

EVOLUX SYSTEM

Linear drainage / Square drainage

Easy-to-install integrated waterproof membrane and trapped floor gully

Product guide



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DESCRIPTION, CHARACTERISTICS AND COMPONENTS

It comprises a section of WATER-STOP waterproofing membrane, factory-sealed to a special adapter to connect to a low profile floor gully and a stainless steel shower drain and grill.

TECHNICAL, AESTHETIC AND PRACTICAL EVOLUTION

Separate installation of the drain body and the waterproof membrane, which is easier and more practical.

Push fit, flexible connections with elastic uncoupling: no gluing needed

The floor gully is easy to adjust and align with the flooring because of the flexibility of the connections

Minimum installation height of 90 mm including the flooring of 9 mm total thickness with adhesive.

Dripping holes for secondary drainage with backflow preventer system

The water seal can be eliminated.

Accepts large-format floor coverings with 1 or 2 slopes to the linear drainage.

Different grill installation positions possible.

- Sideways, away from the wall.
- Traditional central installation with 4-way slope.
- Completely flush to the wall with 1 or three slopes with the PERFIL LATERAL optional accessory.

WATERPROOFING



In the EVOLUX system LINEAR KIT;

2 x 2 m (4 m²) WATER-STOP membrane with the connector in lateral position centred widthways and 25 cm from the edge.

In the EVOLUX BASE set (depending on model);

BASE 3: 1.5 x 2 m (3 m²) WATER-STOP membrane with the connector centred at widthways and at 2/3 lengthways (66 cm from the nearest end).

BASE 4: 2 x 2 m (4 m²) WATER-STOP membrane with the connector in lateral position centred widthways and 25 cm from the edge.



DRAIN

The EVOLUX BASE set doesn't include drain extension and cover. It must be completed with the EVOLUX shower drain and grill, which can be chosen among the different models available.

Drain bodies and grills of AISI 304 stainless steel 1.5 mm thick. Measures and designs depending on model.

- Linear drains 69 mm width with internal slopes and 53 mm wide grid defining a slot of 6 mm on each side for water drainage. Available in 6 sizes: 60 / 70 / 80 / 90 / 100 and 120 cm long.
- A traditional square shape for central draining with 4-way slope. The exterior dimensions of the drain tray are 11.6 x 11.6 cm, with internal slopes and a 10 x 10 cm grill defining a 6 mm-wide perimeter drainage slot. The INTEGRA model accepts a standard 10 x 10 tile insert.
- A smart, modern rectangular shape for central draining with 4-way slope or for an unconventional 3-way slope when installed flush to the wall using the PERFIL LATERAL accessory. The exterior dimensions of the drain tray are 15 x 30 cm, with internal slopes and a 13.4 x 28.4 cm grill defining a 6 mm-wide perimeter drainage slot.

5 models of shower grating designs available:

- LISA - With satin finish and plain design.
- PLUS, RIO and ZEN - With satin finish and laser-cut patterned.
- INTEGRA - With a section designed to accept a piece of the same material as the surrounding flooring and comes with special accessories that with a few simple steps in the installation, make it a hidden drain.

DRAINAGE

Low profile trapped floor gully which complies to EN 1253, parts 1 and 2

Side outlet with DN/OD 50 connector. It can be angled through 360°

50 mm-high water seal (can be eliminated).

Reducer: DN 50/40

Push fit connections with O-rings and sliding joints; not gluing.

Drain body and connector: ABS ; Reducer: PP; Joints: EPDM

Flow rate from 0.4 l/s to 0.65 l/s depending on model.

ACCESSORIES FOR INSTALLATION AND MAINTENANCE

Installation cap to protect the drain and mark the suitable screed level.

Template to use when installing with a very low flooring pavement or the INTEGRA system.

2 sealing reinforcement for interior corners W-S DIN.

2 sealing reinforcement for shower inlet pipes W-S TUBO.

Hair trap.



