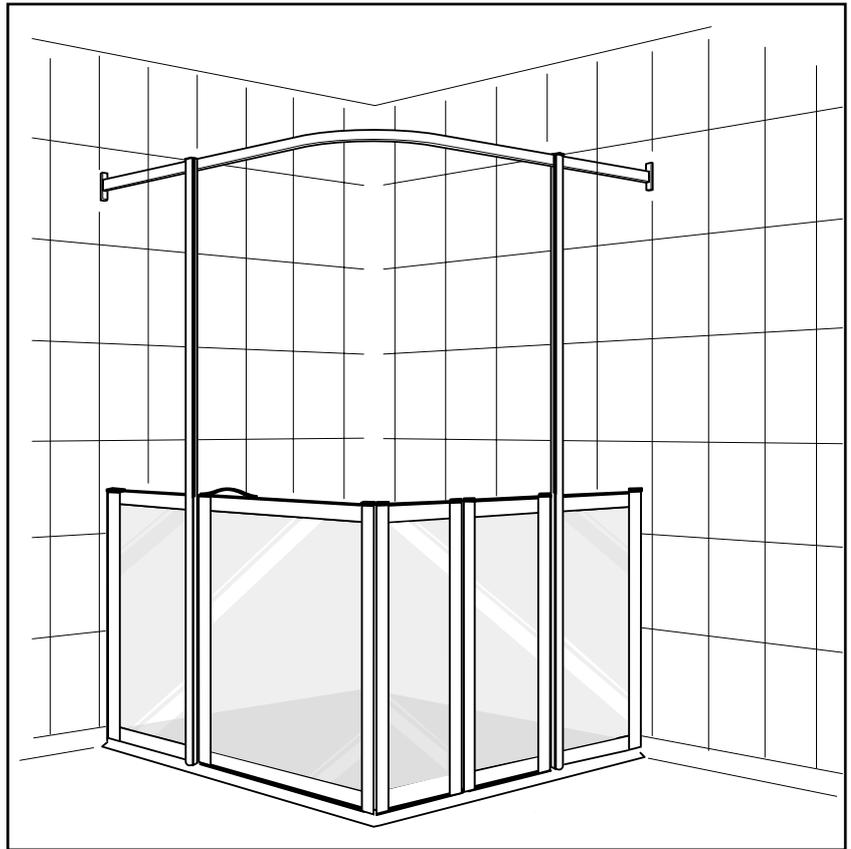


Level Access Showers

Cardale



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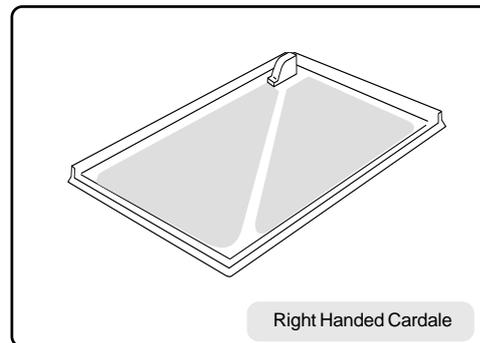
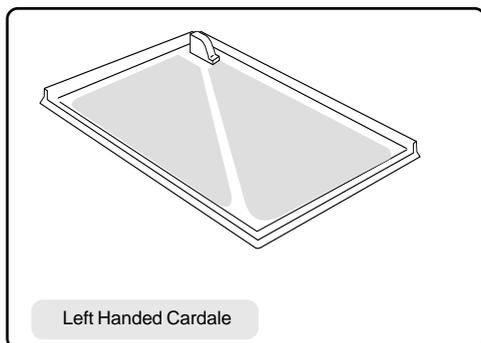
Installation Notes:

Safety note: Please wear protective gloves when handling trays.

Consult your client for the position/height of the shower mixer valve/heater and install inlet water and/or electrical services.

Electrical works should be carried out by a fully qualified Electrician to current IEE Regulations

During assembly protect shower base from scuffing using a piece of cardboard.
Power showers: Maximum water delivery flow rate 9lt/min (2 gal/min).



To obtain a copy of this guide in large print, please contact customer services on 01869 365500 opt 1 or email: sales@chilterninvadex.co.uk

1. Waste Plumbing

To accommodate the pipework it is necessary to construct a stud wall to conceal the waste pipe to stack, outlet hose and supply wire from the pump. The waste should always be accessible and a removable inspection cover should be provided to allow access to pipework.

The Chiltern Invadex tray has a 12 volt pump positioned at the rear corner of the tray. It pumps the waste water out of the tray to a waste stack similar to that used by a washing machine. The waste stack need only be 40mm (1 1/2") plastic pipe with a fitted trap in it, before it goes out into main stack.

The grey waste hose must not be cut any longer than 610mm (24") in total length, as in Fig 1.1. This is only an example of an installation. Position of pipework will vary according to individual situations.

Stud wall constructed to conceal pipework (right hand tray illustrated, opposite for left hand).

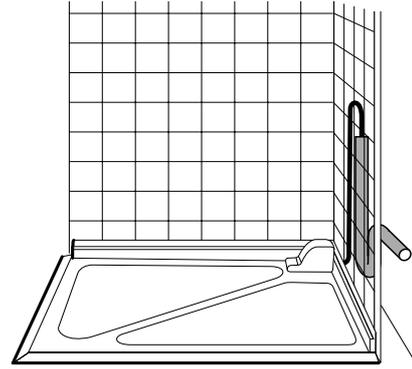


Fig 1.1

2. Floor Removal

Tile/Floorboard Situation

From face of plaster remove floorboards to an area of 660mm x 430mm. Again from face of plaster remove an area 220mm x 220mm to a total depth of 35mm (1 3/4"). See Figs 2.1a, 2.1b and 2.3

Tile/Concrete Floor Situation

When fitting the tray into a concrete screed the cut-out sizes are the same as in a floorboard situation.

