TECHNICAL DATASHEET
level shower tray
(concrete floor)

revestech®
WATERPROOFING SYSTEMS

PATENT NUMBER: ES 2585849

description

Complete kit for building a flat shower tray, 100% waterproof, to inset into the floor, suitable for coating the entire shower with the same tiling without slopes or steps, with drainage of water via the tiles joints.

Versatility: it enables the installation of various ceramic formats whenever we cover at least one of the measures of the shower floor, either width or length (as appropriate). Preferably porcelain coating.

Cleaning: Self-cleaning surface with antibacterial sanitary treatment. In addition, since there are no joints, this avoid the typical efflorescence that appears between the joints.

Maintenance: It has a profile system that allows the floor to be easily raised, allowing access into the shower floor and to the water trap. For the cleaning of the chosen tiles, follow the manufacturer's instructions.

Impact noise insulation: the 4 mm perimeter seal isolates the shower floor at all its joints, attenuating the transmission of impact noise.

1. shower tray
2. drain wih water trap
3. waterproof perimeter **band**
4. trim piece (optional installation)
5. tiling profiles
6. REVESTECHflex **adhesive**
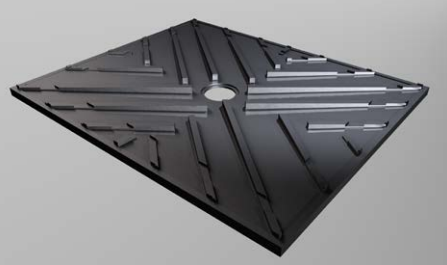**7. protector** in installation
8. cleaning key

advantages

· Invisible
· Waterproof.
· Completely flat.
· Self-cleaning surface with
 antibacterial sanitary treatment.
· Sound-absorbing material.

* Suitable to install on wooden floors. Do not increase the bathroom height. Minimun thickness (20 mm). Minimun installation height.
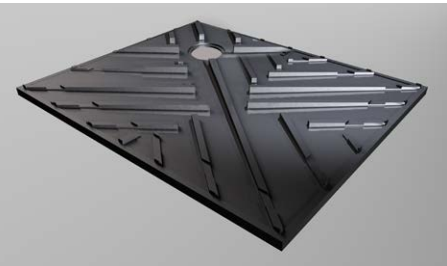
FOR CONCRETE FLOOR

CUSTOM MADE PRODUCTION UNDER ORDER

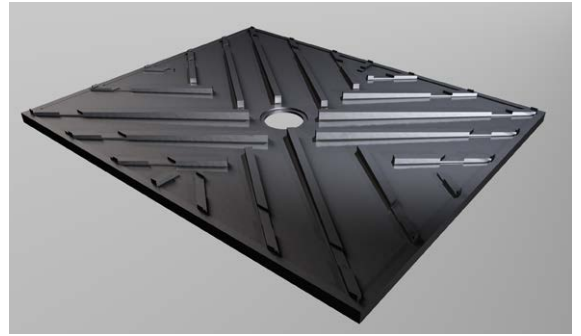| description	sizes
level shower tray 60x100	60 x 100 cm
level shower tray 70x90	70 x 90 cm
level shower tray 70x100	70 x 100 cm
level shower tray 70x120	70 x 120 cm
level shower tray 80x90	80 x 90 cm
level shower tray 80x100	80 x 100 cm
level shower tray 80x120	80 x 120 cm
level shower tray 80x140	80 x 140 cm
level shower tray 90x90	90 x 90 cm
level shower tray 90x100	90 x 100 cm
level shower tray 90x120	90 x 120 cm
level shower tray 90x140	90 x 140 cm
level shower tray 100x100	100 x 100 cm
level shower tray 100x120	100 x 120 cm
level shower tray 100x140	100 x 140 cm

FOR WOODEN FLOOR

CUSTOM MADE PRODUCTION UNDER ORDER

description	sizes
level shower tray W 60x100	60 x 100 cm
level shower tray W 70x90	70 x 90 cm
level shower tray W 70x100	70 x 100 cm
level shower tray W 70x120	70 x 120 cm
level shower tray W 80x90	80 x 90 cm
level shower tray W 80x100	80 x 100 cm
level shower tray W 80x120	80 x 120 cm
level shower tray W 80x140	80 x 140 cm
level shower tray W 90x90	90 x 90 cm
level shower tray W 90x100	90 x 100 cm
level shower tray W 90x120	90 x 120 cm
level shower tray W 90x140	90 x 140 cm
level shower tray W 100x100	100 x 100 cm
level shower tray W 100x120	100 x 120 cm
level shower tray W 100x140	100 x 140 cm

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components

1.1 shower former
FOR CONCRETE FLOOR

_height: 26 mm
_material: polyurethane

Top view

LEVEL FOR CONCRETE FLOOR:
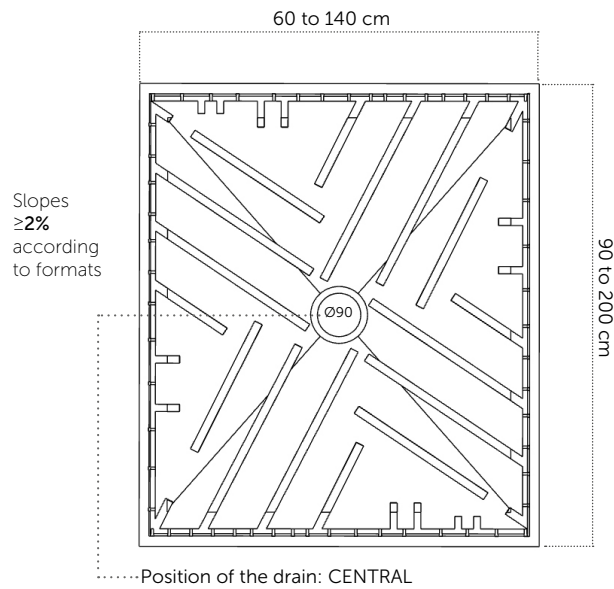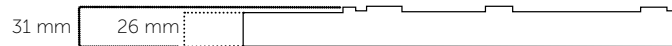
60 to 140 cm

