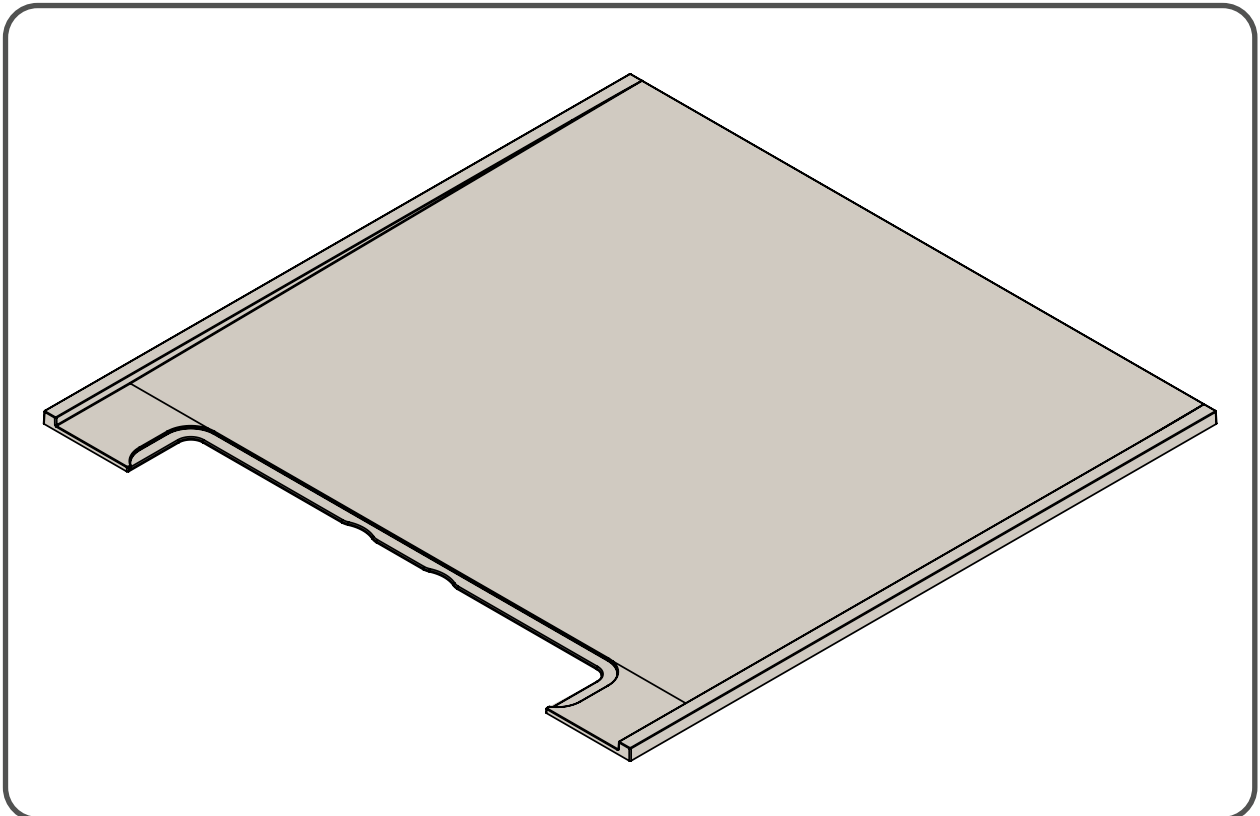


# INSTALLATION GUIDE

## AQUA-DEC LINEAR 1 1 WAY FALL



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All our FSC® cardboard packaging  
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# AQUA-DEC LINEAR COMPONENTS LIST

Safety: Please read these installation instructions carefully before proceeding.

**PLEASE LEAVE THESE INSTRUCTIONS WITH THE END USER.**

Incorrect installation will invalidate guarantee.

Make sure there are no hidden pipes or cables in the floor or walls where you intend to drill.

Wear safety goggles, shoes and appropriate clothing.

**PLEASE REFER TO THE LATEST BUILDING REGULATIONS REVISION BEFORE INSTALLING THE AQUA-DEC LINEAR.**

**READ THROUGH THE FITTING INSTRUCTIONS AND FAMILIARISE YOURSELF WITH THE INSTALLATION OF THE AQUA-DEC LINEAR BEFORE COMMENCING THE INSTALLATION.**

The Aqua-Dec Linear is suitable for installation on timber floor or concrete floor construction.

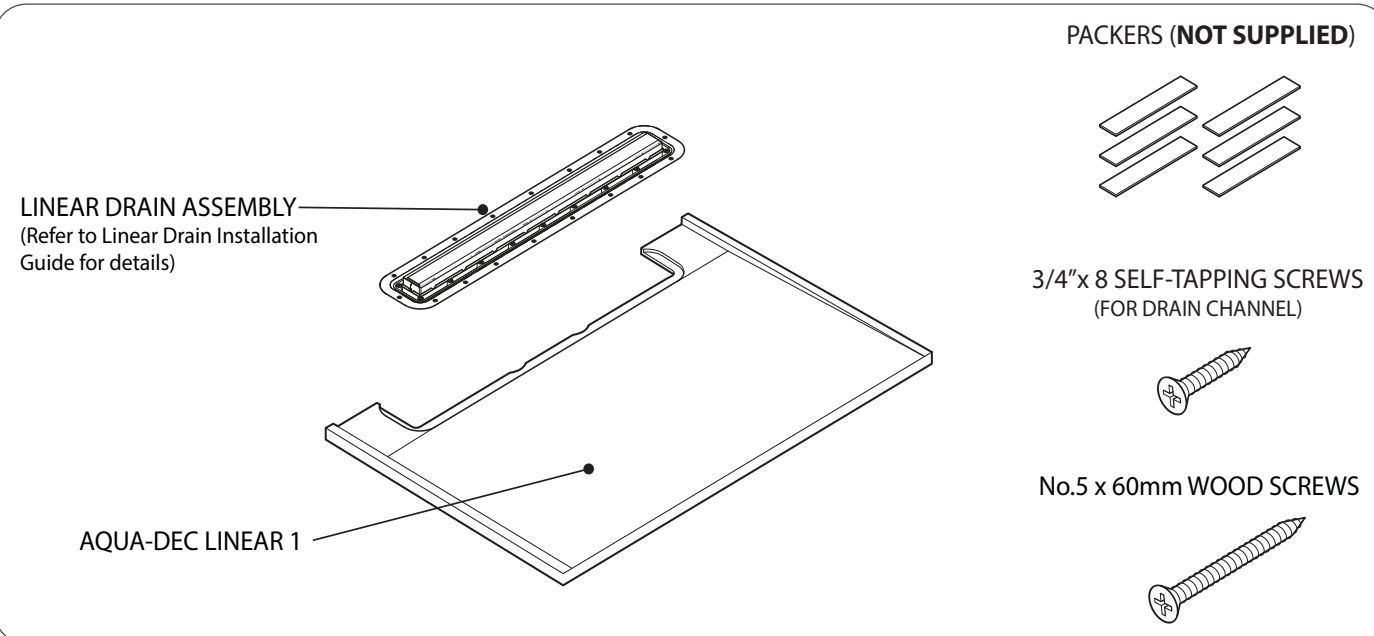
It comes in a variety of sizes - please see the Technical Datasheet for full details.

The Aqua-Dec Linear 1 can be fitted with a horizontal or vertical drain, in 800mm length.

When combined with the WaterGuard membrane, it provides a lifetime\* watertight guarantee.

Please note: Recommended flow rate for this product is no greater than 40 l/min. Ensure your shower unit does not exceed this.

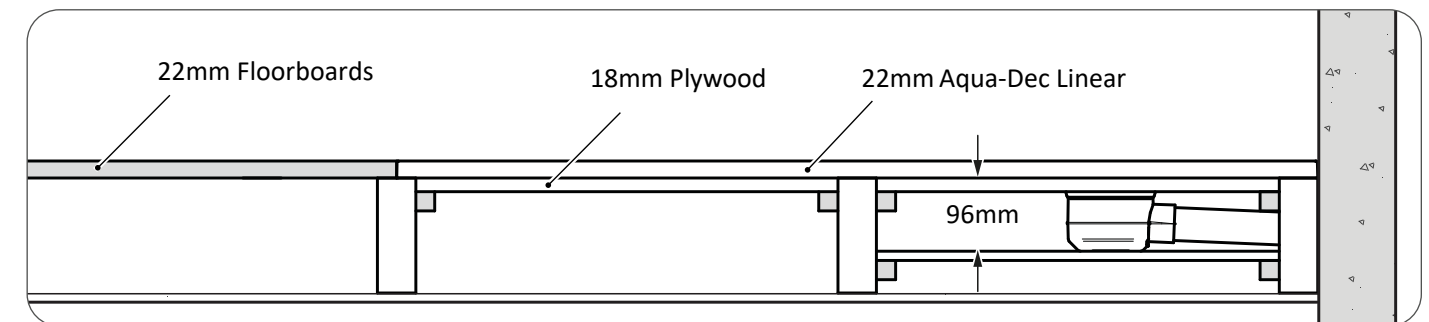
*\*lifetime of the original tiled installation*



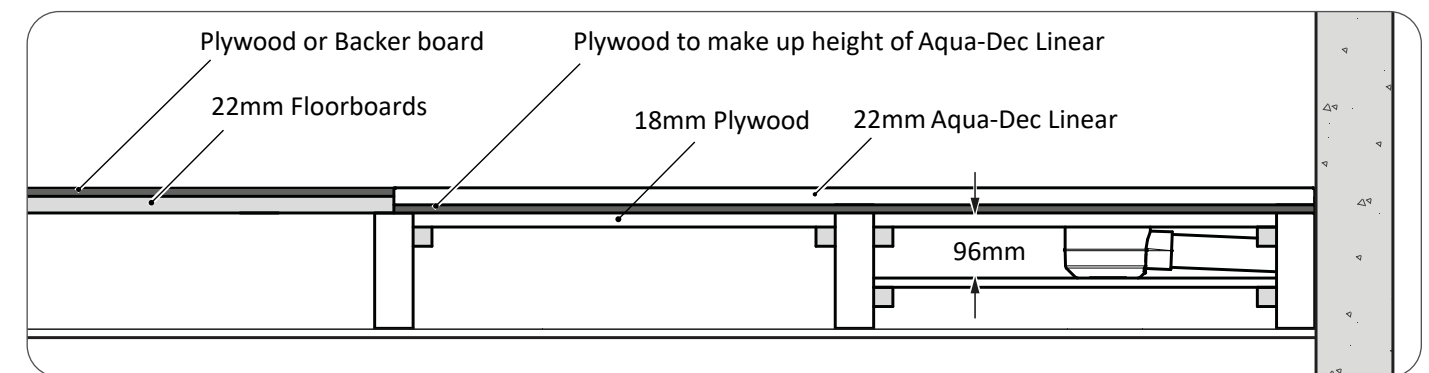
**impey**

# PLANNING

## 1. CROSS SECTION OF DEC AND JOISTS (STANDARD INSTALLATION)

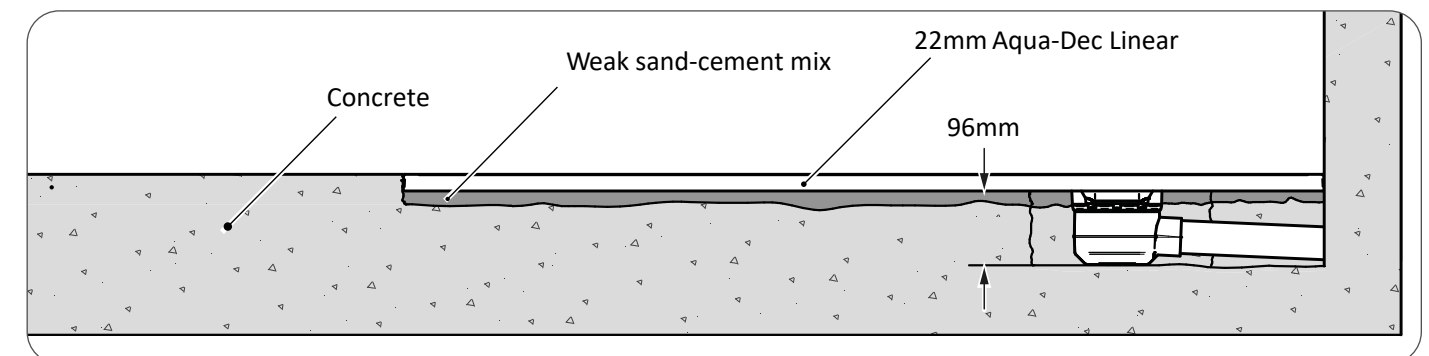


## 2. CROSS SECTION OF DEC AND JOISTS (PLYWOOD/BACKER BOARD INSTALLATION)



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 will need to be raised so 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.