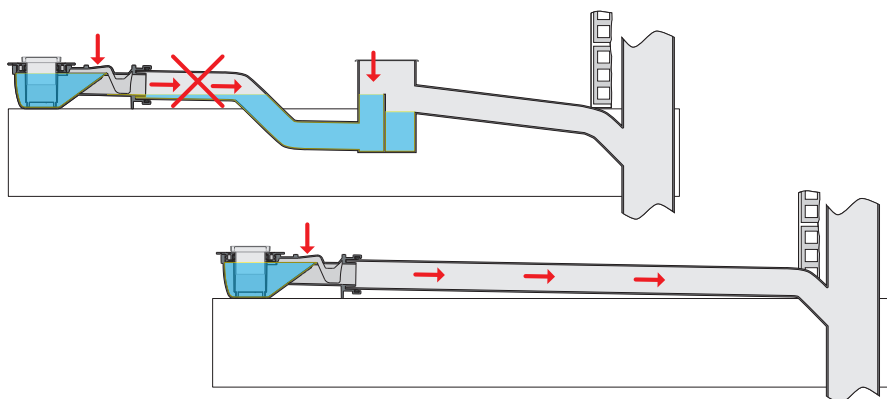
GENERAL INSTALATION PROCEDURE FOR THE EVOLUX SYSTEM

Prepare the shower area

- Decide on the height or depth required to ensure at least 1.5 % gradient towards the drain. At the drain point, a minimum base thickness of 110 mm is required (including 3 to 25 mm tile thickness with adhesive).

Install the siphon body

Warning: Before starting the installation it is very important to check if you need a trapped drain.



The system main body is designed as a trapped drain but the water seal can be left out to avoid the risk of clogging for double-trapping when installed with an external drum trap: just remove the tubular piece (1) and then open the bottom part of the outlet pipe (2). This is a section made with breaking line that can be easily broken using a screwdriver or similar (3).



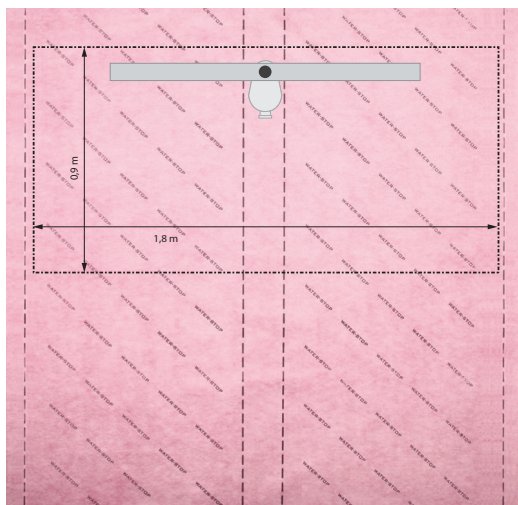
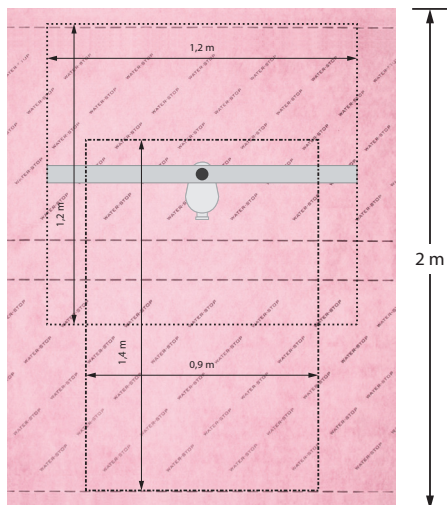
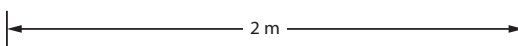
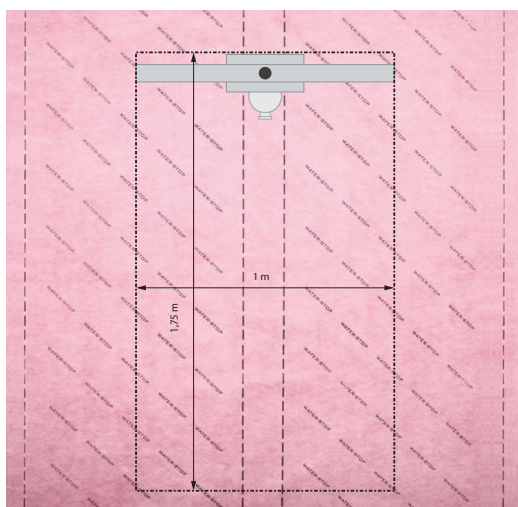
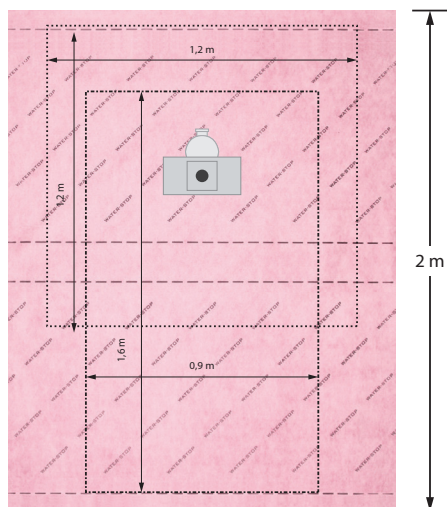
You cannot remove the water seal after the installation nor replace it. It is advisable to keep the drain trapped and connect directly to the waste pipe without going through an external trap.