Slopes
≥**2%**
according
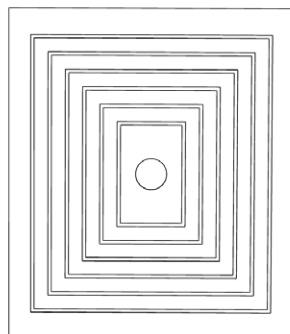to formats

Ø90

90 to 200 cm

········Position of the drain: CENTRAL

Side view

LEVEL FOR CONCRETE FLOOR:

31 mm   26 mm

Bottom view

It has dovetail-shaped grooves to improve
the C2 tile adhesive anchoring.

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1.2 shower former
FOR WOODEN FLOOR

_height: 20 mm
_material: polyurethane
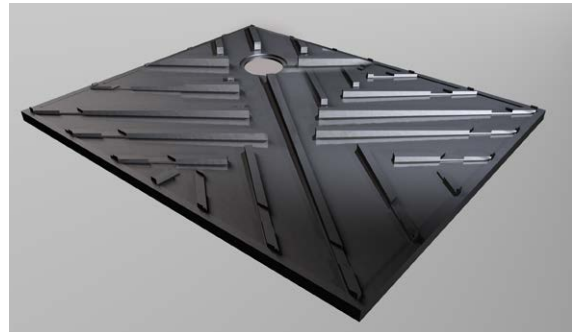
Top view

LEVEL FOR WOODEN FLOOR:
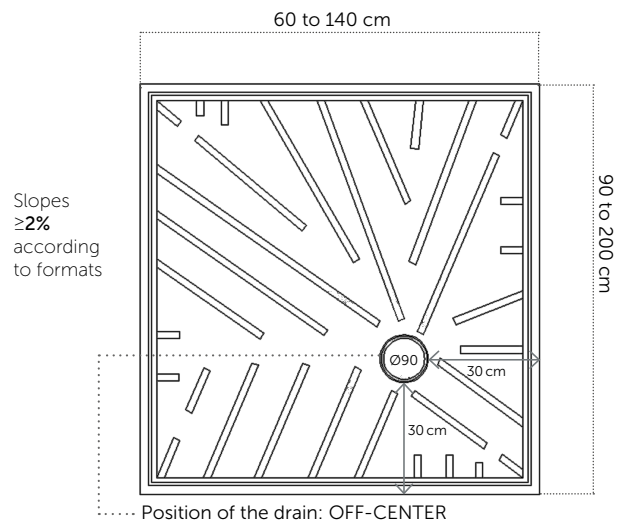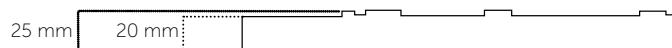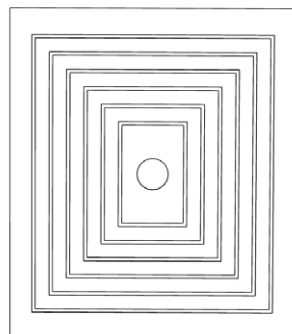
60 to 140 cm

90 to 200 cm

Slopes
≥**2%**
according
to formats

Ø90

30 cm

30 cm

Position of the drain: OFF-CENTER

Side view

LEVEL FOR WOODEN FLOOR:

25 mm | 20 mm

Bottom view

It has dovetail-shaped grooves to improve the C2 tile adhesive anchoring.

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2.1 **drain** with water trap
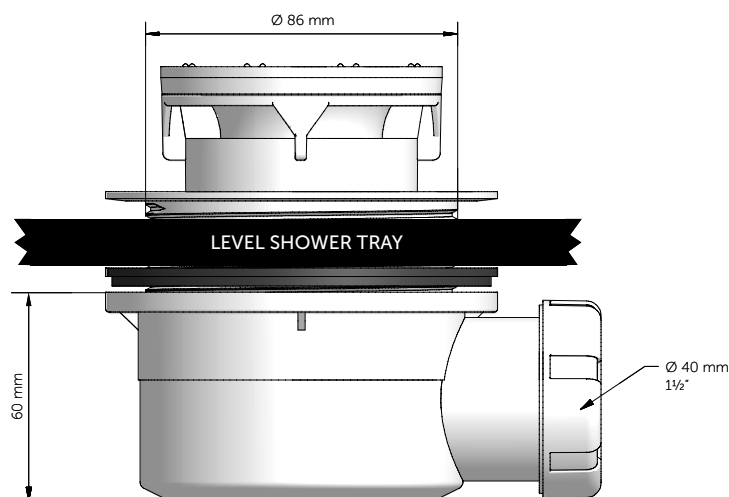
description

Drain with water trap (convertible into straight drain) for the invisible level shower tray with HORIZONTAL outflow (40 mm). It is placed at the centre of the tray and can be rotated through 360 °.

