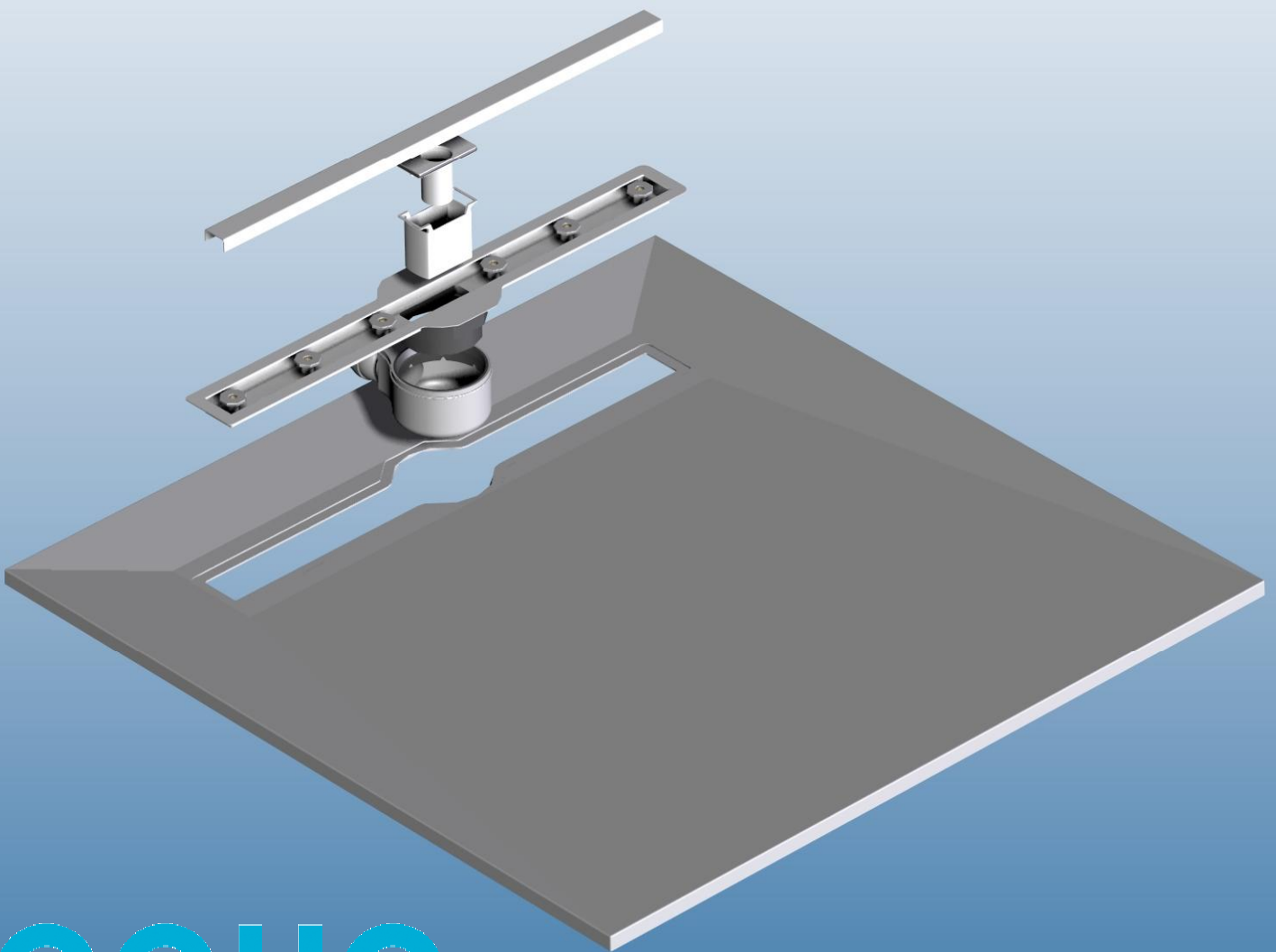
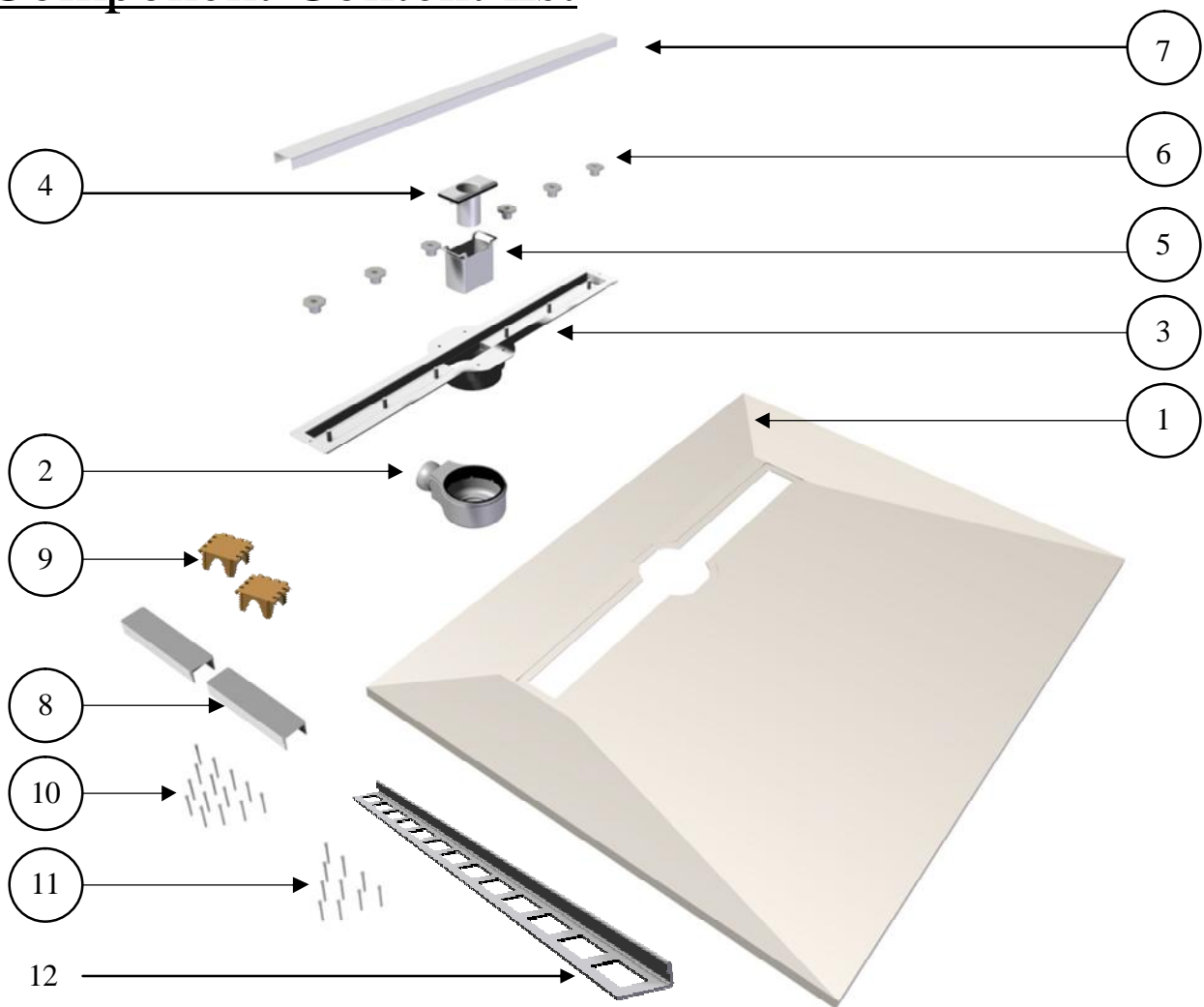




