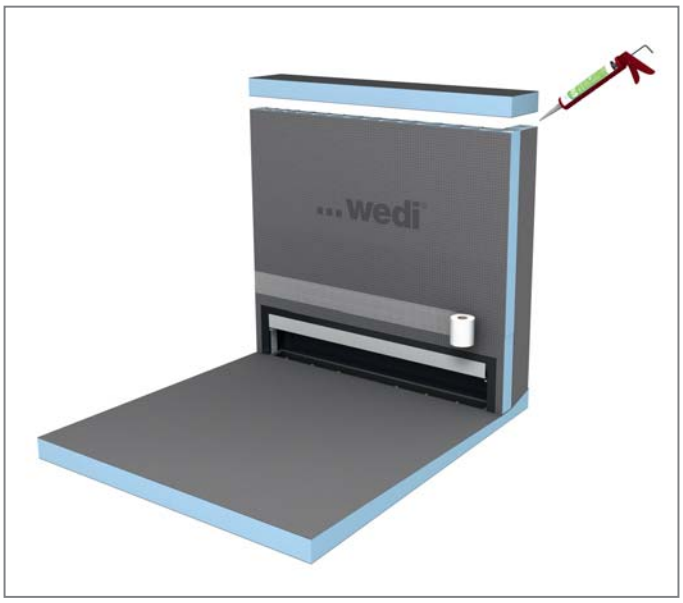
Stainless steel grate
With regular use and care, stainless steel will maintain its very appealing appearance. Impurities such as sand and soap residues can be dissolved by using aqueous cleaning agents. Then, wipe off the dirt by using a wet cloth. Fats and oils are dissolved by using, alkaline or acidic cleaning agents.

Occasionally occurring foreign rust can be removed by using stainless steel cleaning agent in accordance with the corresponding instructions.

When cleaning stainless steel, no steel wool or steel brushes should be used.

Hair trap and drain
Depending on the use, the hair trap should be removed and cleaned with clean water every 6 – 8 weeks. After installation, the air trap should be filled with water. The drain is made of high-quality plastics and, depending on use, should be cleaned with clear water every 6 – 8 weeks.

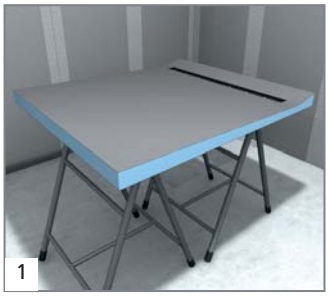
Visual wall drain



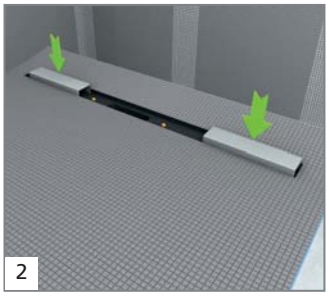
Timeless design and new possibilities. The completely new Fundo Riolito Discreto even tops the proven Riolito. As a simple attachment element, this clever innovation creates an attractive wall drain. The attachment element can also easily be extended in all directions. Whether as seating, storage area or full front wall, the design possibilities are endless with these system components. Perfect design.

wedi system components:

- Fundo *Riolito Discreto*
- Fundo *Riolito*
- wedi 610 adhesive sealant
- Fundo sealing set

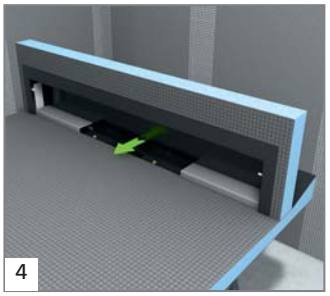


The Riolito Discreto element can be pre-assembled at a comfortable working height.

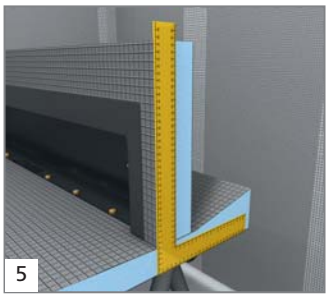


Insert the grey tiling guides. They are included in the scope of delivery of the Riolito shower element.

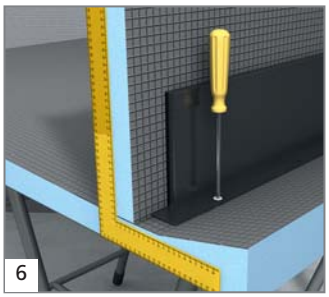
Place Discreto element into position and sparsely apply wedi 610 adhesive sealant. (Important: also apply to foam edge!).



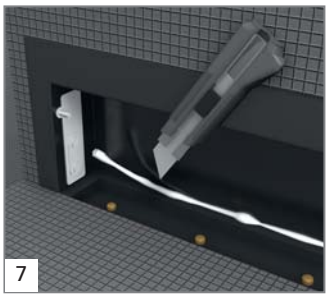
Place the Riolito Discreto element into the groove of the Riolito shower element and press down. The tiling guide limits forward movement/orientation.