_drain installation height: 60 mm
_outlet: horizontal Ø40h
_rate flow: 0,5 litres/second S/UNE-EN 274
_composition: polyurethane

Ø 86 mm

LEVEL SHOWER TRAY

60 mm

Ø 40 mm
1½"

LEVEL SHOWER TRAY

drain
installation
height:
60 mm

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2.2 **drain** with water trap

ONLY AVAILABLE FOR UK MARKET
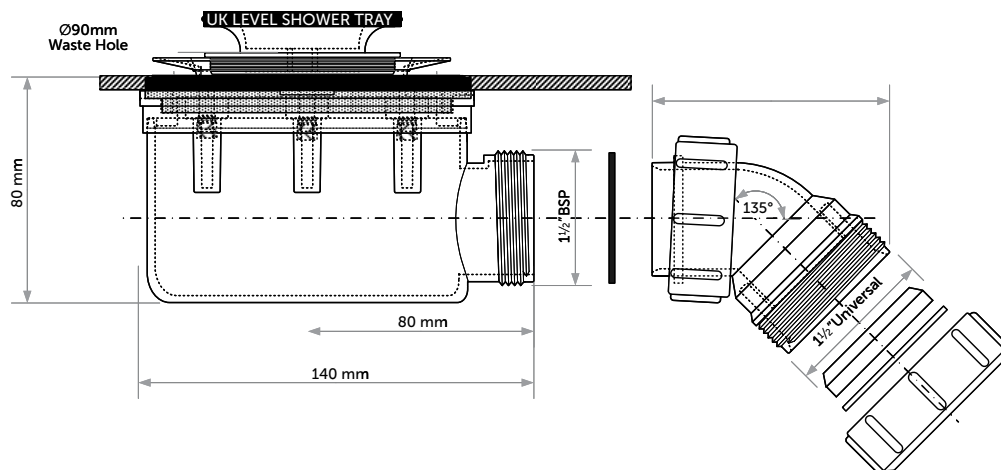
description

Drain with water trap (convertible into straight drain) for the level invisible shower tray with HORIZONTAL outflow (40 mm). It is placed at the centre of the level tray and can be rotated through 360°.

_level tray installation height: 80 mm
_rate flow: 0.5 litres/second S/UNE-EN 274
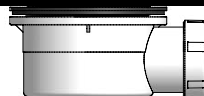_composition: polypropylene
_water seal: 50 mm

Ø90mm
Waste Hole

UK LEVEL SHOWER TRAY

80 mm

1½" BSP

135°

1½"Universal

80 mm

140 mm

UK LEVEL SHOWER TRAY

drain
installation
height: 80 mm
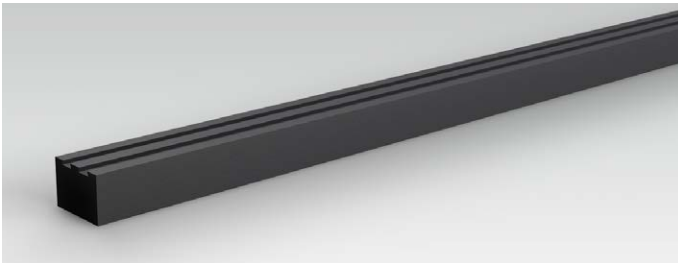
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components

3. perimeter **band**

description

Dry50 connecting band of 0.13 x 5 m/l for the treatment and waterproofing of the joints between the horizontal and vertical surfaces.

4. **trim piece** for the walls

description

14 mm x 14 mm compact PVC finish. On the raised side of the shower floor against the wall, it serves as a support bracket to prevent friction between the ceramic pieces. On the other side, against the wall, it acts as a decorative strip for a better finish. Its dovetail bottom favours the grip of the REVESTECHflex adhesive. 2 units of the longest shower floor dimension are included.

### 5. tiling **frames**

description

PVC profiles which serve to secure the tiles to the shower floor. They prevent movement of the parts and facilitate lifting for cleaning. 2 units of the longest shower floor dimension are included.

6. **adhesive** REVESTECHflex

description

High performance modified silane-based adhesive for bonding ceramics on profiles, and the perimeter strip on the wings of the shower floor (310 ml cartridge).
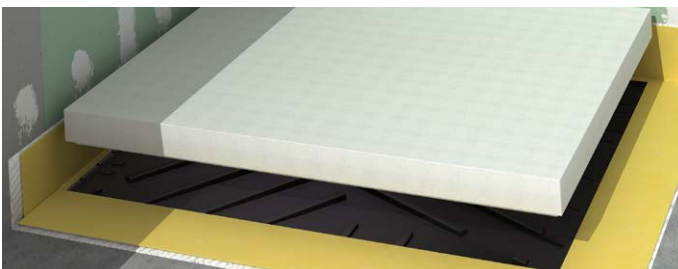
7. **protector** in installation

description

Protective piece in low density EPS, to avoid damage to the shower tray during the installation phase.

8. cleaning **key**

description

Tool made of 306 stainless steel, for facilitating lifting the tiles.

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technical data

level drain	testing method	unit	value
Outlet		mm	Horizontal 40
Outlet diameter		mm	40
Flow rate	Flow according to Standard UNE-EN 274	l/s	0,5
Composition	Polypropylene		

level shower tray	standard	unit	value
FILLING MATERIAL: Fire classification	EN 13501-1		E
SHOWER FLOOR TILING: Fire flammability testing	DIN 4102-98 part 1		B2
Compressive strength WITHOUT tiling	EN 826	kPa	2000
E-Modulus	EN 826	kPa	55000
Tensile strength	EN 1607	kPa	1500
E-Modulus	EN 1607	kPa	40000
Transverse tensile strength	EN 12089	kPa	2500
Shear modulus	EN 12090	kPa	600
Thermal conductivity at 10°C	EN 12667	W/mK	0,030*
Usage limit temperatures		°C	-70 +130

