WARNING!

We recommend that this product is installed by a qualified tradesperson and we accept no liability for products fitted incorrectly, and where the correct testing procedures have not been used, resulting in the escape of water.

www.victorianplumbing.co.uk

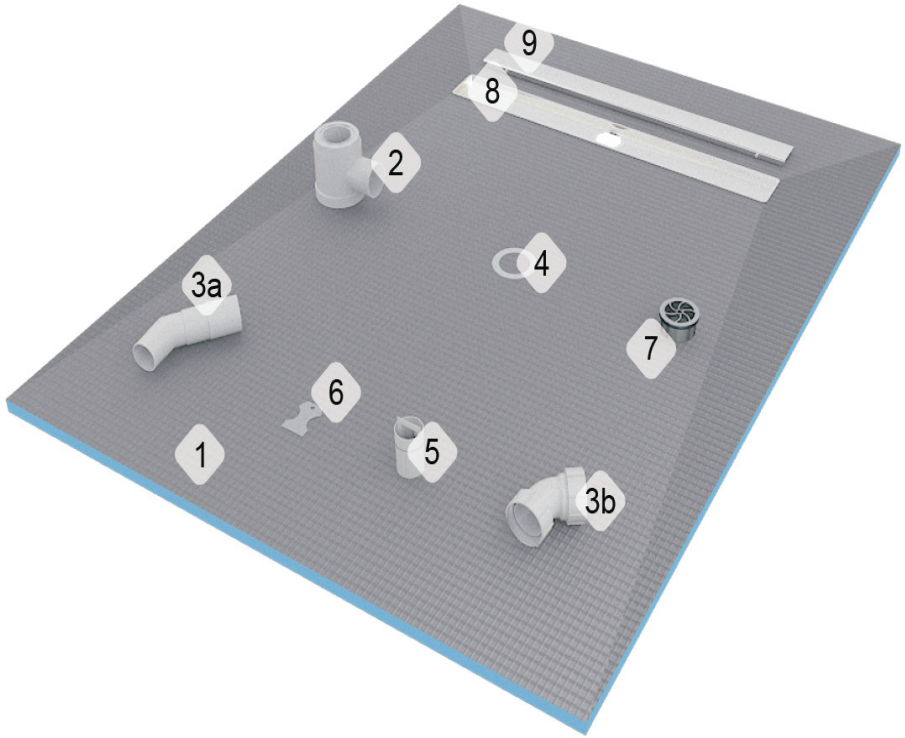
victorian plumbing.co.uk

Orion Linear Wetroom Shower Tray Former With End Waste Drain Gully Attached (ORILNR Series)

INSTALLATION INSTRUCTIONS

V1.08.23

Please follow these care instructions to ensure your product retains it's high quality finish and please retain this leaflet for future reference.



1. Linear Shower Tray
2. Drain Body
3a. /3b. 40mm/50mm Connection pipe
4. O Ring
5. Drain basket
6. Key]
7. Connection
8. Stainless Steel Support 600/700/900mm length
9. Stainless Steel Grate 600/700/900mm length

Tools Required (Not Supplied)

- Tools required (not supplied)
- Paint Brush (Wood Floors Only)
- Notched Adhesive Trowel
- Tape Measure
- Pencil
- Straight Edge
- Hard Point Saw
- Junior Hacksaw
- Protective Gloves
- Eye Protection
- Breathing Protection
- Bucket
- Level
- Solvent Weld Adhesive
- Sealant Gun
- Measuring Jug

Prior To Installation

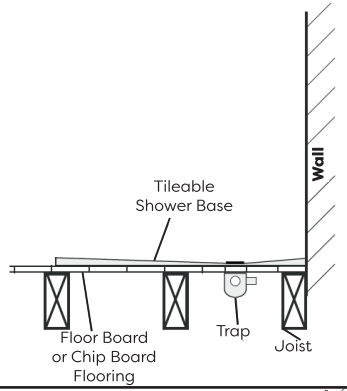
The tray can be installed in 3 different variations:

A. Surface Installation - 30mm height (Timber Floor)
B. Level Access Installation (Timber Floor)
C. Raised Surface Installation (Timber or Concrete Floor)

Please select the desired tray installation from the below images and follow the instructions in either section A, section B, section C.

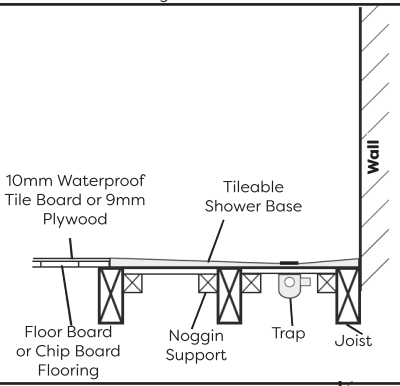
A — Surface Installation 30 mm height (Timber Floor)

30mm high tiled shower base installed onto an existing timber or concrete substrate.



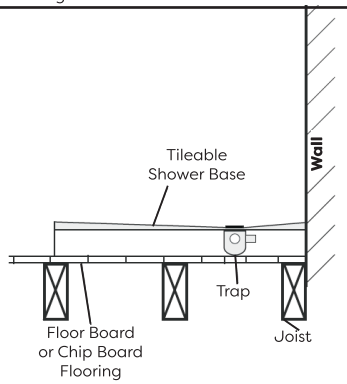
B — Level Access Installation (Timber Floor)

Level access wetroom tiled shower tray built into existing flooring.



C — Raised Surface Installation (Timber or Concrete Floor)

Installation using a 90mm substrate element (to be purchased seperately)

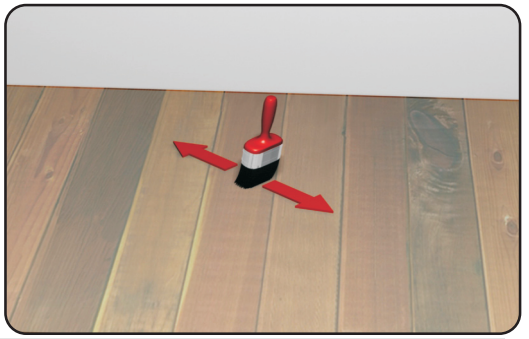


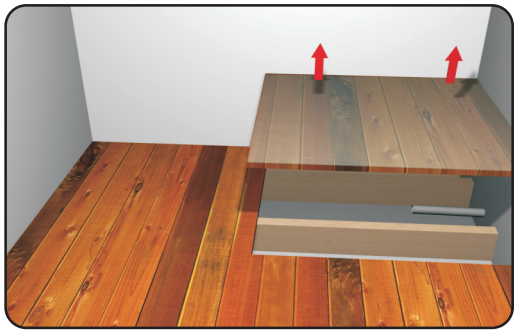
Installation A - Surface Installation 30mm height (Timber Floor)

Step 1
(*wood floors only*)
If you are installing onto a wooden floor, make sure that the existing floor boards or sheets are fully secured down and as level and flat as possible. Paint the floor area where the shower will sit with wood floor primer.