- Install the floor gully body and position the outlet to allow connection to the waste pipe.
- Check that the outlet has the necessary gradient (minimum 1.5 %) towards the waste pipe.
- Connect the floor gully outlet to the drain pipe. If needed use the reducer 50/40 supplied. Lubricate the joint with soapy water, introduce the drain pipe and slide up to the limit.

NEW FORMATS / NEW CONNECTOR POSITION / MORE SHOWER CONFIGURATION OPTIONS

WITH THE BASE 3 m²

WITH THE BASE 4 m²





Make up the cement screed base

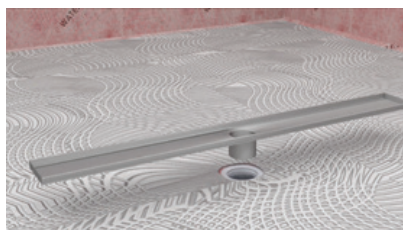
- Cover the floor gully mouth with the cap supplied.
- Pour cement screed up to the level indicated on the protective cap.



To make up for the height when installing a very thin flooring as mosaic glass tiles, microcement or other (less than 7 mm total flooring depth) and for installing EVOLUX INTEGRA System, you must use the TEMPLATE provided. To do this, follow the instructions in the relevant sections later.

- Make the necessary slope or slopes depending on model and position of the drain body
- Install the waterproof barrier
- Once the cement base has set remove the installation template, unroll and position the WATER-STOP membrane. Cut to size (remember to leave 10 cm on each side to seal wall and floor joints).
 - Connect the membrane by introducing the adapter into the floor gully and press down until it pushes home.
 - Fix the membrane with C2 tile adhesive to the cement base which must be clean and dry.
 - Extend the ends of the membrane up the wall by at least 10 cm.

Position the shower drain



- If necessary, prepare the drain by assembling the PERFIL LATERAL accessory.
- Lay a piece of the flooring to set a reference height for the installation.
- Lubricate the shower drain outlet with soapy water and slide into the connector.
- Apply a small amount of C2 class tile adhesive to each side to help seat the shower channel and press together.
- Level, align and adjust the height according to floor thickness so that the upper edge is flush to the flooring.

Position the flooring



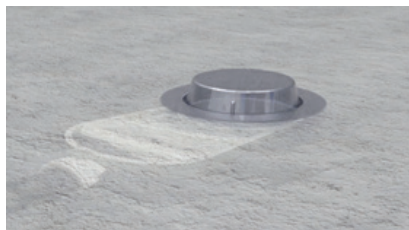
- Cement directly to the WATER-STOP membrane using C2 tile adhesive.
- Seal the joint between the flooring and the shower channel edge with W-S MASTIC or similar and position the grill.

PARTICULAR INSTRUCTIONS FOR INSTALLING WITH THE TEMPLATE

When making up the cement screed base

- Pour the cement up to the level marked on the protective cover, embedding the floor gully.
- Position the installation template in the cap.

To install the template in linear drains, the wings must be assembled on the central section and adjusted to the size of the channel by cutting each wing along the corresponding dotted line.



The template is the right size for 120 cm channel. To adjust to the size of the channel being installed, the wings must be cut symmetrically. Follow the cutting lines to adjust for 100, 90, 80, 70 and 60 channels.

- Align the template according to where the drain will be and pour cement screed up to the top of the template, forming the necessary slope or slopes.

When installing the waterproof barrier.

- Once the base has set, remove the drain protection cover and the installation template.
- Connect the membrane to the floor gully as indicated in the general procedure and apply class C2 tile adhesive under the membrane in the hollow left by the template, then bond the membrane by pressing to fit the shape.



- Bond the waterproof membrane over the rest of the surface as indicated in the general procedure and then set the the shower channel.