*The thermal conductivity values have been defined with Standard EN 12667 over 6 weeks at an average temperature of 10°C.
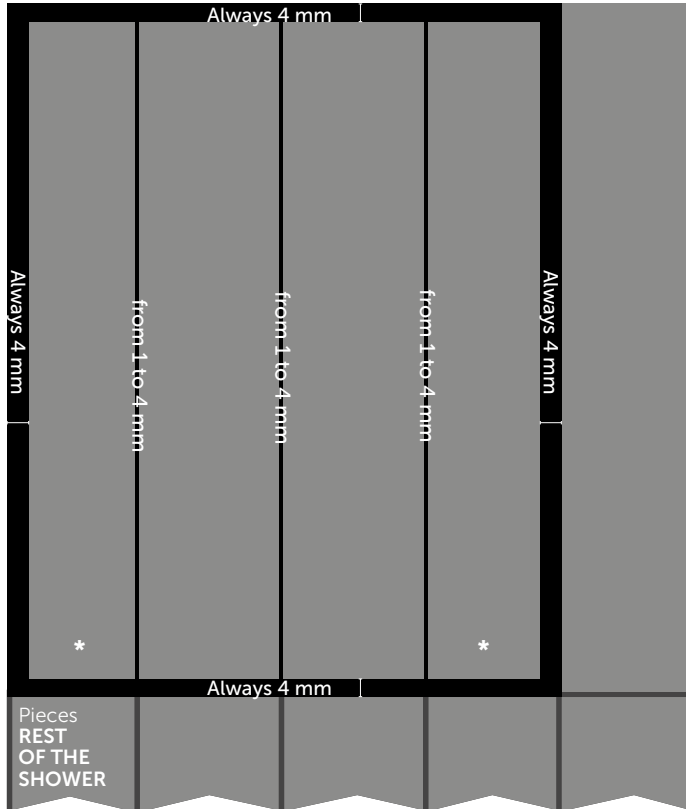
test	standard	results
WATER VAPOUR TRANSMISSION (Determination of properties)	UNE-EN 1931:2001	$\mu = 2496$
WATERTIGHTNESS	EOTA TR003	Watertight
RESISTANCE TO MECHANICAL DAMAGE Resistance to dynamic punching shear	EOTA TR 006	No breakage
RESISTANCE TO MECHANICAL DAMAGE (perforation) Resistance to static punching shear	EOTA TR 007	No breakage
RESISTANCE TO FATIGUE	EOTA TR 008	No breakage
RESISTANCE TO THE EFFECTS OF LOW TEMPERATURES (-10°C) Dynamic punching shear	EOTA TR 006	No breakage
MECHANICAL STRENGTH Resistance to heat ageing (200 days at 70°C) – (dynamic punching shear)	EOTA TR 011	No breakage
RESISTANCE TO FATIGUE Resistance to heat ageing (200 days at 70°C)	EOTA TR 011 and EOTA TR 008	No breakage
RESISTANCE TO WATER AGEING Resistance to ageing (punching shear)	EOTA TR 012 and EOTA TR 004	No breakage

resistance to chemicals	exposure for one week at room temperature
Methanol, alcohols	Not recommended
Petrol, diesel	No apparent damage
Toluene, Xylene	Not recommended
Water at 82°C for 14 days	No apparent damage
10% salt water, 50°C, 14 days	No apparent damage
Sulfuric, hydrochloric and phosphoric acids (<10%)	No apparent damage
Sodium and potassium hydroxides (<10%)	There is apparent damage
Acetic acid <10%	No apparent damage
DMF, acetone, THF	Not recommended

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seals

The diagram below shows an **overhead view of the seals on the level shower tray.**

Always 4 mm

Always 4 mm

from 1 to 4 mm

from 1 to 4 mm

from 1 to 4 mm

Always 4 mm

*

*

Always 4 mm

Pieces
**REST
OF THE
SHOWER**

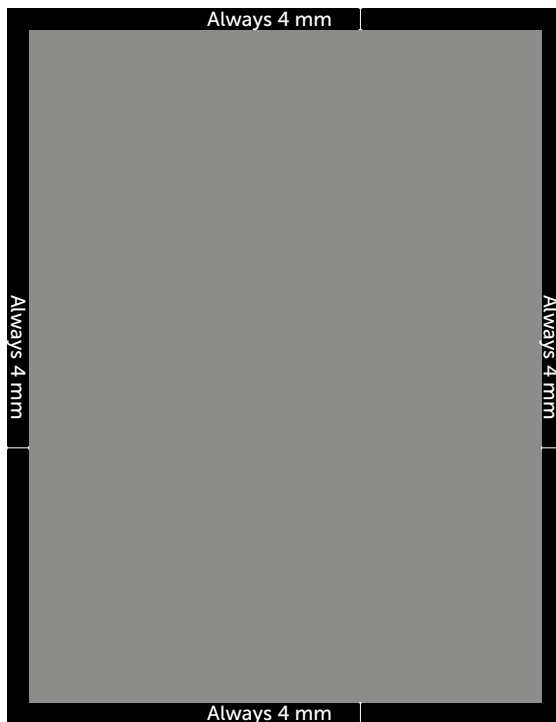## A_various tiles

SEALS **ON THE LEVEL TRAY**

Perimeter seals:

Remember that the perimeter of the tiles on the level shower tray **should always have a 4 mm seal** on all 4 sides.

