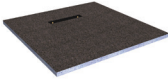




## 30mm Linear Level Access Shower Tray

### Parts Supplied

Description		Qty
Shower Tray		1

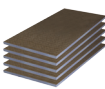
### Typical Parts Required (Fitting Kit)



Description		Qty
Shower Drain Base		1
Shower Drain Angled Coupler		1
Shower Drain Reducer		1
Shower Drain Stop End		1
Shower Drain Vertical Waste Elbow		1
Shower Drain Internal Bowl		1
Shower Drain Top		1
Shower Drain Bolts		4
Shower Drain Finishing Grate		1
Disposable Tiling Aid		1

Description		Qty
Fix-KST Adhesive Bag (5kg)		*
Wood Floor Primer		*
Fix-MD Adhesive Tube (310ml)		1
Waterproofing Tape		*
Pro-SEAL Pre-MIX		*
Waterproofing Internal Corner		*
Protective Gloves		1
Paintbrush		1

\*Quantities may vary according to installation.

### Before You Start Parts You May Also Require

Description		Qty
10mm Waterproof Floor Boards		*

Fixing Plate		*
Fixing Plate Screw		*

## Tools required (not supplied)

- Additional Paint Brush (wood floors only)
  - Tape Measure
  - Pencil
  - Straight Edge
  - Hard Point Saw
  - Junior Hacksaw
  - Eye Protection
  - Level
  - Breathing Protection
  - Bucket
  - Solvent Weld Waste Adhesive
  - Sealant Gun
  - Measuring Jug
- 



## Before You Start

### Important Information

#### **PLEASE READ THESE INSTRUCTIONS THOROUGHLY BEFORE STARTING INSTALLATION.**

If your product has slightly damaged edges, there is no need to return the product as these can easily be repaired and most minor damage will naturally be covered during installation.

Should you need to patch a repair that won't be naturally covered you should do so in the same way as you would seal a joint with Waterproofing Tape and Pro-SEAL Tape Sealer.

#### **DO NOT PLACE STEP LADDERS OR HEAVY ITEMS ONTO THE SHOWER TRAY OR TRAY EXTENSION PRIOR TO TILING, AS THIS COULD PUNCH A HOLE THROUGH THE SURFACE.**

When you are ready to start, make sure that you have the right tools to hand and that the installation area is clean and dry.

When drilling or fixing into walls or floors it is essential that you check for pipes and wires before commencing.

### Site Preparation

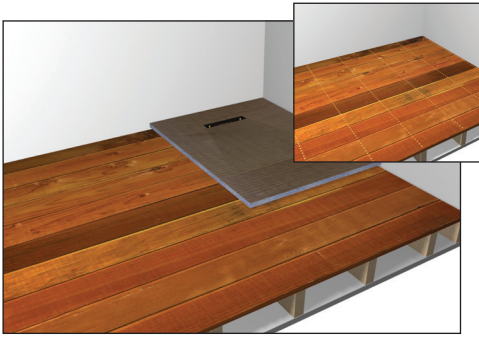
All floor types need to be clean, dry and dust free.

All floor types need to be as flat and level as possible.

Prior to installation you will need to have access to a wastepipe in the correct position. Please ensure that the wastepipe is accessible and any alterations to the floor are completed prior to installation.

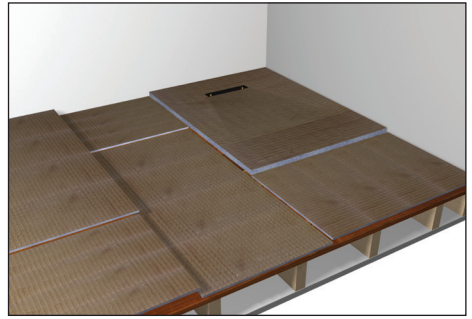
If you are running your pipe work below the floor, the waste pipe must run in the same direction as your floor joists so please check your joists before starting installation.

When you are ready to start, make sure that you have the right tools to hand and that the installation area is clean and dry.