NOTE: There is a 5mm step to be taken into consideration. See Fig 2.2a, 2.2b, 2.4.

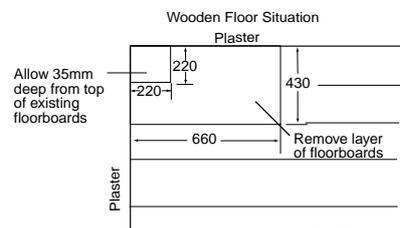


Fig 2.1a

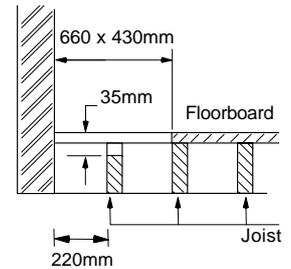


Fig 2.1b

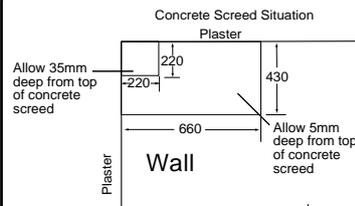


Fig 2.2a

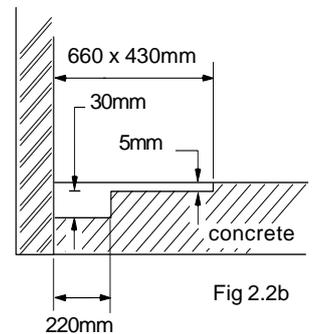


Fig 2.2b

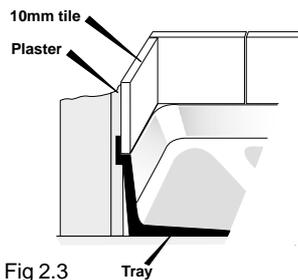
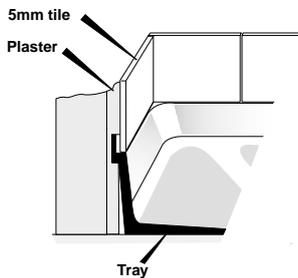


Fig 2.3

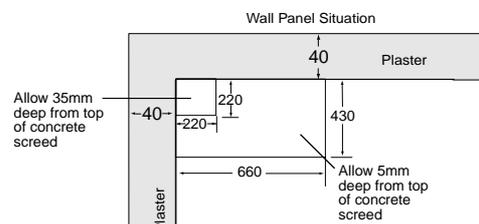
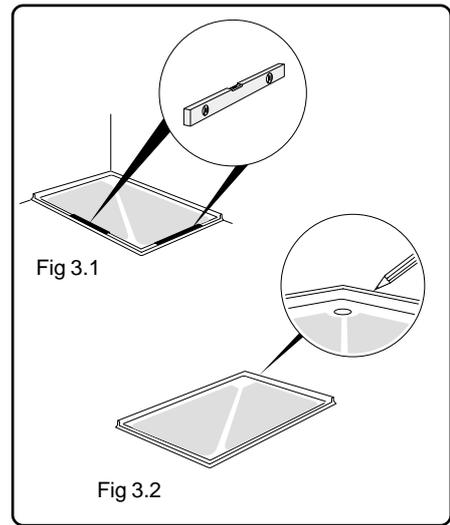


Fig 2.4

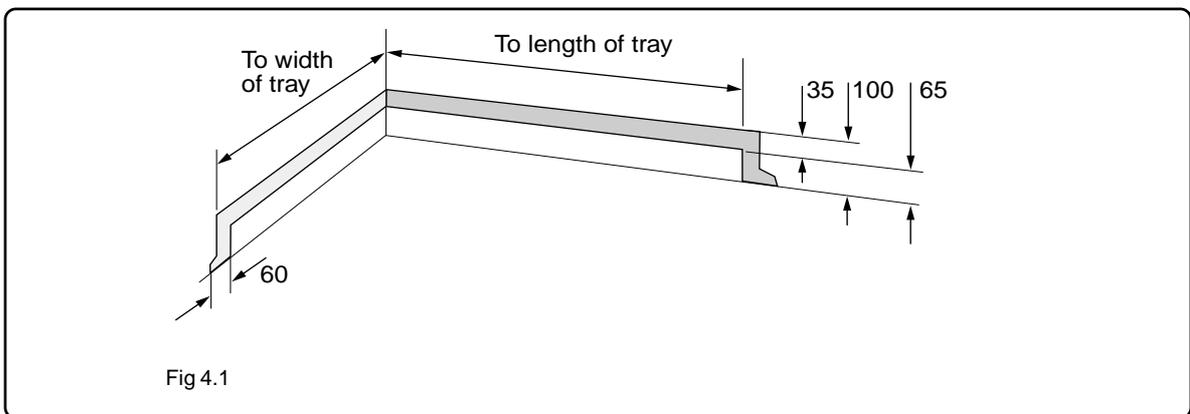
3. Marking the plaster

Place the shower tray into the corner and ensure that the shower base is level along its width and length, as Fig 3.1. Mark plaster above tiling lip, as Fig 3.2 and door recess point.



4. Removing the plaster

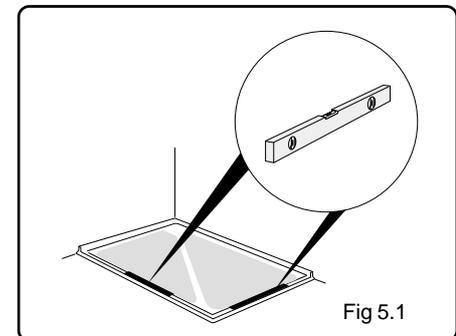
Remove the shower tray from the wall and remove the plaster below the mark to a depth suitable to take the tiling lip, see Fig 4.1. This will vary according to thickness of tile to be used. Remove a small area of plaster to fit door recess point to a depth of 10mm.



