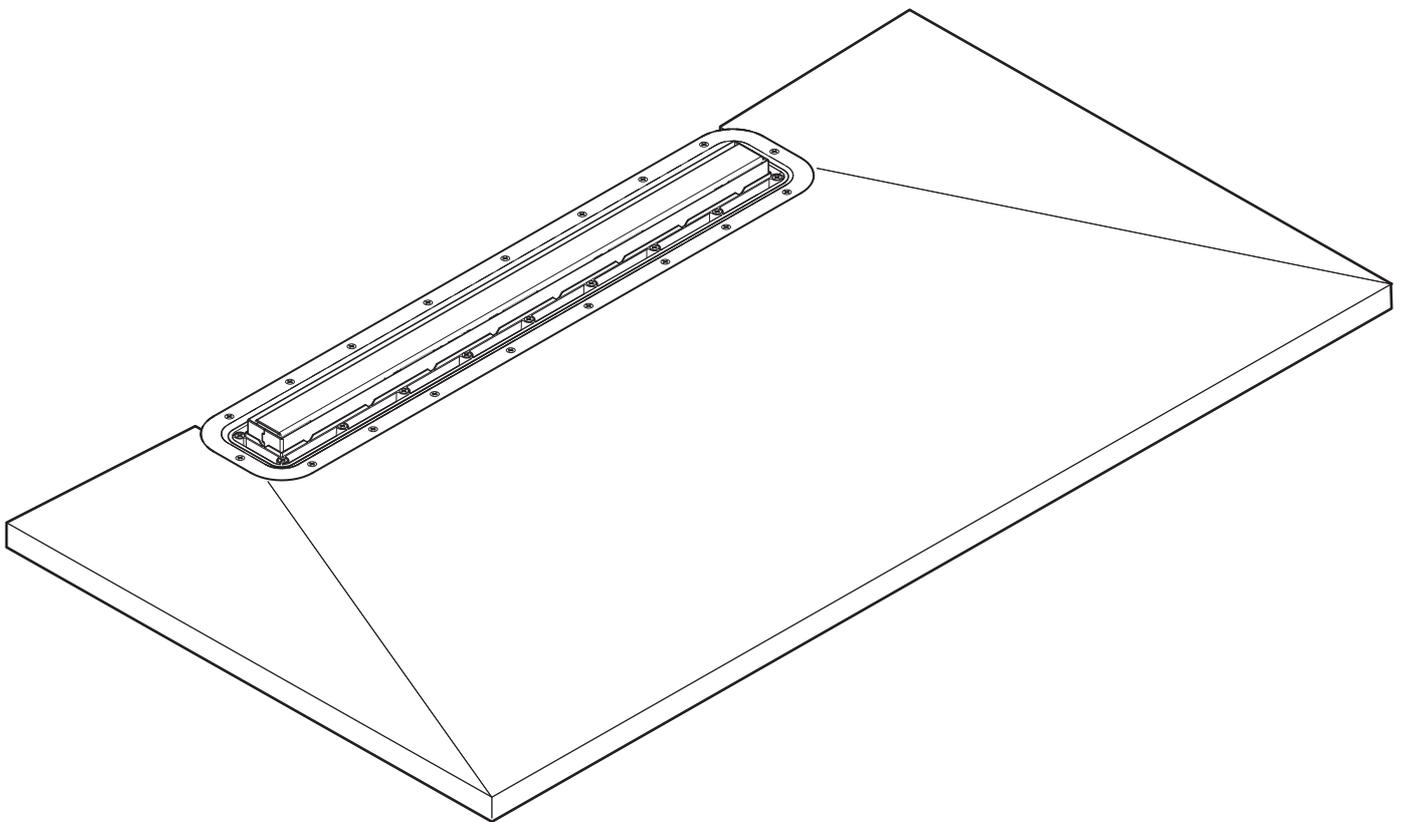




Aqua-Dec Linear 3 Installation Guide



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Safety

- **Please read these installation instructions carefully before proceeding.**
- Keep guide for future reference.
- If you are unsure about any part of the installation, please contact our Technical Department on: 01460 258682.
- Incorrect installation will invalidate the guarantee.
- **Please note:** we recommend a flow rate no greater than 40 L/min for use with this product. Ensure your shower unit does not exceed this*.
- Make sure there are no hidden pipes or cables in the floor or walls where you intend to drill.
- Ensure you have the appropriate PPE.
- Handle with care.
- This product can be installed on wooden or concrete floors.
- Please ensure all packaging is disposed of responsibly and recycled where appropriate.

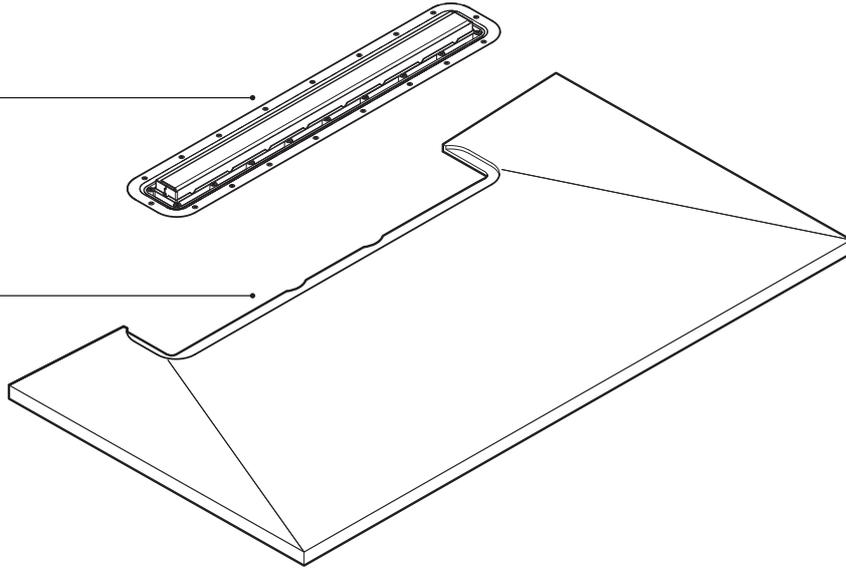
**Flow rates stated are maximum and are subject to variation depending on site conditions and Dec size. Site conditions include the type, position and number of shower sprays. All products must be installed strictly to manufacturers instructions and may be subject to change without prior notice. Please contact our technical department for further information.*

Refer to installation guides supplied with Linear drain, membrane and underfloor heating where applicable.

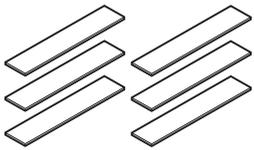
Linear drain assembly

See component list supplied with drain assembly

Aqua-Dec Linear 3



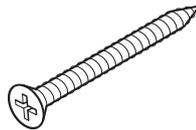
4mm Packers x 6



3/4" x 8 self tapping screw
(Drain channel fixing screws) x 18



5 x 60mm wood screw
(Dec fixing screws) x 26

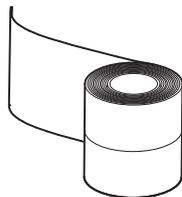


This product must be fitted in conjunction with Impey Waterguard membrane (sold separately). Components and kits listed below.

Acrylic primer for walls & floors (WGPR) refer to manufacturer's instructions for use



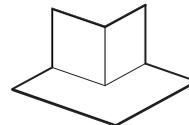
Waterguard jointing tape 2 x 10m (WGJT10) or 1 x 15m (WGJT15) rolls available



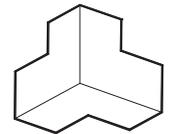
Butyl joint sealer (WGJS)



