

ON FLOOR FIT



FLUSH FIT



WET ROOM



CONTENTS

* Important Information - See Below - Please Read First Prior To Installation

	STEPS
On Floor Fit	1 - 6
Flush Fit	7 - 10
Off The Floor Plinth	11
Wet Room	12
Doors/Screens And Shower Heads	13

IMPORTANT INFORMATION - PLEASE READ FIRST PRIOR TO ANY INSTALLATION

This shower tray incorporates advanced technology and has been designed to be plumbed with the waste outlet as per Figure 1.

It **MUST NOT** be fitted as per Figure 2 as this will result in **SERIOUS** water flow issues and possible damage to the tray.

For further details see enclosed 'Linear waste fitting and plumbing guide'.

Figure 1

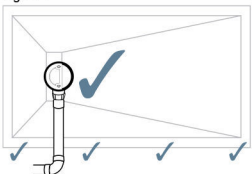
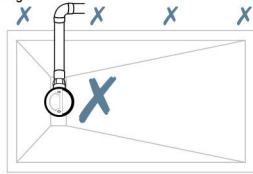


Figure 2



1 - ON FLOOR FIT - STEPS 1-6

1 Take care to avoid chipping on bottom edges/corners when moving the tray into position.

Before moving tray, carefully remove the stainless steel waste cover and place on a flat surface and in a safe place. Note: Care must be taken when handling the waste grid. It is very strong when in position but is not designed to be unsupported.

Place the tray in position, mark the floor by drawing around the tray. Also draw around waste aperture.

Move the tray to a safe location to prevent accidental damage.

Note: It is essential to read the enclosed 'Linear waste fitting and plumbing guide' before any further action is taken.

2 It is recommended that a professional plumber completes the plumbing installation.

- Overlay the semi circle template on the drawn semi circle on the floor. Align into the correct position.
- Mark the centre cross point on the floor. This will represent the centre point of the waste unit.
- Extend line (A) on template onto floor for approximately 50cm. This line will provide a guide for the centre point of the waste outlet pipe.
- Draw around the outer edge of the template (B).
- Chase out the concrete floor and ensure that hole is kept to a minimum.

Plumb the waste and the trap accordingly, see 'Linear waste fitting and plumbing guide'.

3 Make sure the waste is protected by a cloth (or similar) to ensure no mortar falls into the waste trap.

Once the waste and outlet pipe are fitted, place the tray in position and ensure correct alignment.

Mix sand and cement (5/1 ratio) and fill the entire hole leaving the waste in its correct location.

4 Prior to mixing sand and cement, sweep clean the area. Ensure no gaps between floor boards. All gaps should be sealed with joint tape or similar.

Mix sand and cement (5/1 ratio) adding anti-cracking agent, such as 'Fibrotex' and spread to fill entire marked area with approximately 10-15mm mortar screed.

Ensure that the whole area under the tray is fully covered by the mortar screed. Any unsupported area could lead to cracking.

5 Ensure to level the tray on all outer edges.

Apply a bead of silicone along the centre of each edge of the tray to be fitted against the wall(s).

Lay the tray in position, push against the wall and bed down into the mortar screed. Ensure all of the base is supported by the cement. Level the tray from each edge.

Leave for 24 hours prior to next step.

24 HOURS DRYING TIME

6 It is recommended that a professional plumber completes the plumbing installation (see 6) - refer to 'Linear waste fitting and plumbing guide' provided. Do not use lighter waste flange. This will lead to damage of the flange unit and/or the shower tray (see 9).

The walls down to the tray, leaving a 5mm gap between the tray and tile (see 6ii).

Apply a bead of mould resistant silicone around the floor and tray and along the back edge of the tray up to the bottom of the last tile (see 6ii).

Finally, fit your chosen flooring (as appropriate) and apply a bead of mould resistant silicone between the shower tray and your chosen floor (see 9 for guidance).

7 - FLUSH FIT - STEPS 7-10

7 Fix down marine ply ensuring it is the appropriate thickness so the tiling fits flush with the edge of the tray.

Apply silicone between the marine ply and tray, also approximately 6" along any joint that meets the tray edge(s).

8 Finish tiling ensuring a flush finish with the shower tray. Ensure that waterproof adhesive and grouting are used. Do not grout between the shower tray and adjacent tiles.

9 Ensure all edges are silicone'd properly.

Apply a bead of mould resistant silicone between the shower tray and adjacent tiles.

10 Waste cover can be removed to allow access to the waste trap. Take care when handling the grid. It is not designed to be unsupported and is fragile out of position.