PVA MUST NOT BE USED IN PLACE OF THE WOOD FLOOR PRIMER.

Leave to dry for at least 2 hours.



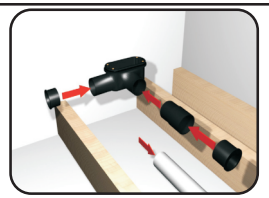


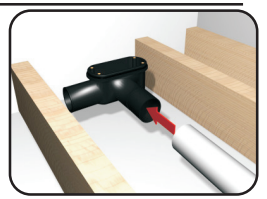
Step 2

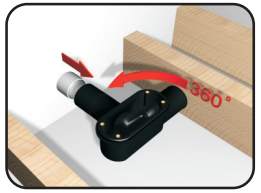
Remove flooring as necessary to carry out works to the wastepipe. Please note that if there is a joist in the way of the Shower Tray you will need to consult a professional joiner or structural engineer for advice.

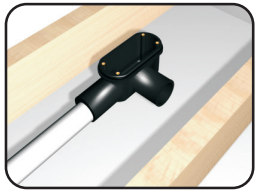
Step 3
Note: All solvent joints should be cleaned with an appropriate solvent weld cleaner prior to using solvent adhesive.

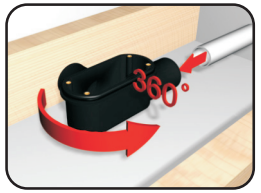
The waste has two outlets for multi direction waste flow. The outlet running at a ninety degree angle from the waste has a zero degree fall; this is to facilitate the fitting of the vertical waste elbow. If you plan to run the waste horizontally from this outlet you MUST fit the angled coupler supplied 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.

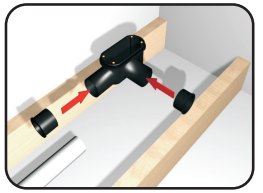








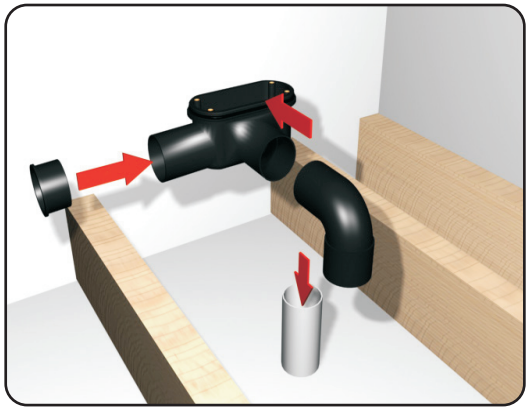


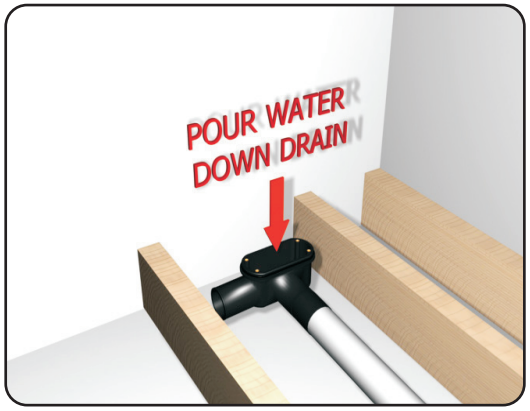


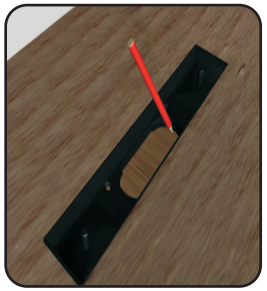
IMPORTANT: As the drain has two outlets, it is important that the outlet not being used is capped off using the stop end supplied. Spread solvent weld adhesive around the outside of the stop end and push into the linear drain outlet with a twisting action.

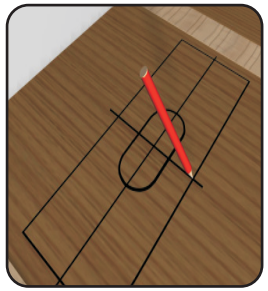
The linear drain is also supplied with a 2" to 1 ½" reducer for instances where you need to reduce to 1 ½" waste pipe. Spread solvent weld adhesive around the outside of the reducer and push into the remaining linear drain outlet with a twisting action. If you have 2" waste pipe this part can be discarded 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.

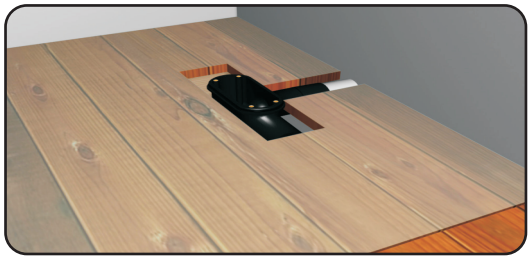
Note: The typical linear drain flow rate figure (42L/min) is based on using 2" waste pipe; by reducing the waste pipe diameter this will have an adverse affect on the flow rate achieved. For water to drain away properly, the waste pipe must have a fall of 3cm per metre.