Aqua-Dec Linear Installation Guide



Component Content list

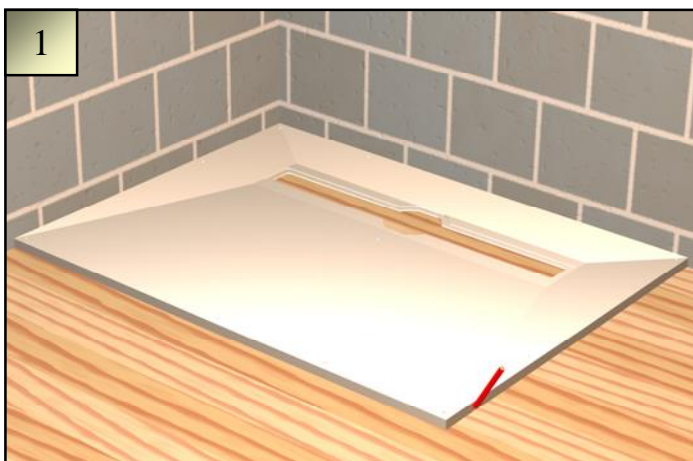

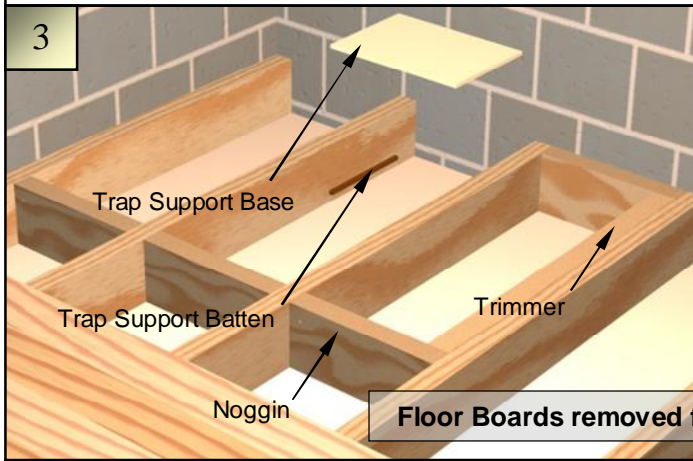
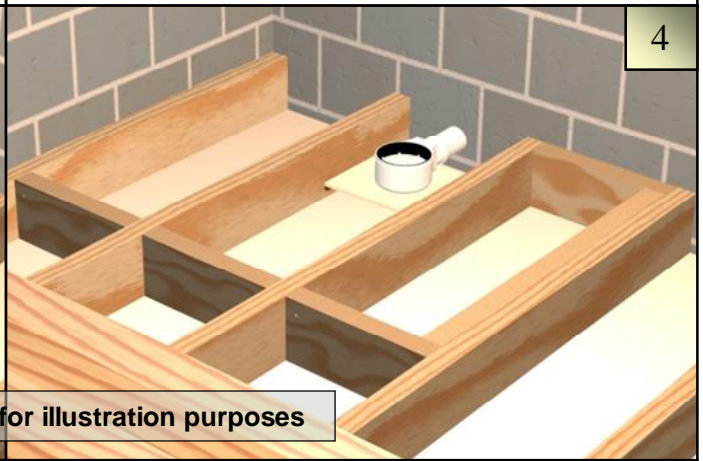


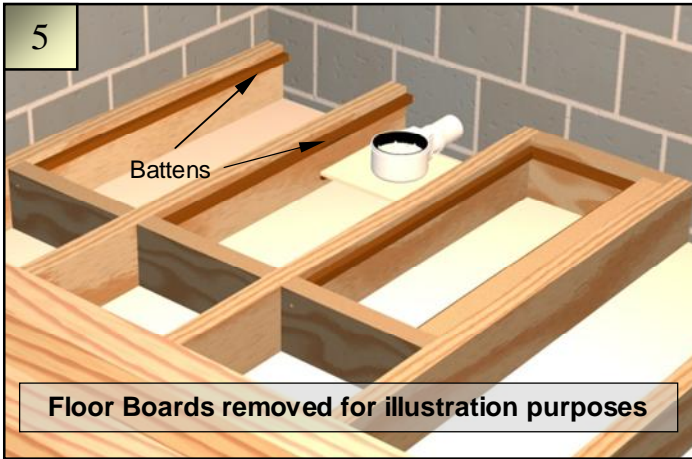
No.	Item Description	Quantity
1	Aqua-Dec Linear	1
2	Drain Body	1
3	Channel	1
4	Dip Tube	1
5	Trap Insert	1
6	Height Adjusters	6 (800mm Drain) 4 (600mm Drain)
7	Linear Drain Cover	1
8	Tiling Spacers	2
9	Tile Edging Trim Jigs	2
10	General Purpose Screws 5x60 (Dec)	16
11	Self Tapping Screws 8x3/4" (Drain)	10
12	Tile Edging Strip	4

- Please read this installation instructions carefully before proceeding.
- If you are unsure about any part of the installation, please contact our Technical Department on 0870 9090770.
- The dec and the drain are designed to be installed level and flush with the finished floor. The dec requires a solid platform on which to be installed.
- Prior to commencing with the installation check the existing floor is level. If it is not this will need to be corrected otherwise any water that escapes the graded area will puddle outside of the wet area.
- Please note: we recommend a flow rate no greater than 45 litres per minute for use with this product. Ensure your shower unit does not exceed this*.
- As with any wet-room, there may be splashes of water outside the graded area. Depending on the room lay-out consideration should be given to the use of a shower screen and to the positioning of other bathroom furniture.