Place the waste cover into the tray (do not use any adhesives).

Fit shower door/screen and shower head as per diagram 13.

11 - OFF THE FLOOR PLINTH

For more problematic plumbing situations, a comprehensive 'Fitting Kit' is available. This raises the tray off of the floor to provide a simpler plumbing solution. For further details, see your retailer or installer.

12 - WET ROOM APPLICATION

Instructions 1-11 cover all showering applications which include a shower door or screen.

If your tray has been purchased to be fitted as part of a wet room area with no surrounding glass, the following instructions apply:

Fit your tray in accordance with the 'On Floor Fit' instructions (above steps 1-10) and in conjunction, incorporate a proprietary wet room tanking system. See your retailer/installer for full details.

13 - DOORS/SCREENS AND SHOWER HEADS

Always fit a door or screen unless fitting as part of a wet room - See Fig 1 and refer to section 12 (above)

Never fit a shower head at the open or door end of an enclosure - See Fig(s) 2/4/6/7/8

Never fit a front screen only - See Fig 3

If fitting a side screen or the tray is adjacent to a wall, ensure that front screen is at least approximately 2/3 the length of tray - See Fig 4 or 8

Always fit a front screen unless fitting as part of a wet room - See Fig 5

Always fit full enclosures to 900/900 square and 900 quadrant traps - See Fig 4/8

Always fit the shower head INSIDE the half of the tray nearest the waste outlet - See Fig(s) 2/4/6/7/8

Wall Shower Head Shower Door/Screen

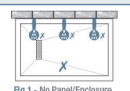


Fig 1 - No Panels/Enclosure

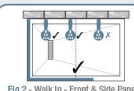


Fig 2 - Walk-in - Front & Side Panel

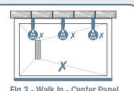


Fig 3 - Walk-in - Center Panel

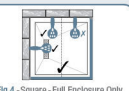


Fig 4 - Square - Full Enclosure Only

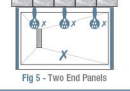


Fig 5 - Two End Panels

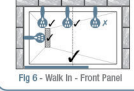


Fig 6 - Walk-in - Front Panel

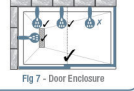


Fig 7 - Door Enclosure

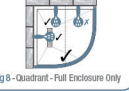
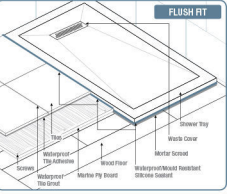
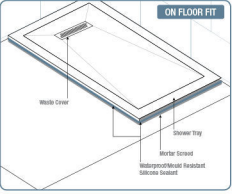


Fig 8 - Quadrant - Full Enclosure Only

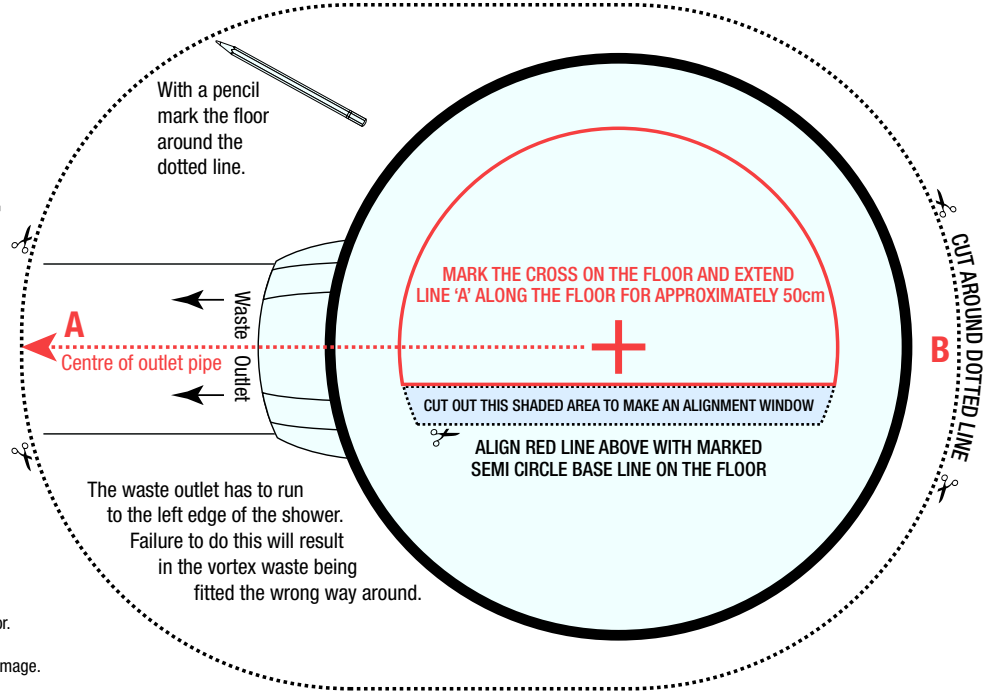
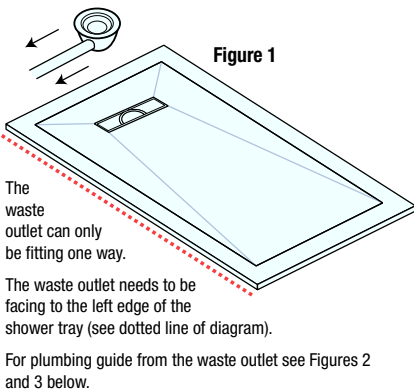
USEFUL INFORMATION