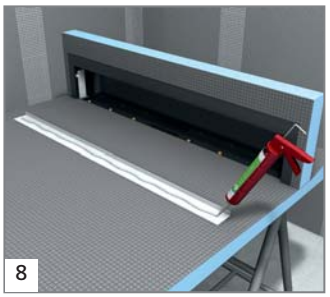
Check for correct alignment (perpendicular to underside of Riolito shower element).



Fasten the Riolito Discreto element from behind by using screws. This allows work to be continued immediately afterwards, without having to wait on hardening of the wedi 610 adhesive sealant.

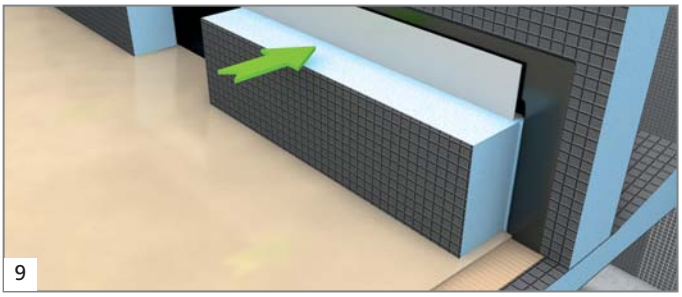


wedi 610 adhesive sealant pressed into the interior can be easily removed with a utility knife after it has hardened.

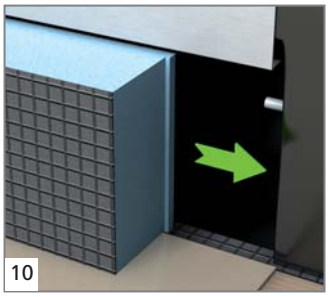


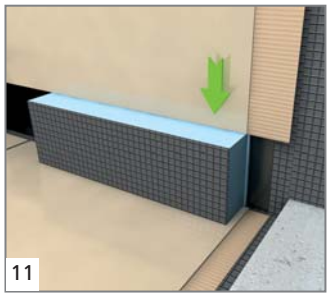
Apply wedi 610 adhesive sealant onto the back of the metal bracket.

Continuation of installation steps

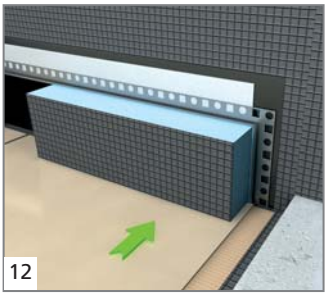

9

Take a floor tile. Place it into position and simulate the tile adhesive layer with a piece of cardboard. Place the wedi building board spacers onto the tile, and bond the metal bracket to the front of the Riolito Discreto element. Wait until the adhesive has dried (3 to 4 hours). Install the Riolito shower element in accordance with the Riolito installation instructions.

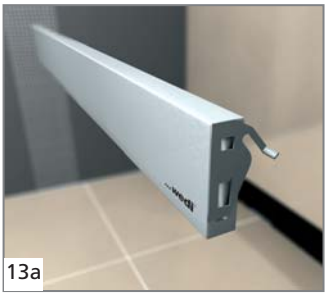

10

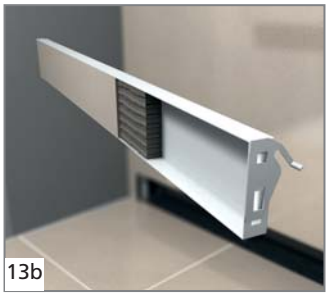

11

In order to retain the correct and required distance between the floor and wall tiles, use the spacers again, as described previously, and place them to the very outside and flush to the edge, with the lip facing outwards (see figure 10). This also applies to creating a frame from tiles profiles, as is illustrated in Figure 12.


12

Installation of spacers as described above also applies to creating a frame from tile profiles.


13a


13b

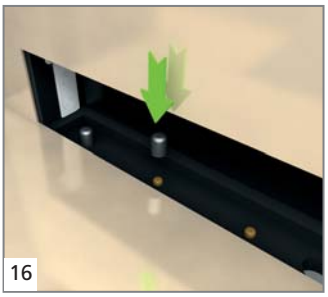
Select the desired side of the cover (stainless steel surface or tiled). Place the mounting bracket panels into the opening on the shorter side of the cover so that the hooks are facing backwards (away from the visible side). It is essential that position and alignment are checked again! This is because subsequent correction will not be possible with future tiling of the visible side.


14

Place the alignment template with the hole on the side fixture, and slightly unfasten the screws. Align the mounting bracket so that the template is flush to the wall tile and touches the floor tile.


15

Here, the flush position of the back edge of the template to the front edge of the mounting ensures the correct vertical position. Now tightly fix the mounting bracket using the Allen key.


16

The cover caps (scope of delivery, no. 8) should be pressed onto the visible threaded rods.


17

Finally, the cover is mounted. You can hear it click into place by pressing lightly on the upper edge.

- wedi building board systems
- wedi floor-level showers
- wedi design elements
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D 08/13 K 08/13 A 606890/282 Subject to technical modifications.

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