PARTICULAR INSTRUCTIONS FOR EVOLUX INTEGRA SYSTEM INSTALLATION

Prepare the shower area

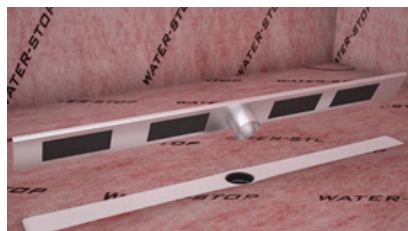
- Proceed as indicated in point 1 of the general procedure, but remember that the drain point needs a minimum height of 90 mm plus the thickness of the flooring material and adhesive.

Install the siphon body

- Proceed as indicated in point 2 of the general procedure.

Make up the cement screed base using the TEMPLATE and install the waterproof barrier

- Once the cement base has set remove the installation template, unroll and position the WATER-STOP membrane and then lay it as indicated in the previous section for using the template.



Position the shower drain

EVOLUX INTEGRA SYSTEM SPECIAL ACCESSORIES

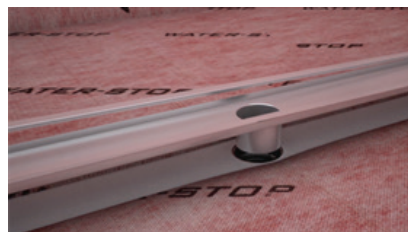
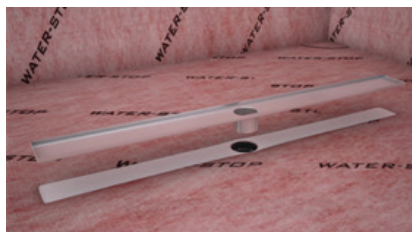
Installation TEMPLATE (according to the model)