- Check the product thoroughly prior to fitting. Unfortunately no claims for imperfections can be made once the tray has been installed.
- The tray must be fitted STRICTLY in accordance with the installation instructions. Failure to fit and maintain the product as per the instructions will invalidate the guarantee and possibly lead to long term damage.
- The use of any materials other than those specified in the fitting instructions could result in the shower tray to fail, invalidating the guarantee.
- Fit ONLY the waste unit supplied. Fitting any other waste unit WILL lead to a reduction in water flow.
- This shower tray and waste unit combine to achieve European EN1274 approval for water drainage. They are designed to provide a water flow of over 20 litres per minute. Failure to fit the waste unit provided exactly in accordance with the fitting instructions (see enclosed within the 'Information Pack') WILL reduce water flow and create drainage problems.
- For cleaning information refer to the 'Cleaning and Maintenance' section of the accompanying 'Information Pack'.
- There should be no movement in any wooden surface supporting the tray (see section 2 - 'Shower floor installation'). Any movement should be prevented by adding noggin between floor joists where necessary. Any movement beneath the tray will eventually lead to cracking and will invalidate the guarantee.
- If this product has been fitted as part of a wet room, see 12. If it has been fitted as part of an enclosure, see 12 for help with the location of the shower head and glass screen(s). This will help prevent unwanted wet areas in your bathroom.
- Do not allow any items such as towels, sponges etc., to obstruct the waste cover during showering, this could lead to overflowing.



LINEAR WASTE FITTING AND PLUMBING GUIDE

IMPORTANT NOTICE: Fit the waste unit exactly to the illustration below (see Figure 1). Failure to do so will result in the vortex outlet being fitted the wrong way round and water flow will be substantially restricted. The waste outlet must run to the left edge of the shower tray - See below.



PLUMBING GUIDE

Please read the 'Template Instructions' and the 'Important Information' below.

TEMPLATE INSTRUCTIONS

- Place the shower tray in the required position on the floor.
- Draw a line around the entire waste outlet with a pencil.
- Move the tray to a safe location to prevent accidental damage.
- Cut out the template (above right).
- Overlay the semi circle template on the drawn semi circle on the floor. Align into correct position.
- Mark the centre cross point on the floor. This will represent the centre point of the waste unit.
- With a pen or pencil, Extend line A (marked on template) onto floor for approximately 50cm. This will provide a guide for the centre point of the waste outlet pipe.
- With a pen or pencil draw around the outer edge of the template B.
- Remove the template and cut out the floor board. Ensure that the hole is not cut oversized.
- Lift floor boards and fit plumbing to the waste trap position. **NOTE:** there is a safe error margin of 15 degrees when plumbing to the waste outlet.
- If bends are required along the outlet piping, please ensure that curved connectors. (see **Figure 2**) and **NOT** straight angles (see **Figure 3**) as these will restrict the water flow.

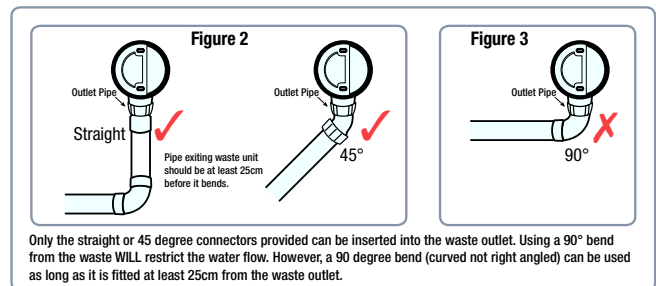
IMPORTANT INFORMATION

General

Use the template guide **ONLY** to cut out the waste area. This will ensure minimum stress to the shower tray. Failing to do so, may weaken the shower tray and cracking may appear.