### Step 1

Measure the entire floor area and plan the layout on a sheet of paper. Decide if any of the waterproof boards need to be cut and if they do, cut them now using a hand point saw. Lay the entire pack out across the floor area to check the fit. **DO NOT WALK ON OR STAND ANYTHING ON THE SHOWER TRAY OR WATERPROOF BOARDS AS THEY CAN EASILY BE DAMAGED AT THIS STAGE.** Carefully remove the waterproof boards and store somewhere safe.

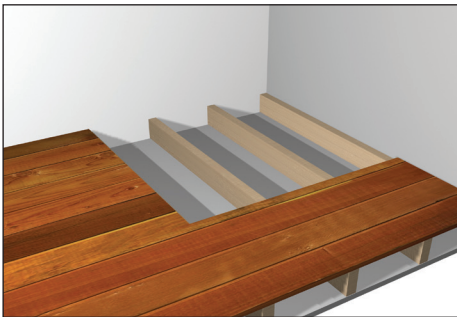


### Step 2

Mark the shower tray position onto the floor. Measure the position of the waste hole in the shower tray. Carefully remove the shower tray and store somewhere safe.

### Step 3

From the nails or screws holding the existing flooring down, establish where the joists are. Where the edge of the shower tray runs across the joists, the floor cut line will be as marked in step 2. Where the edge of the shower tray runs in the same direction as the joists, mark the centre line of the first joist outside the shower area as you will need to remove the floor up to this line.

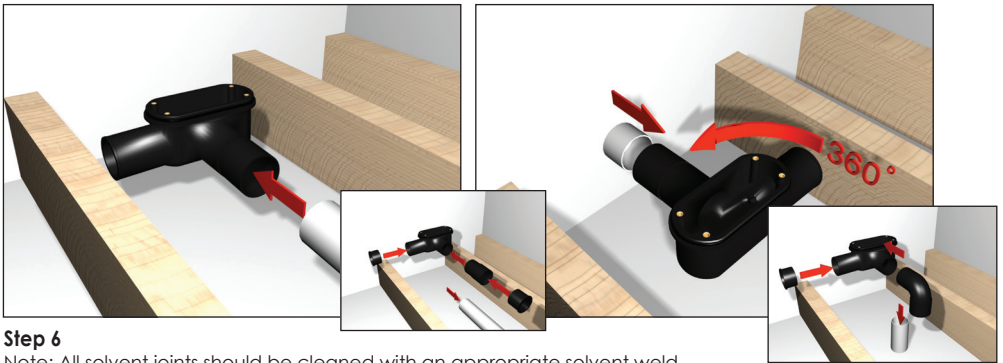


### Step 4

Before proceeding, check thoroughly for pipes and wires under the floor. Set the circular saw blade to a depth of 18mm, it may be necessary to increase the depth slightly if 18mm does not go right through the floor. As a safety precaution, we would recommend that the circular saw is plugged into an RCD protected socket. Using the circular saw cut along the lines that you have marked and remove the flooring and all nails or screws.

### Step 5

Make sure that the remaining floor boards or sheets in the rest of the room are fully secured down and as level and flat as possible.



### Step 6

Note: All solvent joints should be cleaned with an appropriate solvent weld cleaner prior to using solvent adhesive.

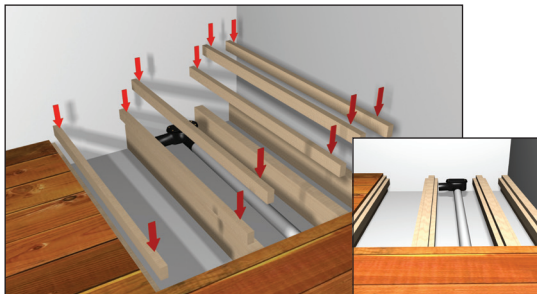
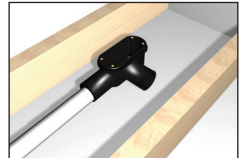
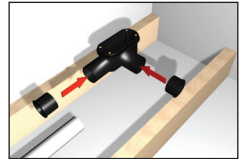
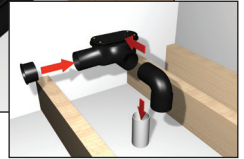
The waste has two outlets for multi direction waste flow. The outlet running at a ninety degree angle from the waste has a zero degree fall; this is to facilitate the fitting of the vertical waste elbow. If you plan to run the waste horizontally from this outlet you MUST fit the angled coupler supplied with the linear drain to achieve the required waste fall. Clean with Spread solvent weld adhesive around the outside of the coupler and push into the linear drain outlet with a twisting action, ensuring that the coupler is fit with the fall in the correct orientation by ensuring that the angled coupler is fitted with the 'up' text facing upwards

IMPORTANT: As the drain has two outlets, it is important that the outlet not being used is capped off using the stop end supplied. Spread solvent weld adhesive around the outside of the stop end and push into the linear drain outlet with a twisting action.