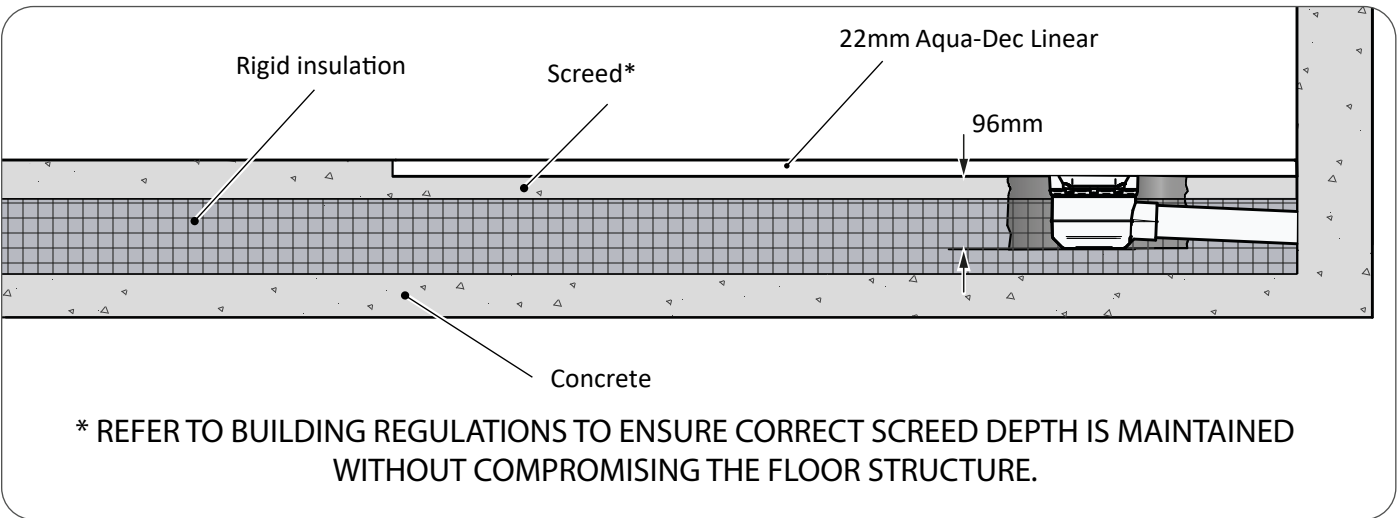
## 3. CROSS SECTION OF DEC AND SOLID CONCRETE FLOOR



**impey**

# PLANNING

## 4. CROSS SECTION OF DEC AND INSULATED CONCRETE FLOOR



# PLANNING

## 5. TRIMMING

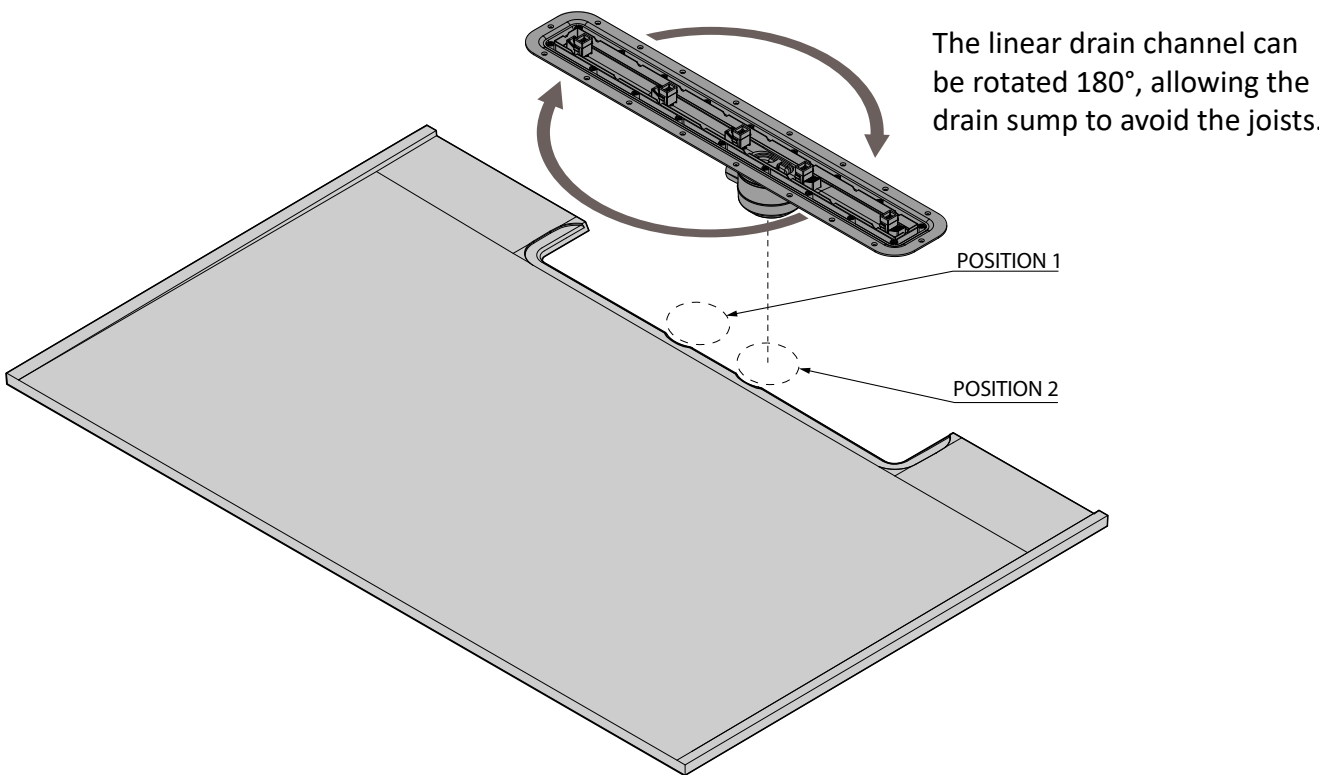
For trimming information please refer to the Aqua-Dec Linear Technical Datasheet.



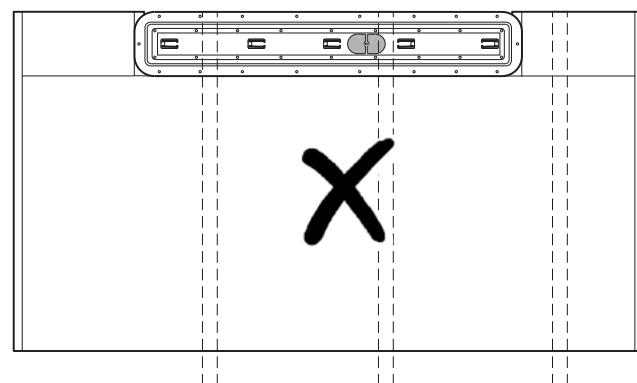
IMPEY TECHNICAL DATASHEETS

## 6. WOODEN FLOORS - DRAIN ROTATION

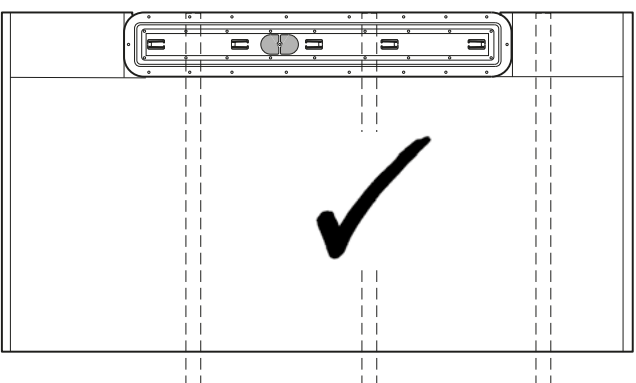
It is recommended to dry fit the drain channel before commencing the Aqua-Dec Linear installation. This will help to establish the best location for the drain sump.



JOIST FOUL



JOIST CLEAR

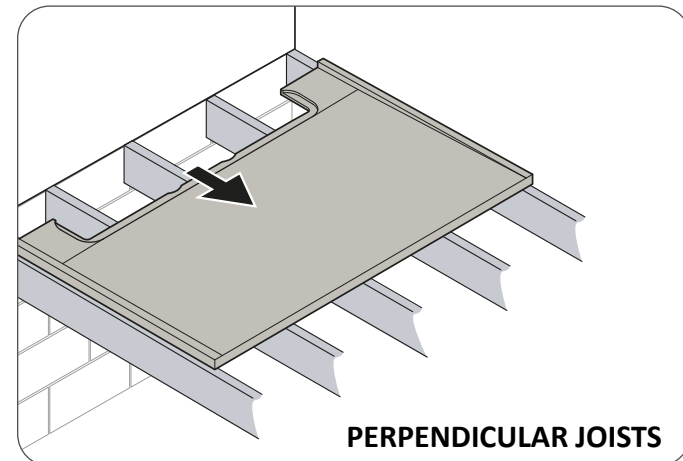


# PLANNING

## 7. WOODEN FLOORS - JOIST ORIENTATION

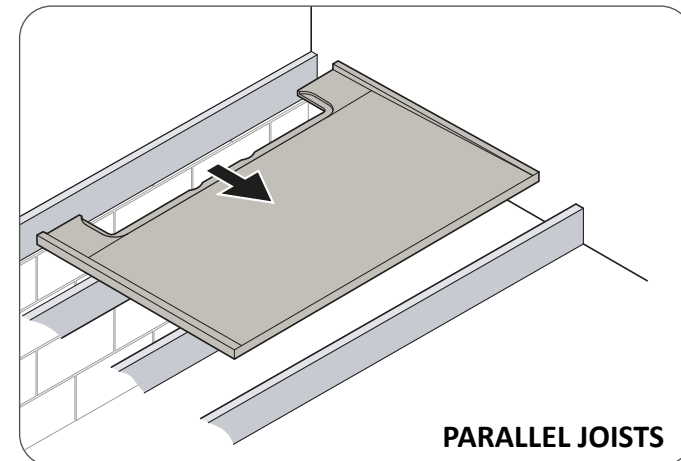
It is recommended to dry fit the Aqua-Dec Linear before commencing the installation. This will help to establish the best location.

Joists perpendicular to the drain aperture.