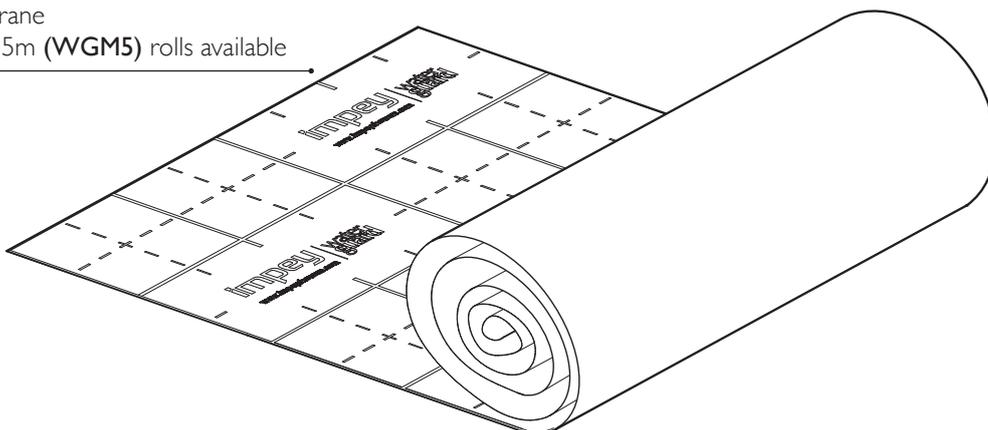
External preformed corner (WGEPC) x 1



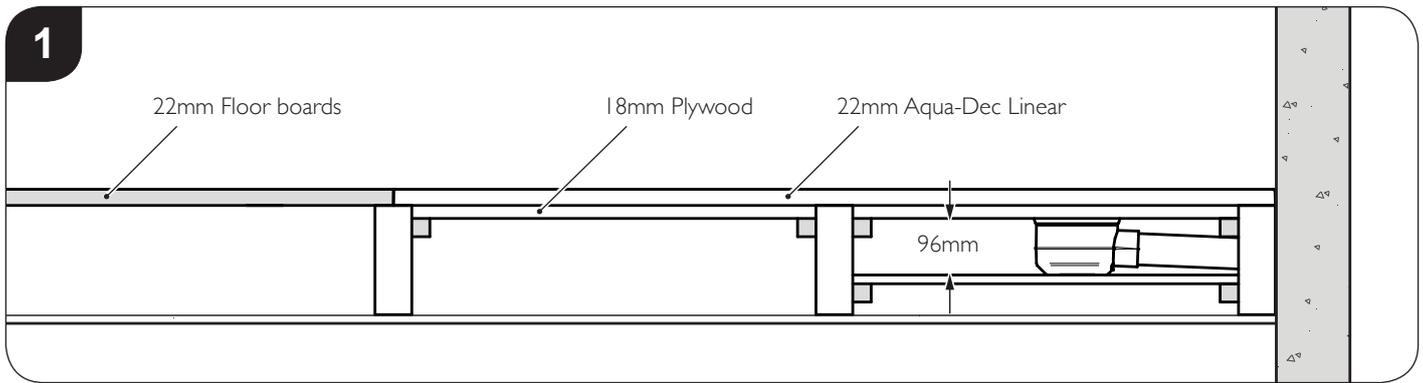
Internal preformed corner (WGIPC) x 4



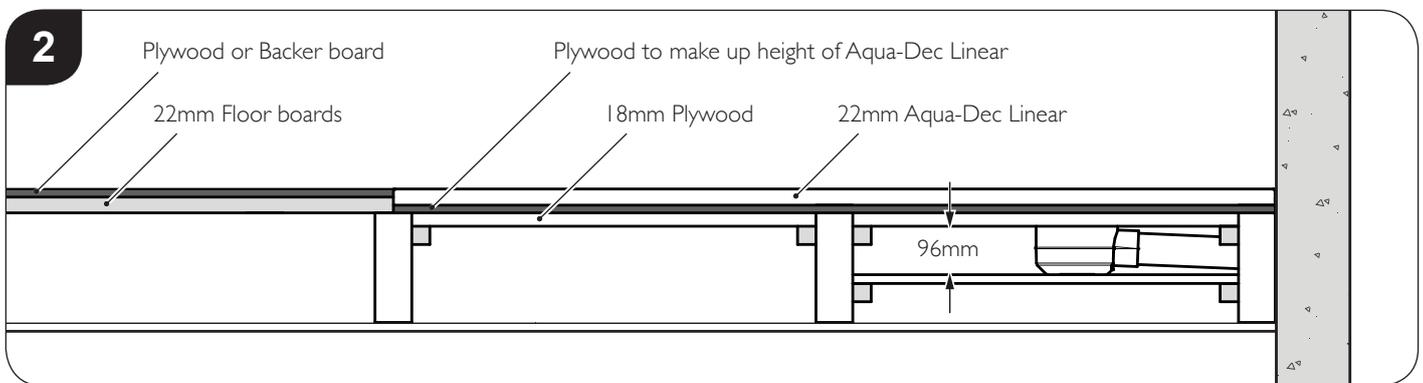
Waterguard membrane 10m (WGM10) or 5m (WGM5) rolls available



Cross section of Dec and joists (standard installation)

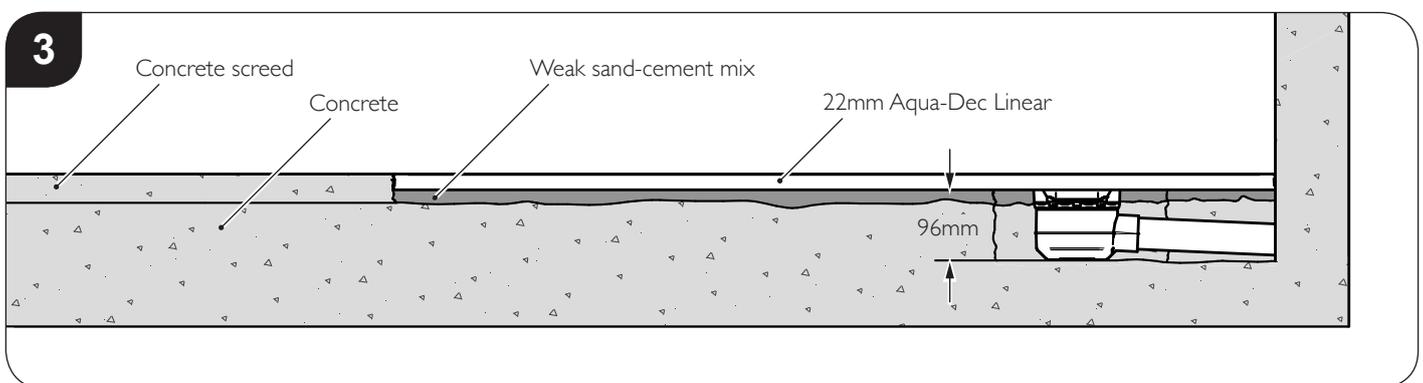


Cross section of Dec and joists (plywood/backer board installation)

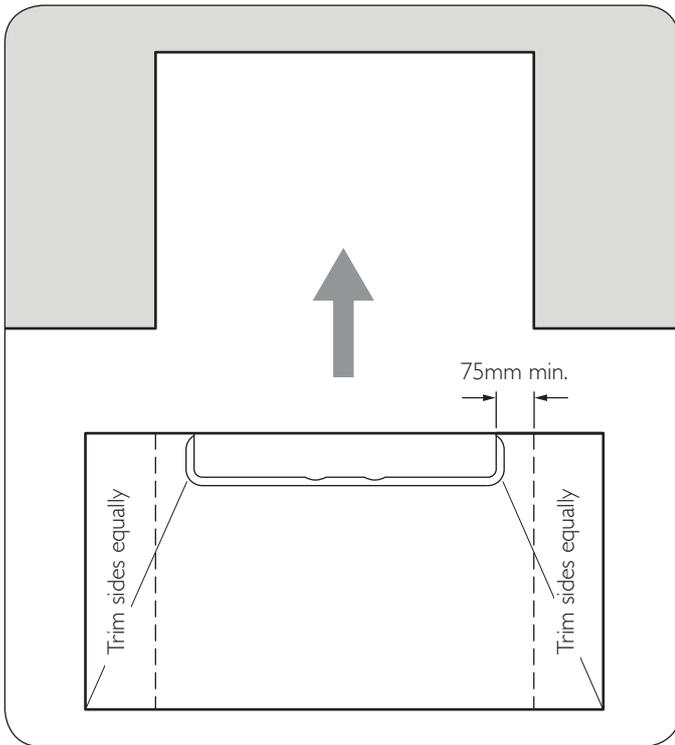


This stage may not be relevant in all installations. In some situations additional treatment will need to be carried out to the existing timber floor; this may require the floor to be overlaid with a tile backer board or suitable plywood. Refer to the relevant British Standard codes of practice and the tile adhesive manufacturer's recommendation for more information. If the floor does need to be overlaid then the Aqua-Dec Linear 3 will need to be raised in order that it remains flush with the surrounding floor. This can be done by simply inserting a sheet of plywood of suitable thickness on top of the 18mm platform already created.

Cross section of Dec and concrete floor



General - Installation into an alcove

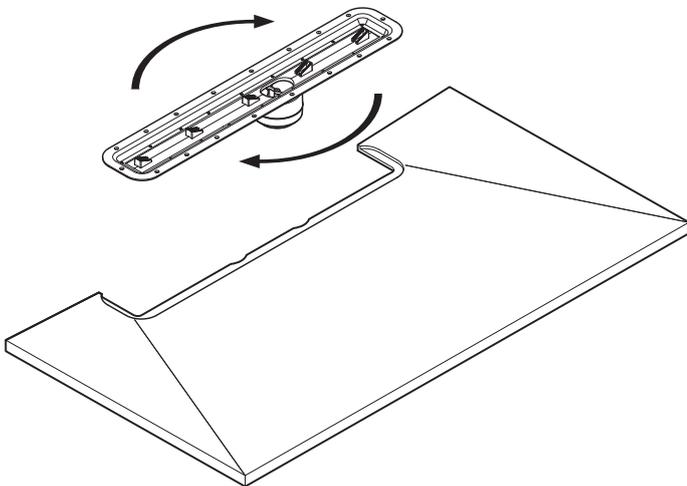


The Dec can be trimmed to fit into an alcove.

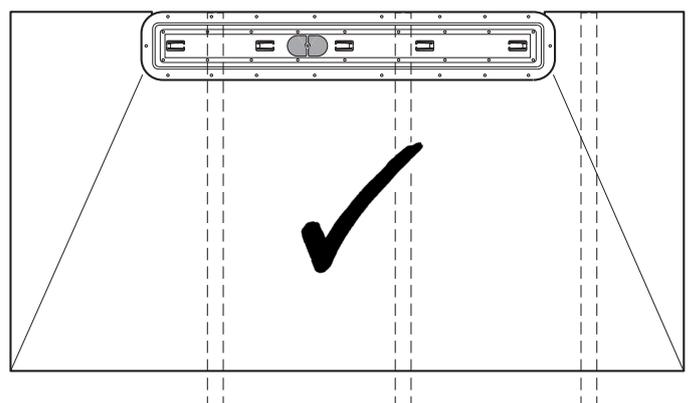
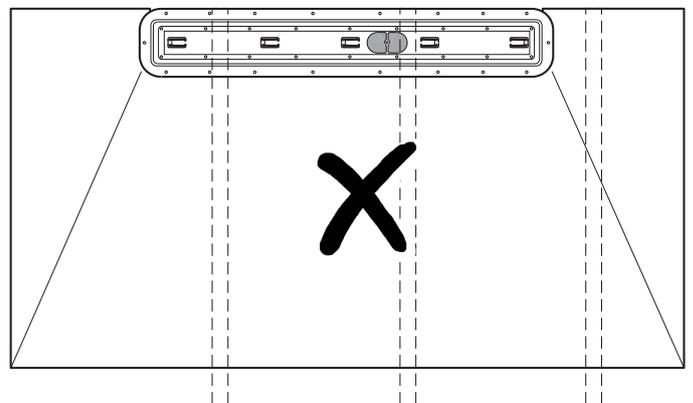
Ensure the Dec is trimmed equally on both sides and no closer than 75mm from the drain edge.

Note: The Dec must only be cut to fit a wall to wall alcove installation, as shown.

Wooden floors - Drain rotation



The Linear drain can be rotated for the drain sump to avoid the joists.



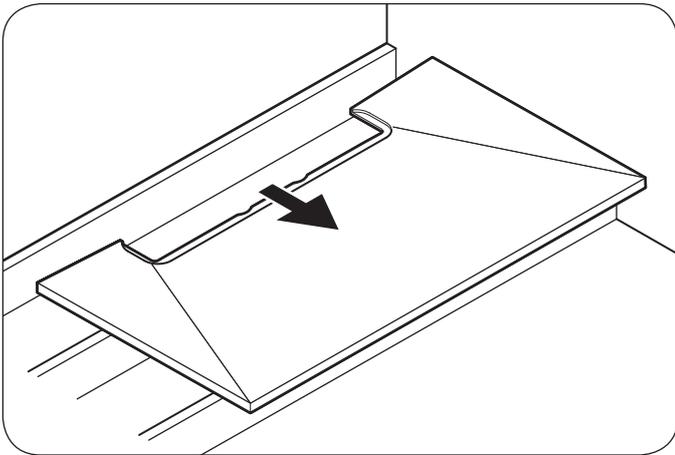
Wooden floors - Joist/Drain sump collision

If the Drain sump position collides with a joist additional measures may be required during the installation to overcome the problem.