The linear drain is also supplied with a 2" to 1 1/2" reducer for instances where you need to reduce to 1 1/2" waste pipe. Spread solvent weld adhesive around the outside of the reducer and push into the remaining linear drain outlet with a twisting action. If you have 2" waste pipe this part can be discarded and simply fit your waste pipe to the linear drain using solvent waste adhesive in the same manner as above.

Once any solvent welds have set, pour water down the drain to check that the waste is not blocked and that there are no leaks.

Note: The typical linear drain flow rate figure (42L/min) is based on using 2" waste pipe; by reducing the waste pipe diameter this will have an adverse affect on the flow rate achieved. For water to drain away properly, the waste pipe must have a fall of 3cm per metre.

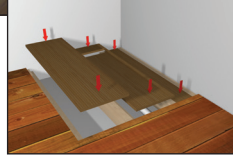
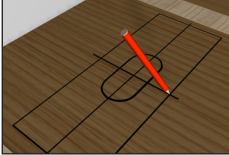
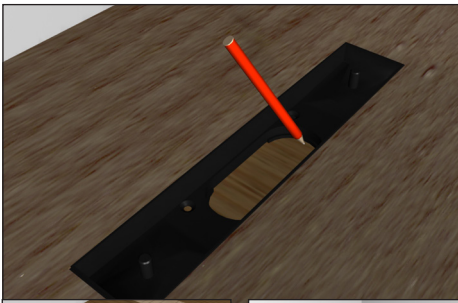


### Step 7

All exposed joists will now need a batten running along the inside of the joist to accommodate the new plywood low level floor. Measure the length of the exposed joist taking into account any obstructions. Cut some timber batten to length and screw at approximately 150mm intervals to the inside of all joists 18mm below the top of the joists.

### Step 8

Cut some 18mm plywood to fit between the joists on top of the batten fitted in step 7.



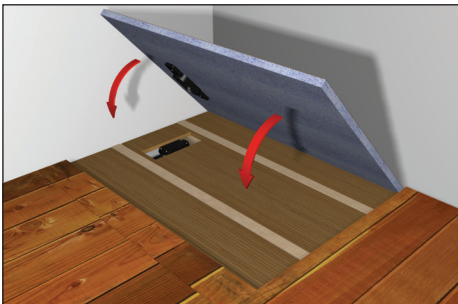
### Step 9

Before proceeding, check thoroughly for pipes and wires.

Measure the shower drain base position on the floor and mark this onto the relevant piece of plywood. The size of the cut-out needs to be 315mm x 90mm. Make sure that the drain's centre is in the middle of the cut-out.

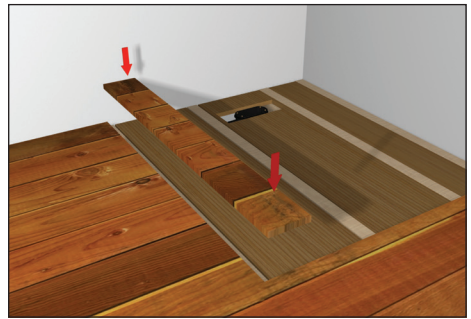
Remove this piece of plywood, then using a jigsaw cut a hole in the plywood so that the shower drain base and shower drain connector will be exposed through the new floor.

Check the position of any pipes or wires and mark these on top of the joist for reference. Lay the plywood into position and pilot drill and countersink making sure you avoid any pipes and wires marked on the joists. Fix the plywood on top of the timber battens with a suitable wood screw at approximately 150mm intervals.