**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.*

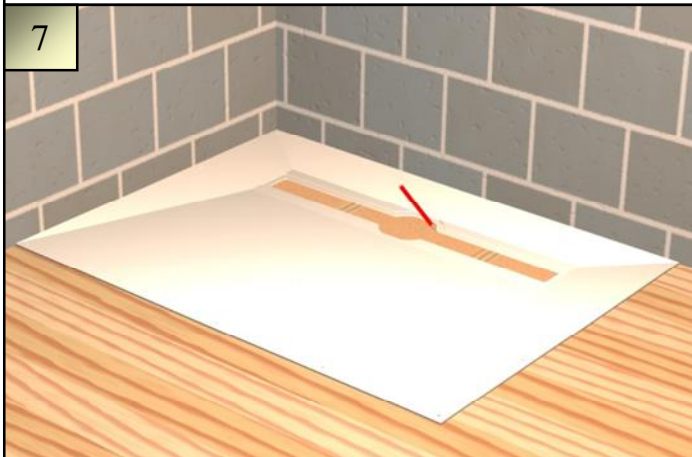
Installation Guide For Wooden Floors

	
<p>1</p> <p>Check if floor is level. If floor is not level this will need to be corrected before continuing with the installation. Position the Aqua-Dec Linear in the desired location on the floor and mark around the outer edge with a pencil.</p>	<p>2</p> <p>Using suitable saw, cut along the marked lines then remove floor boards. Use extreme care whilst cutting the floor as there may be hidden pipes and cables</p>
	
<p>3</p> <p>Fit noggins and trimmers as required to support the outer edges of the dec. The new timbers must be positioned so that the dec and the floor boards can be supported by the same timber. A support 115mm below the level of the bottom of the dec must also be fitted at this point. This is for the trap to rest on. (See also diagram 2 on page 12)</p>	<p>4</p> <p>Measure where the centre of the aperture in the dec would appear once in position, and then position the centre of the drain body on the support, in line with aperture centre. Install the waste pipe work in accordance with current building regulations and connect to the trap in an approved manner.</p>



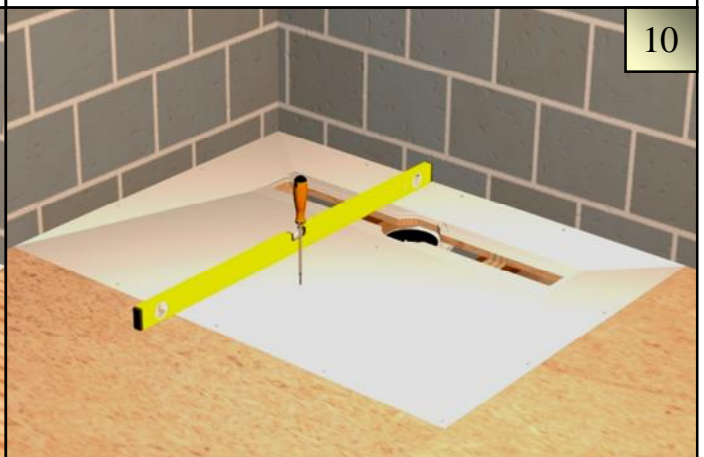
Fix battens to the side of the joists and noggins. The battens must be fixed 18mm below the top of the joists to allow for the thickness of the plywood to provide the flat and level base on which the dec will be installed.

Measure and cut out the 18mm plywood panels required. Position them all, but **DO NOT SECURE YET**. Check panels are level with a spirit level. (See also diagram 2 on page 12)



Place the dec onto the plywood platform. Using a pencil, mark a line around the aperture in the dec into which the drain fits, leaving an outline of this aperture on the plywood and floor boards below.





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). Then drill and screw the plywood base to the battens below. (See also diagram 2 on page 12)



Replace the dec onto the plywood base, ensuring that the dec is perfectly level. This is important if correct drainage from the dec is to be achieved. If this is not the case use suitable packing under the dec to ensure it is level. (See also diagram 2 on page 12)

Now drill and screw the dec to the plywood underneath using screws provided (5x60mm) ensuring the dec is perfectly level. It is also essential that the rest of the floor is level with the top of the dec. Where necessary, screw sheets of appropriate thickness tile backer board, plywood or other suitable underlay to the floor boards to achieve this. (For recommended screw positions see diagram 4 on page 13)

Installation Guide For Concrete Floors

 <p>1</p>	 <p>2</p>
<p>Check if floor is level. If floor is not level this will need to be corrected before continuing with the installation. Position the Aqua-Dec Linear in the desired location on the floor and mark around the outer edge with a pencil.</p>	<p>Using suitable equipment, excavate all the concrete within the marked area to a minimum depth of 35mm. Use extreme care whilst cutting the floor as there may be hidden pipes and cables</p>
 <p>3</p>	 <p>4</p>
<p>Mark a position of the drain channel and remove enough concrete for the installation of a waste pipe and shower trap. It is essential that, when the waste pipe and shower trap are installed, the trap is located directly below the centre of the hole in the dec, and that there is suitable support for the base of the trap, 115mm below the level of the bottom of the dec. This is for the trap to rest on. (See also Diagram 3 on page 12)</p>	<p>Measure where the centre of the aperture in the dec would appear once in position, and then position the centre of the drain body in line with aperture centre, ensuring the base is sufficiently supported. Install the waste pipe work in accordance with current building regulations and connect to the trap in an approved manner.</p>



5

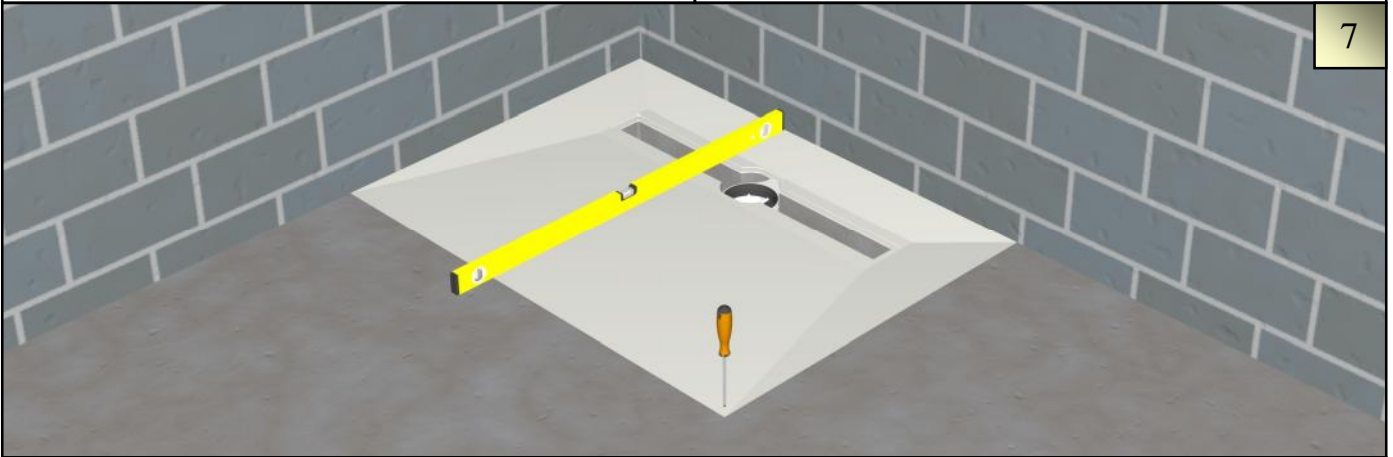


6

To achieve better bond with the sand cement mix roughen the back of the dec with sand paper

Lay a weak sand cement mix in the excavated hole.
Note: Ensure the mix is fairly dry.