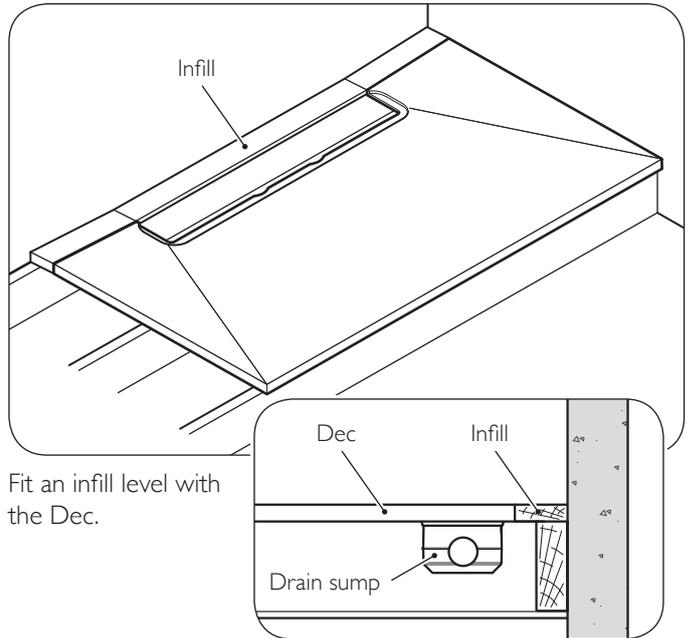
Do not cut the joist to allow installation of the sump.

Depending on the position of the joists, an 'Infill' or 'False wall' may need to be constructed and extra noggins added to support the Dec.

Option 1 - Fit an Infill

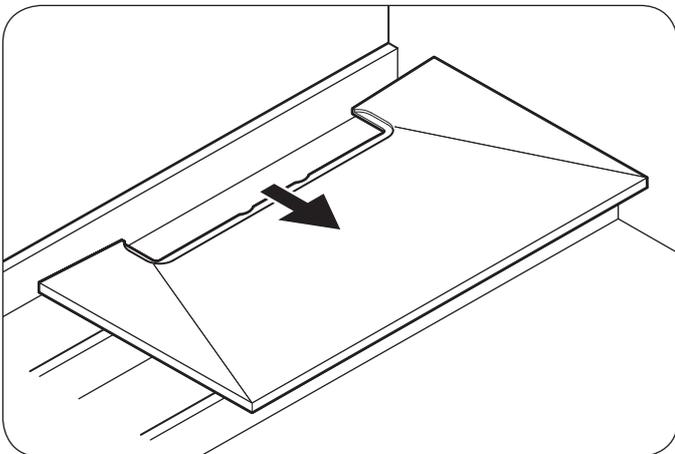


If a joist collides with the drain sump, move the Dec away from the wall.

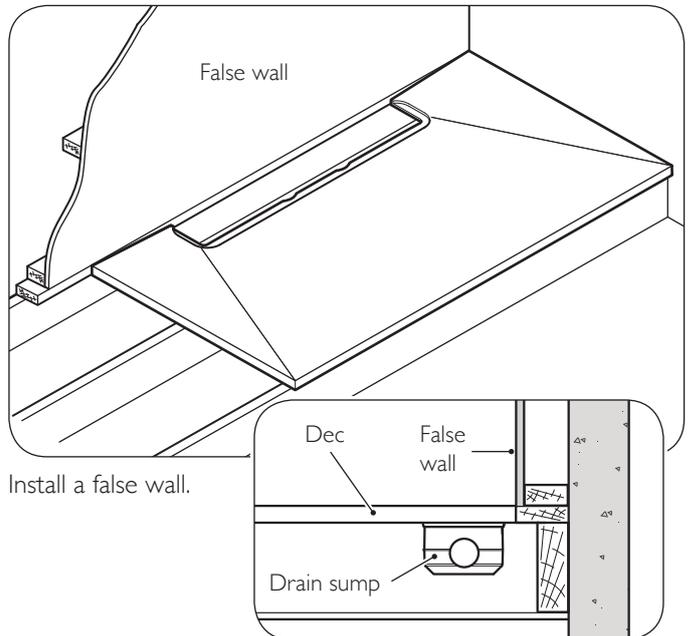


Fit an infill level with the Dec.

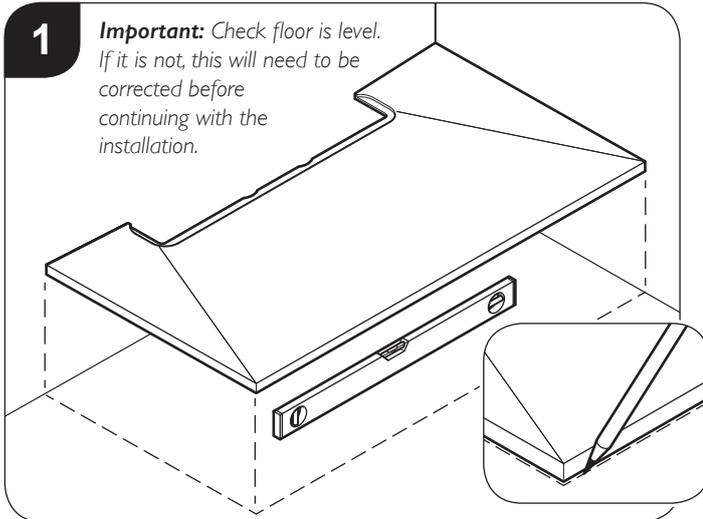
Option 2 - Install a false wall



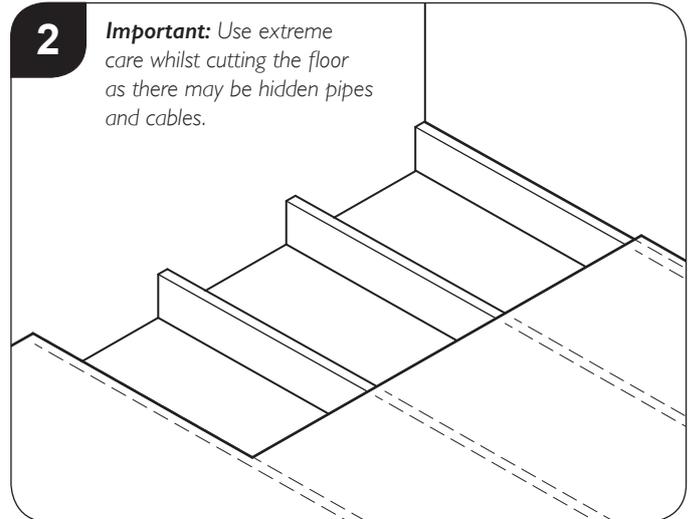
If a joist collides with the drain sump, move the Dec away from the wall.



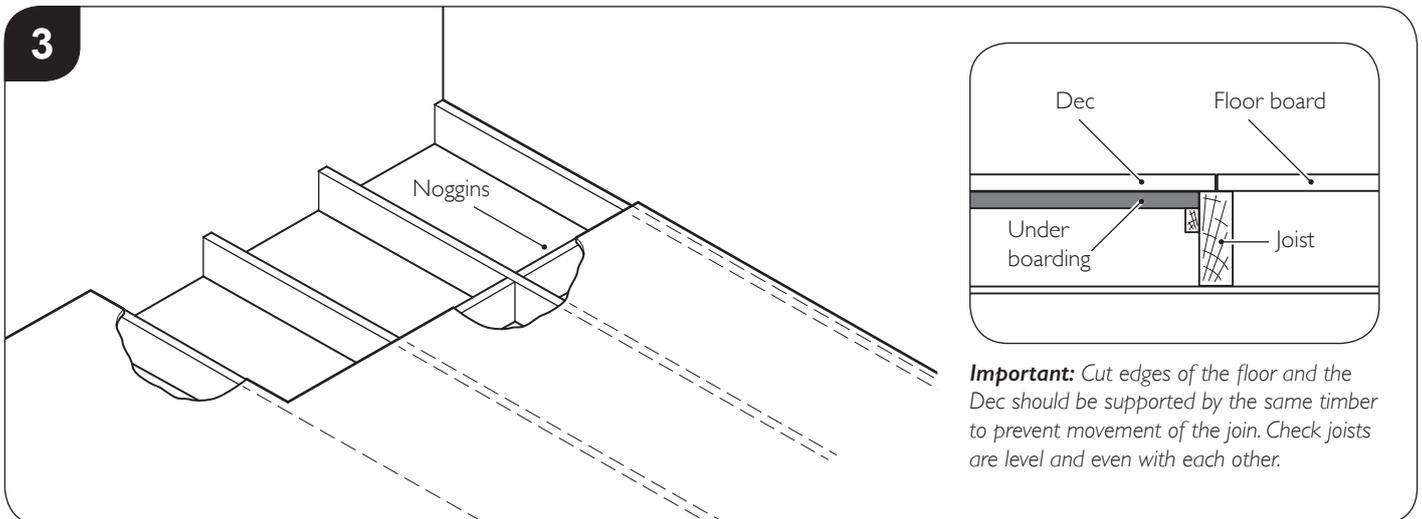
Install a false wall.



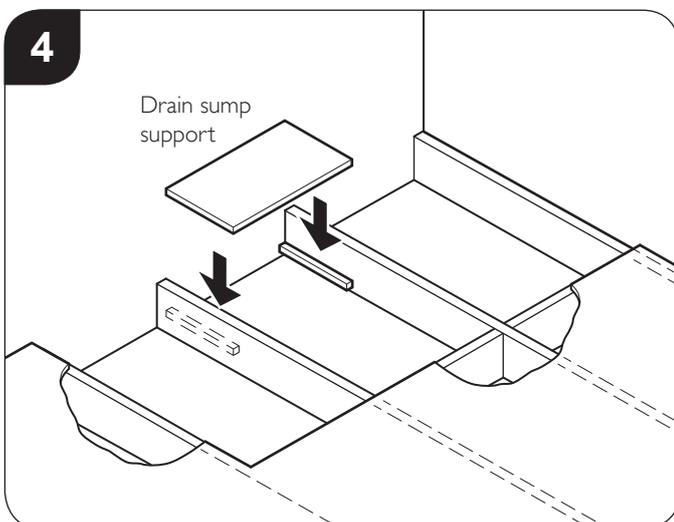
Position the Aqua-Dec Linear 3 in the desired location on the floor and mark around the outer edge.