Seals between tiles:

Except for the case in which there is a single tile, the seals between tiles should be **1 to 4 mm.**
* If using the same tiling throughout the bathroom, the tiles at the end of the level shower tray should be cut lengthwise to make all the seals match.
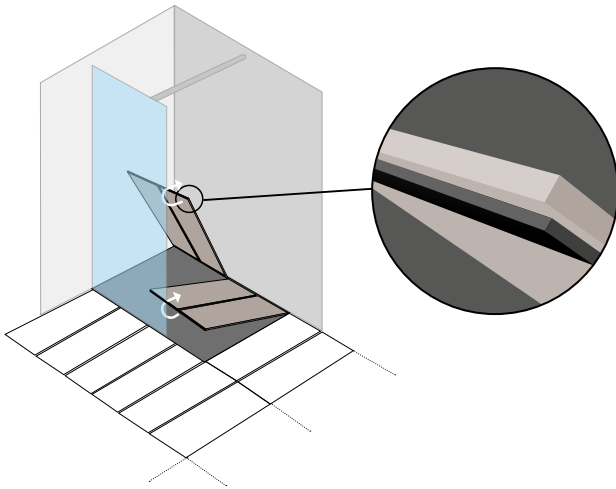
Always 4 mm

Always 4 mm

Always 4 mm

B_single tile

Perimeter seal:

The perimeter of the single tile of the level shower tray should **always have a 4 mm seal.**

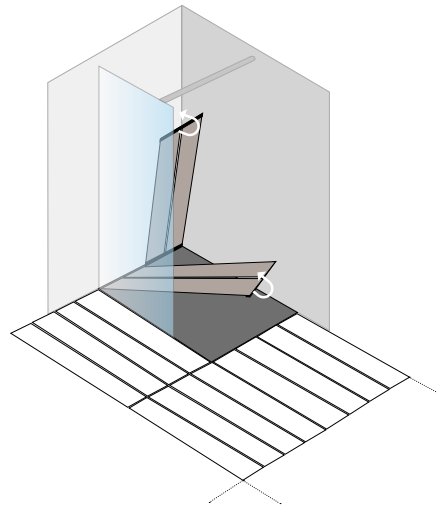Always 4 mm

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raised decking

LIFTING THE CERAMIC TILING

A_VARIOUS TILES_**HORIZONTAL** layout

B_VARIOUS TILES_**VERTICAL** layout

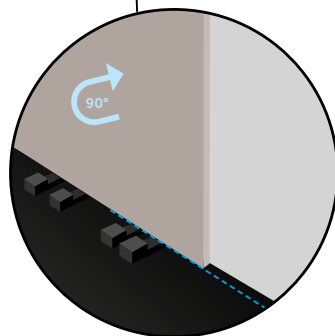**C_**SINGLE TILE_**HORIZONTAL** layout
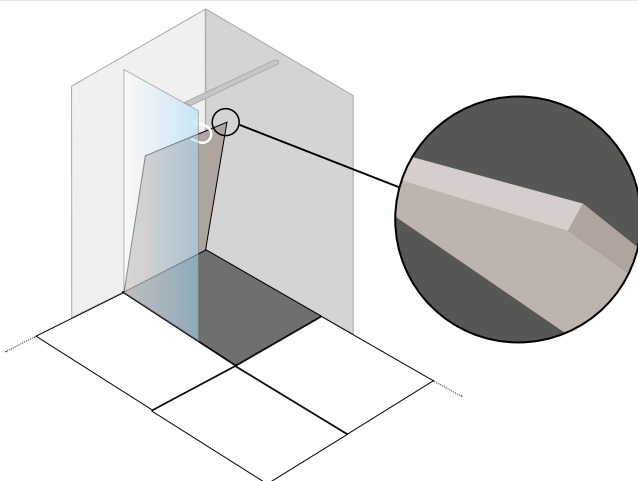
D_SINGLE TILE_**VERTICAL** layout
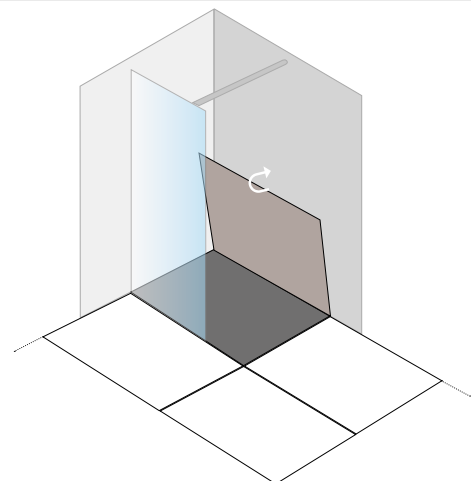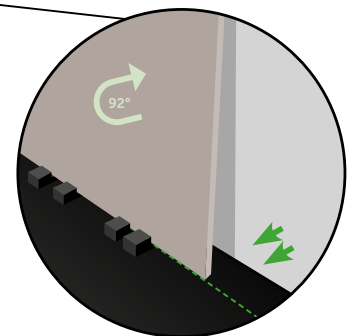

IMPORTANT

1. SUPPORT POSITION.
Having raised the decking with the aid of the key, remove the key and support it against the wall **TURNING it 90°.**

2. SAFETY POSITION.
Immediately push the lower part of the decking until reaching safety position, thereby supported by the stoppers projecting from the tray (green line). **TURNING it 92°.**

laying the tiles on the shower tray

Given the weight of the tiling, for easy elevation when cleaning the level shower tray, you must make one or more tracks, depending on the **measurement of the level tray** and the **size and layout of the tiles to be laid.**

The tracks are made by laying out the tiles on the level shower tray. Always taking the seals into account, cut the frames into one or more sections, leaving the floor of the tray divided into two or more tracks.

- Depending on **the tile size** make one or more tracks **(photos 1, 2 and 3)**.