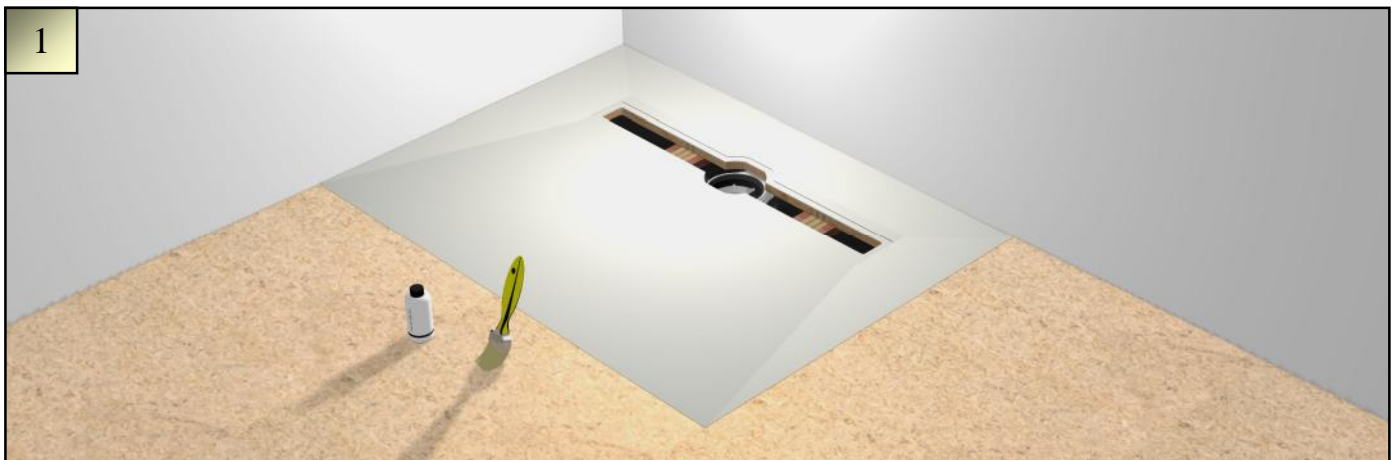
Place the dec onto the weak sand cement mix and ensure that the dec is flush with the surrounding floor and perfectly level. This is important if correct drainage from the dec is to be achieved. If this is not the case pack more weak sand/cement mix under the dec to ensure it is level.



7

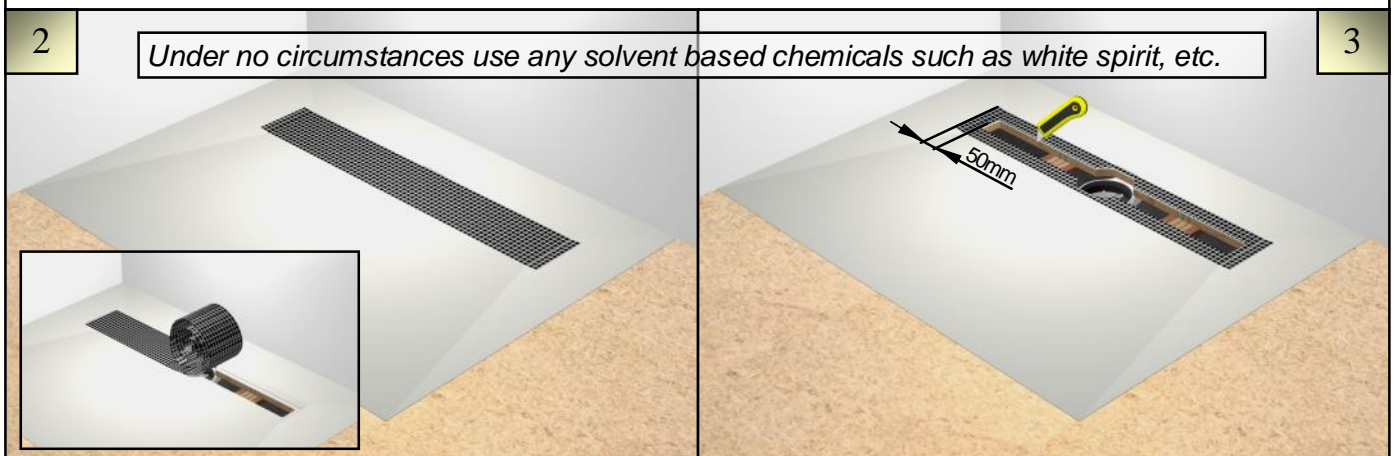
While ensuring the dec is perfectly level, drill through the dec into the concrete below. Using suitable sized plugs screw the dec to the concrete below. Perform one last check to ensure the dec is level on all four sides (and the rest of the floor is additionally level). Leave to set over night.
Ensure That The Dec Does Not Become Distorted When Screwing Down.

Applying The Tilesafe Tanking Membrane



The floor should now be completely level. Ensure that any grease or dirt has been removed, apply the tilesafe primer to all the top surfaces and leave to dry.

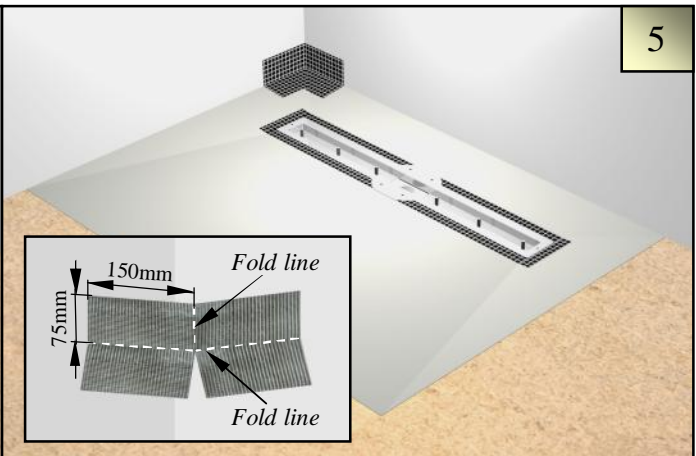
Note: If you are using Aqua Systems Undertile Heating, or similar, please consult manufacturer's instructions regarding installation or temperature probe.



Under no circumstances use any solvent based chemicals such as white spirit, etc.