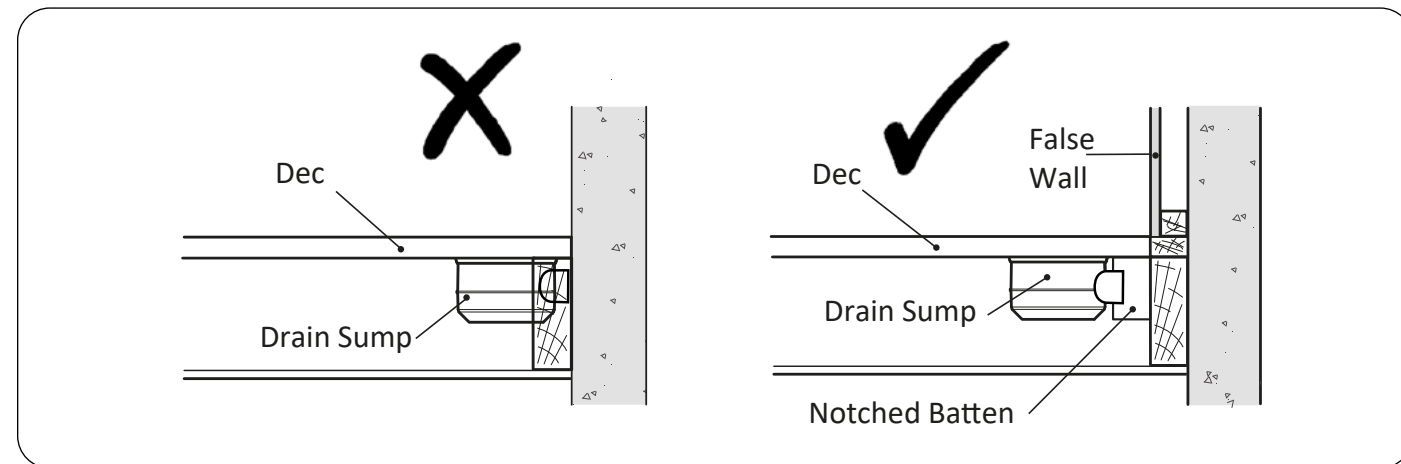
Go to section 9

Joists parallel to the drain aperture.



Go to section 8

## 8. WOODEN FLOORS - JOIST/DRAIN SUMP COLLISION



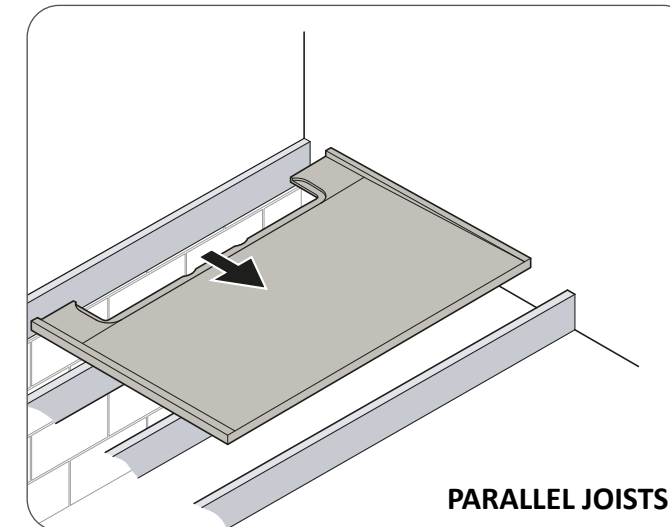
If the drain sump position collides with a joist, additional measures may be required during installation to overcome the problem. **Do not cut the joist to allow installation of the sump, please refer to Building Regulations.**

Depending on the position of the joists, a “false wall” may need to be constructed and extra noggins / trimmers added to support the Aqua-Dec Linear perimeter and drain aperture.

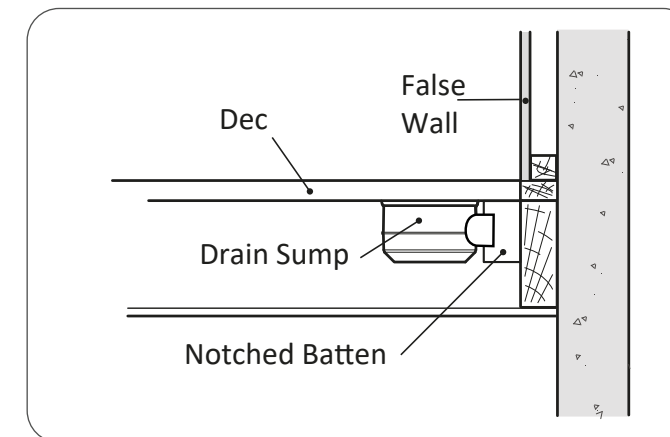
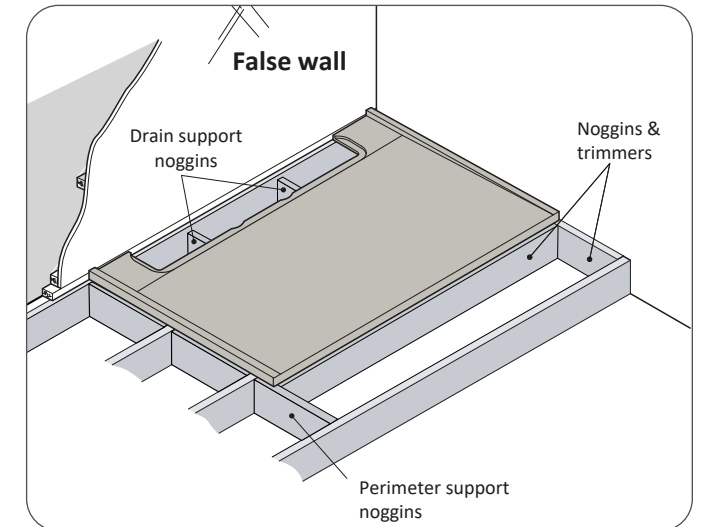
If a “false wall”, is not required please go to section 9.

# PLANNING

Fit a false wall



Move the Aqua-Dec Linear away from the wall.



Fit a false wall.

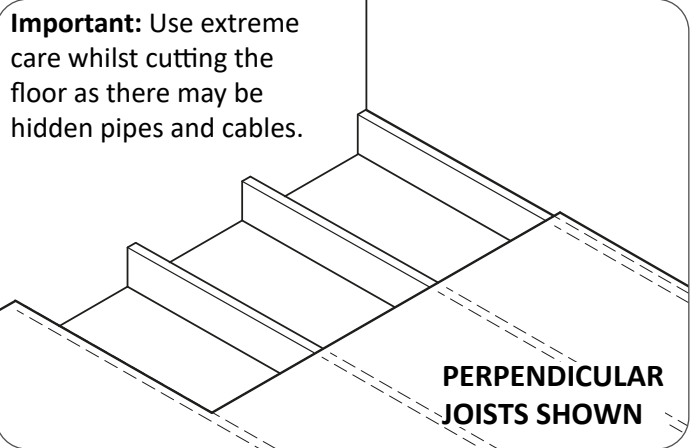
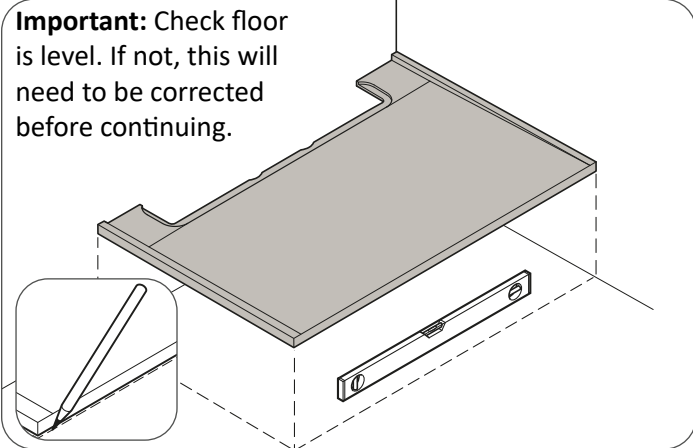
Support the front edge of the Aqua-Dec Linear. Support the Aqua-Dec Linear perimeter with noggins.

Add drain support noggins\*

\*Note; See section 10 for more detail.



## 9. SET THE AQUA-DEC LINEAR LOCATION

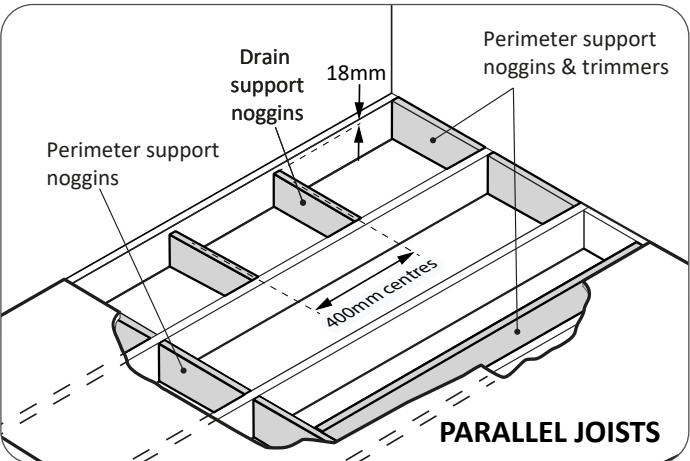
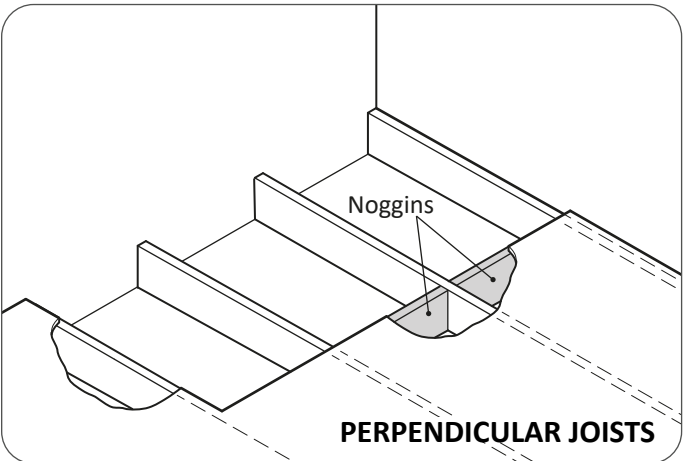


Position the Aqua-Dec Linear in the desired location on the floor and mark around the Dec outer edge.

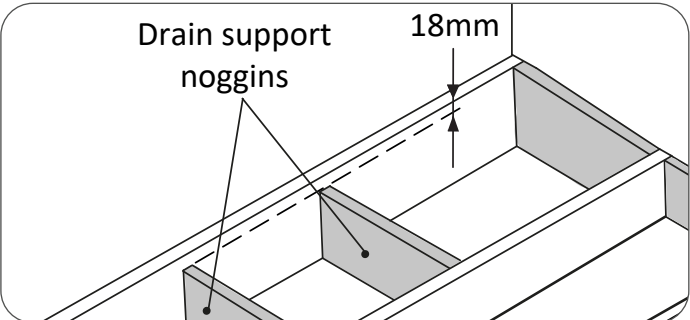
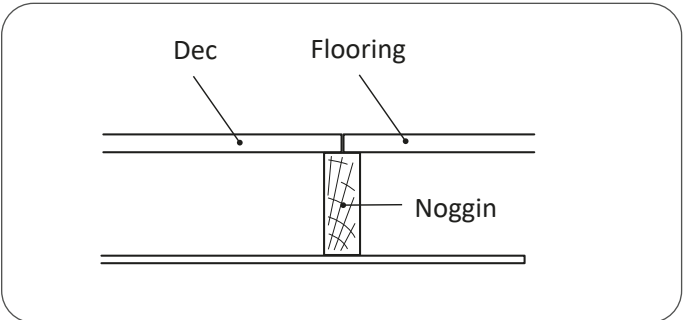
Using a suitable saw, cut along the Aqua-Dec Linear outer edge outline and remove the flooring. Dry fit the drain channel and note the drain sump position.