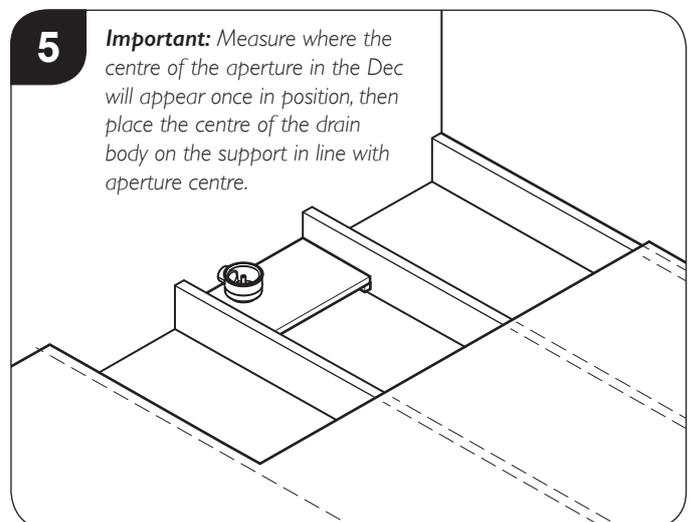
Using a suitable saw, cut along the outline and remove the floorboards.



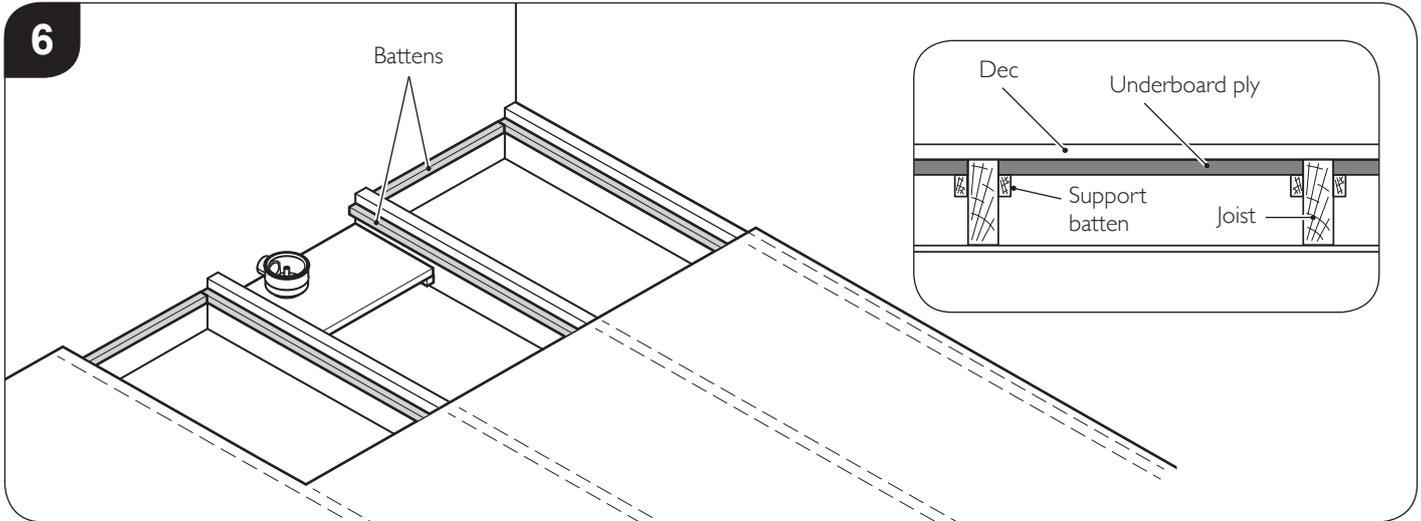
Fit noggins and trimmers to support outer edges of the Dec.



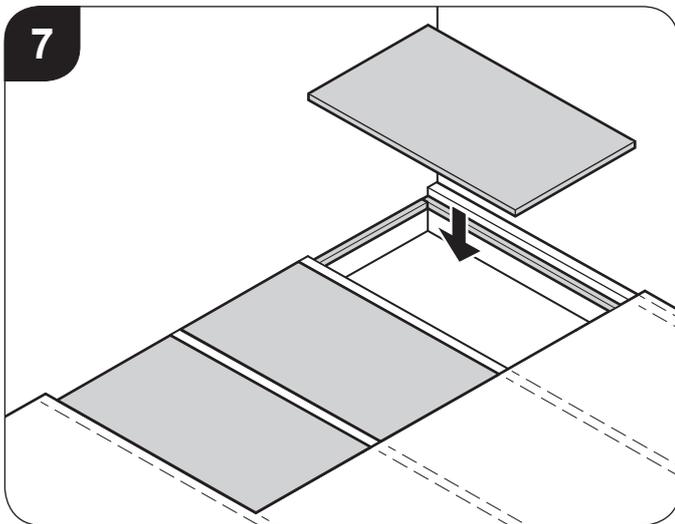
A support 96mm below the level of the bottom of the Dec should be fitted, this is for the drain sump to rest on.



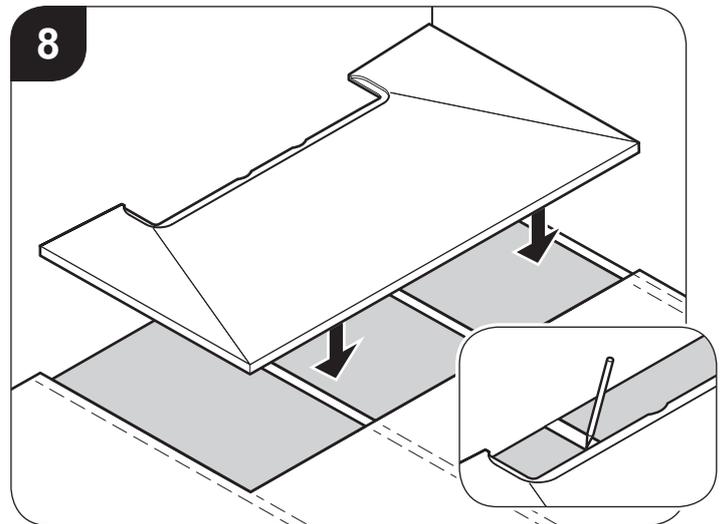
Install waste pipework in accordance with current building regulations and connect to the drain sump in an approved manner using solvent cement.



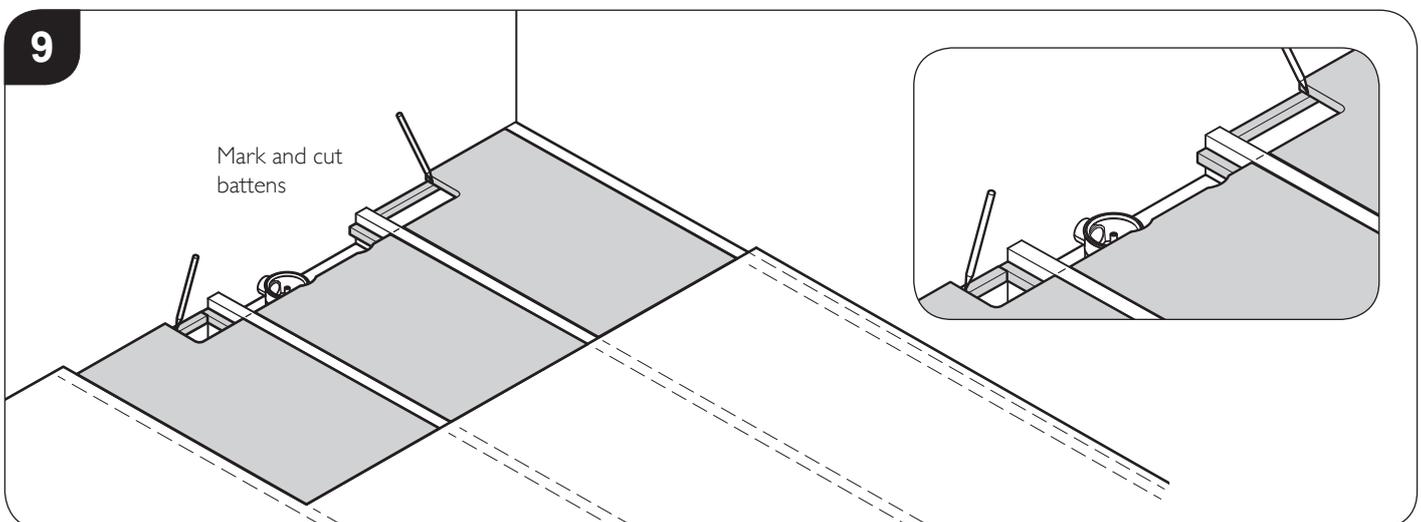
Fix battens to the sides of the joists and noggins. To provide a flat and level base for the Dec, the battens must be fixed 18mm below the top of the joists to allow for the thickness of the plywood.