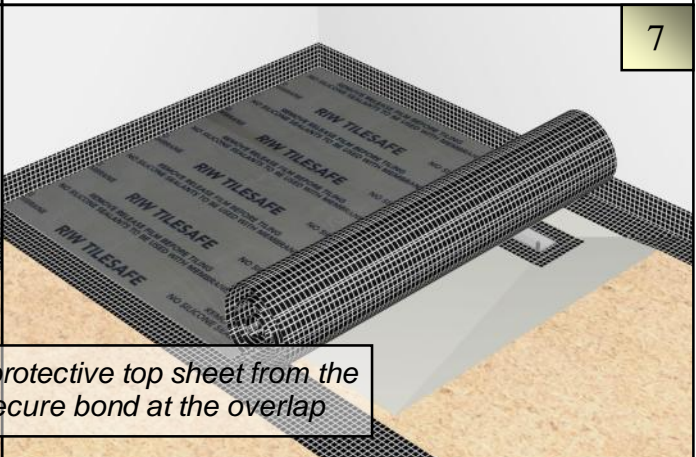
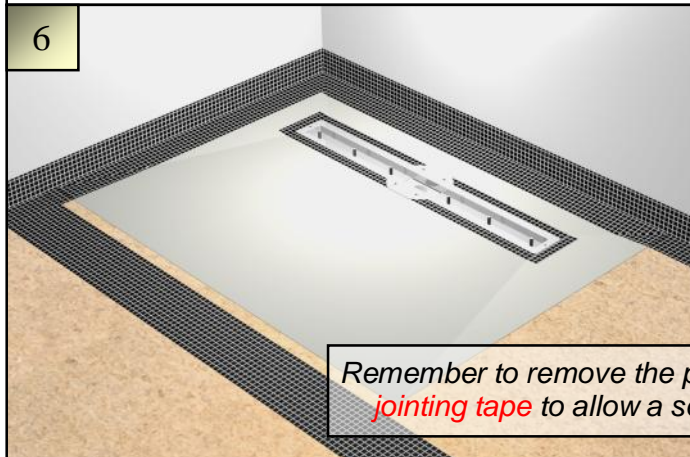
Ensure that any grease or dirt has been removed from the dec. Measure and cut a strip of the jointing tape, long enough to cover the aperture in the dec + additional 100mm. Remove the release film and carefully set the membrane into position starting approximately 50mm from one end of the channel.

Find the location of the aperture and mark its outline in the membrane. Using a sharp knife carefully cut around the formed crease.



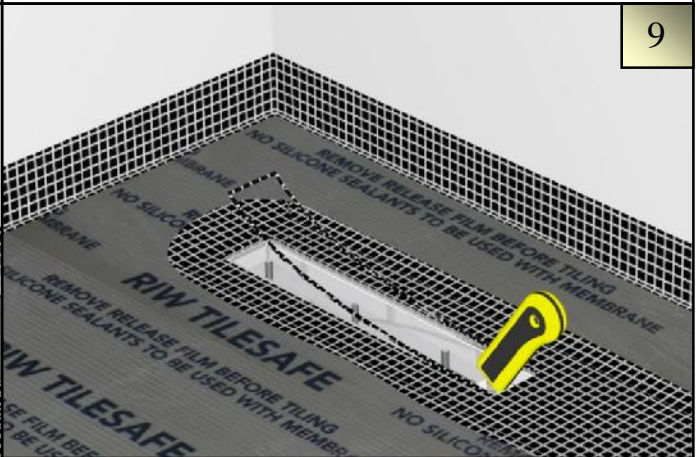
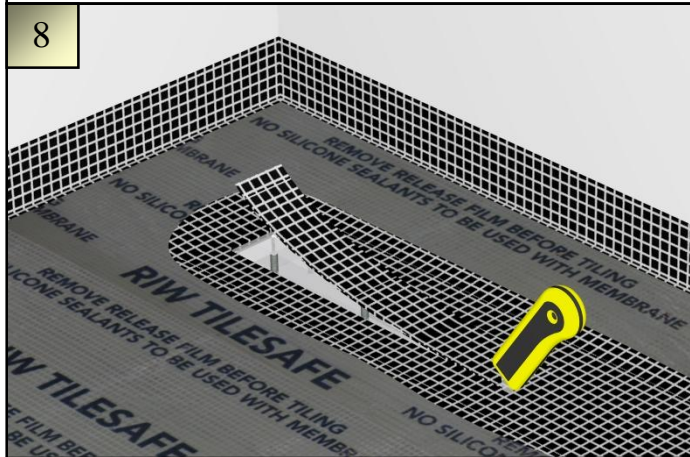
Make sure that any steel parts are degreased at this stage, then position the drain channel into the dec and push it fully into the drain body. Using an appropriate drill, drill through the dec in the predefined positions on the top of the drain. Using screws supplied, screw the drain through to the plywood / concrete below. Now insert the dip tube and trap into the drain, having lubricated the dip tube O-ring.

Begin tanking the wetroom floor at the corner of the dec using 300mmx150mm strip of jointing tape. Fold along its centre line (75mm) and then mid way along the length (150mm), cut the membrane to the fold line. Remove the release paper and press firmly into the corner (mesh side up) overlapping on the floor where you have just made the cut.



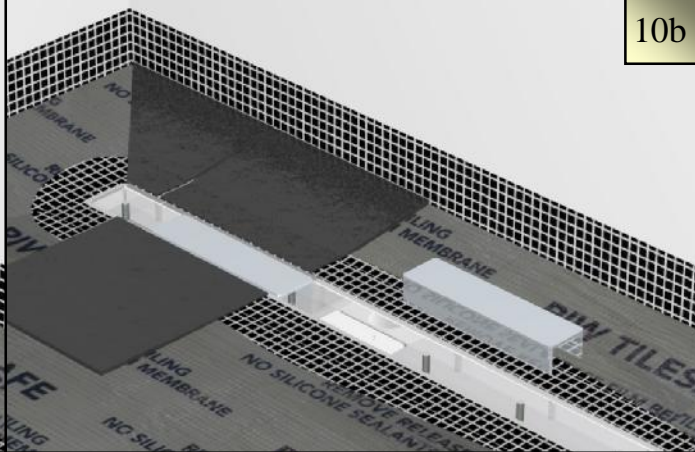
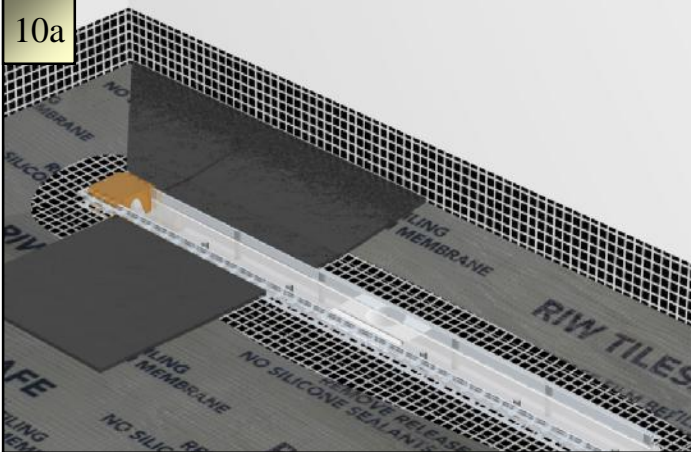
Using the 150mm jointing tape, line all corners and wall/floor junctions so that the tape overlaps 75mm at the wall and 75mm onto the floor. Ensure a 75mm overlap between each section of the jointing tape. Measure the width of the sheet of Tilesafe tanking membrane and draw a guide line for the jointing tape. Removing the release paper set the jointing tape down so that the guide line runs along the centre line of the tape.