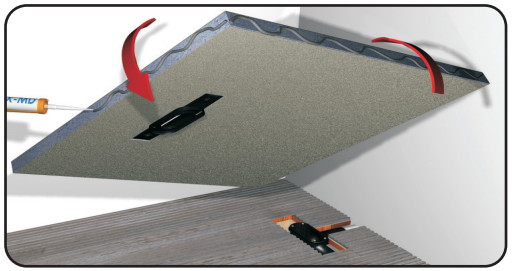


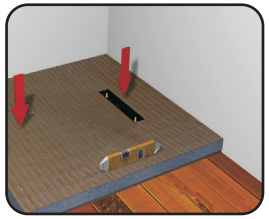
Step 4

Measure the shower drain base position on the floor and mark this onto the relevant flooring. 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.
The size of the cut-out needs to be 615mm x 90mm. Make sure that the drain's centre is in the middle of the cut-out. 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.

Step 5

Put on the protective gloves and wear eye andbreathing protection.
Mix a bag of adhesive with water, to the directions on the back of the bag, in a clean bucket which will give the adhesive a stiff consistency. Spread the adhesive onto the floor of the shower position 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.



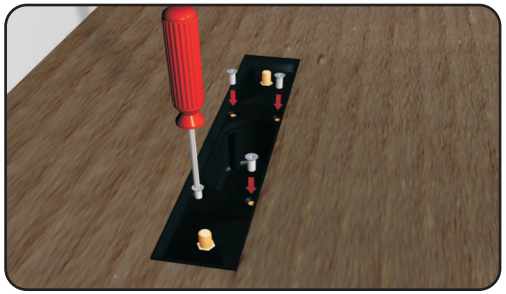


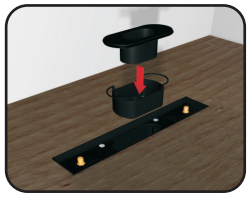
Step 6

Apply a wavy line of adhesive across the edge of the shower tray base. Place the shower tray into position and bed down onto the adhesive cement. Check that the shower tray is level in both directions using a suitable level.

Step 7

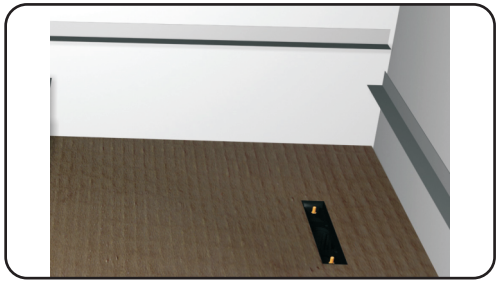
Line up the linear drain bowl with the drain top pre-fitted within the shower tray and connect the two together using the four bolts provided and a suitable cross headed screwdriver. Ease the shower drain internal bowl into place then ease in the drain top as shown applying a little gentle pressure so that it seats correctly.

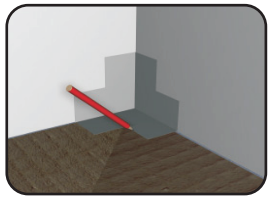


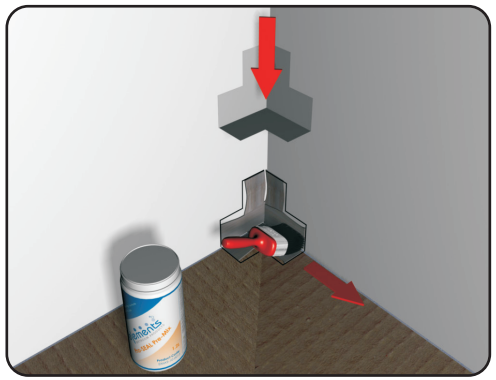


Step 8

From a roll of waterproofing tape cut to suit the width of the shower tray and the length of the shower tray.





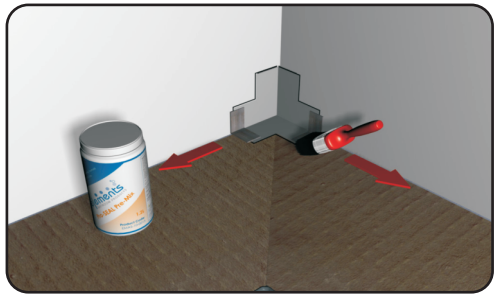


Step 9

Temporarily place a waterproofing internal corner into position and mark around it with a pencil. Once marked it can be removed. This is to show where you need to apply tape sealer. Repeat for any other corners. Put on the protective gloves and wear eye and breathing protection. Using tape sealer and a paintbrush, apply a thin layer of tape sealer to the internal corners of the shower tray, slightly bigger than the pencil line marked earlier.

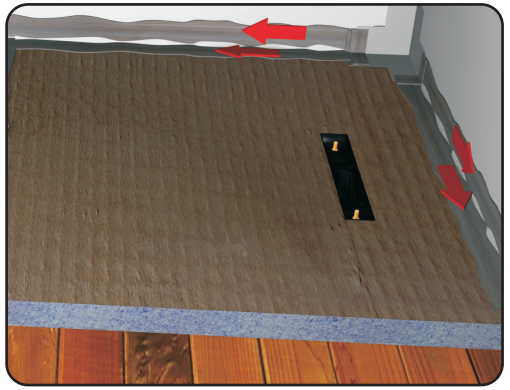
Step 10

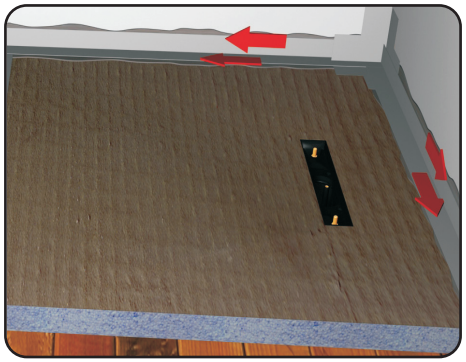
Place the waterproofing internal corners into the internal corners of the shower tray and push firmly into the tape sealer. Apply a further thin layer of tape sealer over the edges of the waterproofing internal
corners.



Step 11

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





Step 12

Place the strips of waterproofing tape previouslycut in step 8 along the edges of the shower tray,
folding half up the wall and half on the shower tray as you go. Press firmly into the Pro-SEAL tape sealer and the tape should also overlap the waterproofing
internal corners. When you have finished you can remove the protective gloves and eye and breathing protection.

Step 13

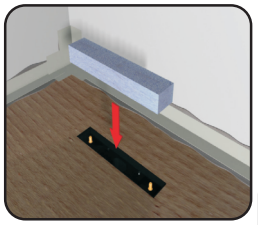
IMPORTANT! Apply a further thin layer of Pro-SEAL Tape Sealer over the tape & corners to fully impregnate the tape.