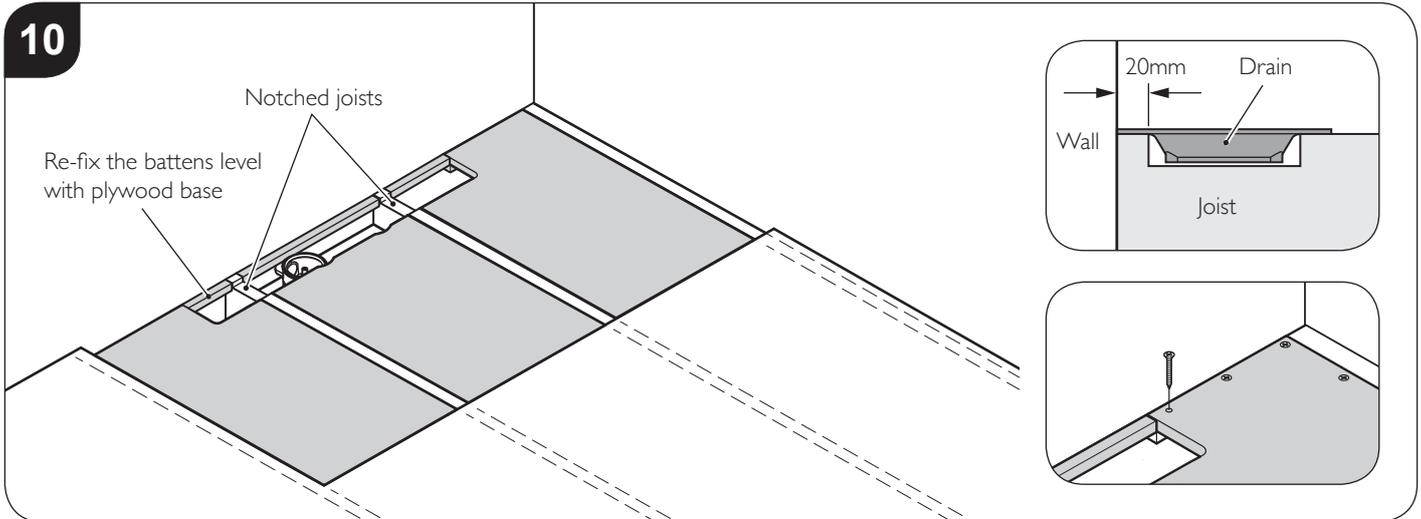
Measure and cut out 18mm plywood panels. Position them, **but do not secure them yet**. Check the panels are level with each other.



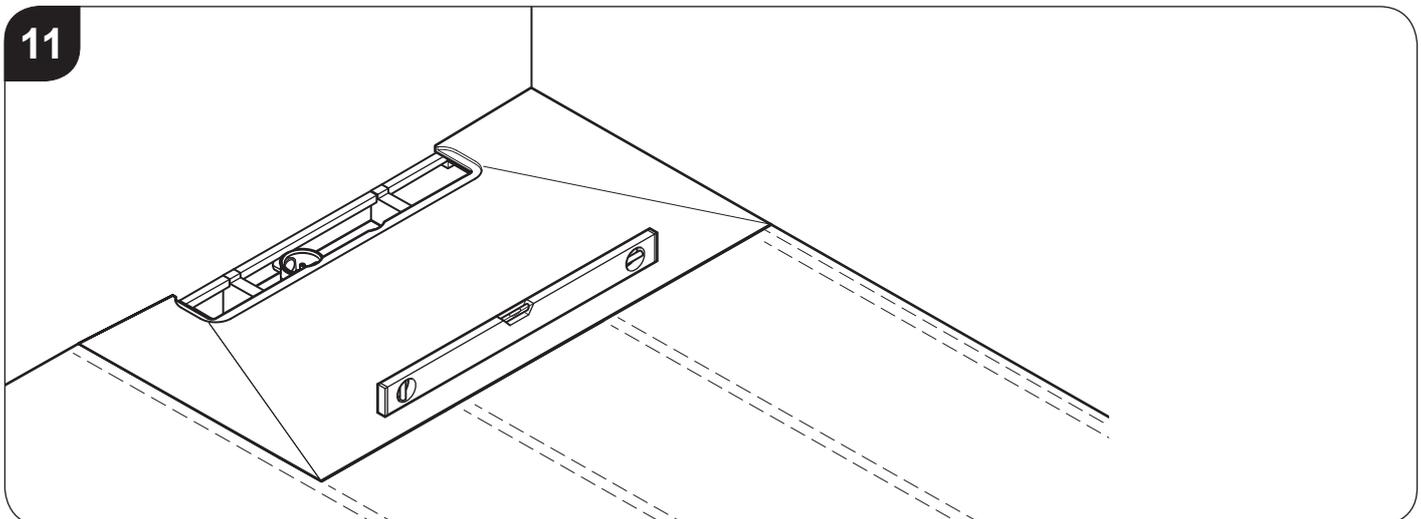
Place the Dec onto the plywood platform. Mark a line around the aperture in the Dec, where the drain will fit.



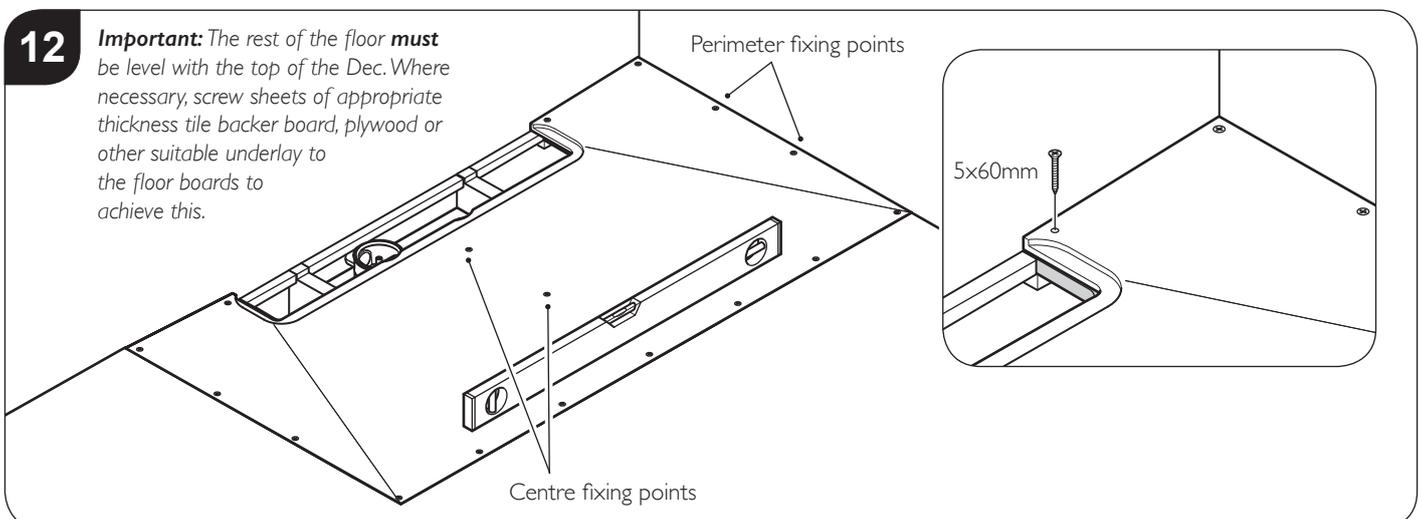
Using a suitable saw cut along the outline previously drawn onto the plywood base. If the lines cross the joists, notch the joists in accordance with current building regulations to a maximum depth of 20mm (this may be reduced if the Dec needs to be packed up). Mark and cut the battens in the opening.



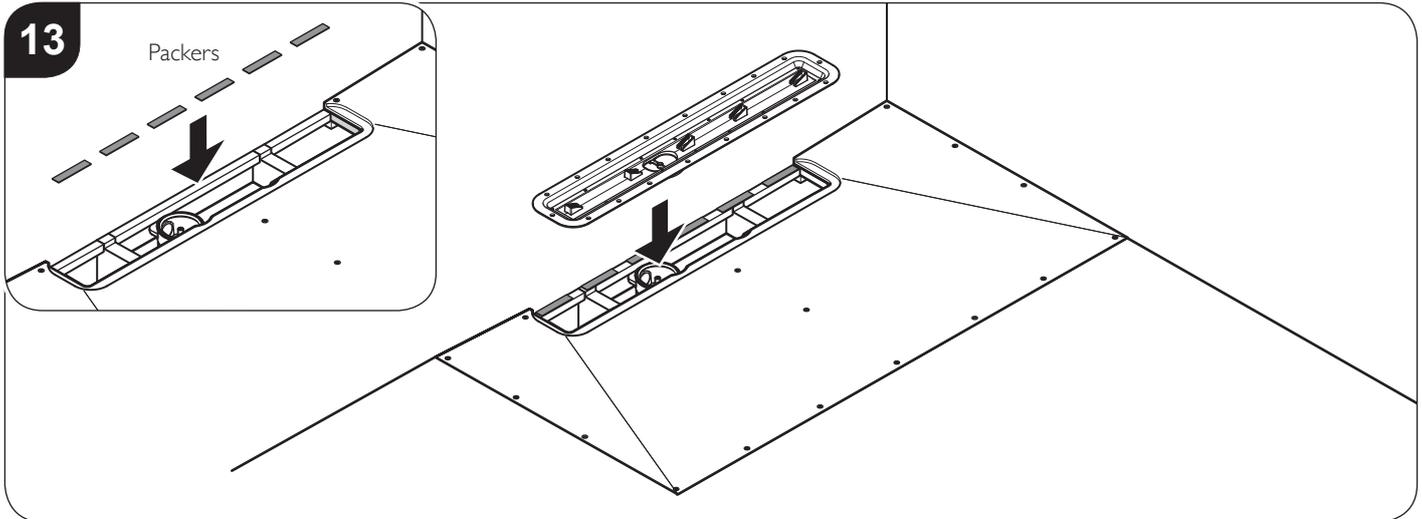
Any joists that cross the drain channel should have notches cut out to take the drain.
Re-fix the battens level with the plywood base. Drill and screw the plywood base to the battens below.



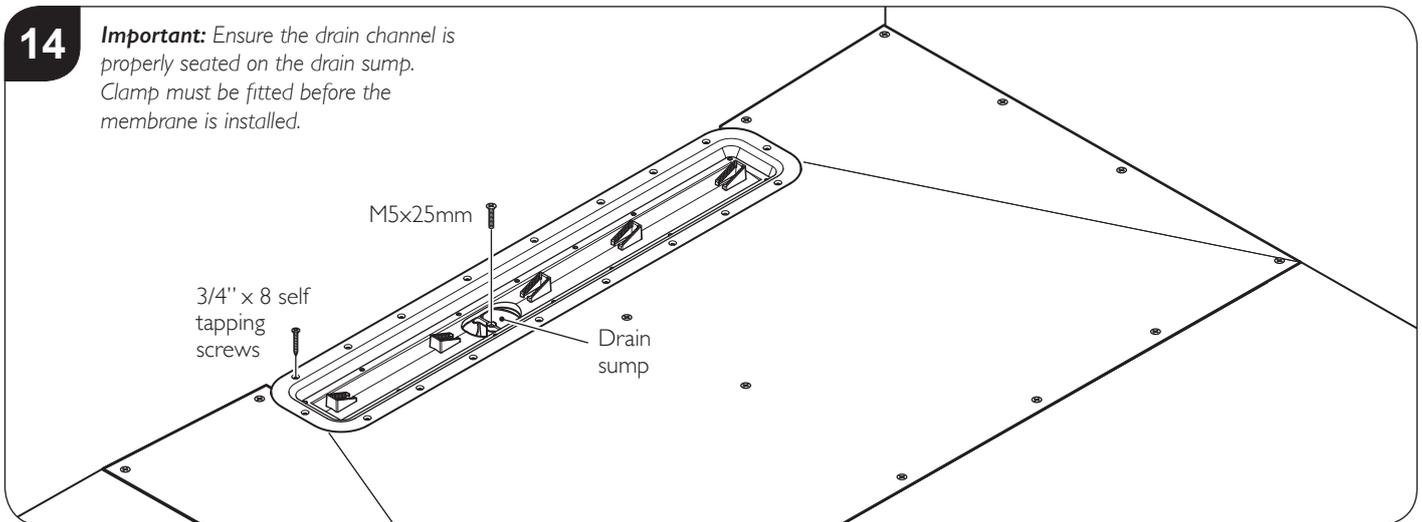
Position the Dec onto the plywood base ensuring it is perfectly level.
This is very important for correct drainage from the Dec. If not level, use suitable packing under the Dec to ensure it is level.