Measure and cut the required length of tilesafe tanking membrane and remove the protective top sheet from the jointing tape. Remove the release film from the Tilesafe membrane and carefully set into position - pressing firmly onto the jointing tape. Repeat steps 6 & 7 until the floor of the wetroom is covered.

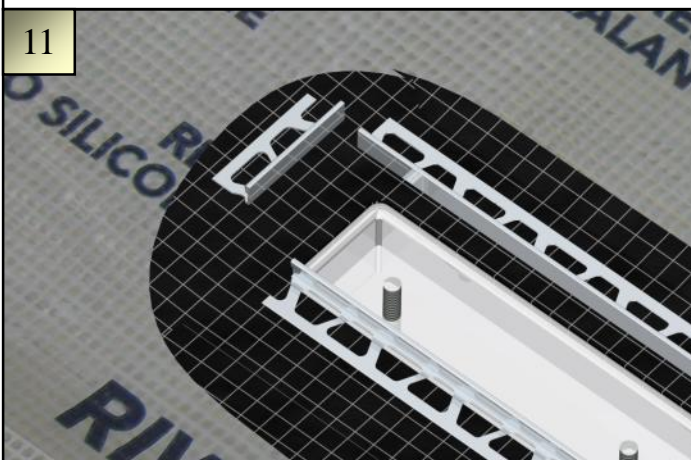


Remove a section of the protective top sheet from around the drain channel **making sure not to damage the membrane**. Find the location of the drain and by gently pressing the membrane over the internal edge of the channel, mark its outline in the Tilesafe membrane. Using a sharp knife carefully cut around the inner perimeter of the channel.

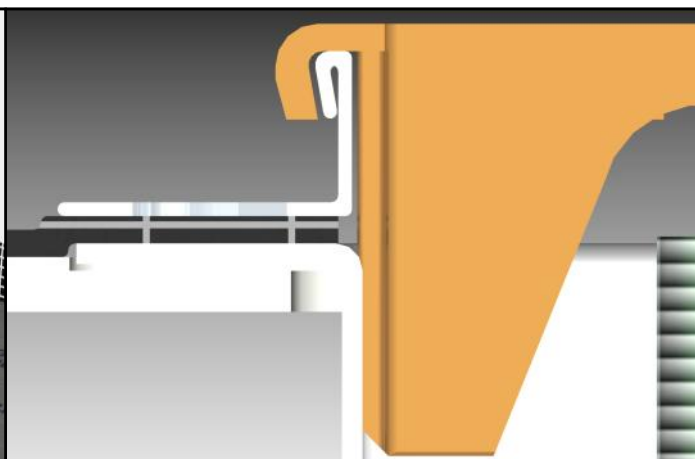
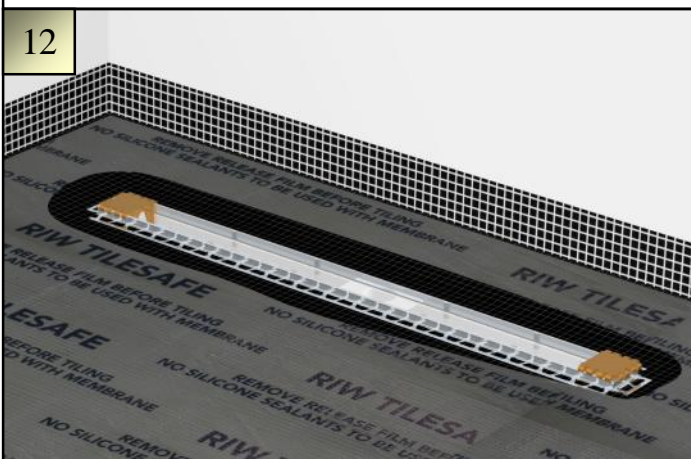
Trim the edges of the Tilesafe membrane at a distance of approximately 2mm from the inner perimeter of the channel.



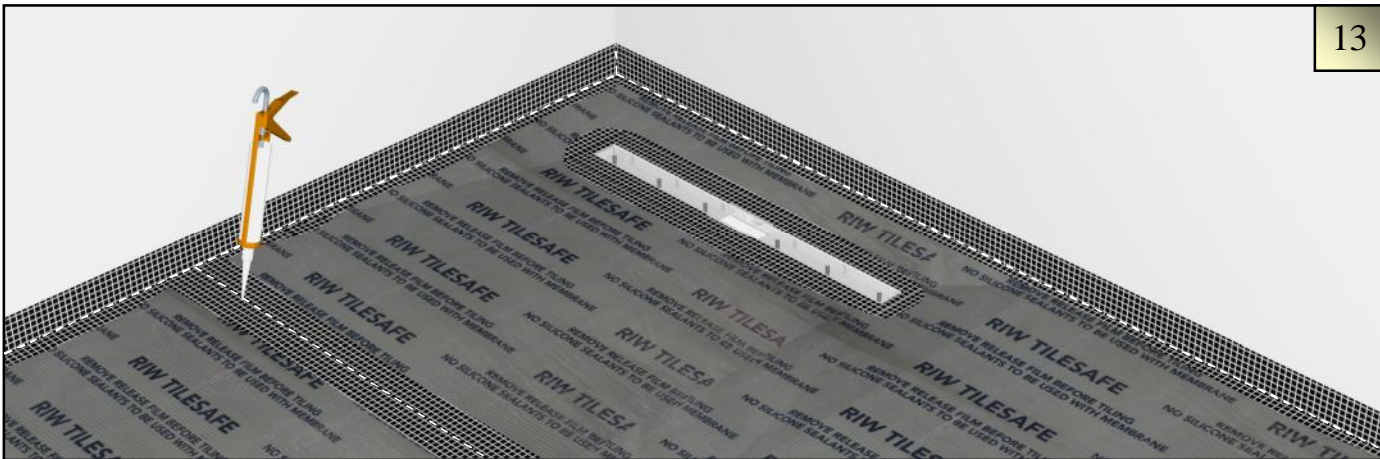
Tiles can be finished at the edge of the drain using two methods. If you wish to use tile edging strip, see image (10a) - tile edging trim jigs are used (ensure that the jigs are positioned at either end of the channel). For installations that do not require edging strip, see image (10b) - tiling spacers are used as a guide (floor is tiled up to the faces of the spacers, **avoid cut tile edges at the edge of the channel**)



Cut edging strip to length as shown in the image (refer to a table on page 12 for cut length). Position the edging strip around the channel.