5. Checking the level

Replace the shower tray in position. Check the flat surface around the showering area is level (see Fig 5.1). Insert packing strips if required strip of plywood under the tray edges to ensure water flows into pump well.

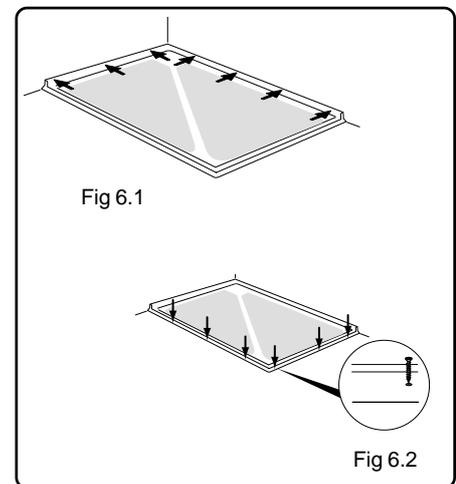
NOTE: The area where the doors locate must also be checked to ensure it is level, as Fig 5.1.



6. Drilling lip

Drill the tiling lip at the points shown in Fig 6.1 using a 4.5mm drill. Countersink holes, plug wall and screw to wall using 1 1/2" no 8 slotted stainless steel screws, not applicable for trays with panels. Secure the tray to the floor as shown in Fig 6.2, checking the tray is level before final fixing.

Insert packing strips to level if required.



7. Before tiling

Ensure that pump waste hose is connected to waste outlet. The pump connecting wire should also be in place.

8. Fixing tray to the floor

Mitre aluminium edging strip as Fig 8.1 Using a hacksaw
NOTE: Aluminium strip must butt up to edge of tray as shown in Fig 8.2. Drill and countersink front edge of tray and aluminium edging strip as Figs 8.3 and 8.4. White cover strip should be fitted after floor covering has been laid. Check to make sure the tray is level before final fixing.

Make good plaster work. Tile down to the angle of the tiling lip using waterproof adhesive and grout. Anti-slip flooring should finish over the aluminium edging strip as Fig 8.5.

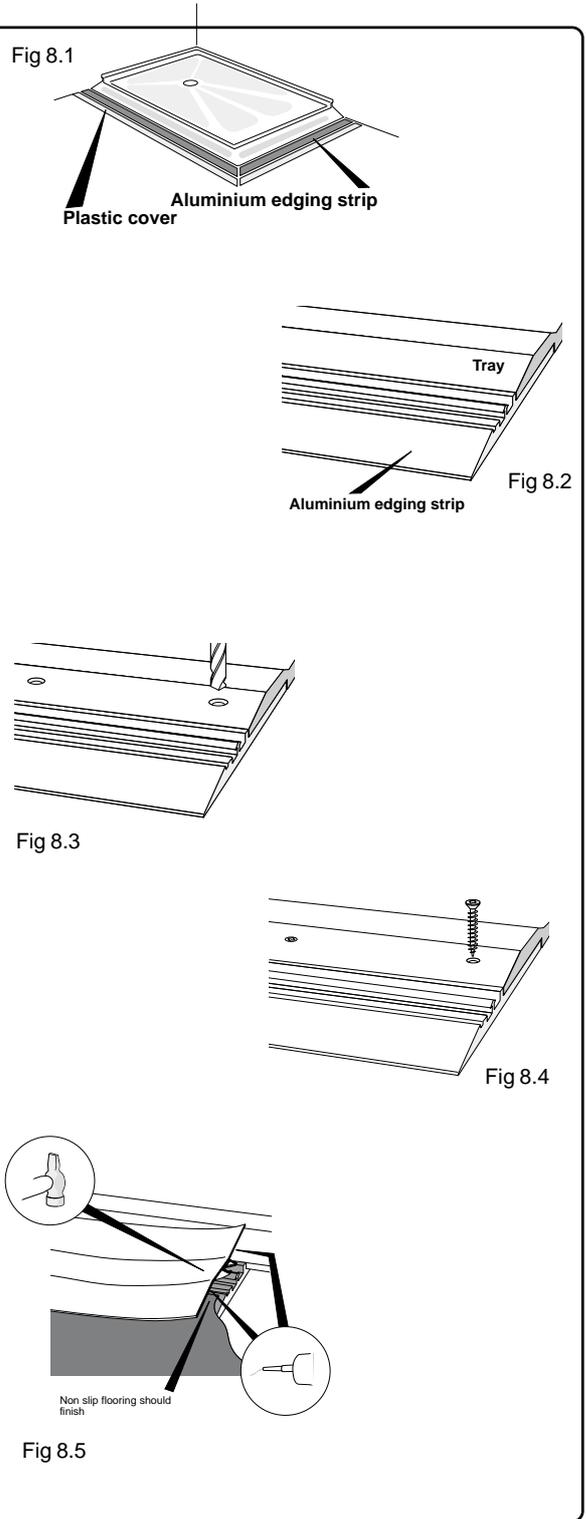
Apply a bead of mastic to tray edge and edging strip as shown in Fig 8.5. Finally, knock the plastic trim cover into place, taking care to lock the components together, as Fig 8.5.

IMPORTANT NOTE:

Before proceeding further ensure area has been totally cleaned of grout. Do not use the pump to clean debris away.

Before tiling

Ensure the pump waste hose is connected to waste outlet. The pump connecting wire should also be in place.



If you require additional help

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Electrical Works



All electrical works must comply with current IEE Regulations, Local Authority bylaws and electricity board regulations and must be carried out only by a qualified electrician.