### Step 11

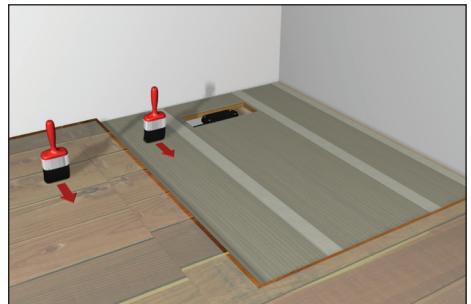
Lay the shower tray into the required position to check the fit of the shower drain base. Once you are happy with the fit, carefully remove the shower tray and store somewhere safe.



### Step 10

Before proceeding, check thoroughly for pipes and wires.

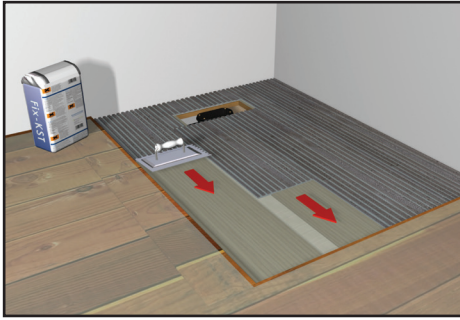
If you are left with a gap between the edge of the shower tray and the start of the original flooring, this should be filled with a piece of the flooring that you removed in step 4 and securely screwed down onto the new plywood.



### Step 12

Put on the protective gloves and wear eye and breathing protection.

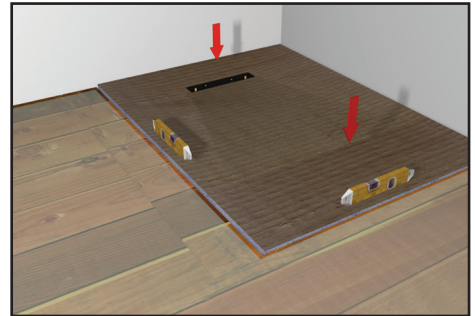
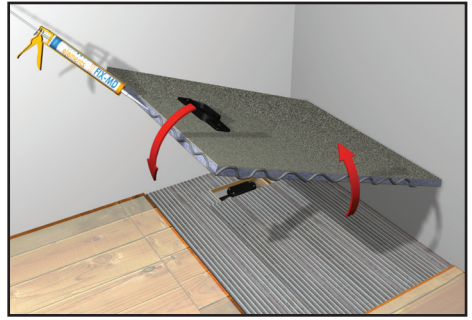
Paint the entire floor area including the new plywood with the wood floor primer. When you have finished you can remove the protective gloves and eye and breathing protection. Leave to dry for at least 2 hours.



### Step 13

Put on the protective gloves and wear eye and breathing protection.

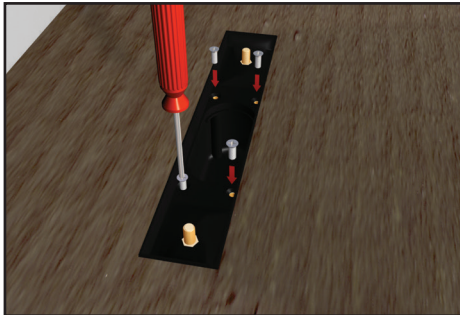
Mix some Fix-KST adhesive with water in a clean bucket in line with the directions stated on the bag. Where the shower tray will sit, spread the Fix-KST adhesive onto the floor and drag the notched adhesive trowel across the surface. The notched adhesive trowel will make a ribbed pattern which will leave just the right amount of adhesive on the floor.



### Step 14

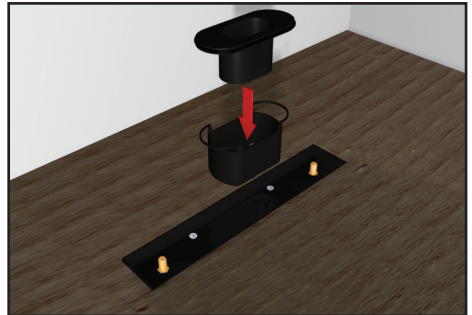
Squeeze the wavy line of FIX-MD adhesive across the edges that will meet a wall, then place the shower tray into position and bed down onto the adhesive. Check that the shower tray is level in both directions along the edge using a suitable level.