Wood Floor

It is essential that all floor boards are properly secured, ensuring no movement or flex. Any joins in floor boards that are not supported by a joist must be supported by a separate noggin. Any floor boards that flex between joists **MUST** also be supported by additional noggin(s).



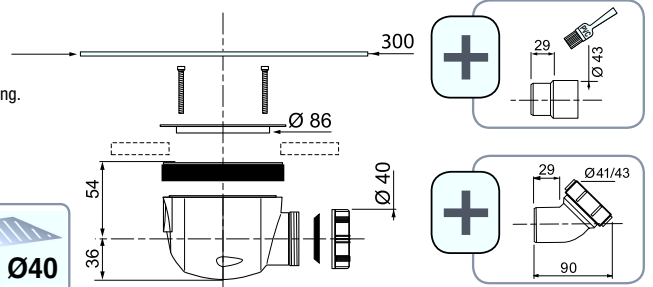
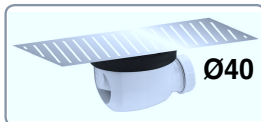
Ensure that floorboards around the waste hole are fully supported by noggins. There must be no floor movement around the cut hole.

See the fully comprehensive 'Fitting Instructions' supplied in the 'Information Pack' for detailed drawings.

After using the 'Template Instructions' (above), please cut out these 'Waste Unit Instructions' and keep with the information pack

WASTE UNIT INSTRUCTIONS - TM TWISTO Ø90

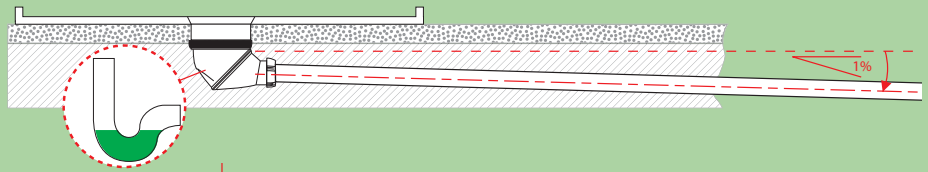
- Only use the waste unit provided.
- It is strongly recommended that a qualified plumber completes the waste unit installation and final plumbing.
- To locate waste unit, apply a seal of silicone (if required) beneath the tray waste hole and the rubber seal. Apply plastic flange and locate onto waste unit with the securing screws supplied. **IMPORTANT: DO NOT OVER-TIGHTEN NYLON WASTE FLANGE. THIS CAN CAUSE TO DAMAGE OF THE FLANGE OR THE TRAY.**
- To join waste pipe to waste unit, use either a compression fitting or solvent weld fitting as preferred (both supplied). **Please note:** If using solvent weld, test for leakage and seal by pouring approximately 2 litres of water into waste unit prior to final fitting.
- It is essential that the fall angle of the waste pipe is maximised. Fall must be a **MINIMUM** of 2% to ensure adequate water flow.



TROUBLE SHOOTER SHOWER WASTE

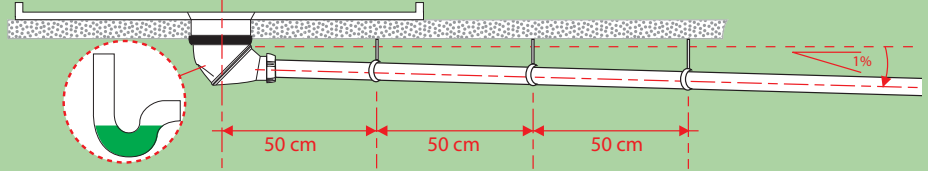
SOLID FLOOR INSTALLATION

✓OK



CAVITY FLOOR INSTALLATION

✓OK



ADDITIONAL RECOMMENDATIONS

- Check that the filter is correctly fitted in the waste and remember to clean it from time to time to prevent any blockage build up (hair, etc).
- Ensure that the waste inlet is protected when fitting or renovating the shower so as to avoid any debris falling into the trap body.
- Correctly tighten the grid (using the red key if provided) to ensure a watertight seal (a bead of sealant on the underside of the flange may assist in overcoming any irregularities in seating in the tray).
- If the shower tray overflows in use: Calculate the number of litre/ minute flow rate. If less than 24L/min the waste may not conform to standards (time how long it takes to fill using 5 to 10 litres to work out the flow rate).