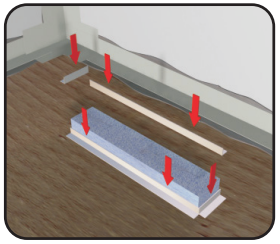
Step 14

Leave to set for approximately 12 hours after which the tray is ready for tiling.

Step 15

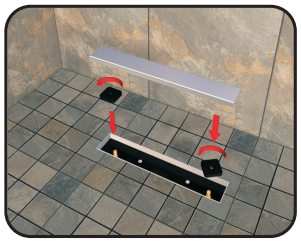
Place the disposable tiling aid into the shower drain hole on the shower tray. The tiling aid provides the edge that needs to be tiled up to whilst protecting the drain from debris. At this stage we recomend fitting tile trim to create a clean finished edge for the waste cover.

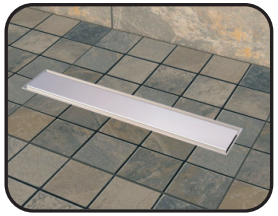


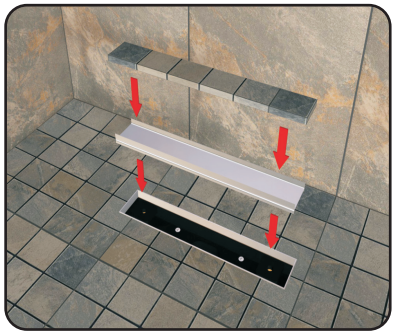


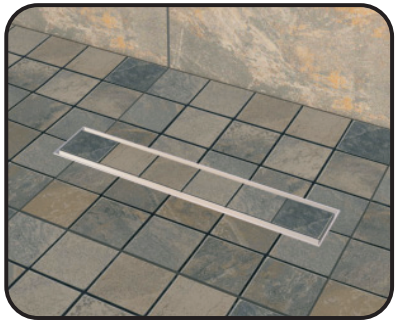
Step 16

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.









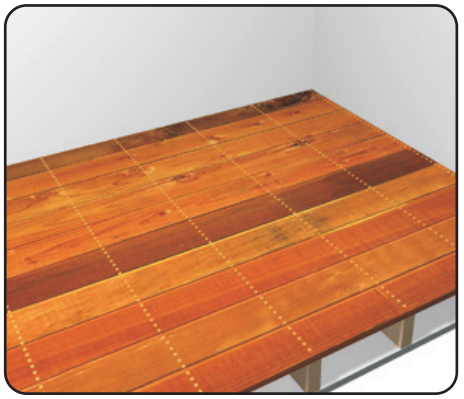
Step 17 (Optional)

Various options are available to accessorise the linear drain including a tileable drain cover option and several finishes of toughened glass drain cover to give a more bespoke finish to your shower room. 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.

Installation B - Level Access Installation (Timber Floor)

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 hard 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

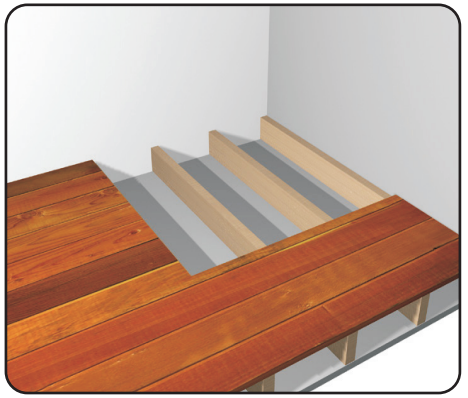
From the nails or screws holding the existing flooring down, establish where the joists are. Where the edge of the shower tray runs across the joists, the floor cut line will be as marked in step 2. Where the edge of the shower tray runs in the same direction as the joists, mark the centre line of the 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

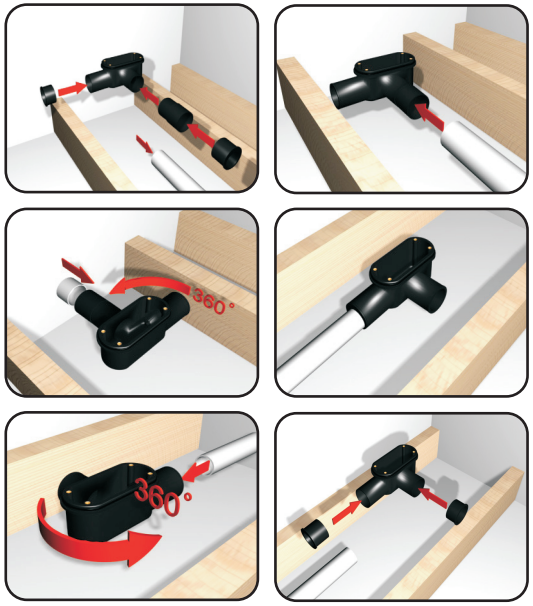
Make sure that the remaining floor boards or sheets in the rest of the room are fully secured down and as level and flat as possible.



Step 6

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

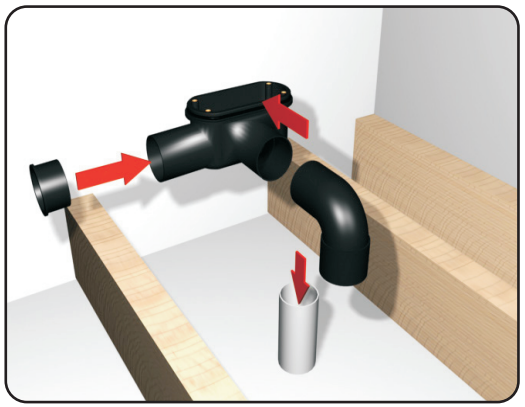
The waste has two outlets for multi direction waste flow. The outlet running at a ninety degree angle from the waste has a zero degree fall; this is to facilitate the fitting of the vertical waste elbow. If you plan to run the waste horizontally from this outlet you MUST fit the angled coupler supplied 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.