PERFIL LATERAL



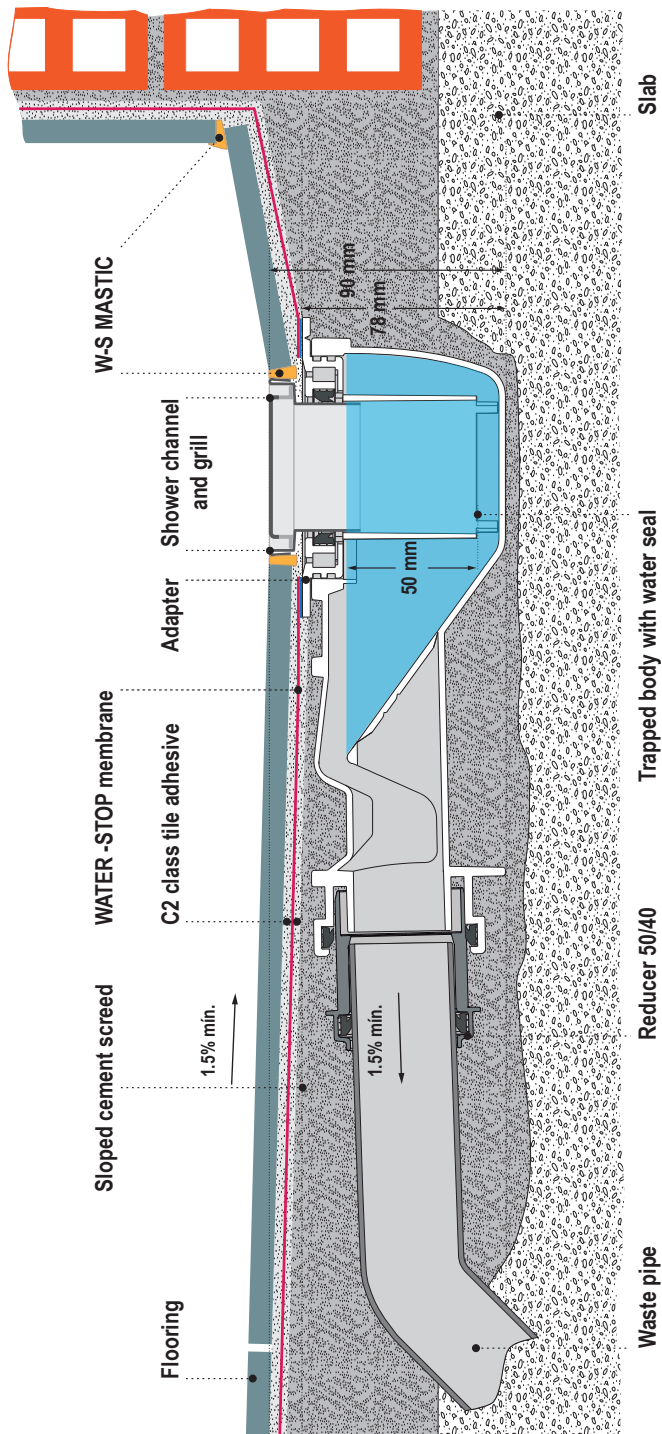
Spacers



- Prepare the drain body by assembling the PERFIL LATERAL accessory as dripping edges.
- Place it as indicated in the general procedure.
- Proceed to level, align and adjust the height so the membrane is flush.

Insert the facing

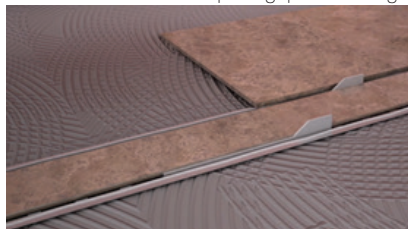
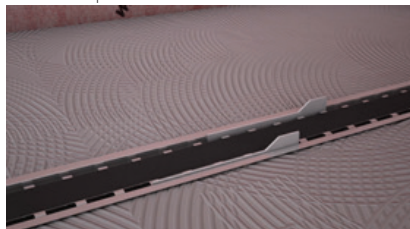
INSTALLATION DIAGRAM



EVOLUX System installation example with 9 mm flooring thickness

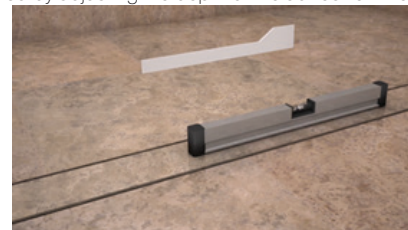


- Cut the facing piece to size to cover the grill, making sure there are no sharp edges. Cut the facing according to model:
 - Square drain models must respect the perimeter slot and the facing piece must measure 100 x 100 mm for the square form and 134 x 284 mm for the rectangular form.
 - The facing piece for linear drain models must measure 52 mm wide and be as long as the grill, depending on model.
- Place the cover plate frame in the shower channel and offer up, without bonding, the facing piece.
- Insert the spacers each side in the slots in the channel to ensure there is adequate gap for drainage



and to set the starting point for laying the flooring.

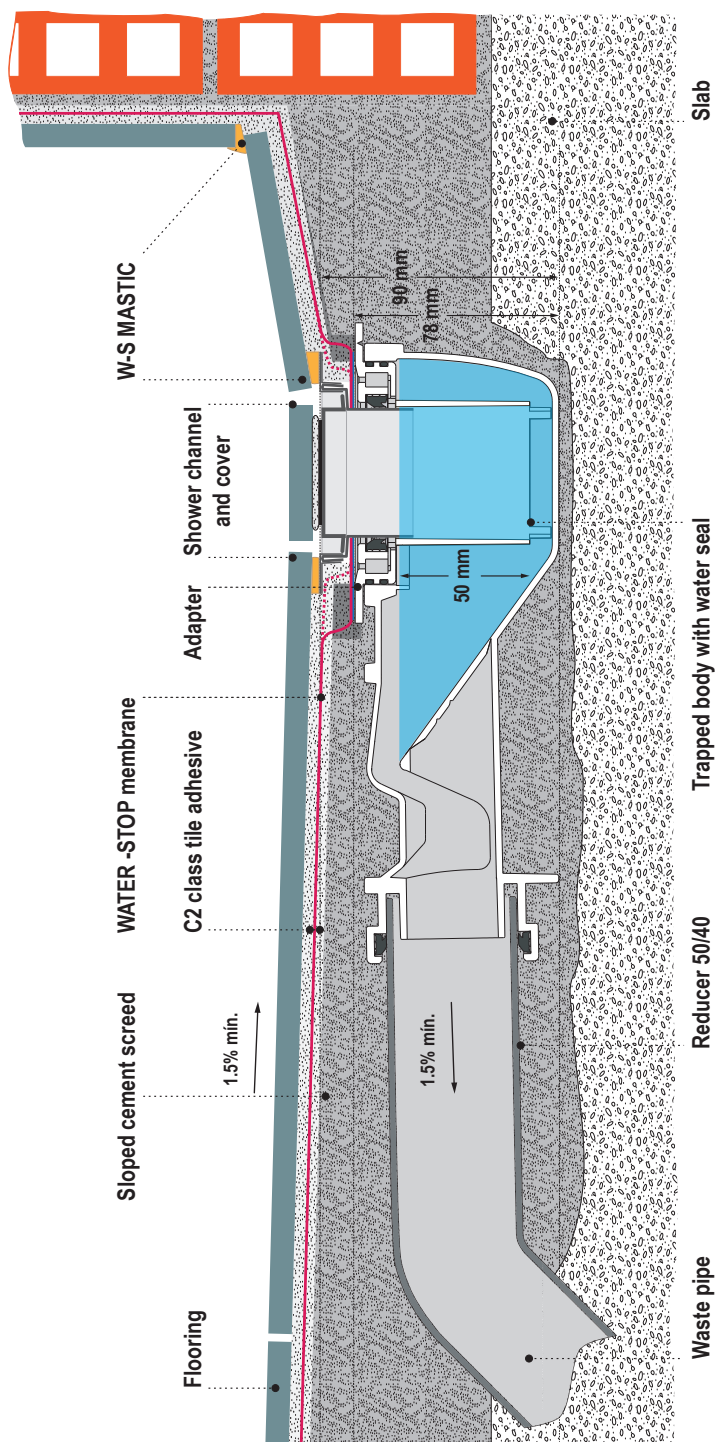
- Apply a thin line of W-S MASTIC or similar alongside the dripping flanges and begin laying the flooring directly on the waterproof membrane using C2 tile adhesive.
- Apply adhesive to the rough face of the grill frame and bond the facing material, ensuring it is centred using the spacers.
- The grill must lay flush with the flooring, which is achieved by adjusting the depth of the adhesive. The