## 10. SUPPORT THE AQUA-DEC LINEAR

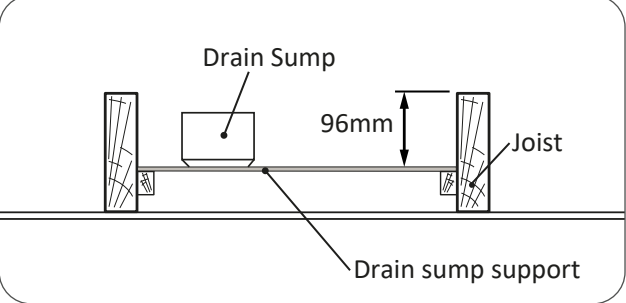
Fit noggins and trimmers to support the outer edges of the Aqua-Dec Linear. For parallel joist installations, drain support noggins should be fitted at 400mm centres, 18mm lower than the top face of the joists, to allow for the thickness of the Plyboard. Additional support may be required if the joist spacing is greater than 400mm.



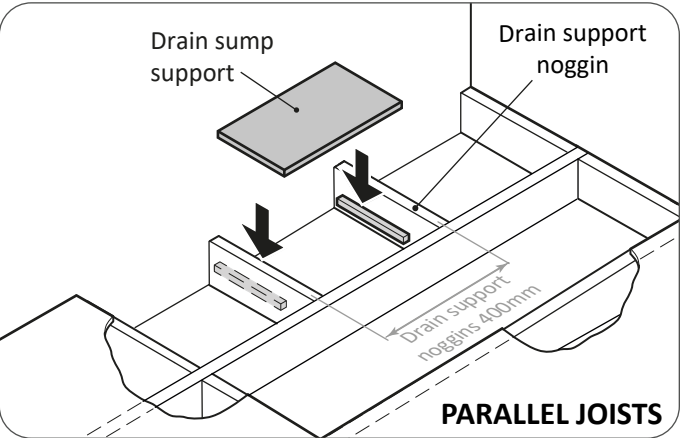
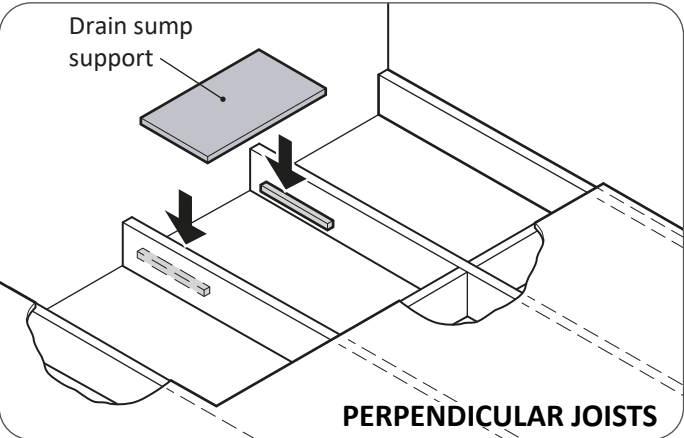
**Important:** Cut edges of the floor and Aqua-Dec Linear should be supported by the same timber to prevent movement of the join. Check joists are level and even.



## 11. FIT DRAIN SUMP SUPPORT

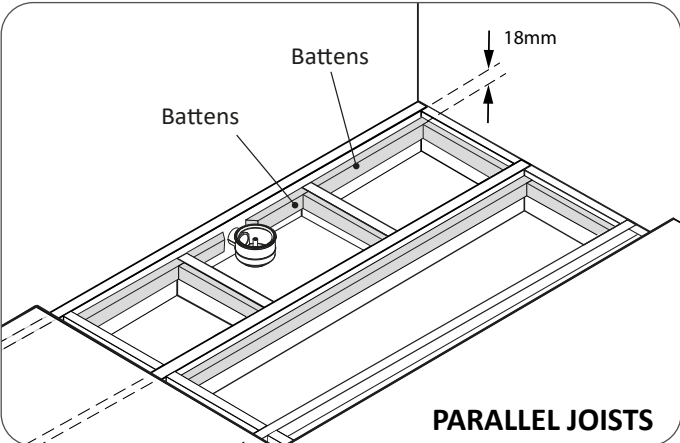
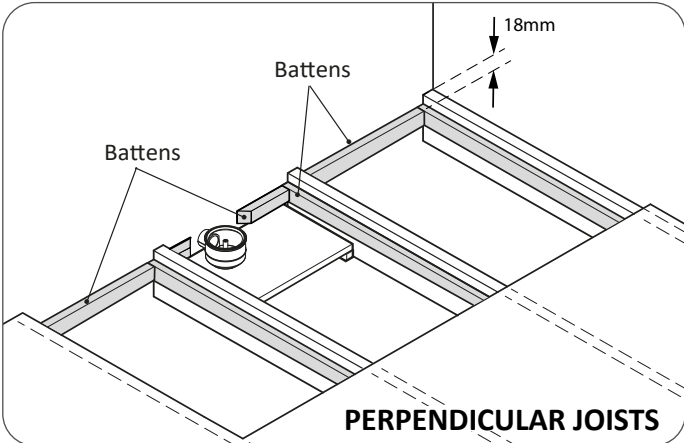


**Important:** Drain sump support should be positioned 96mm lower than the top of the joist, as shown. If measuring from the top of a drain support noggin remember to allow for the 18mm lower depth (78mm).



**Important:** Depending on joist orientation, the drain sump support should be braced between joists or drain support noggins as shown above.

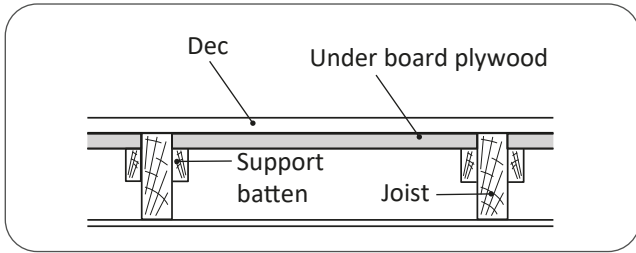
## 12. INSTALL UNDERBOARDING



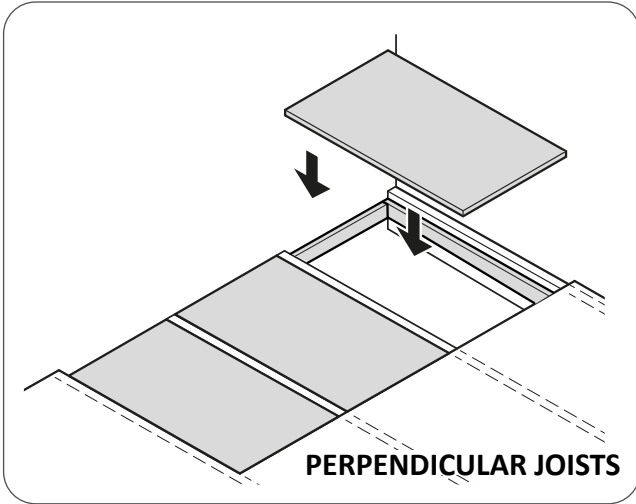
Fix battens to the sides of the joists and noggins. To allow for the thickness of the plywood, the battens must be fixed 18mm below the top of the joists. Ensure they are sufficient to load bear, flat and level.

**Note:** the battens around the drain sump will require cutting or notching.

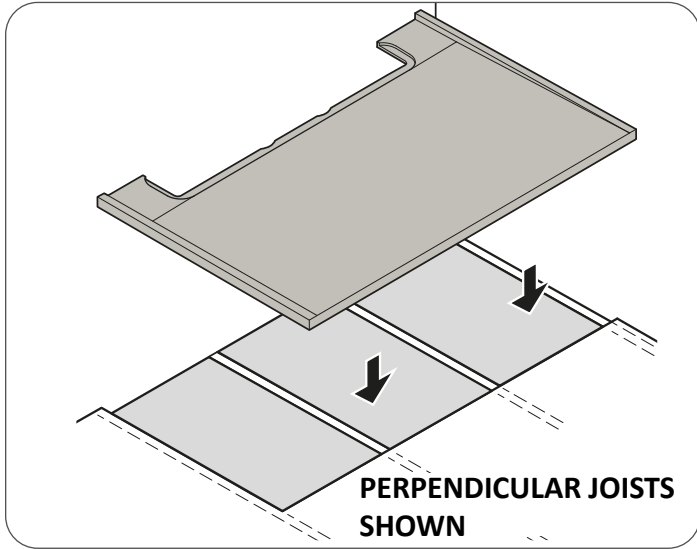
# WOODEN FLOORS



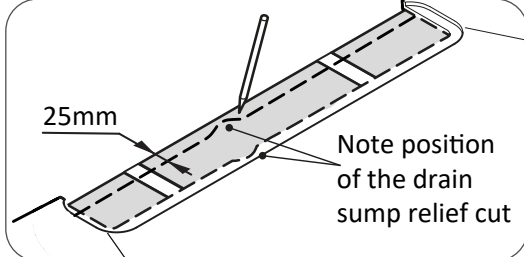
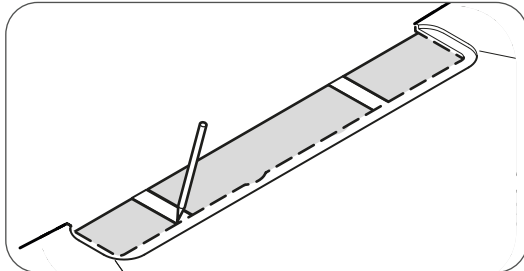
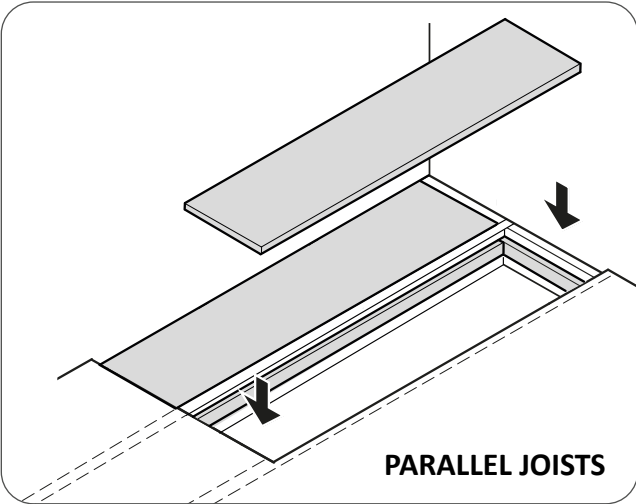
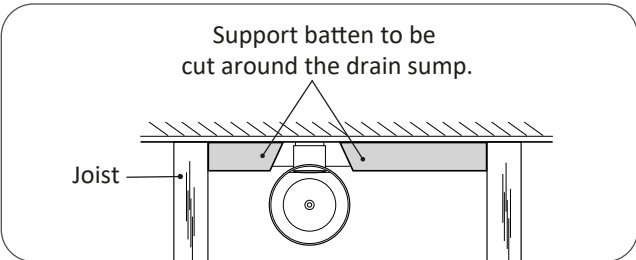
Measure and cut 18mm plywood panels. Position them, but **do not secure them**. Check all the panels are level.