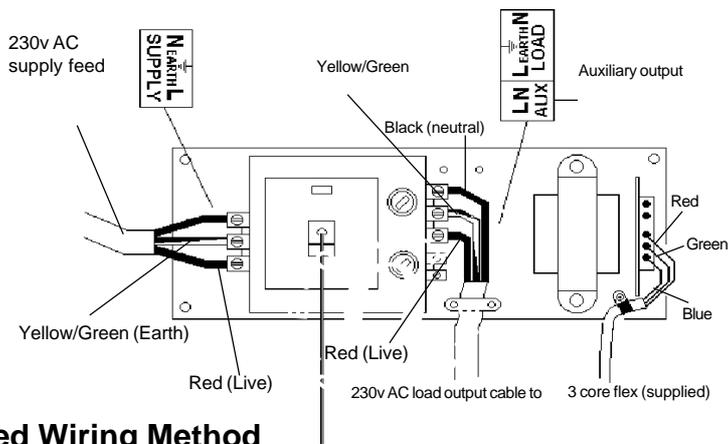
The 12v waste pump can be connected to the lead and plug in the rear corner of the unit. The pump is pushed into the base socket. Check to make sure the cable has not become trapped whilst inserting the pump.

Electrical Installation

Shower and pumped waste

The correct wiring installation for the electric shower and pumped waste is shown right. Please pay particular attention to the wire sizes.

Note: For mixer showers load output cable is not required.

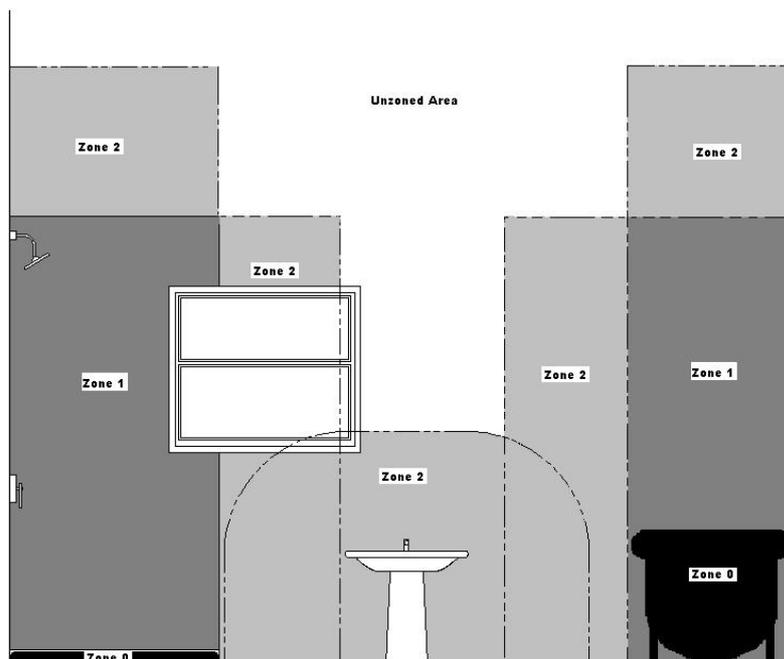


Suggested Wiring Method

Run a suitable cable (6-10mm sq for electric showers depending on power rating and supply distance) from the consumer box via a suitable RCD to the double pole ceiling pull switch in the wiring block supplied. (This switch is used to isolate the shower as well as turning the shower waste pump on and off and must be accessible to a wheelchair user where applicable).

Follow connection instructions included with wiring block to complete electrical supply.

Wiring block must be located outside of Zones 0, 1 and 2 to comply with bathroom IP wiring zone requirements.

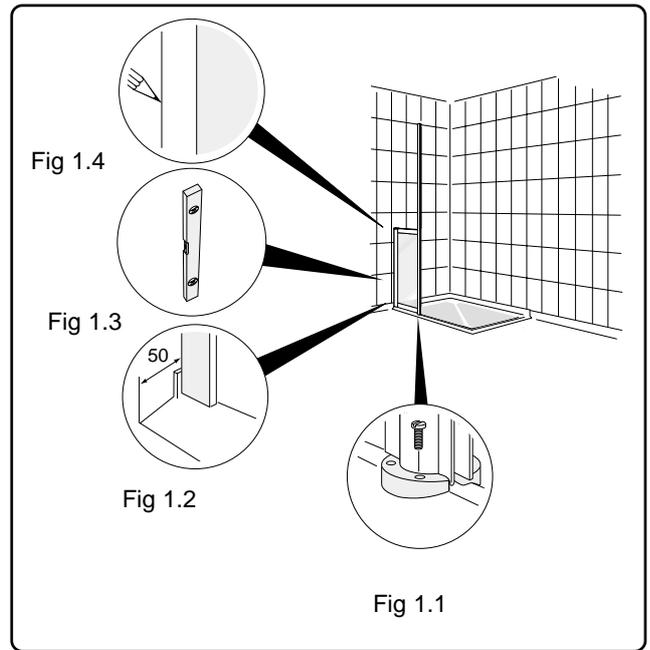


1. Marking the wall

Place Cardale jamb with full height pole onto side of tray, as in Fig 1.1

Ensure bottom fixing plate with holes facing outwards is in position as Fig 1.1.