same tile adhesive can be used as that used to lay the shower flooring.

- Finally, remove the spacers from the slots. Preparar la canaleta montando los perfiles vierteaguas laterales.

INSTALLATION DIAGRAM



EVOLUX INTEGRA System installation example with 9 mm flooring thickness



IMPORTANT: REMARKS AND RECOMMENDATIONS

The outlet pipe must have a gradient of at least 1.5% towards the drain (a 1.5 to 2 cm drop every metre). The length of this section must not exceed 1 metre.

The flooring must be flush with the grill so when installing the drain body, ensure that its height allows the flooring to be installed later.

The nominal flow rate at 3 bars of pressure for most domestic shower heads is between 9 and 20 litres/minute (between 0.15 and 0.35 l/s). Shower drains must have a minimum capacity of 0.40 l/s (24 litres/minute) for a single shower head. These values do not apply to multi-jet showers or where multiple showers are installed with a single drain.

The stated minimum installation height is the minimum possible for the floor gully dimensions. Each installation will require a real minimum height that allows the outlet pipe to have the required gradient towards the main drain, plus the thickness of flooring and adhesive.

TO ADAPT THE POSITION OF THE DRAIN: if the position of the drain needs to be moved, leading to an overlap of membrane on one side and a gap on the other, the membrane can be cut (always bearing in mind the minimum required 10 cm overlap at the wall) and stuck back to cover the gap, respecting the 5 to 10 cm overlap required for joints, and ensuring that the proud edge is facing downstream from the water flow.

TO COMPLETE THE WATERPROOF MEMBRANE: bear in mind that to ensure complete waterproofing, the walls must be sealed as well as the floor, with the membrane installed to a height of 2 m.

As a minimum we recommend sealing the walls around the inlet and outlet plumbing by 10 cm above the height of the plumbing and down to the floor.

TO BOND OVERLAPS: in showers and small indoor surfaces which will not be at risk of flooding, C2 tile adhesive can be used. If water tightness is required, the overlaps can be sealed using a mastic sealant as W-S MASTIC or W-S BUTIL double-sided tape.

TO BOND WATER-STOP TO THE SURFACE: on concrete, brick or render use C2 tile adhesive. For other surfaces such as plaster, old tiles and others, ensure the adhesive is appropriate for use with the base and follow the manufacturer's instructions.

TO BOND FLOORING MATERIAL TO WATER-STOP: on tiled floors use C2 tile adhesive. For other surfaces such as wood, textile, vinyl and others, uses an appropriate adhesive for the material and for use in wet conditions and follow the manufacturer's instructions.