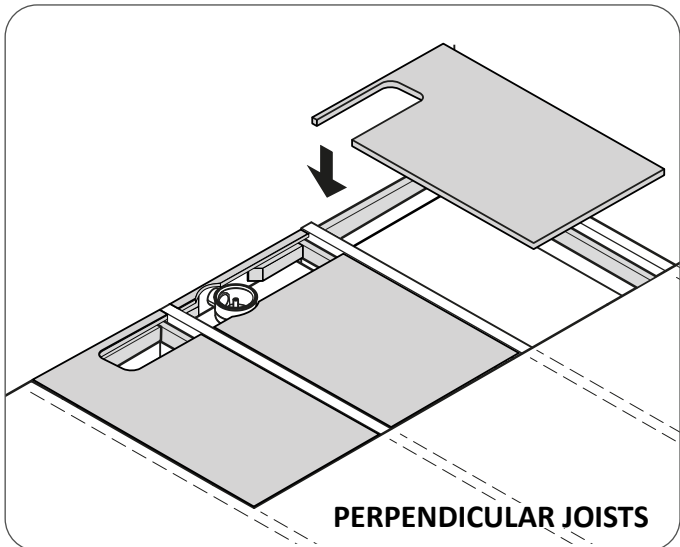
## 13. CUT OUT DRAIN APERTURE



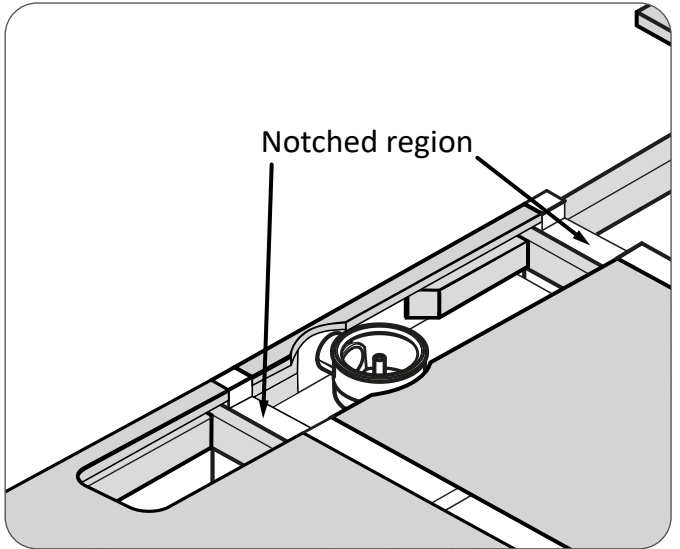
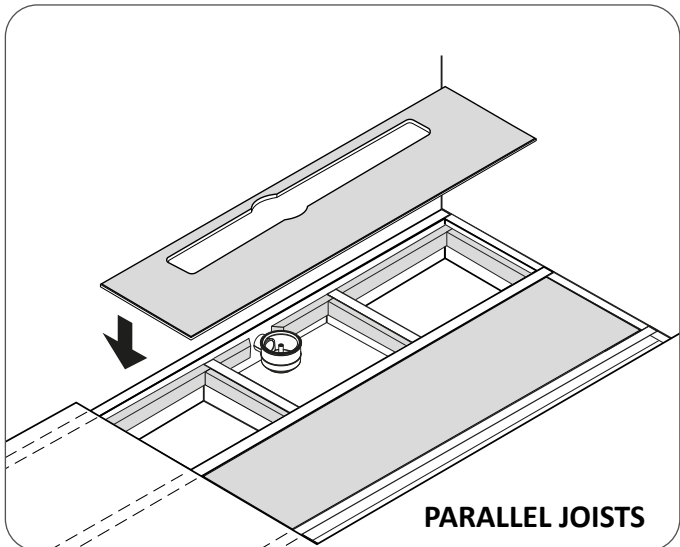
Place the Aqua-Dec Linear onto the plywood platform. Mark a line around the aperture in the Aqua-Dec Linear where the drain will fit. Then mark a line 25mm in from the wall edge of the Aqua-Dec Linear, allowing for the area around the drain sump. Make allowance for the area around the drain sump, as this will require an additional relief cut.



# WOODEN FLOORS



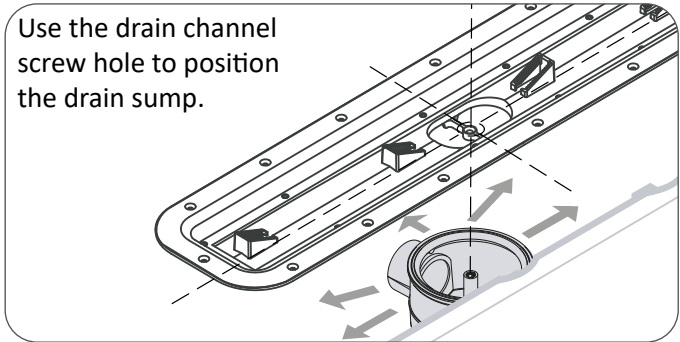
Using a suitable saw, cut an envelope cut along the drain aperture outline, drawn onto the plywood.



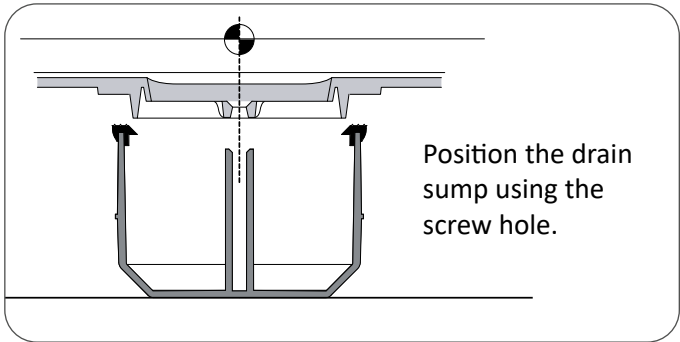
Where the drain aperture crosses the joists, these should be notched in accordance with current Building Regulations\*, to allow the drain channel to locate correctly in the Aqua-Dec Linear.

\*If this is not possible, raise the floor level to allow for this. Please consult Technical Team for further advice.

## 14. INSTALL THE DRAIN SUMP



Install waste pipework in accordance with current Building Regulations and connect the drain sump using solvent weld cement. If required, ensure the attached waste pipe is supported by the relevant pipe clips.

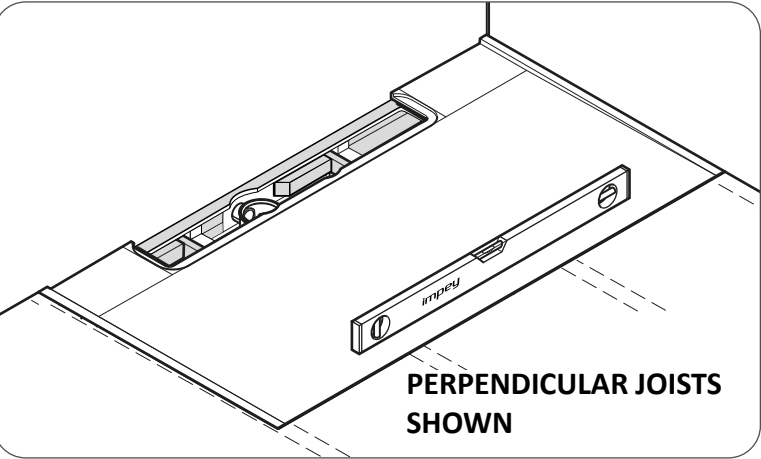


# WOODEN FLOORS

For the Linear Drain sump installation, please refer to the Linear Drain Installation Guide.

To view digital versions of all Impey installation guides simply scan the QR code on the back of these instructions.

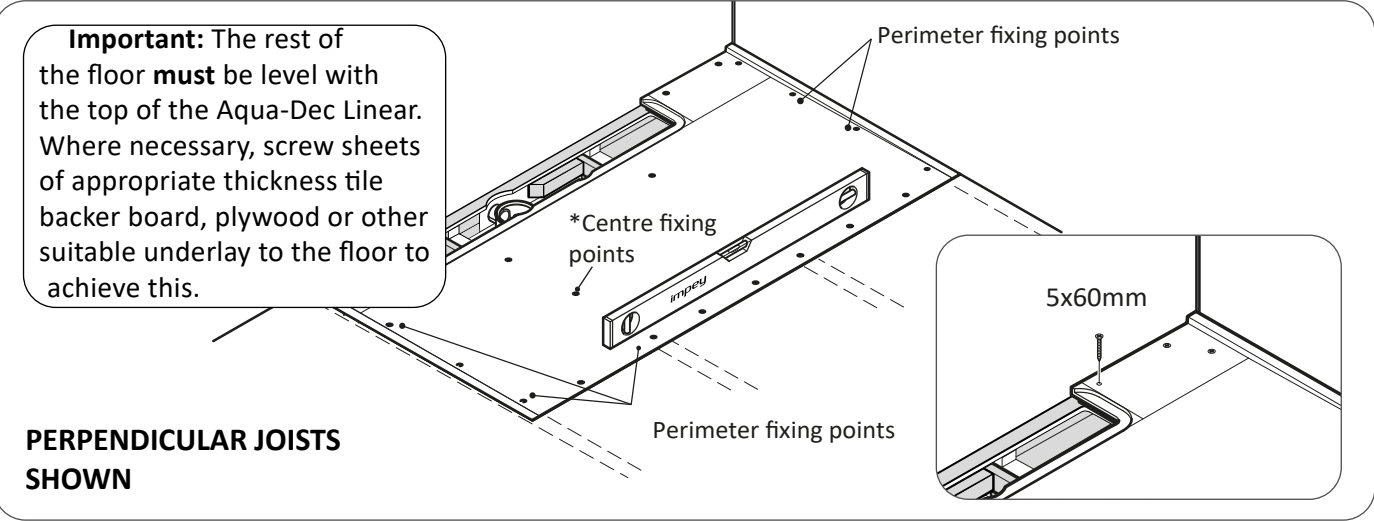
## 15. FIX THE AQUA-DEC LINEAR IN POSITION



Position the Aqua-Dec Linear onto the plywood base, **ensuring it is flush with the surrounding floor and level.**

**This is very important for the correct drainage from the Aqua-Dec Linear.**

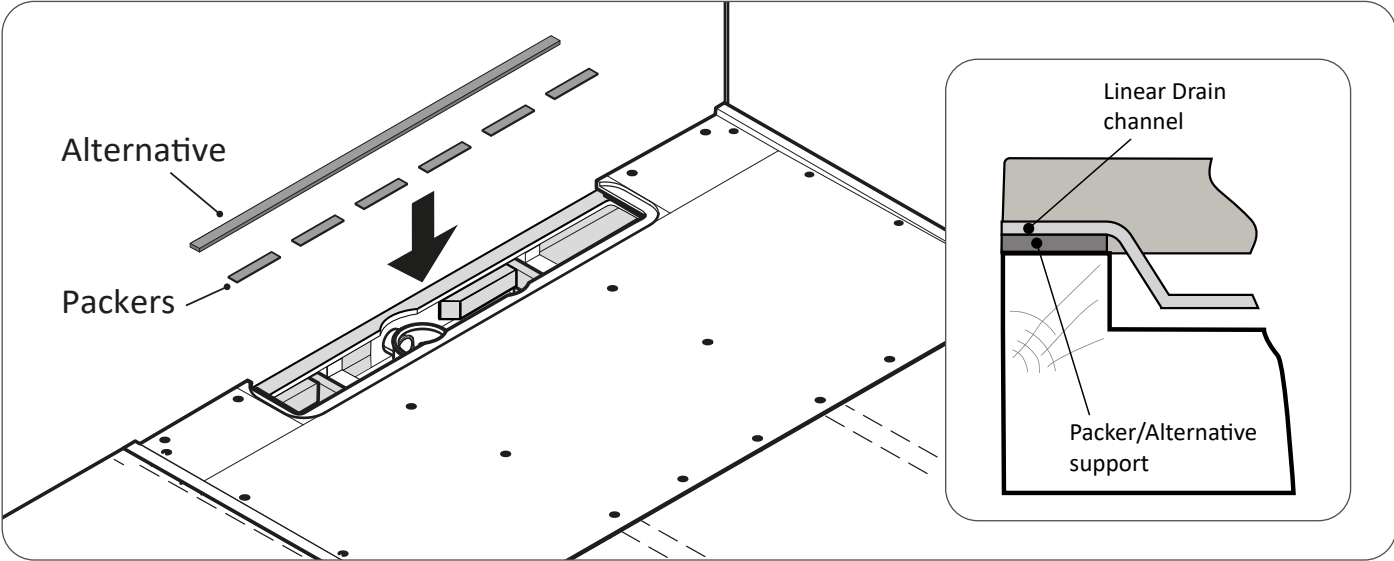
If not level, use suitable packing under the Aqua-Dec Linear.