When sticking the tray down, it is a good practice to put some heavy weights (i.e. a bag of tile adhesive) on the tray whilst the adhesive cures. This ensures that the base sticks evenly to the floor.



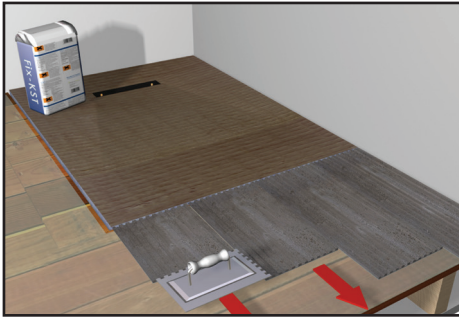
### Step 15

Line up the linear drain bowl with the drain top pre-fitted within the shower tray and connect the two together using the four bolts provided and a suitable cross headed screwdriver.



### Step 16

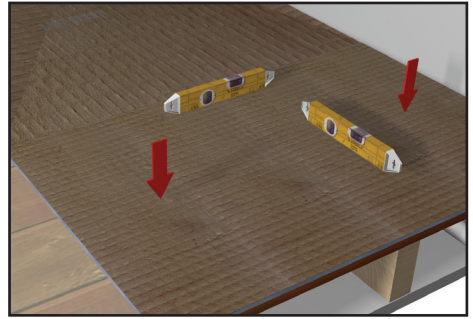
Ease the shower drain internal bowl into the shower drain base. Ease the shower drain internal dome into the shower drain base.



### Step 17

Where the first waterproof board will sit, spread the Fix-KST adhesive onto the floor and drag the notched adhesive trowel across the surface. The notched adhesive trowel will make a ribbed pattern which will leave just the right amount of adhesive on the floor.

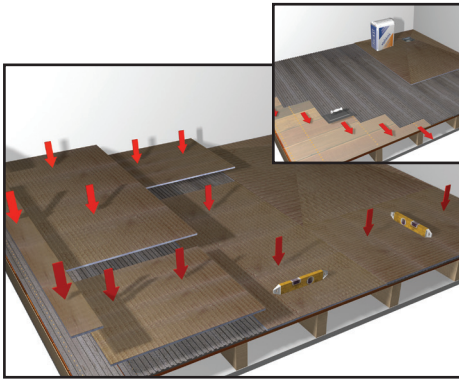
**Please leave the weights on the tray while its curing to maintain the contact with the adhesive.**



### Step 18

Place the first waterproof board into position and bed down onto the adhesive cement. Check that the waterproof board is level in both directions using a suitable level.

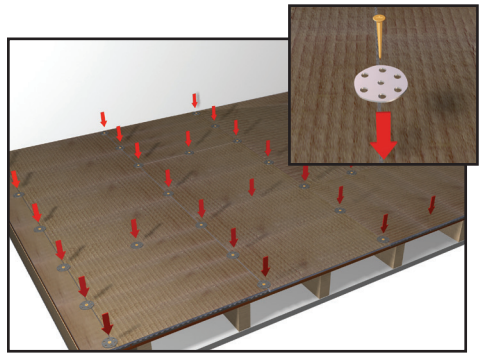
The floor is designed to be fitted flat and is fully waterproof however water will sit on a flat surface. If the floor immediately outside the showering area is likely to get wet, it is advisable to angle the first board slightly so that water will run back towards the drain.



### Step 19

Repeat steps 17 and 18 for the remaining waterproof boards, mixing the second bag of Fix-KST adhesive when required. When you have finished you can remove the protective gloves and eye and breathing protection.

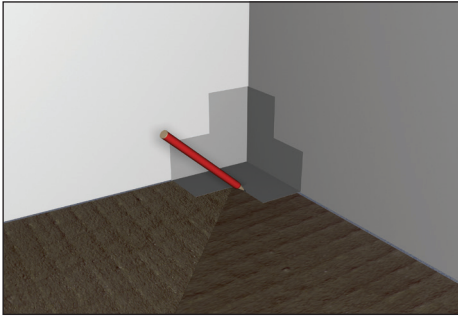
Leave to set for approximately 3 to 5 hours.