- Depending on **the tile layout**, the number of tracks may also vary **(photos 4 and 5)**.

depending on the **tile size**

image 1

1 track
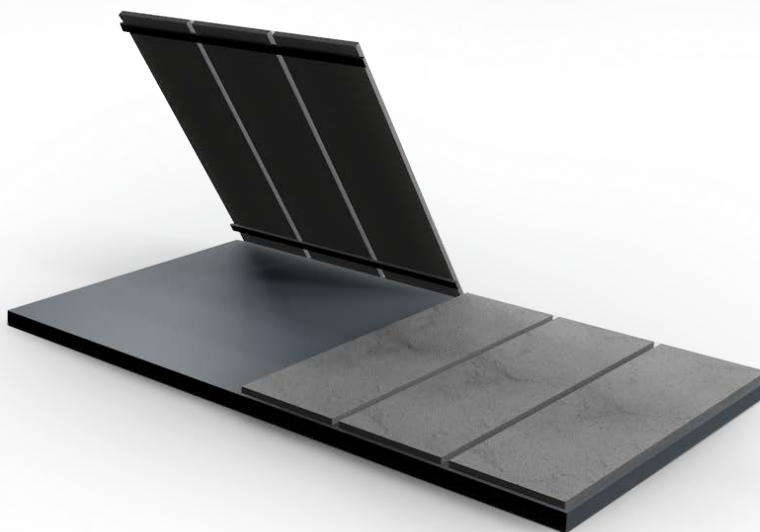1 ceramic tile

image 2

2 tracks
6 ceramic tiles

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image 3
3 access sections
12 ceramic tiles

depending on the **tile layout**

image 4
2 tracks
4 ceramic tiles

image 5
3 tracks
6 ceramic tiles

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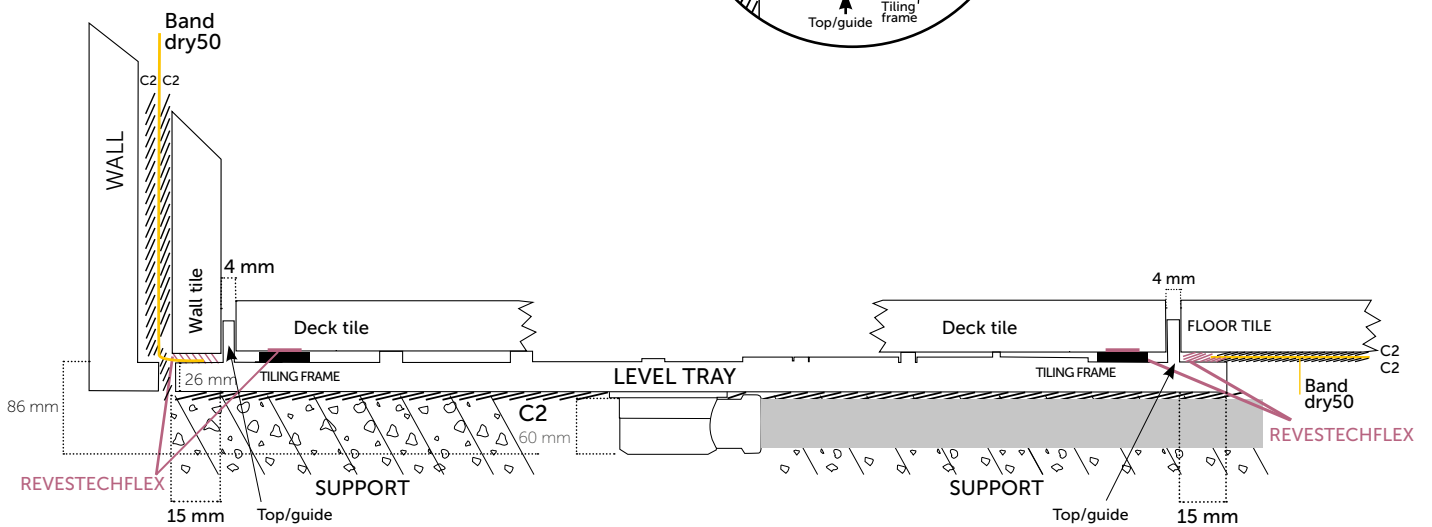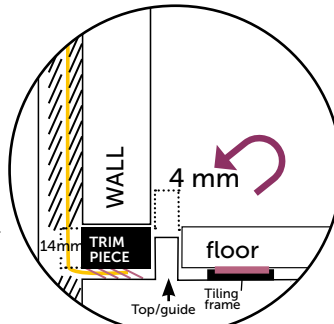
SHOWER FLOOR JOINTS

Detail of the joint at the edge of the level tray with the **WALL** tiling.