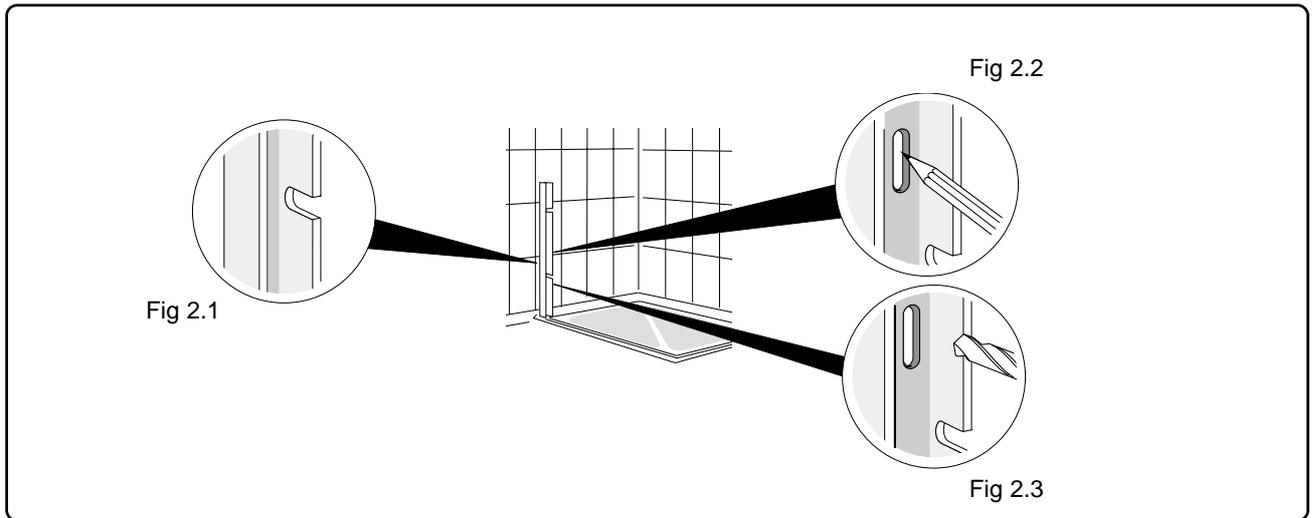
Position jamb approximately 50mm from the edge, as Fig 1.2 Make sure it is vertical as Fig 1.3. Mark the wall alongside the wall channel, as Fig 1.4



2. Drilling the wall

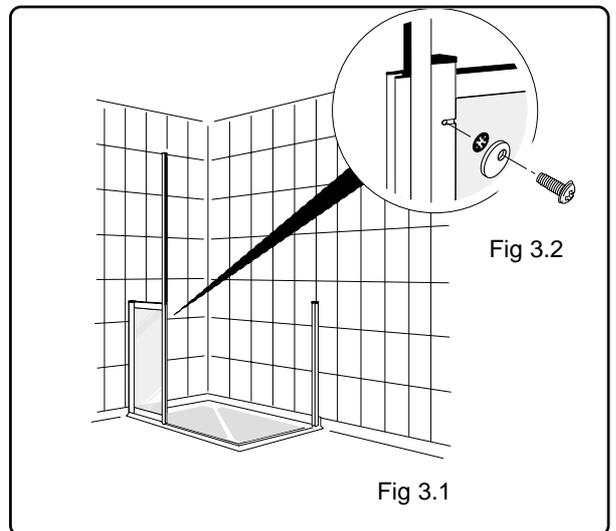
Remove channel from jamb and place on wall as Fig 2.1. Using a pencil mark through the slots and drill the wall 50mm deep (2") using a 5.5mm drill, as Fig 2.2 & 2.3. Apply a film of silicone sealant to the inside edge of the wall channel.

Secure to wall with wall plugs and 1 1/2" x No 8 screws.



3. Fixing the jamb panel

Push panel into wall channel. Fasten loosely with self tapping screws, slot covers and shakeproof washers provided. Repeat with pole section ensuring fixing plate is in position. Check panel is level horizontally and vertically. Screws are fully tightened later. The pole fixing plate is also screwed in position later.

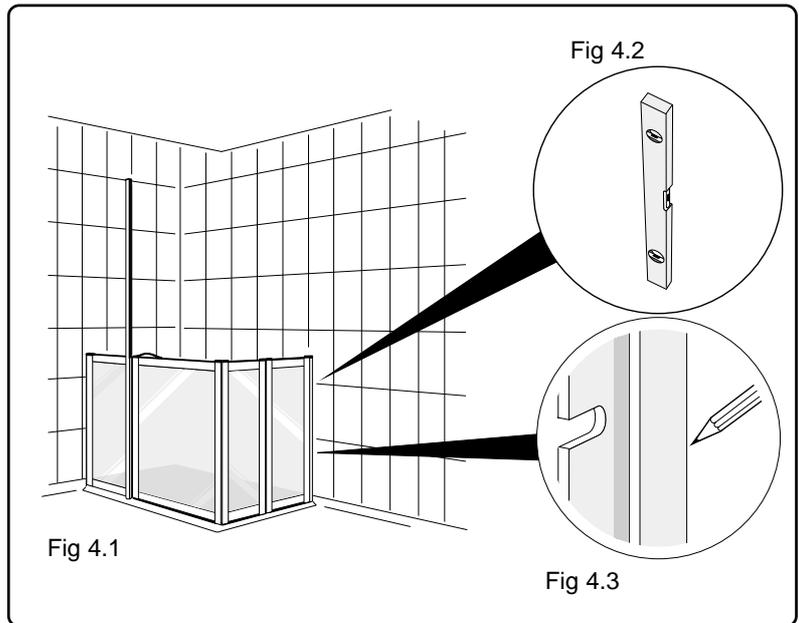


4. Positioning tri-fold door

Place the tri-fold door onto the tray in its fully closed position ensuring the bottom seal is in contact with the tray, as Fig 4.1.

Ensure the wall channel is flat against the wall and is to the extreme left of the tray slot. This is for a left hand tray. It is on the right for a right hand tray.