### Step 20

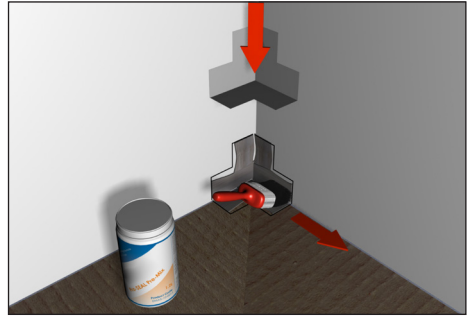
Before proceeding, check thoroughly for pipes and wires under the floor.

Along all joints fit the fixing plates at approximately 300mm to 400mm centres. Place the centre hole of the fixing plates directly over the joint line and screw to the floor with the fixing plate screws.



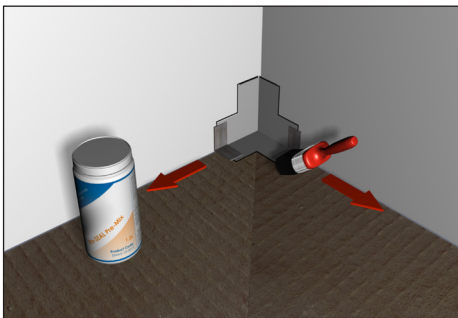
### Step 21

Temporarily place the waterproofing internal corners into position and mark around them with a pencil. Once you have marked they can be removed. This is to show where you need to apply the Pro-SEAL tape sealer.



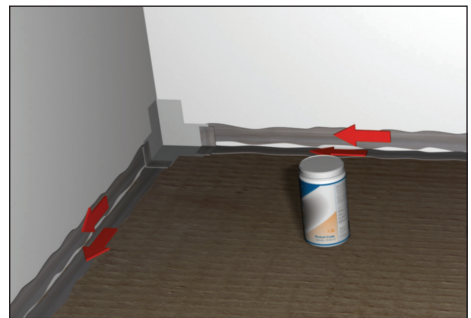
### Step 22

Put on the protective gloves and wear eye and breathing protection. Using the Pro-SEAL Pre-MIX tape sealer and paintbrush, apply a thin layer of Pro-SEAL tape sealer to the internal corners of the shower area, slightly bigger than the pencil line marked in step 21.



### Step 23

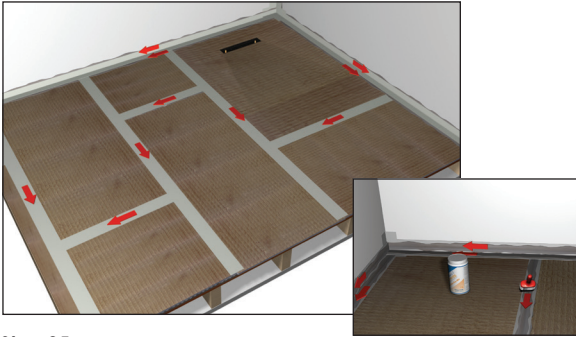
Place the waterproofing internal corners into the internal corners of the shower area and push firmly into the Pro-SEAL tape sealer. Apply a further thin layer of Pro-SEAL tape sealer over the edges of the waterproofing internal corners.



### Step 24

Apply a thin layer of Pro-SEAL tape sealer to the shower area and the adjoining wall approximately 60mm wide on both. Apply a thin layer of Pro-SEAL tape sealer approximately 120mm across any joints and over all fixing plates.





### Step 25

Run waterproofing tape around the edges of the room, folding half up the wall and half on the floor as you go. The waterproofing tape should be cut to length but overlap approximately 20mm onto the waterproofing internal corners. Press the waterproofing tape firmly into the Pro-SEAL tape sealer. Place the strips of waterproofing tape across all joints and fixing plates pressing firmly into the Pro-SEAL tape sealer. The waterproofing tape should be cut to length but overlap approximately 20mm on the edges. When you have finished you can remove the protective gloves and eye and breathing protection.

Leave to set for approximately 3 to 5 hours after which the floor is ready for tiling

Steps 26, 27, 28 & 29 are after the Important Tiling Advice.