Ensure the Dec is perfectly level, drill and screw it to the plywood below using screws 5x60mm. The Dec should be secured around the perimeter at approx. 200mm intervals and in the centre.

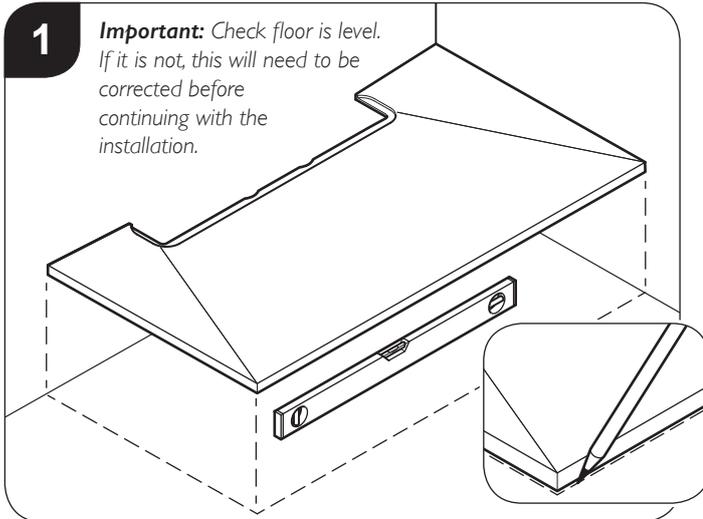


Place packers along the 'wall' batten to support the drain channel. Position the drain channel into the Dec.

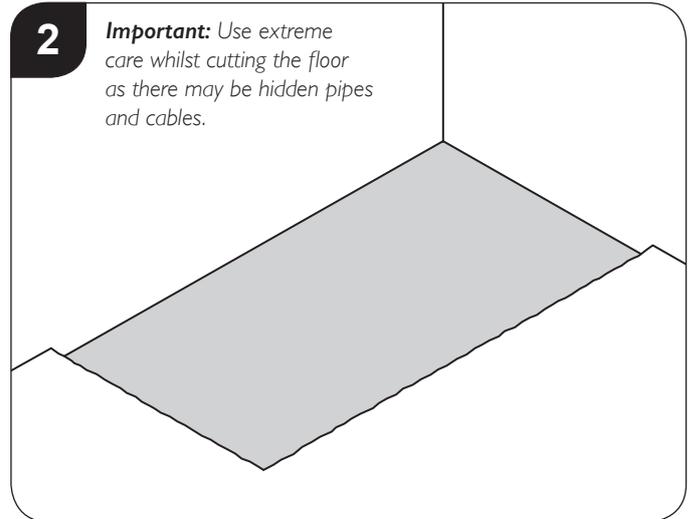


Screw through the drain channel into the drain sump. **Do not over tighten.**
Using an appropriate drill bit, drill through the pre-drilled positions on the top of the drain channel and screw it to the Dec.

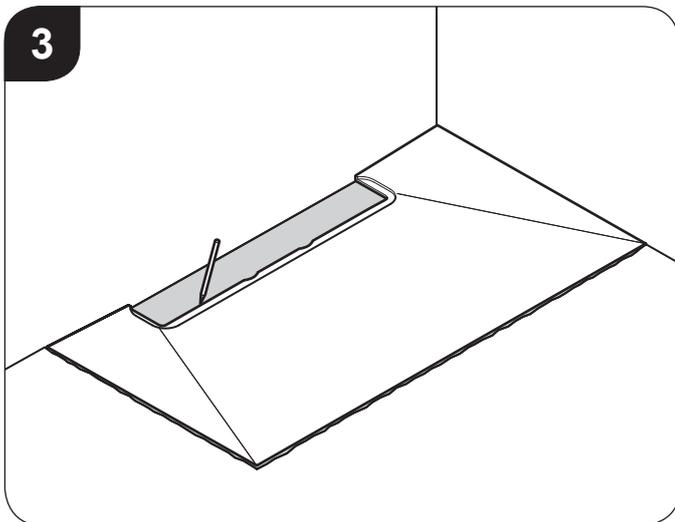
Now proceed to page 13 and follow Finishing.



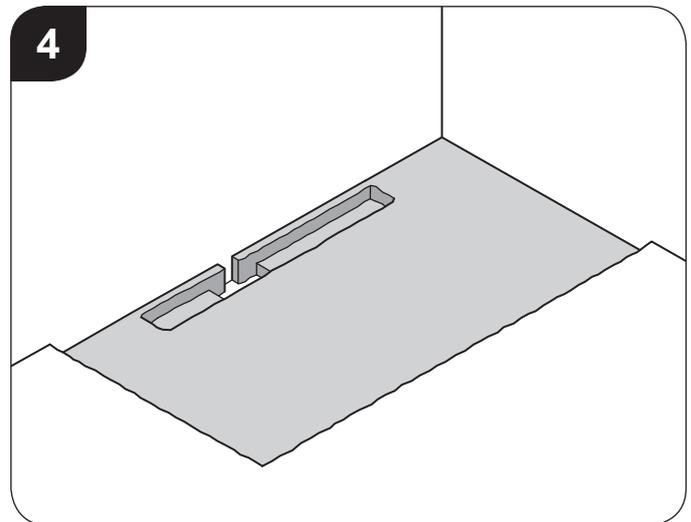
Position the Aqua-Dec Linear 3 in the desired location on the floor and mark around the outer edge.



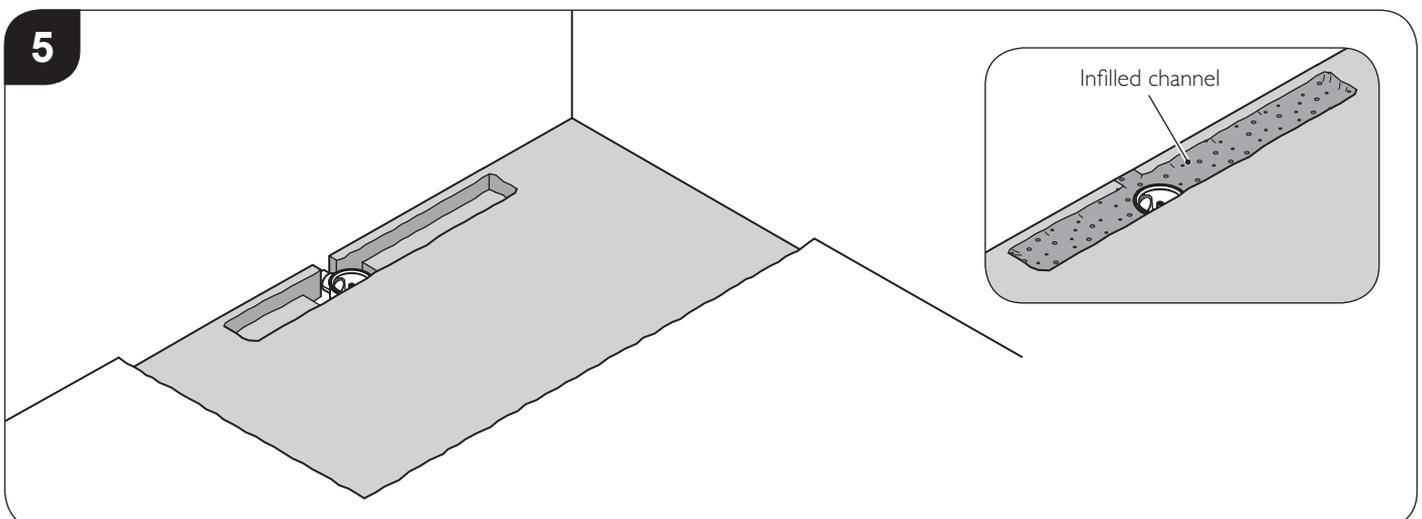
Using a suitable equipment, excavate all the concrete within the marked area to a minimum depth of 35mm.



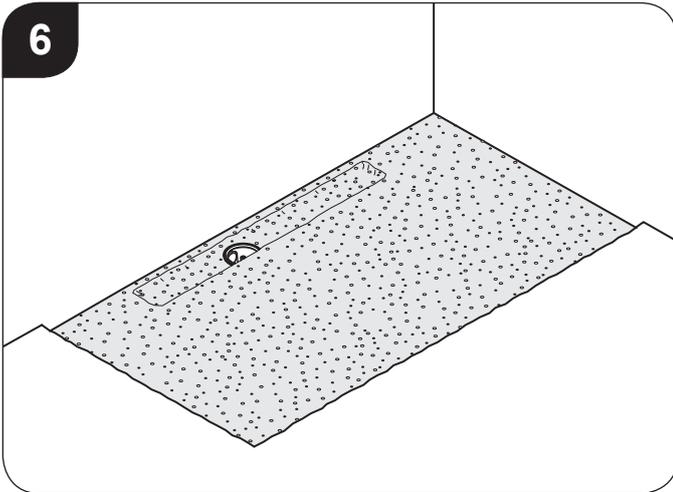
Place the Dec in position and mark a line around the aperture in the Dec, where the drain will fit. Also mark out a 20mm ledge against the wall to support the drain channel.