Check the wall channel is vertical, as Fig 4.2 and mark the wall alongside the channel, as Fig 4.3

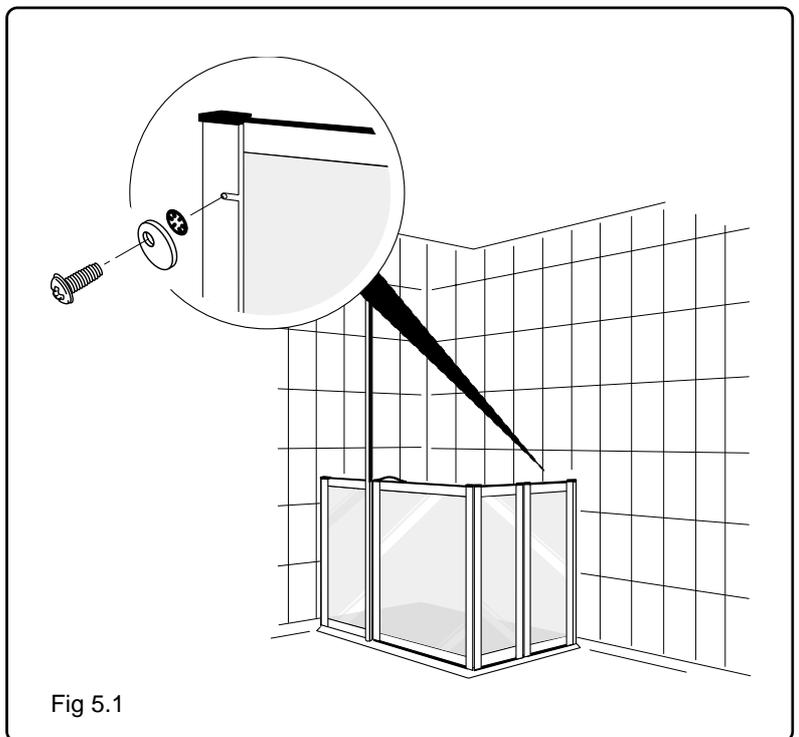


5. Fixing tri-fold door

Remove the tri-fold doors from the tray and slide off the wall channel. The slots on the wall channel should be facing into the shower area as shown in Fig 4.3. Using a pencil mark through the slots and drill the wall 50mm deep (2") using a 5.5mm drill. Apply a film of silicone sealant to the inside edge of the wall channel and secure to wall.

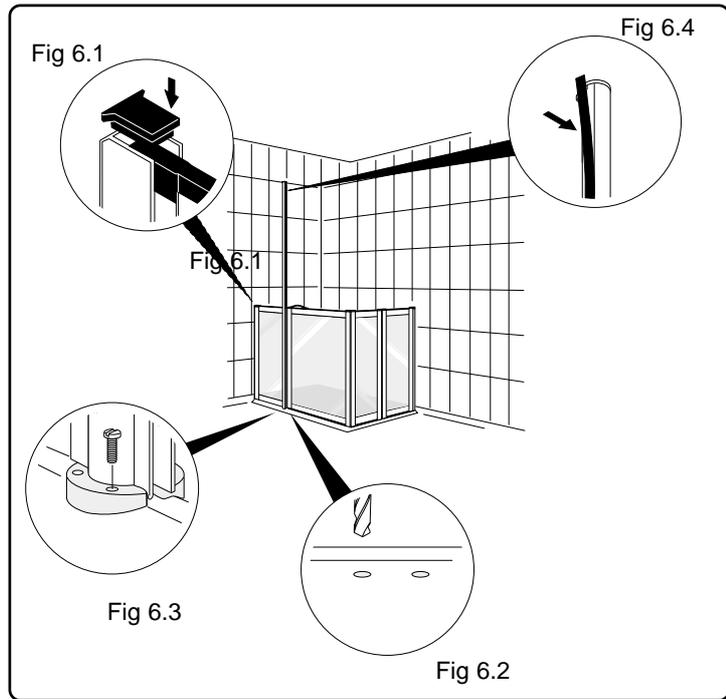
Replace tri-fold doors, as Fig 5.1. Fasten loosely with self tapping screws, slot covers and shakeproof washers provided. Check magnetic strips are in contact with each other. Adjust doors to open and close correctly, ensuring the bottom seal is in contact with the tray.

When satisfied that doors are correctly adjusted, fully tighten all screws, slot covers and shakeproof washers, as Fig 5.1. Drill and fix pole fixing plate to tray with cheesehead screws provided as Figs 6.2/6.3. Make sure screws are on the outside of the tray, as Fig 6.3.



6. Fitting the end caps

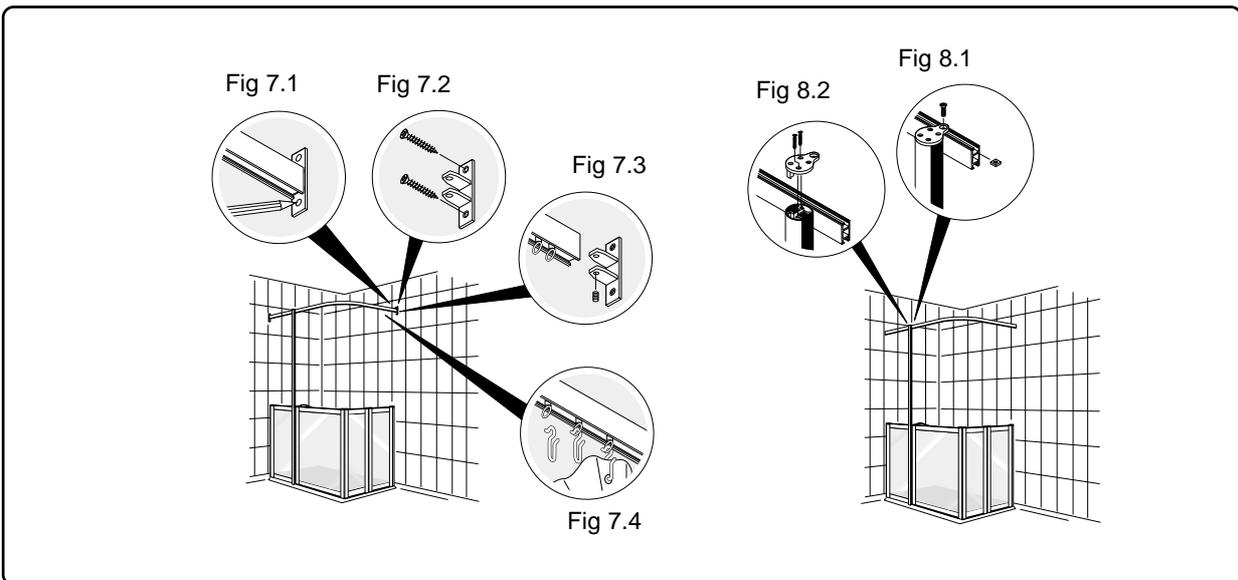
Fit end caps as shown in Fig 6.1. Note: On final fixing black end caps need to be secured in position using silicone sealant. Fit pole cover strips, as Fig 6.4.