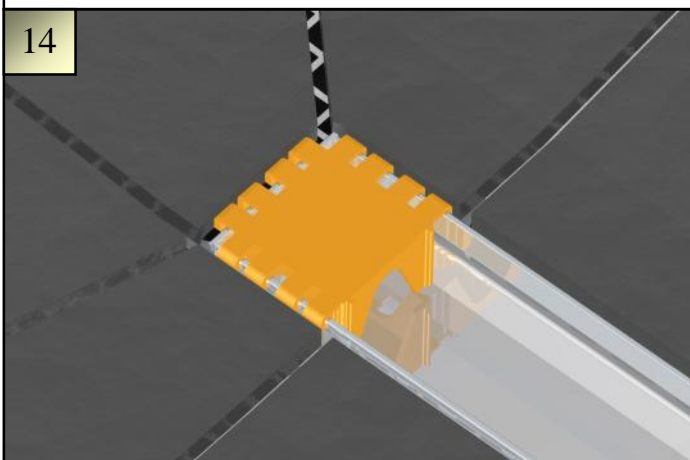


Insert installation jigs into the channel. Ensure that the jigs are positioned at either end of the channel. Secure the tiling strip in position as indicated in the image above.



To achieve a perfect seal, apply the jointing compound along all of the joints of the membrane. The jointing compound has been specially formulated for use with Tilesafe and must not be substituted for any other sealant. Peel the protective top sheet back enough to seal joint and ensure that it is fully removed before commencing tiling.

NOTE: Under no circumstances use silicone sealant on the Tilesafe membrane.
If you are using Aqua Systems Undertile Heating, or similar, this will need to be installed at this stage.

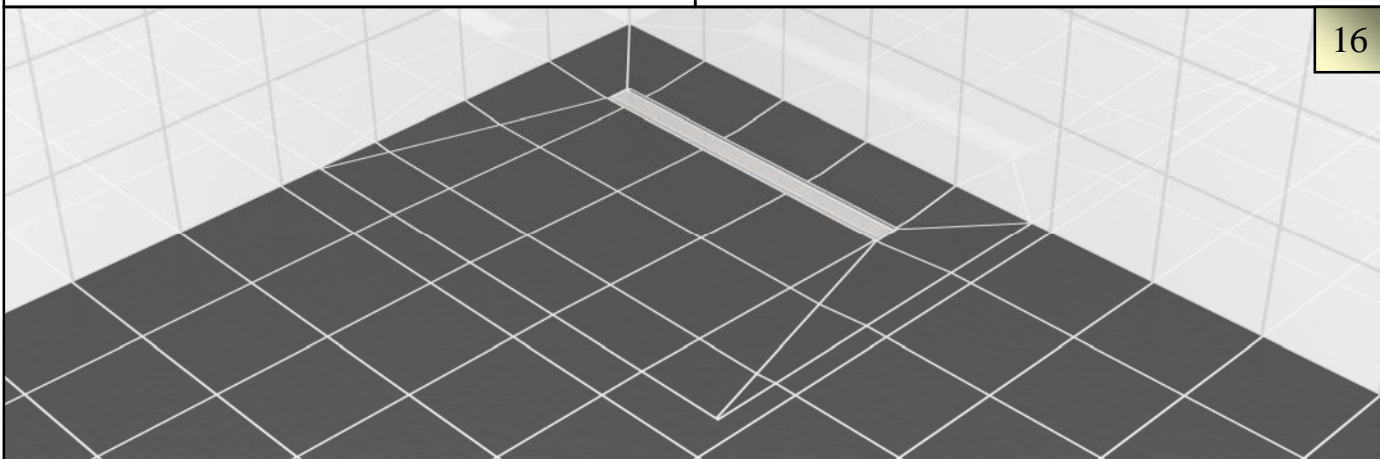


Remove remaining protective top sheet before tiling. Tile the floor up to the faces/hooks of the installation jigs.



Once the floor has been tiled, remove the installation gauges and grout the floor. Screw the height adjusters onto the drain, turning them as appropriate so that when the cover is inserted, it is level and flush with the tiles. Place the cover over the adjusters.

NOTE: Do not use solvent-based materials such as adhesives, grouts or sealers in conjunction with the Tilesafe membrane.



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

NOTE: Do not use solvent-based materials such as adhesives, grouts or sealers in conjunction with the Tilesafe membrane.

Drain Length	Profile Lengths			
			For B= 2mm	For B= 3mm
600 mm	2 × 600 mm	+	2 × 56 mm	or 2 × 58 mm
800 mm	2 × 800 mm	+	2 × 56 mm	or 2 × 58 mm

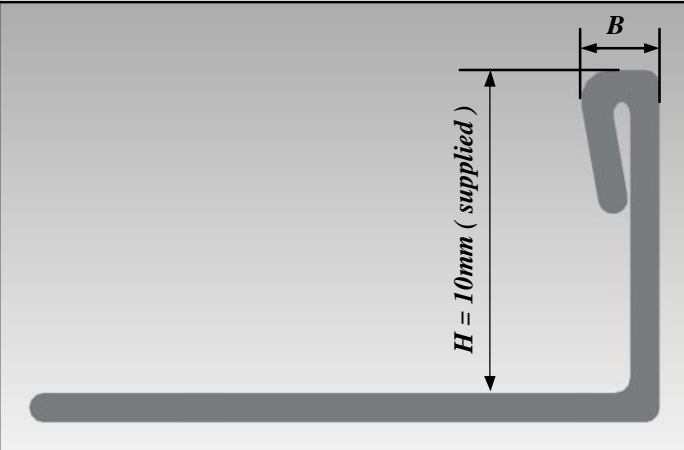


Diagram 1. Edging strip cut lengths

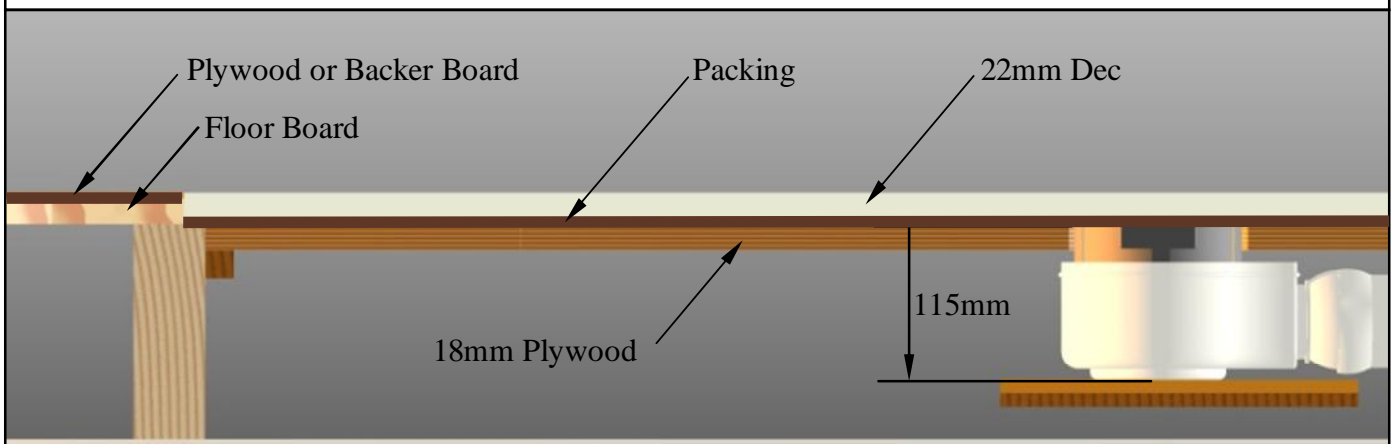


Diagram 2. Cross section of dec and joists.