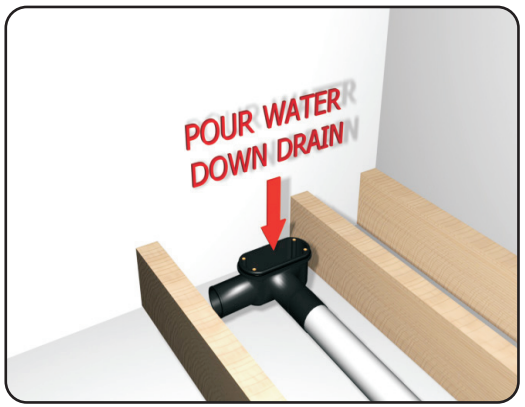


IMPORTANT: As the drain has two outlets, it is important that the outlet not being used is capped off using the stop end supplied. Spread solvent weld adhesive around the outside of the stop end and push into the linear drain outlet with a twisting action.

The linear drain is also supplied with a 2" to 1 ½" reducer for instances where you need to reduce to 1 ½" 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.



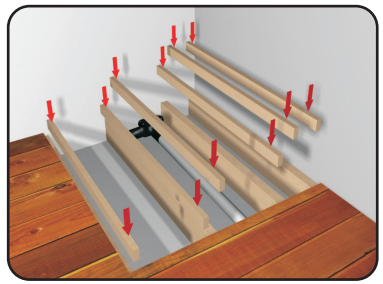


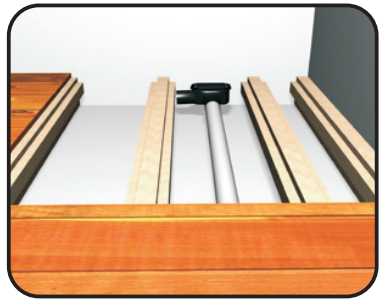
Step 7

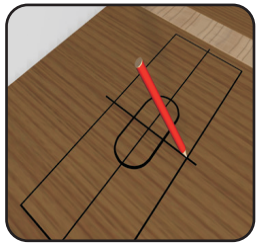
All exposed joists will now need a noggin or batten running along the inside of the joist to accommodate the new plywood low level floor. Measure the length of the exposed joist taking into account any obstructions. Cut some timber batten to length and screw at approximately 150mm intervals to the inside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

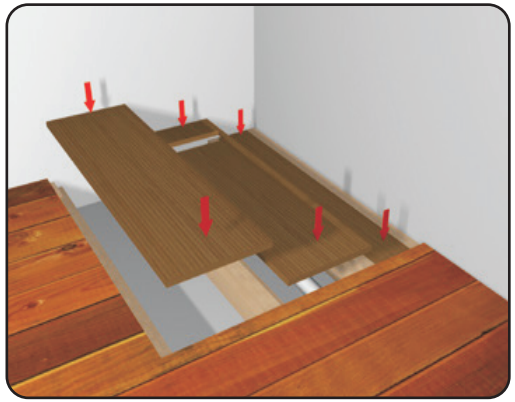
Step 8

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







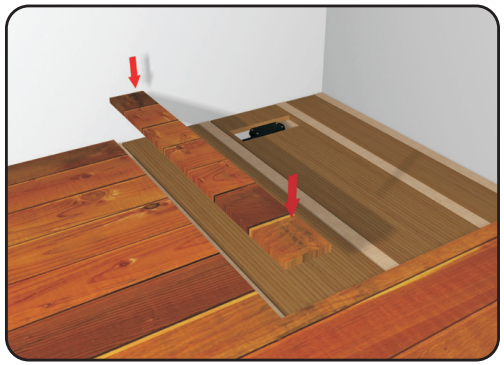


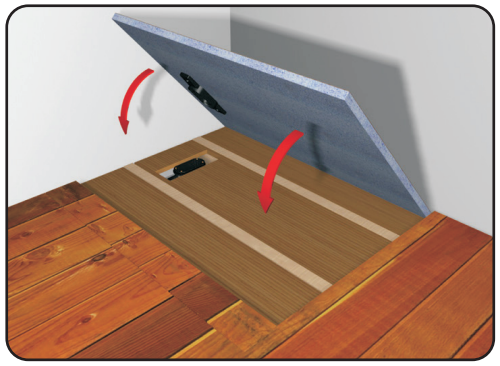
Step 9

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. 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. The size of the cut-out needs to be 615mm x 90mm. Make sure that the drain's centre is in the middle of the cut-out. 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 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.



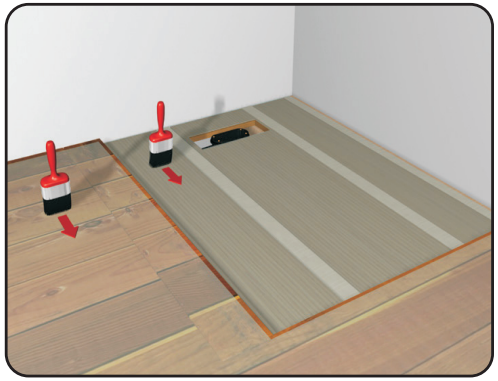


Step 11

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.

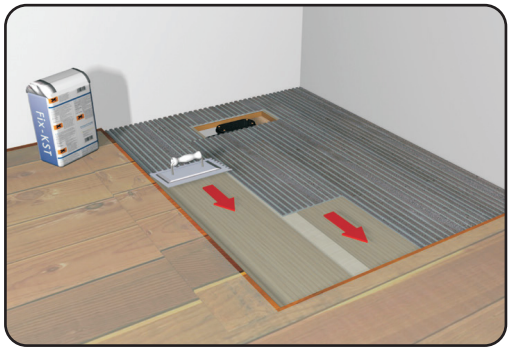
Step 12

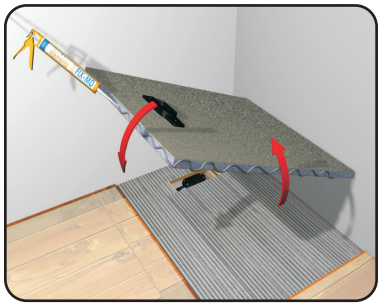
Put on the protective gloves and wear eye and breathing protection. Paint the entire floor area including the new plywood with the wood floor primer. When you have finished you can remove the protective gloves and eye and breathing protection. Leave to dry for at least 2 hours.