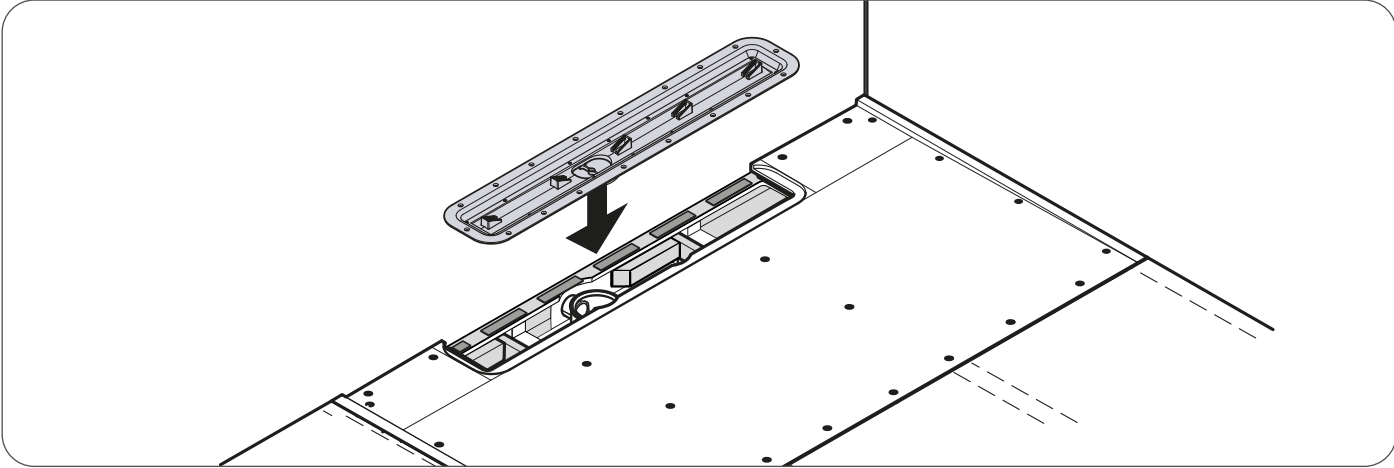
Ensure the Aqua-Dec Linear is perfectly level, drill and screw it to the plywood below using screws 5x60mm. The Aqua-Dec Linear should be secured around the perimeter at approx 200mm intervals, and in the centre as shown.

**\* Note;** Larger Aqua-Dec Linears will require additional fixings in the body. Ensure fixings line up with the joists and / or noggins.

# WOODEN FLOORS



Place packers, or suitable alternative, along the wall batten to support the drain channel under the fixing points. Loosely position the drain channel into the Aqua-Dec Linear.



For the Linear Drain channel installation, please refer to the Linear Drain Installation Guide.

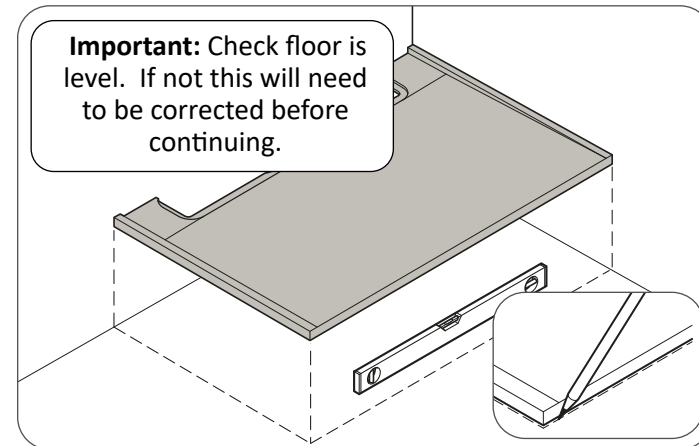
To view digital versions of all Impey installation guides simply scan the QR code on the back of these instructions.

For specific WaterGuard Membrane installation, please refer to page 17.

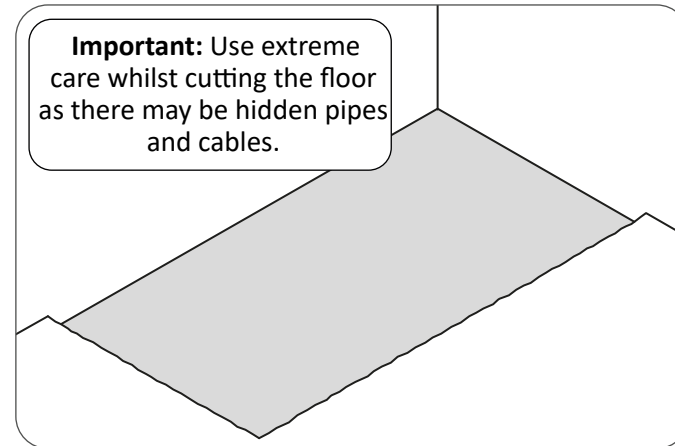
# CONCRETE FLOORS

## 16. SET THE AQUA-DEC LINEAR IN POSITION

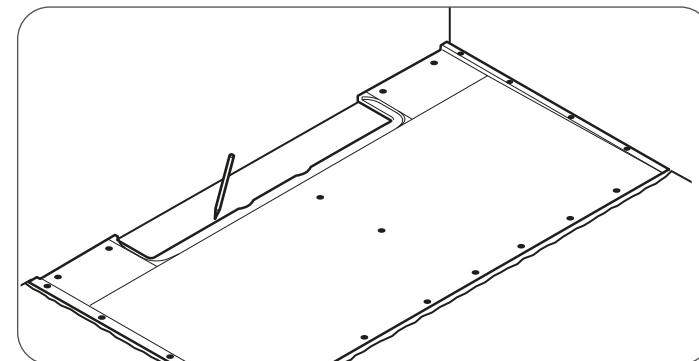
REFER TO BUILDING REGULATIONS TO ENSURE CORRECT SCREED DEPTH IS MAINTAINED WITHOUT COMPROMISING THE FLOOR STRUCTURE



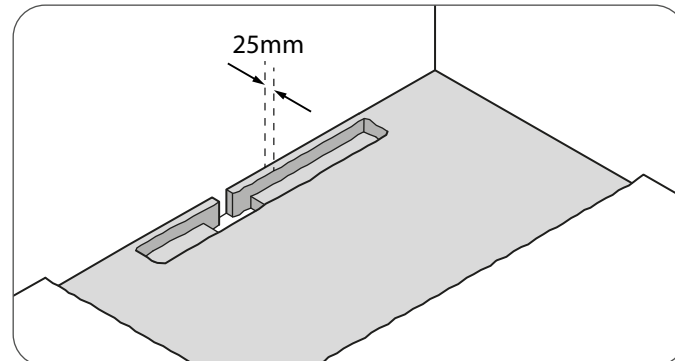
Position the Aqua-Dec Linear in the desired location on the floor and mark around the outer edge.



Excavate the floor material within the marked area to a suitable depth for the Aqua-Dec Linear with a suitable sand and cement bedding.



Place the Aqua-Dec Linear in position and mark a line around the aperture in the Aqua-Dec Linear, where the drain will fit.

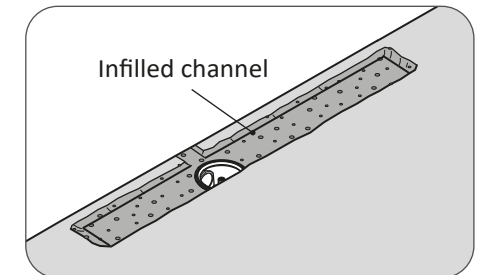
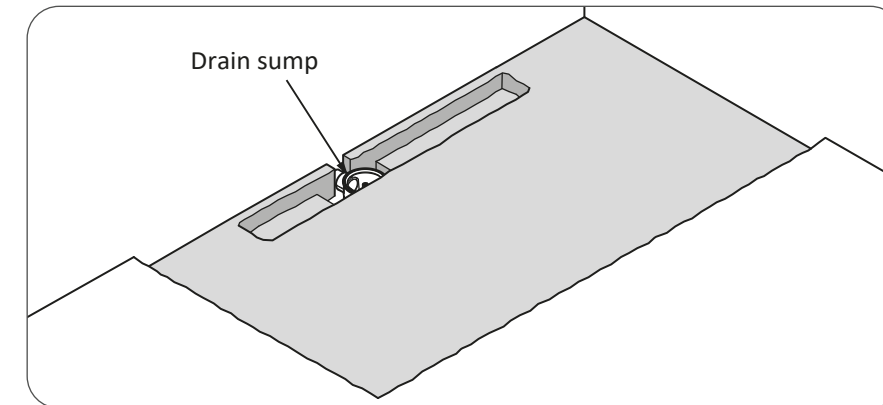


Excavate floor material for the installation of the linear drain channel, drain sump and waste pipe. Mark a 25mm ledge against the wall to support the drain channel. Leave a 25mm infill on the rear of the excavated Aqua-Dec Linear area.

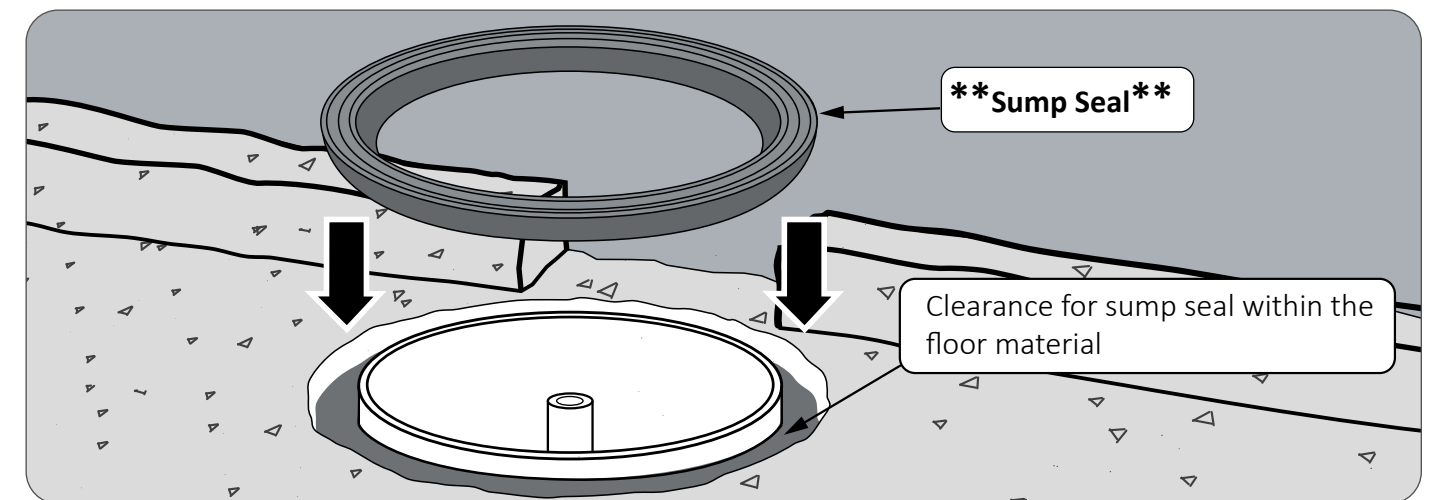
# CONCRETE FLOORS

## 17. INSTALL THE DRAIN SUMP

Measure where the drain sump will be positioned. Place it in the excavated area ensuring the base is sufficiently supported 96mm below the underside of the Aqua-Dec Linear. Install waste pipework in accordance with current Building Regulations and connect the drain sump to the waste pipe using solvent weld cement.