## Important Tiling Advice

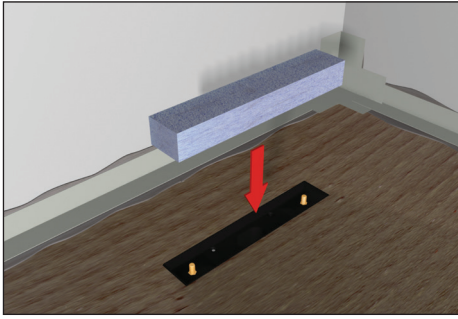
**IT IS ESSENTIAL THAT YOU DO NOT USE A READY MIXED TILE ADHESIVE.**

**S1 FLEXIBLE CEMENT BASED POWDERED ADHESIVE MUST BE USED WITH TILEABLE SHOWER TRAYS.**

The shower tray has slopes towards the drain pre-formed into the tray and these must be maintained when tiling as does the slope on the shower tray extension.

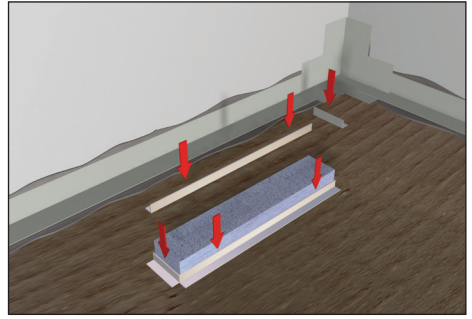
If you use tiles that are larger than 100mm it is necessary to cut the tiles along the same lines as are pre-formed into the shower tray to maintain the slope. For best results and ease of installation we would recommend mosaics or tiles of 50mm to 100mm.

Tileable shower trays are perfect for use with electrical under tile heating due to its excellent thermal properties. It is however essential that you check with the manufacturer that their product is entirely suitable for the area that you intend to install it in. If you are installing under tile heating it is essential that you consider any areas that will need products fixed to the floor for example shower screens. Avoid installing under tile heating directly below any fixing point to avoid the risk of damage to the heating mat.



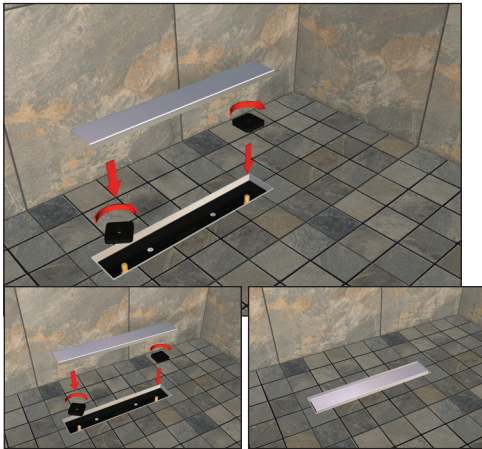
### Step 26

Place the disposable filing aid into the shower drain hole on the shower tray. The filing aid provides the edge that needs to be tiled up to whilst protecting the drain from debris.



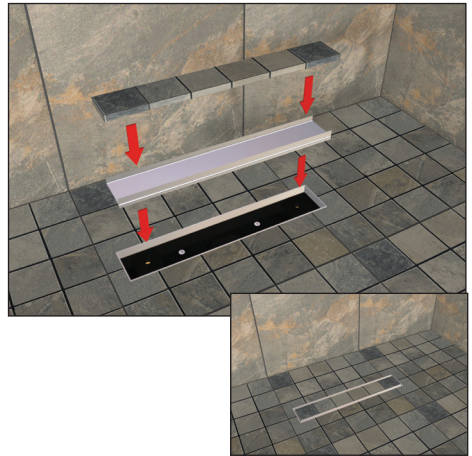
### Step 27

At this stage we recommend fitting tile trim to create a clean finished edge for the waste cover.