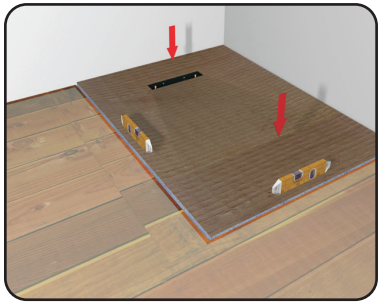


Step 13

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





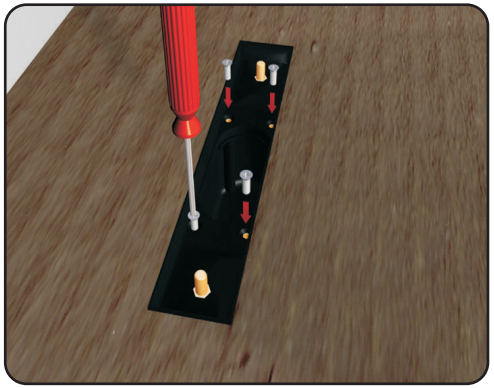


Step 14

Squeeze the wavy line of 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.

Step 15

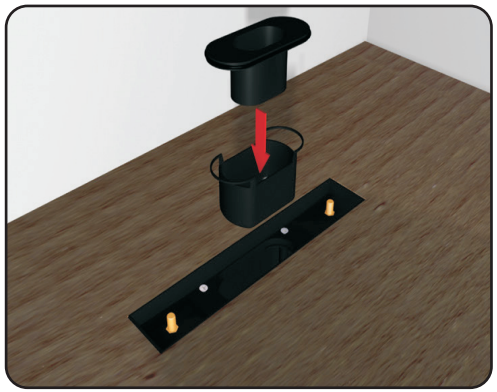
Line up the linear drain bowl with the drain top
pre-fitted within the shower tray and connect the two together using the four bolts provided and a suitable cross headed screwdriver.

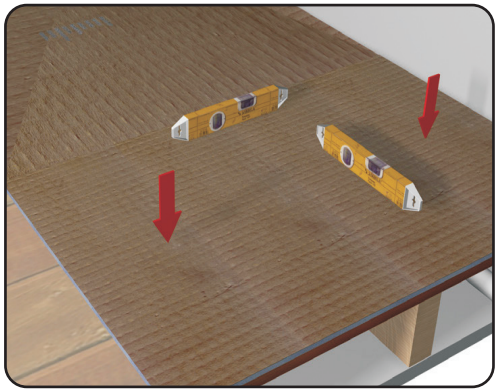


Step 16

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

NOTE:
THE REMAINING FLOOR MUST NOW BE COVERED IN EITHER 10MM WATERPROOF TILE BOARD OR 9MM PLYWOOD.



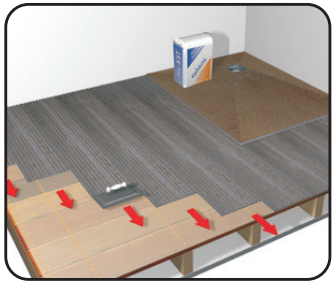


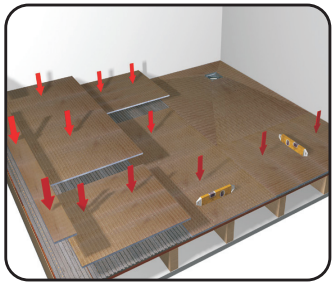
Step 17

Place the first board into position an secure. 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 18

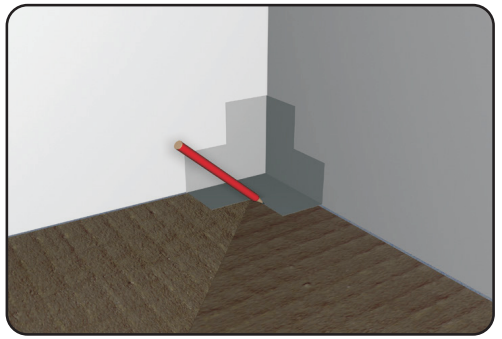
Repeat steps 17 and 18 for the remaining boards. Leave to set for approximately 3 to 5 hours.

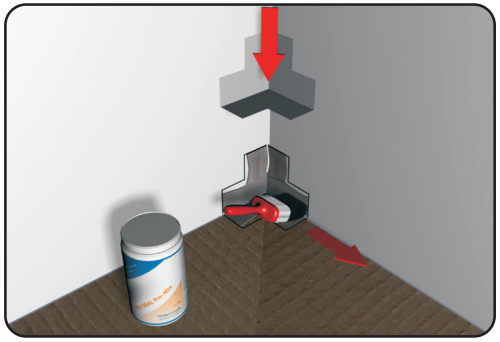




Step 19

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 screw-driver.



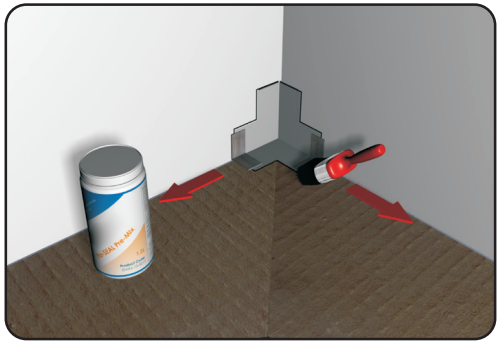


Step 20

Put on the protective gloves and wear eye protection. Using the tape sealer and paint-brush, apply a thin layer of tape sealer to the internal corners of the shower area, slightly bigger than the pencil line marked in step 19.

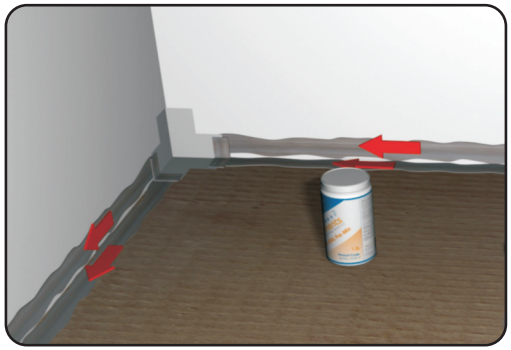
Step 21

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

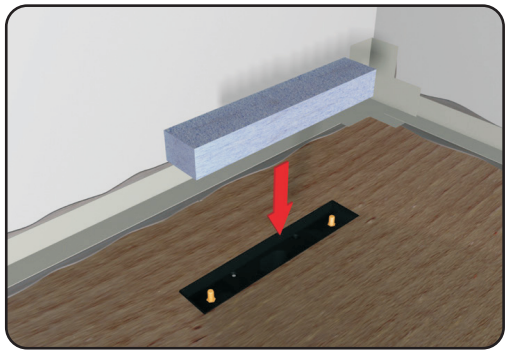


Step 22

Put on the protective gloves and wear eye protection. Using the tape sealer and paint-brush, apply a thin layer of tape sealer to the internal corners of the shower area, slightly bigger than the pencil line marked in step 19.