Infill the channelled area for additional support for the drain channel. Take care not to get sand and cement in the sump or seal.

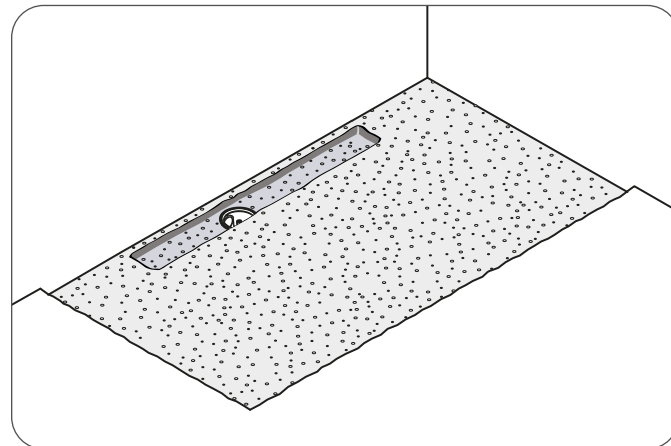


Allow sufficient clearance for the sump seal when excavating the floor material.

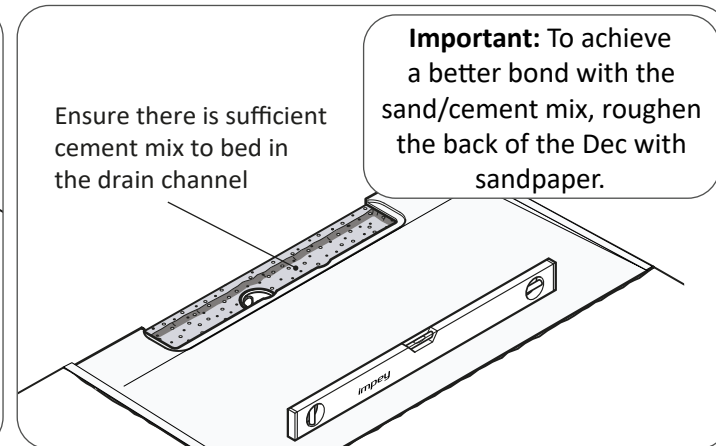
**\*\* DO NOT FIT THE SUMP SEAL AT THIS STAGE\*\***



## 18. FIX THE AQUA-DEC LINEAR IN POSITION

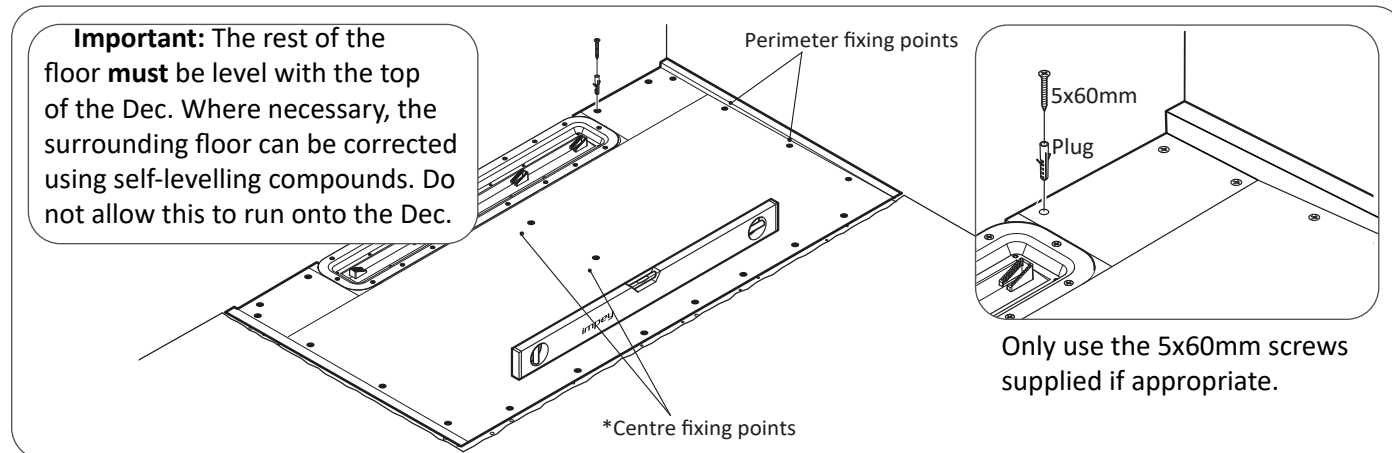


Lay a weak sand and cement mix in the excavated hole ensuring the mix is fairly dry. Take care not to get sand and cement in the sump.



Position the Aqua-Dec Linear onto the sand and cement mix, ensuring it is flush with the surrounding floor and level. If not level pack more weak sand and cement mix under the Aqua-Dec Linear.

Ensure the Aqua-Dec Linear is perfectly level and does not become distorted, leave to set overnight.



Once set, drill and screw the Aqua-Dec Linear to the concrete below using suitable sized plugs and screws. The Aqua-Dec Linear should be secured around the perimeter at approx 200mm intervals, and in the centre as shown.

**\*Note;** Larger Aqua-Dec Linears will require additional fixings in the body.

For the Linear Drain channel installation, please refer to the Linear Drain Installation Guide.

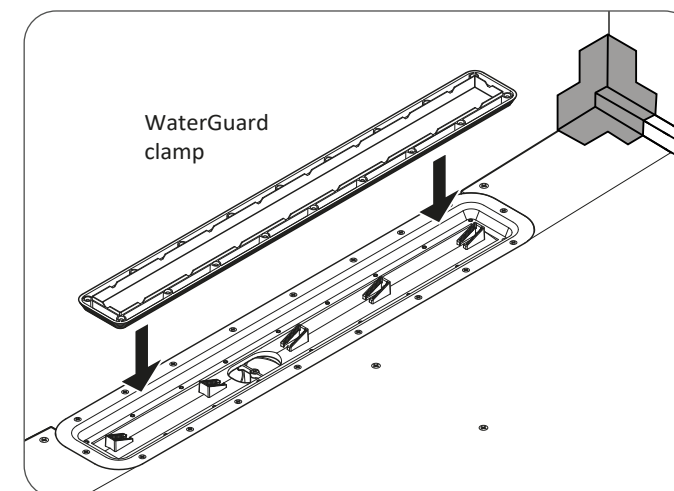
To view digital versions of all Impey installation guides simply scan the QR code on the back of these instructions.

For specific WaterGuard Membrane installation, please refer to page 17.

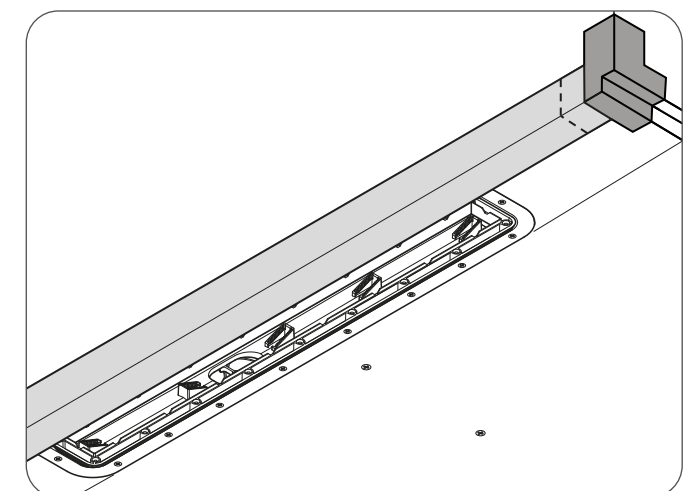
Before the final application of the tiles, the floor must be made waterproof using Impey WaterGuard self-adhesive membrane. To ensure this is carried out correctly this section of the installation guide must be read and followed in conjunction with the WaterGuard and Linear Drain installation guides.

## 19. WATERPROOF ALONG THE WALL-TO-FLOOR JUNCTION

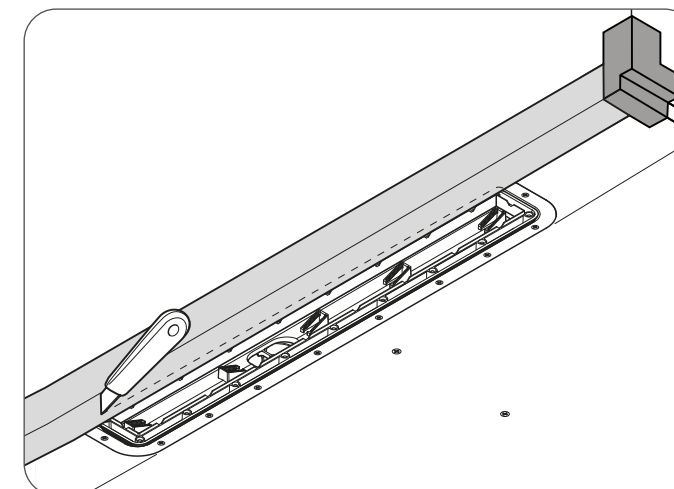
The installation of the WaterGuard on the Aqua-Dec Linear 1 has some specific stages that must be followed.



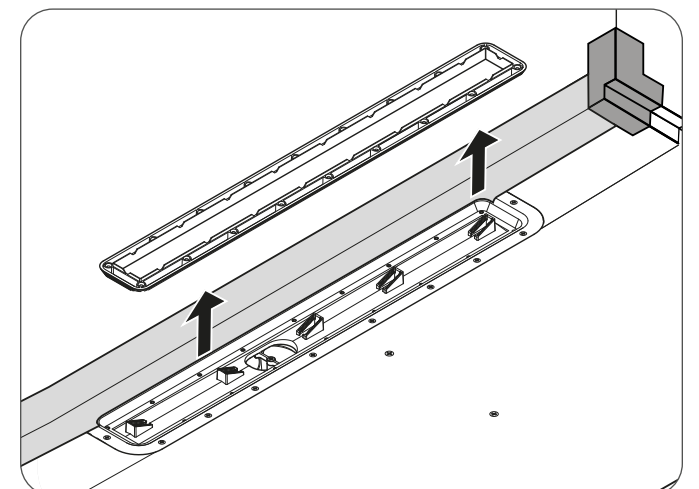
Place the WaterGuard clamp into position in the drain channel. DO NOT fix it yet. Ensure any included corners have the preformed corner/s fitted.



Using the 150mm jointing tape, apply along the wall/floor junction of the drain channel back edge. The tape should overlap 75mm up the wall, and 75mm onto the floor.