### Step 28

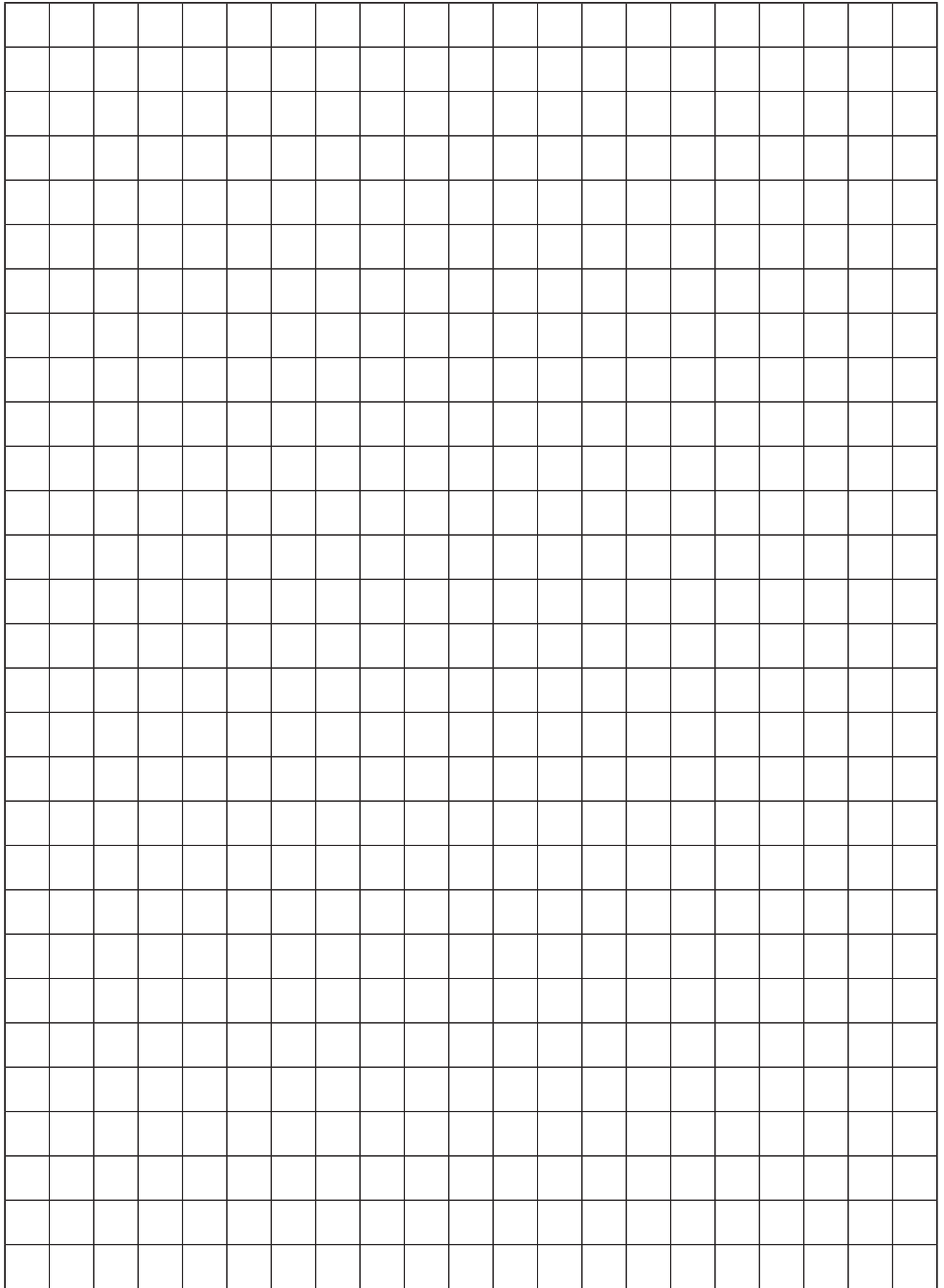
The linear drain is supplied with 2 No. square black plastic height adjustment nuts. Screw these on to the protruding bolts pre-fitted within the linear drain and adjust to suit your thickness of tile and adhesive. The drain should aim to be fitted flush with the finish tile.



### Step 29

Various options are available to accessorise the linear drain including a tileable drain cover option. These are installed in the same way as above; just adjust the black plastic height adjustment nuts to suit. Leave for at least 24 hours before using the shower.

Notes...



Watch “Installing a level access wetroom with a 300mm linear drain”  
Installation Video on Abacus Manufacturing Group channel on:



MADE IN THE UK