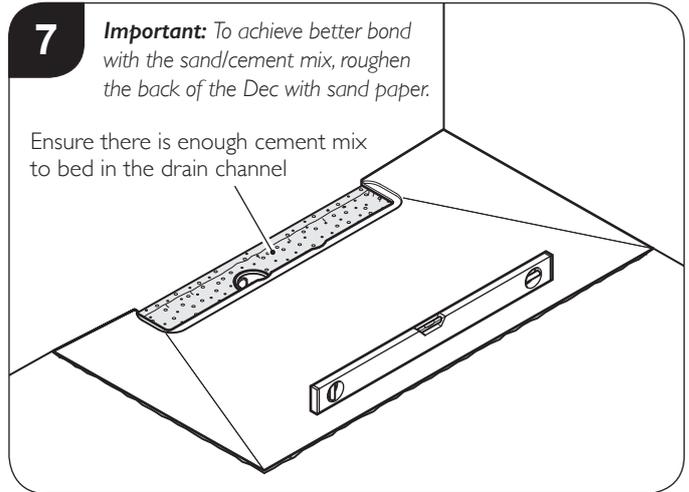
Remove enough concrete for the installation of a waste pipe and shower trap/Linear drain channel.



Measure where the drain sump will appear once in position. Place it in the excavated area ensuring the base is sufficiently supported approximately 96mm below the underside of the Dec. Install waste pipework in accordance with current building regulations and connect to the trap using solvent cement. Infill the channelled area for additional support for the drain channel. Take care not to get sand and cement in the sump or on the seal.



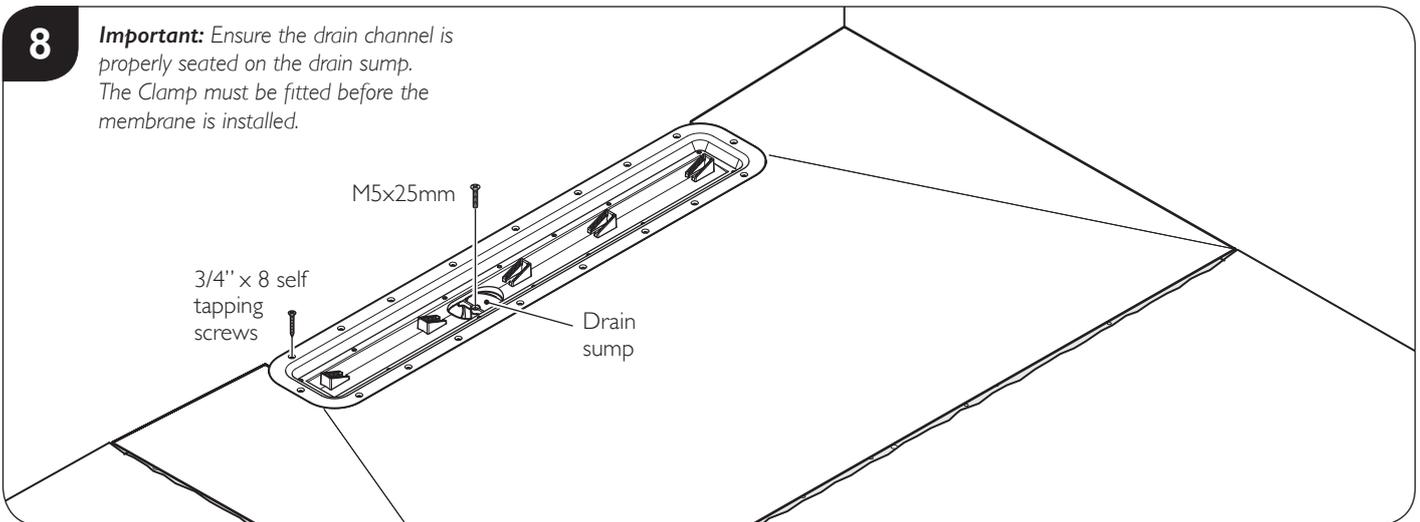
Lay a weak sand cement mix in the excavated hole. **Ensure the mix is fairly dry.** Take care not to get sand and cement in the sump or on the seal.



7 Important: To achieve better bond with the sand/cement mix, roughen the back of the Dec with sand paper.

Ensure there is enough cement mix to bed in the drain channel

Position the Dec onto the weak sand/cement mix ensuring it is flush with the surrounding floor and perfectly level. **This is very important for correct drainage from the Dec.** If not level, pack more weak sand/cement mix under the Dec.



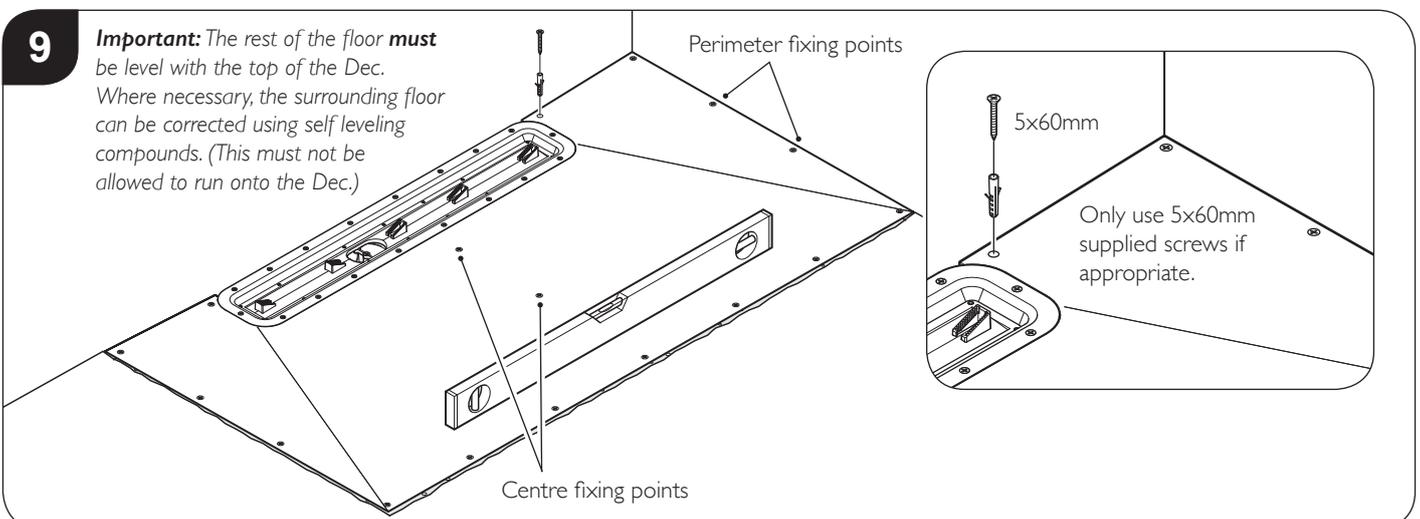
8 Important: Ensure the drain channel is properly seated on the drain sump. The Clamp must be fitted before the membrane is installed.

M5x25mm

3/4" x 8 self tapping screws

Drain sump

Screw through the drain channel into the drain sump as shown. **Do not over tighten.** Then using an appropriate drill bit, drill through the pre-drilled positions on the top of the drain channel and screw it to the Dec.



9 Important: The rest of the floor must be level with the top of the Dec. Where necessary, the surrounding floor can be corrected using self leveling compounds. (This must not be allowed to run onto the Dec.)

Perimeter fixing points

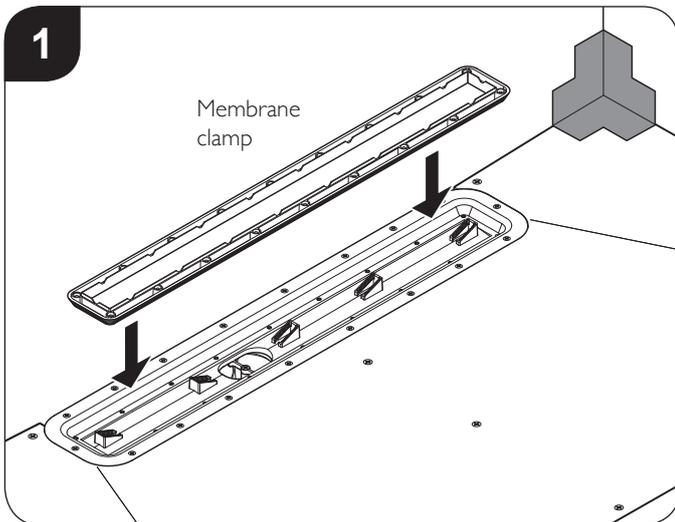
5x60mm

Only use 5x60mm supplied screws if appropriate.

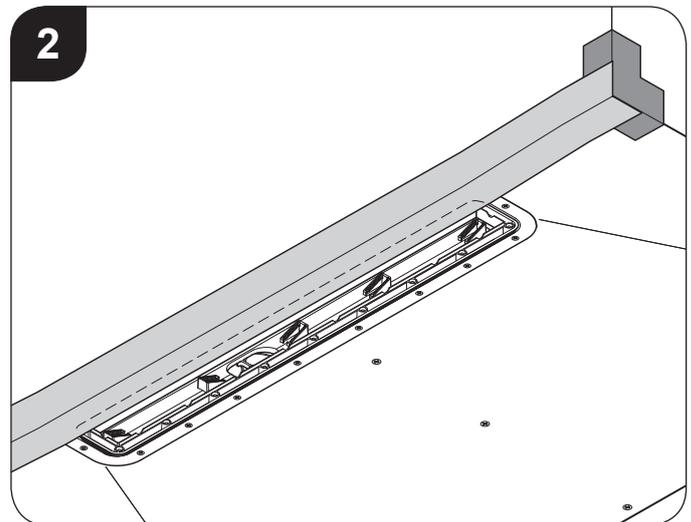
Centre fixing points

Ensure the Dec is perfectly level, drill and screw it to the concrete below using suitable sized plugs and screws. The Dec should be secured around the perimeter at approx. 200mm intervals and in the centre as shown. **Ensure the Dec does not become distorted when screwing down.** Leave to set over night.