PROBLEMS

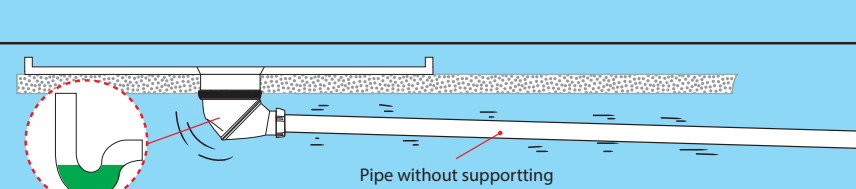
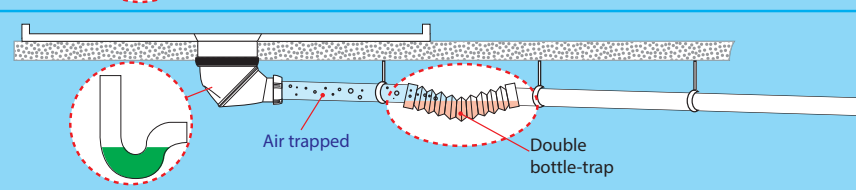
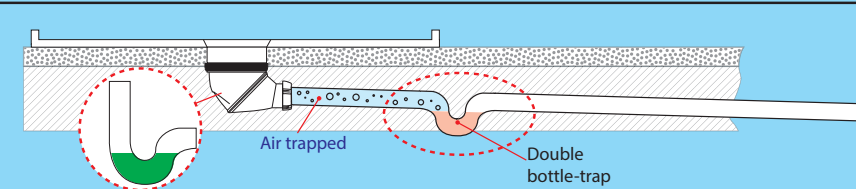
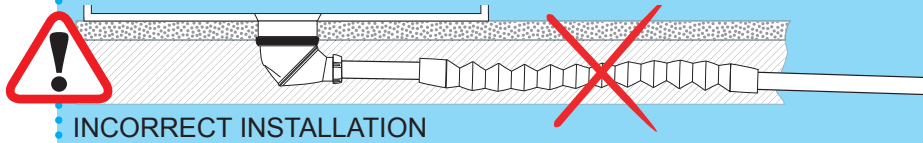
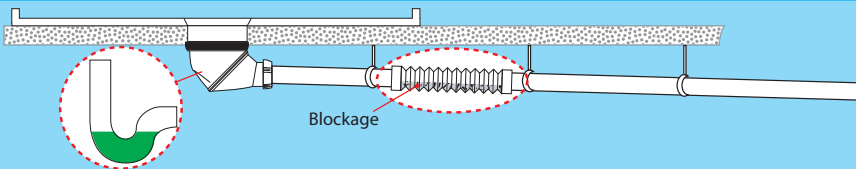
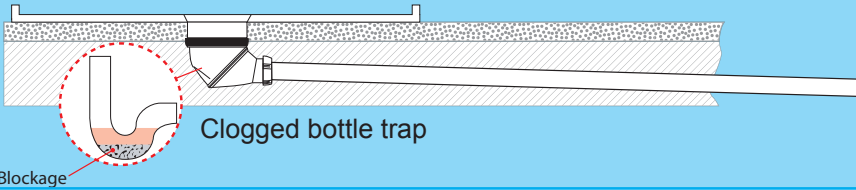
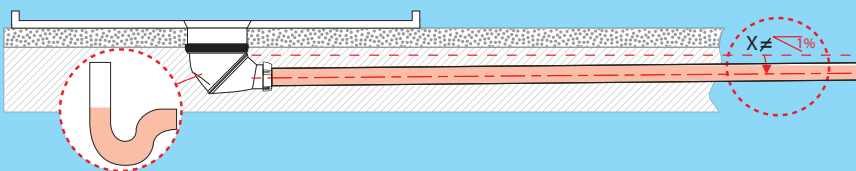
Reduced or even zero flow rate

Do not use 90 degree bends if at all possible: any sharp bend or series of bends/joints will adversely affect the flow rate.

Water flows back into the shower tray
Trap flow rate problems

Tube vibration, water leaking from the seal

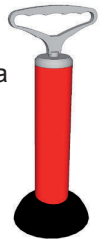
CAUSES



SOLUTIONS

Re-install (Use the correct installations above as a model) check that there is the required minimum 1% slope.

Clean using a pump.



Do not embed a flexible pipe solution unless access is possible.

Re-install (Use the correct installations above as a model). Get rid of second bottle trap.

Install the flexible pipe solution correctly or replace it. Do not use a flexible pipe solution unless access is possible.

Fit pipe supporting clamps (use the correct installations above as a model).