NOTE:
The rest of the room must now be waterproofed prior to tiling using either a waterproof membrane or waterproof tape on all joints. Leave to set for approximately 3 to 5 hours after which the floor is ready for tiling

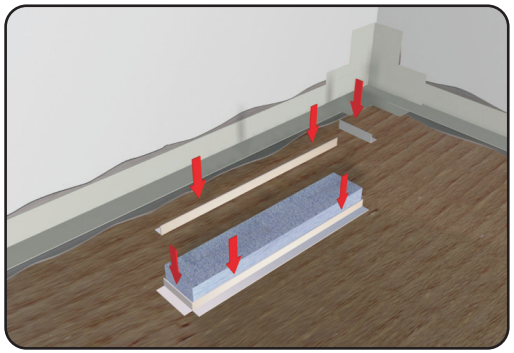


Step 23

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

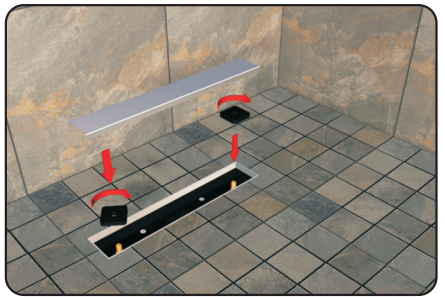
Step 24

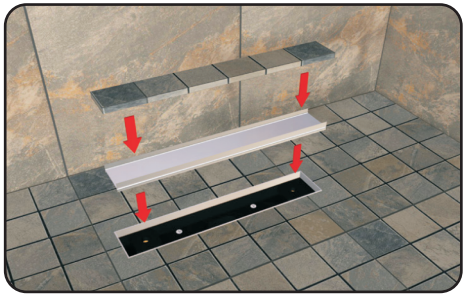
At this stage we recommend fitting tile trim to create a clean finished edge for the waste cover.



Step 25

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 26 (Optional Extra)

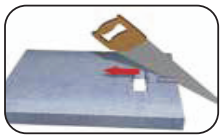
Various options are available to accessorise the linear drain including a tileable drain cover option and several finishes of toughened glass drain cover to give a more bespoke finish to your shower room. These are installed in the same way as above; just adjust the black plas-tic
height adjustment nuts to suit.
Leave for at least 24 hours before using the shower.

Installation B - Fitting A Shower Tray & Substrate Element

Step 1.
(wood floors only)
If you are installing onto a wooden floor, make sure that the existing floor boards or sheets are fully secured down and as level and flat as possible. Paint the floor area where the shower will sit with the wood floor primer.

PVA MUST NOT BE USED IN PLACE OF THE WOOD FLOOR PRIMER.

Leave to dry for at least 2 hours



Step 2

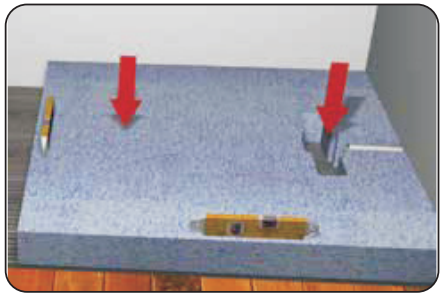
The linear drain has two outlets to allow multi directional waste flow. First decide in which direction the waste pipe work needs to follow then cut a channel out of the substrate as applicable carefully with a hard point saw. Put on the protective gloves and wear eye and breathing protection.

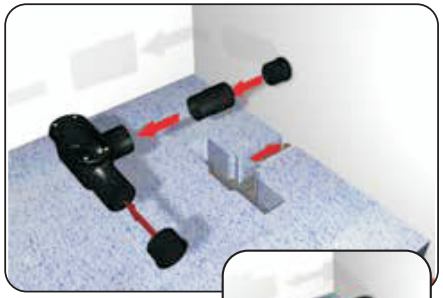
Step 3

Mix a bag of adhesive with water in a clean bucket in line with the directions stated on the bag. Spread the adhesive onto the floor of the shower position 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 4

Place the shower tray base into position and bed down onto the adhesive cement. Check that the shower tray base is level in both directions using a suitable level.



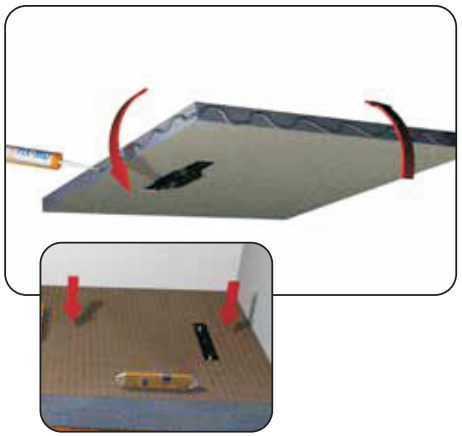


Step 5

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 ½" reducer for instances where you need to reduce to 1 ½" 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 6

Spread adhesive across the surface of the Substrate Element using a notched adhesivetrowel to leave just the right amount of adhesiveon the shower base. Apply a wavy line of adhesive across the edges of the shower tray base. Lower the shower tray onto the shower tray base and push firmly into position. Check with a level that the edges of the shower tray are level in both directions.

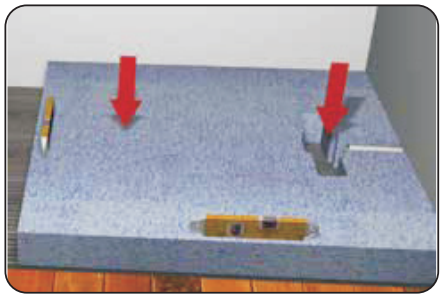


Step 7

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. Ease the shower drain internal bowl into place then ease in the drain top as shown applying a little gentle pressure so that it seats correctly.