7. Fitting curtain rail and shower curtain

Position curtain rail at height to connect to bracket at top of grab pole. Check level & mark walls for fixing wall brackets, as Fig 7.1. Drill wall with 5.5mm drill to a depth of 2" (50mm). Fix curtain rail brackets to wall with plugs and 1 1/2" x No 8 screws, as Fig 7.2. Load hooks and glides into bottom channel of curtain rail. Place 1 M5 nut in top channel of curtain rail as Fig 8.1. Attach to brackets and tighten with the allen key provided, as Fig 7.3.

Check pole is vertical. Using M5 X 10mm stainless steel screw attach to curtain rail with nut already in place, as Fig 8.1. Using 3/4" x 6's stainless steel screws secure pole bracket to top of pole rail, as Fig 8.2. Attach shower curtain to hooks on rail, as Fig 7.4.



If you require additional help

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User Instruction

The pump is controlled by the wiring block and pull cord which should be installed by an electrician in a safe area.

To operate the pump

Pull cord prior to entering shower to provide power to the pump.

To turn the pump off

After showering wait for approx 1 minute to allow the residual water to be pulled from the sump and then pull cord to disable pump.

Trouble Shooting

| symptom | suggested cause | solution |
|--|---|---|
| Pumped shower waste water level is higher than normal. | Waste hose is blocked. Water left in sump at back of shower after use. | Unblock waste hose. Run pump after showering for 1 minute to clear excess water. This is normal. The water left in the waste hose when the pump stops will run back when the pump stops. |
| There is an unpleasant odour. | Stagnant soapy water in the back gully. | The shower should be run for a couple of minutes after use to ensure that the residual water is clean. |
| Beeping from power Supply | float switch alarm triggered | Ensure float switch is moving freely and is not stuck or jammed |
| No function from waste pump | Loss of power to pump unit | Broken re wire kit lead/fault with pcb unit within power supply (electrician/service engineer required to assess) |
| Water flooding back into tray through pump | Blockage in waste pipe or overflow | Check for blockage within waste outlet hose or plastic overflow pipe |
| Continual Beeping from power supply | Alarm triggered | Check there is no break in the solder connection to the power supply (connection under rubber boot) Electrician/service call required) |

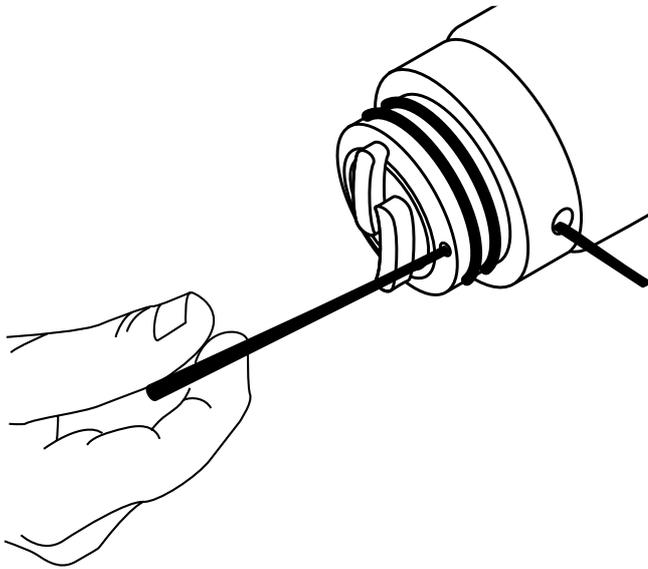
Cleaning and Maintenance

The Shower Waste Pump does not require any major maintenance, but should be regularly cleaned to prevent damage.

Pump Maintenance

Regularly (monthly) lift pump from the socket in the base and remove foreign matter from the blades. Scrub the area around the pump with a long handled stiff brush. This will reduce the build up of scum and odours.