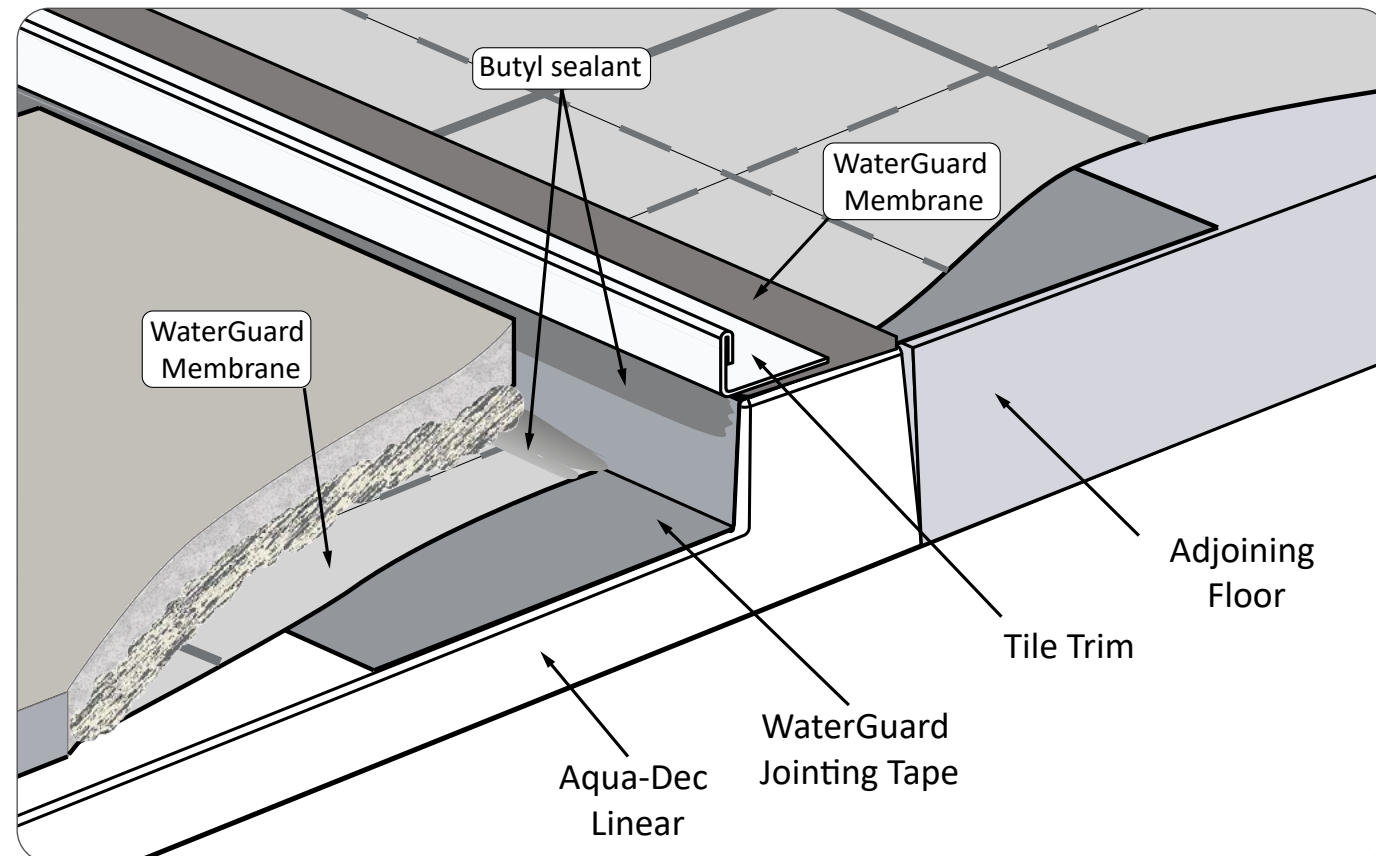
Carefully cut the jointing tape, following the gap between the drain channel and the WaterGuard clamp - use the outside edge of the WaterGuard clamp as a guide.



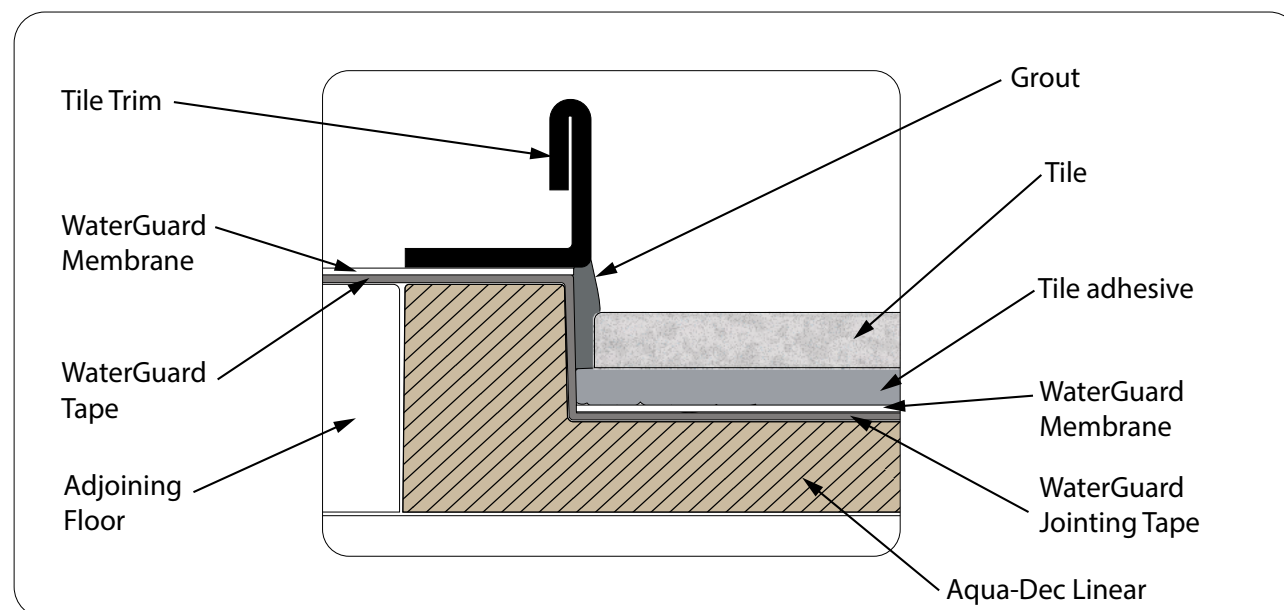
Remove the excess tape and the WaterGuard clamp.

## 20. TILING TRIM INSTALLATION

Should Tile Trim/s be required, please follow the instructions detailed below.

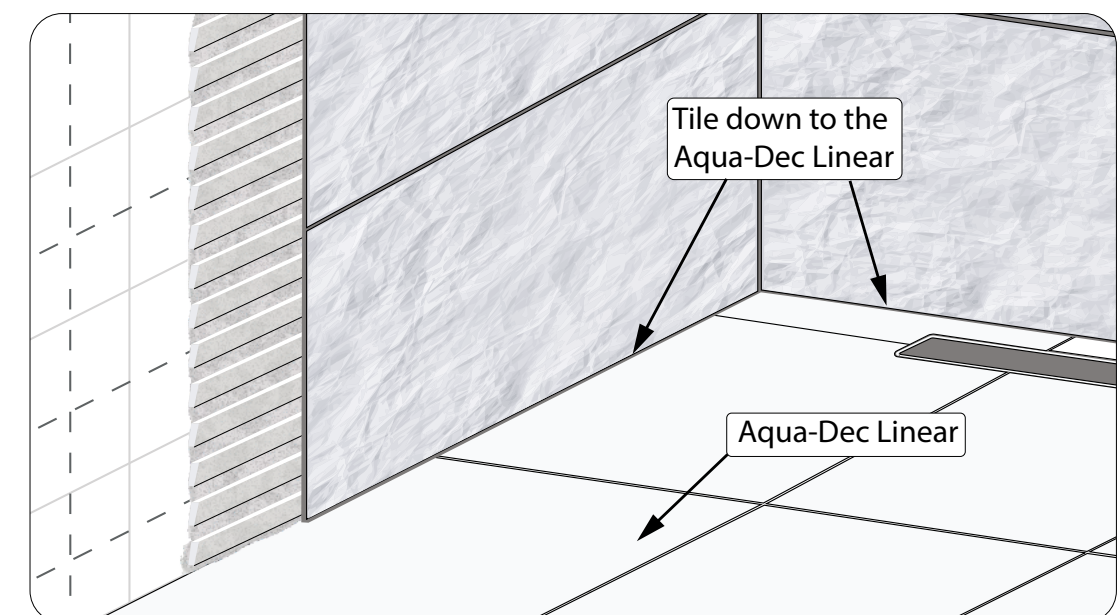
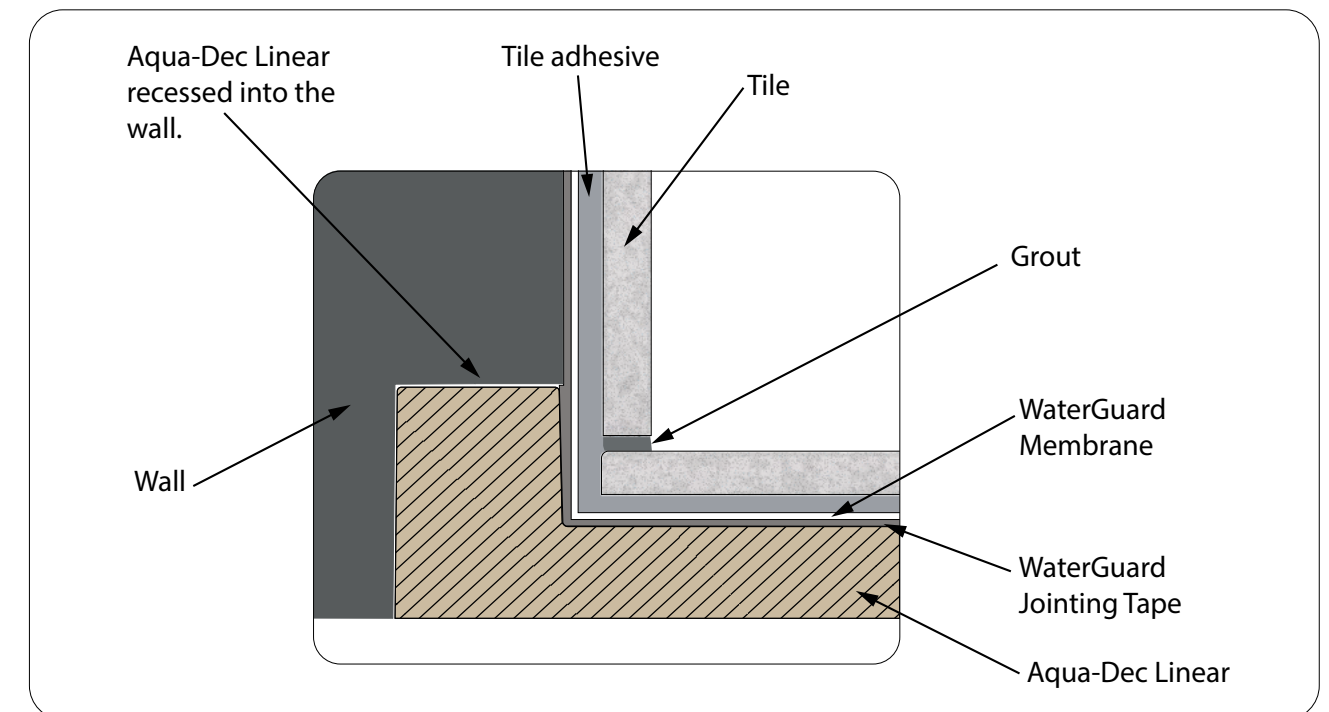


Fix the edging strip on top of the floor/dec upstand joint, ensuring the strip overhangs slightly allowing for the 2-3mm grout joint.



## 21. RECESSING THE AQUA-DEC LINEAR INTO THE WALL

When recessing the Aqua-Dec Linear into the wall, the wall tiles should be tiled down to the tiled Aqua-Dec Linear.



For the WaterGuard installation, please refer to the installation guide.

To view digital versions of all Impey installation guides simply scan the QR code on the back of these instructions.

USE QR CODE TO ACCESS:



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