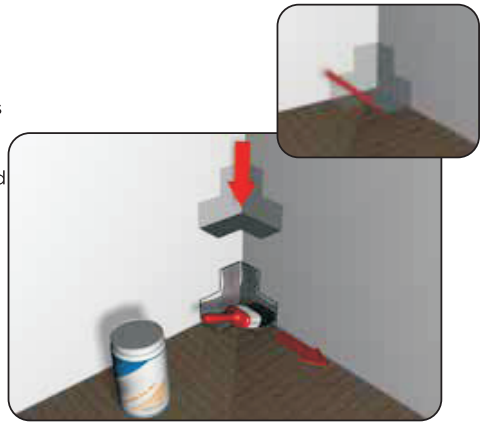
Step 8

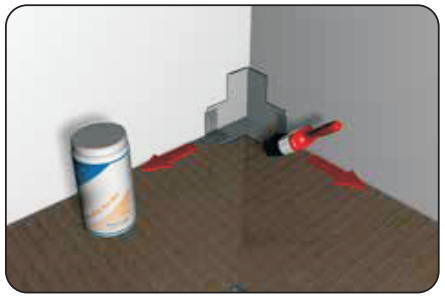
From a roll of waterproofing tape cut to suit the width of the shower tray and the length of the shower tray.



Step 9

Temporarily place a waterproofing internal corner into position and mark around it with a pencil. Once marked it can be removed. This is to show where you need to apply tape sealer. Repeat for any other corners.
Put on the protective gloves and wear eye and breathing protection. Using tape sealer and a paintbrush, apply a thin layer of tape
sealer to the internal corners of the shower tray, slightly bigger than the pencil line marked earlier.



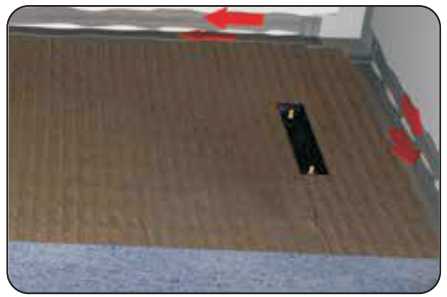


Step 10

Place the waterproofing internal corners into the internal corners of the shower tray 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 11

Where the shower tray meets the wall apply a thin layer of Pro-SEAL tape sealer to the shower tray and the adjoining wall approximately 60mm wide on both.



Step 12

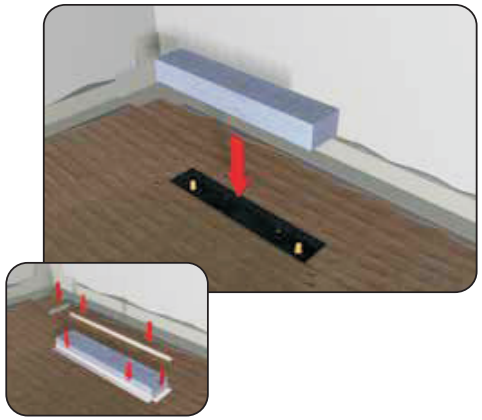
Place the strips of waterproofing tape previously
cut in step 8 along the edges of the shower area, folding half up the wall and half on the shower tray as you go. Press firmly into the Pro-SEAL tape sealer and the tape should also overlap the waterproofing internal corners. When you have finished you can remove the protective gloves and eye and breathing protection.

Step 13

IMPORTANT! Apply a further thin layer of Pro-SEAL Tape Sealer over the tape & corners to fully impregnate the tape.

Step 14

Leave to set for approximately 12 hours after which the tray is ready for tiling.
Steps 15, 16, 17 & 18 are after the Important Tiling Advice.

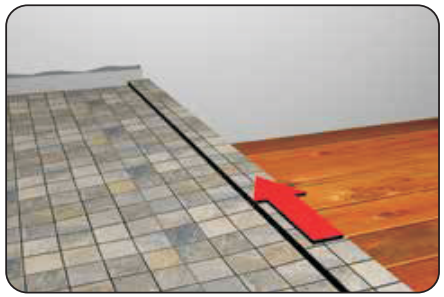


Step 15

Place the disposable tiling aid into the shower drain hole on the shower tray. The tiling aid provides the edge that needs to be tiled up to whilst protecting the drain from debris. At this stage we recommend fitting tile trim to create a clean finished edge for the waste cover.

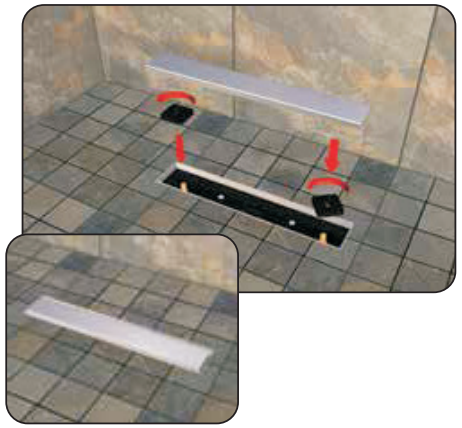
Step 16

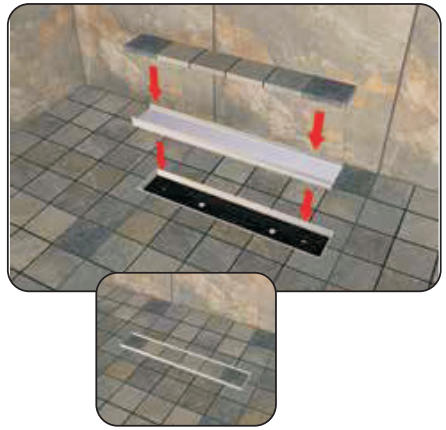
After tiling the base of the shower area, we recommend that you add a further narrow border of tiles approximately 30mm to 40mm wide, along the top of the outside edge to act as a water retainer, stopping water running out of the shower area. The tiling aid can now be removed and disposed of.



Step 17

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 18

Various options are available to accessorise the linear drain including a tileable drain cover option and several finishes of toughened glass drain cover to give a more bespoke finish to your shower room. 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.