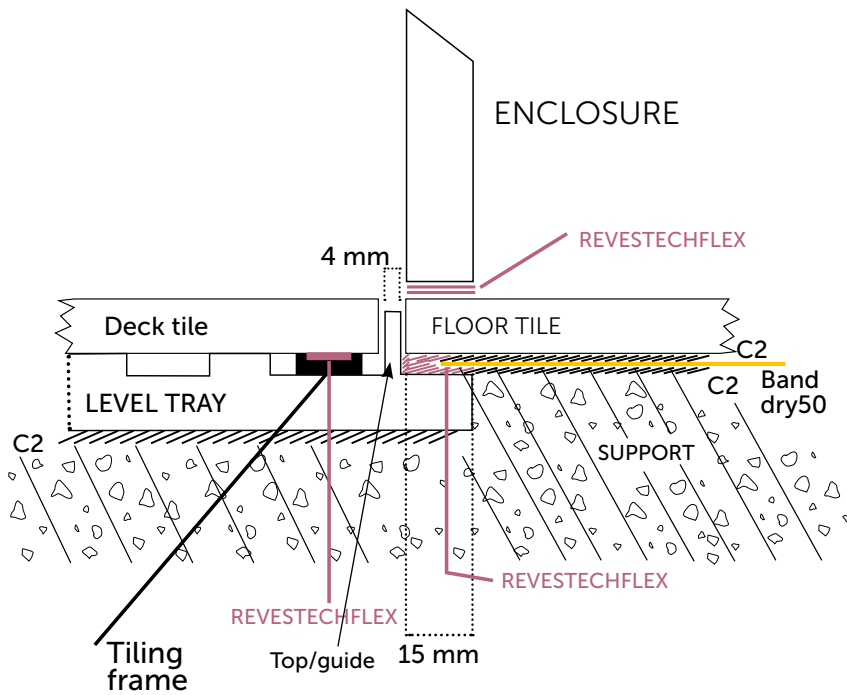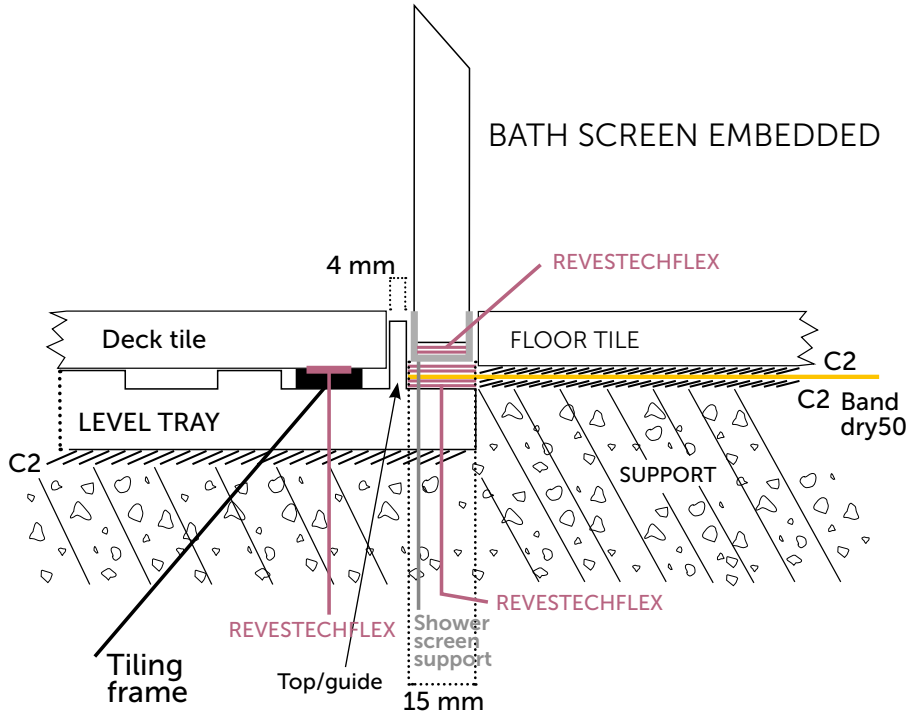Detail of the joint at the edge of the level tray with the tiling of the **REST OF THE SHOWER.**

WALL

Band dry50

C2 | C2

Wall tile

4 mm

deck tile

LEVEL TRAY

C2

REVESTECHFLEX

REVESTECHFLEX

SUPPORT

Top/guide

Tiling frame

15 mm

4 mm

Deck tile

LEVEL TRAY

C2

FLOOR TILE

C2

C2 Band dry50

SUPPORT

REVESTECHFLEX

REVESTECHFLEX

Tiling frame

Top/guide

15 mm

OPTIONAL: trim piece.

If for installation, do not want to support directly the tiles on the level tray, place the trim piece onto the flat part of the border of the tray.