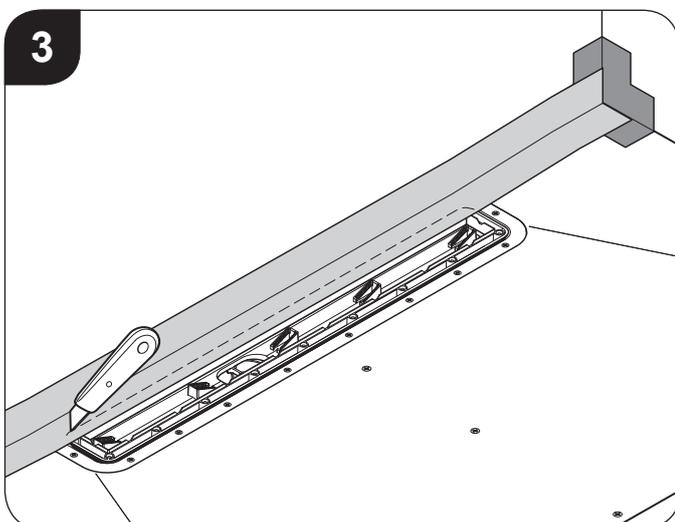
Before the final application of tiles the floor must be made waterproof using Impey Waterguard self adhesive membrane. To ensure this is carried out correctly this section of the installation guide must be read and followed in conjunction with the Waterguard and Linear Drain installation guides. The installation of Waterguard on this product has some specific stages that must be observed and followed.



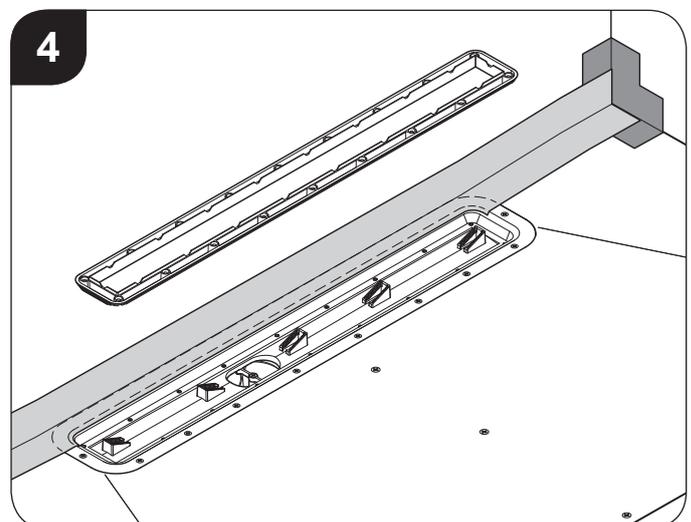
1 Place the membrane clamp into position on the drain channel (do not fix yet).



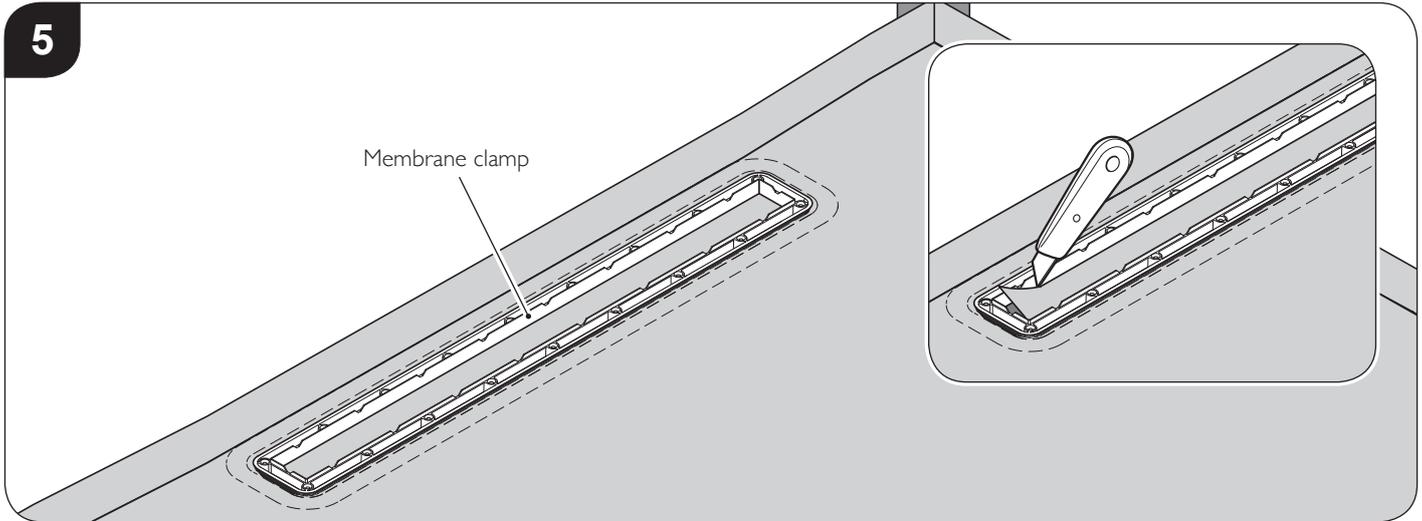
2 Using the 150mm jointing tape, apply tape along the wall/floor of the 'drain channel edge' so that the tape overlaps 75mm at the wall and 75mm onto the floor.



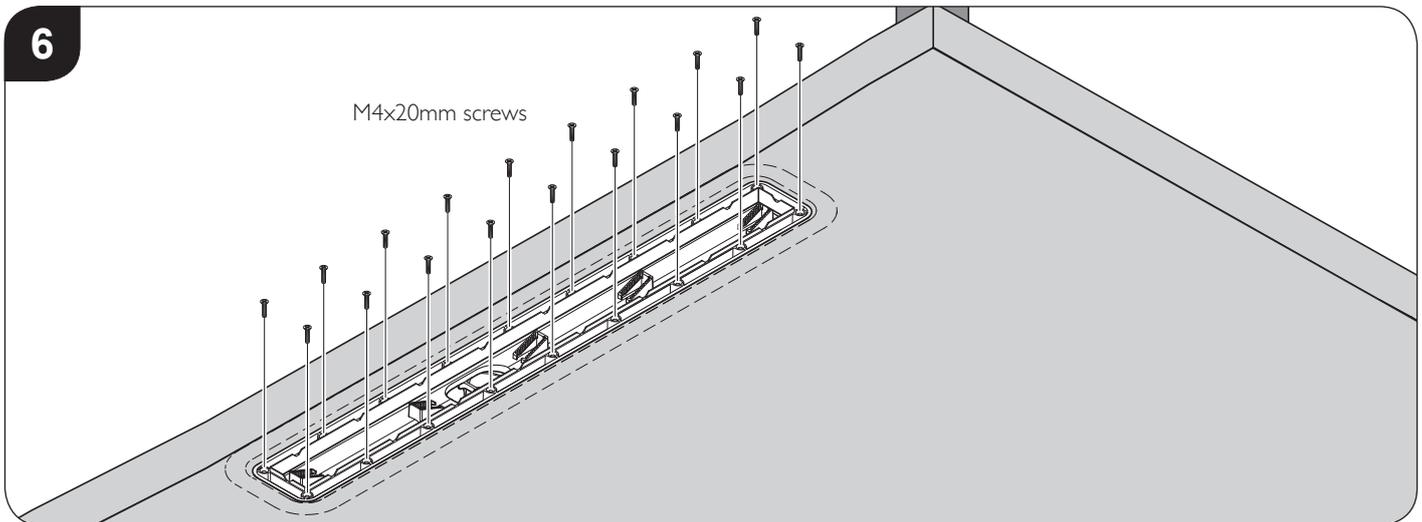
3 Carefully cut the jointing tape following the gap between the drain channel and the membrane clamp (using the outer edge of the membrane clamp as a guide).



4 Remove the excess tape and the membrane clamp.
Now follow the Waterguard membrane guide to lay the membrane.

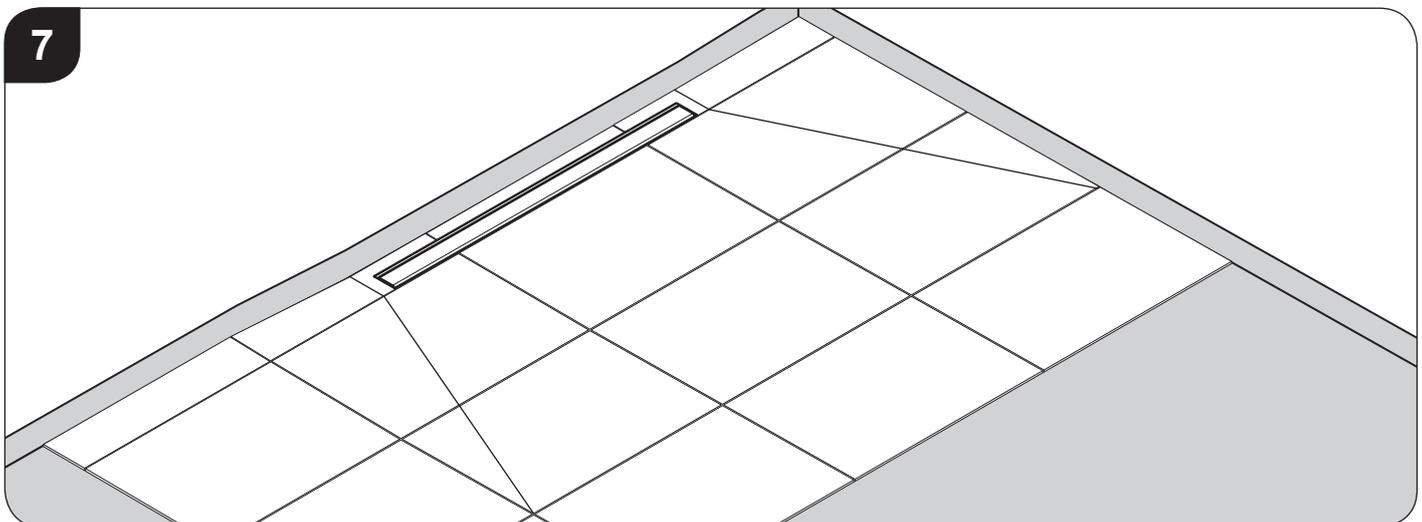


With the membrane laid, use the membrane clamp and find the location of the drain by gently pressing the membrane over the drain channel. Then using the membrane clamp as a guide, cut the membrane flush with the inside edge and remove the centre piece of membrane.



The membrane clamp should be carefully pressed into position to allow the membrane to stretch over the drain channel, once the membrane has begun to stretch into place, gradually tighten the screws. **The clamp must be lowered evenly into place. Do not use power tools.**

Complete the installation of the drain following the Linear drain installation guide.



The installation of the Aqua-Dec Linear 3 is now finished. Apply tiles etc. to the whole area.

impey

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