Check that the small bore hole adjacent to the pump blades is clean (as shown below below)



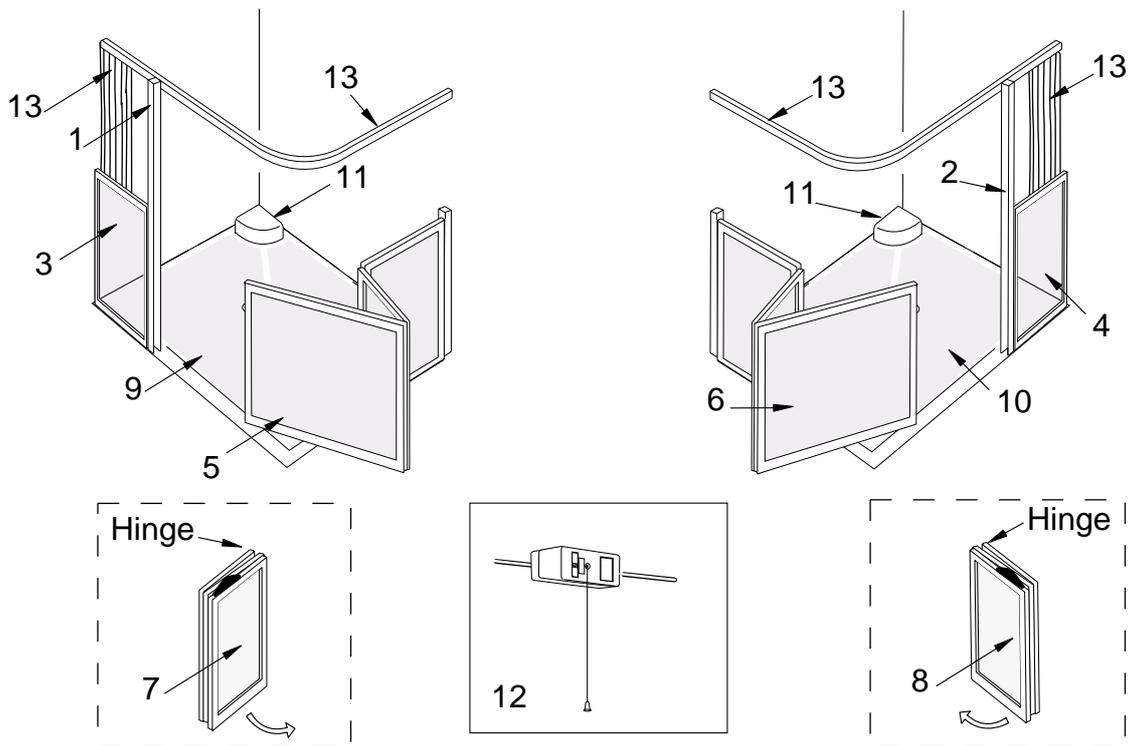
Tray and Enclosure Maintenance

To retain the surface quality of your shower tray and enclosure clean using bathroom cleaning mousse or washing-up liquid, warm water and a soft cloth is recommended. Do not scouring powder or abrasive pads which may spoil the surface appearance.

Cross infection

If this unit is to be utilised by many different bathers, then we would strongly recommend that this unit be cleaned with a medical disinfectant. Please contact your local infection control nurse for further advice.

Spare Parts Guide



| Item No. | Description | Part No. |
|-----------|---|------------|
| 1 | Pole Set including fixing pack - Left Hand - White | IDACP01W |
| 2 | Pole Set including fixing pack - Right Hand - White | IDACP02W |
| 3 | Left Hand Jamb - White | IDACJ01W |
| 4 | Right Hand Jamb - White | IDACJ02W |
| 5 | Right Hand Tri-fold Door - Cardale | IDACTD01W |
| 6 | Left Hand Tri-fold Door - Cardale | IDACTD02W |
| 7 | Left Hand Alcove Door (handed from point of hinge) | IDACA01W |
| 8 | Right Hand Alcove Door (handed from point of hinge) | IDACA02W |
| 9 | Left Hand Shower tray* | IDIC05 |
| 10 | Right Hand Shower tray* | IDIC07 |
| 11 | Cardale Pump Cover - White | SH0695W |
| 12 | Wiring block | SHSU050 |
| 13 | Curtain rail L shaped (1295 x 735mm) | IDGRL5129W |
| Not shown | Straight curtain rail (1840mm) | IDGRS72W |
| 14 | Curtain (2200mm width x 1750mm length) | IDGSS22 |
| Not shown | Curtain (for straight curtain rail) 1800 W x 1800mm L | IDGSS01 |
| Not shown | Waste Outlet hose - Grey | SHSU019 |
| Not shown | 12V Waste Pump (plus 90 degree float switch) | SHPU032-H |
| Not shown | Re-wire kit (plus plug) 12V | SHPU004/12 |

Warranty

Your Chiltern Invadex Shower Enclosure, pump and wiring block carry a 12 month warranty from the date of purchase (for guarantee on shower unit see manufacturers details), subject to the following:-

1. Should you experience any problems with our workmanship or materials within the first 12 months period, please contact your point of purchase.
2. Repairs made during the warranty period will be carried out free of charge, provided the product has been used strictly in accordance with the guidelines set out in this user guide.
3. Our warranty does not cover replacements, adjustments or repairs which may be required as result of normal wear and tear, wilful or accidental damage, misuse, neglect or any other cause which is beyond the control of Chiltern Invadex.
4. Modifications and repairs made to this product by unauthorised persons will render the warranty void.
5. Only parts manufactured or approved by Chiltern Invadex shall be used to repair this product. Use of unauthorised parts will invalidate all warranties and remove all liability from Chiltern Invadex for the safety of this product.
6. Chiltern Invadex shall in no event be liable for any damages, costs or expenses arising from any claim made under this warranty (save for any legal liability of Chiltern Invadex for death or personal injury resulting from the company's negligence in respect of its products).
7. Faults due to inadequate cleaning, limescale or other water impurities including debris not flushed from the supply pipe work prior to connection are excluded from this warranty.
8. This warranty does not affect your statutory consumer rights.

The Shower Tray has a 25 year manufacturing fault warranty.

Level Access Showers

Cardale



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WEEE producer number
WEE/JD1274RU

The crossed wheelie bin symbol shown on this product indicates that the item must not be disposed of with general household waste. Proper recovery of your waste electronic and electrical equipment will ensure safety of human health and the environment.

For more information where the product can be safely disposed of please contact your Local Authority, the dealer from where the product was purchased or Chiltern Invadex (UK) Limited.