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 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.

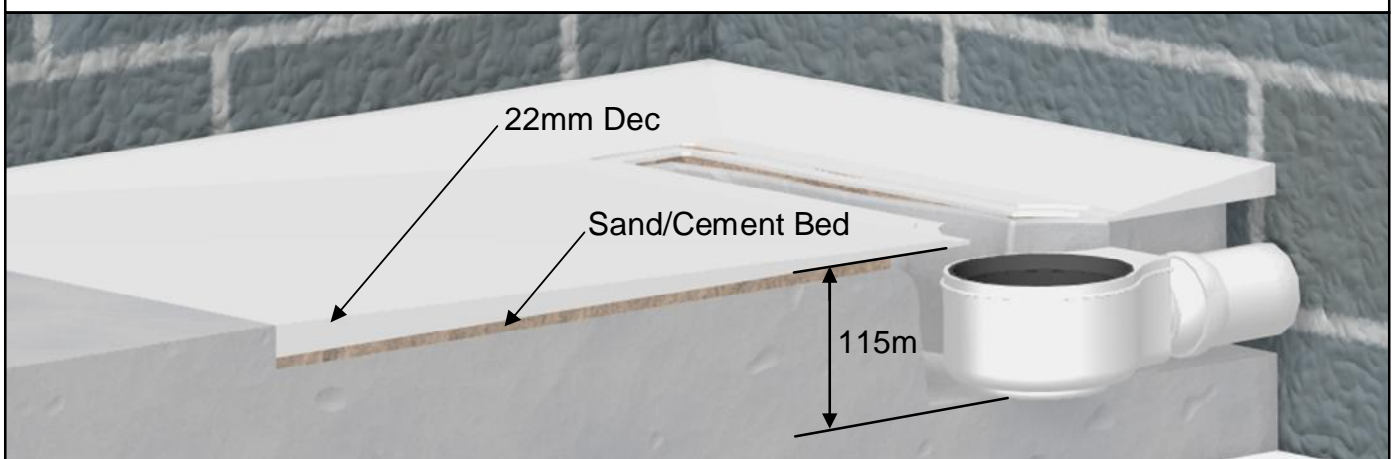


Diagram 3. Cut Away view of dec and concrete floor

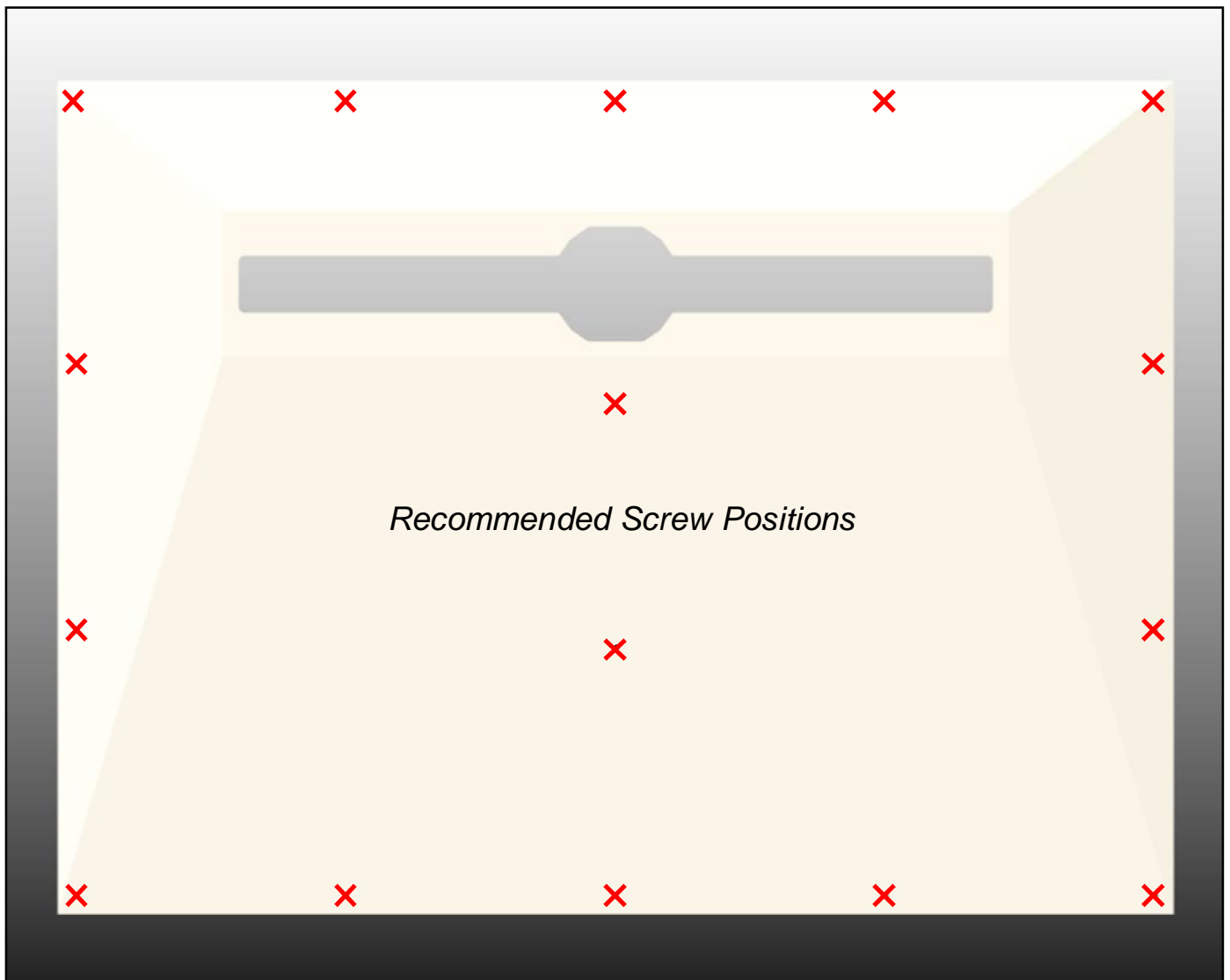



Diagram 4. Recommended Screw Positions

 = recommended screw positions. Alternative screw positions may be used if required.



Impey UK Ltd,
Conquest Business Park,
Cad Road, Old Way, Ilton,
Somerset TA19 9EA

Tel: 0870 9090770

Fax: 01460 57605

E-mail: info@wetroomtechnology.com