WALL

4 mm

14mm | TRIM PIECE

floor

Top/guide

Tiling frame

Band dry50

C2 | C2

WALL

Wall tile

4 mm

Deck tile

26 mm | TILING FRAME

LEVEL TRAY

C2

60 mm

86 mm

REVESTECHFLEX

15 mm

Top/guide

SUPPORT

Deck tile

4 mm

FLOOR TILE

C2
C2

TILING FRAME

Top/guide

15 mm

Band dry50

REVESTECHFLEX

SUPPORT

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BATH SCREEN EMBEDDED

4 mm

REVESTECHFLEX

Deck tile

FLOOR TILE

C2

LEVEL TRAY

C2 Band dry50

C2

SUPPORT

REVESTECHFLEX

Shower screen support

REVESTECHFLEX

Tiling frame

Top/guide

15 mm

ENCLOSURE

4 mm

REVESTECHFLEX

Deck tile

FLOOR TILE

C2

LEVEL TRAY

C2 Band dry50

C2

SUPPORT
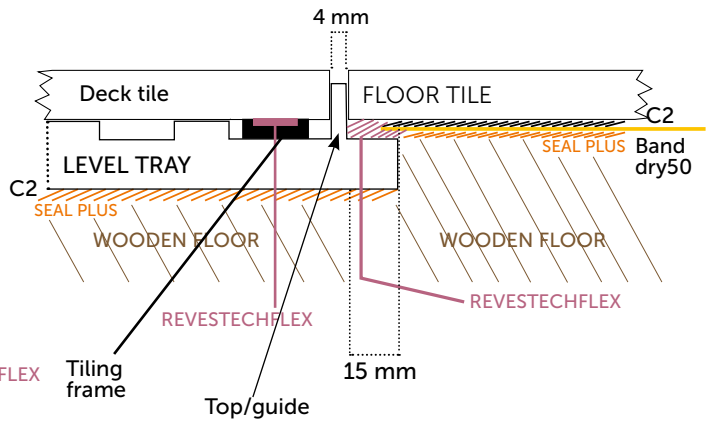
REVESTECHFLEX

Tiling frame
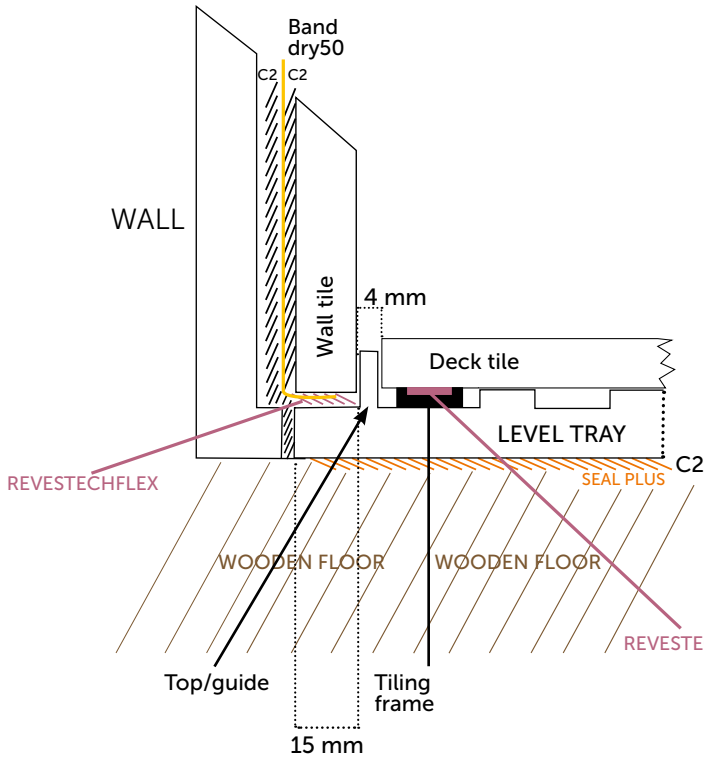
Top/guide

15 mm

REVESTECHFLEX

joints WOODEN FLOOR
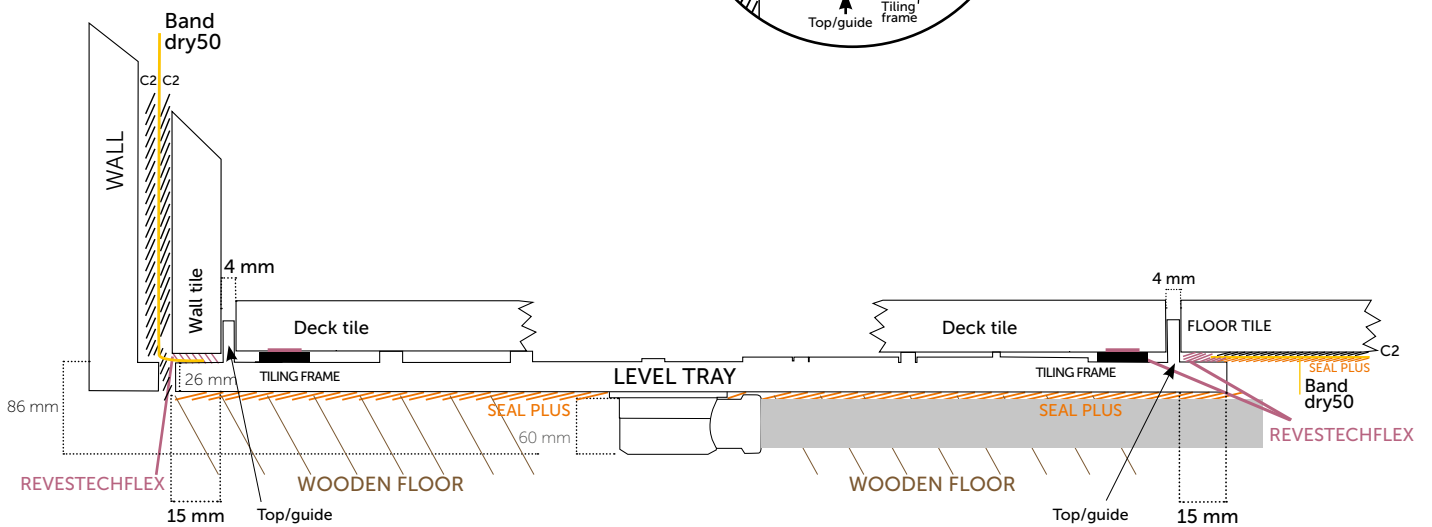
SHOWER FLOOR JOINTS- ON WOODEN FLOORS
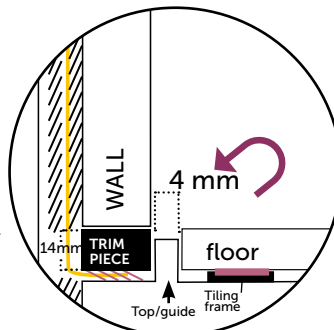
Detail of the joint at the edge of the level tray with the **WALL** tiling.

Detail of the joint at the edge of the level tray with the tiling of the **REST OF THE SHOWER**.

OPTIONAL: trim piece.
If for installation, do not want to support directly the tiles on the level tray, place the trim piece onto the flat part of the border of the tray.

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Detail of the joint between the lining of the level tray and the screen.

BATH SCREEN EMBEDDED

4 mm

Deck tile

FLOOR TILE

REVESTECHFLEX

C2

LEVEL TRAY

SEAL PLUS Band dry50

SEAL PLUS

WOODEN FLOOR

WOODEN FLOOR

REVESTECHFLEX

Tiling frame

Top/guide

REVESTECHFLEX

Shower screen support

15 mm

ENCLOSURE

4 mm

Deck tile

FLOOR TILE

REVESTECHFLEX

C2

LEVEL TRAY

SEAL PLUS Band dry50

SEAL PLUS

WOODEN FLOOR

WOODEN FLOOR

REVESTECHFLEX

Tiling frame

Top/guide

REVESTECHFLEX

15 mm

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