



**Renaissance  
Excel 400 & 600**

**Installation Instructions**

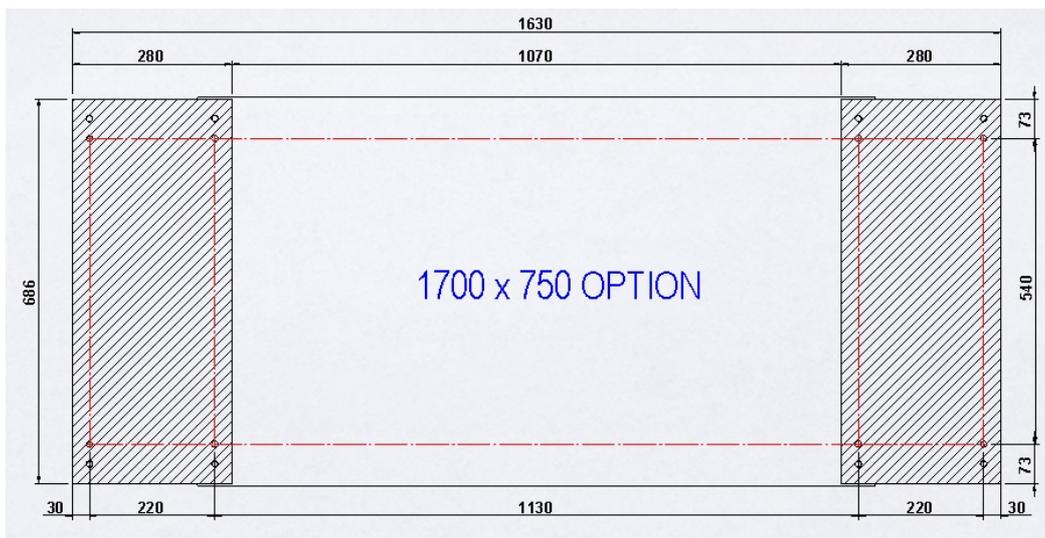
## Pre-Installation Notes

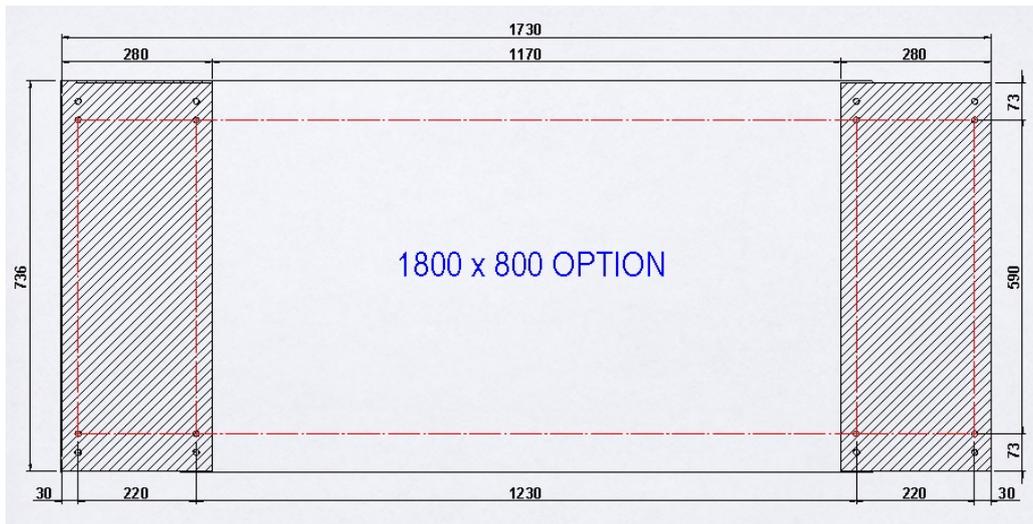
### Flooring

This product must be fixed to the floor and therefore the floor must be a sound, solid and even surface. The frame stands in the shaded areas shown below, and therefore these areas should be of sound construction with no buried services, and be capable of accepting 75mm deep fixings, up to 280mm in from each end of the bath. Floors must be strong enough to take the weight of the bath + person + water (up to 400kg).

M8 x 70mm coach screws are supplied and would be recommended for fixing to wooden floors.  
M10 x 70mm through bolts are supplied and would be recommended for fixing to concrete floors.

The drawings below also show the fixing positions where the product will be secured to the floor, for both the 1700mm x 750mm option and the 1800mm x 800mm option. However, it is recommended to position the bath frame first to ensure the holes are in exactly the right position. A 10mm masonry drill bit should be used for through bolt mounting – drilled to minimum depth of 75mm, and a 5.0mm to 5.5mm pilot hole approximately 50mm deep should be used for coach screws.





### **Electrics**

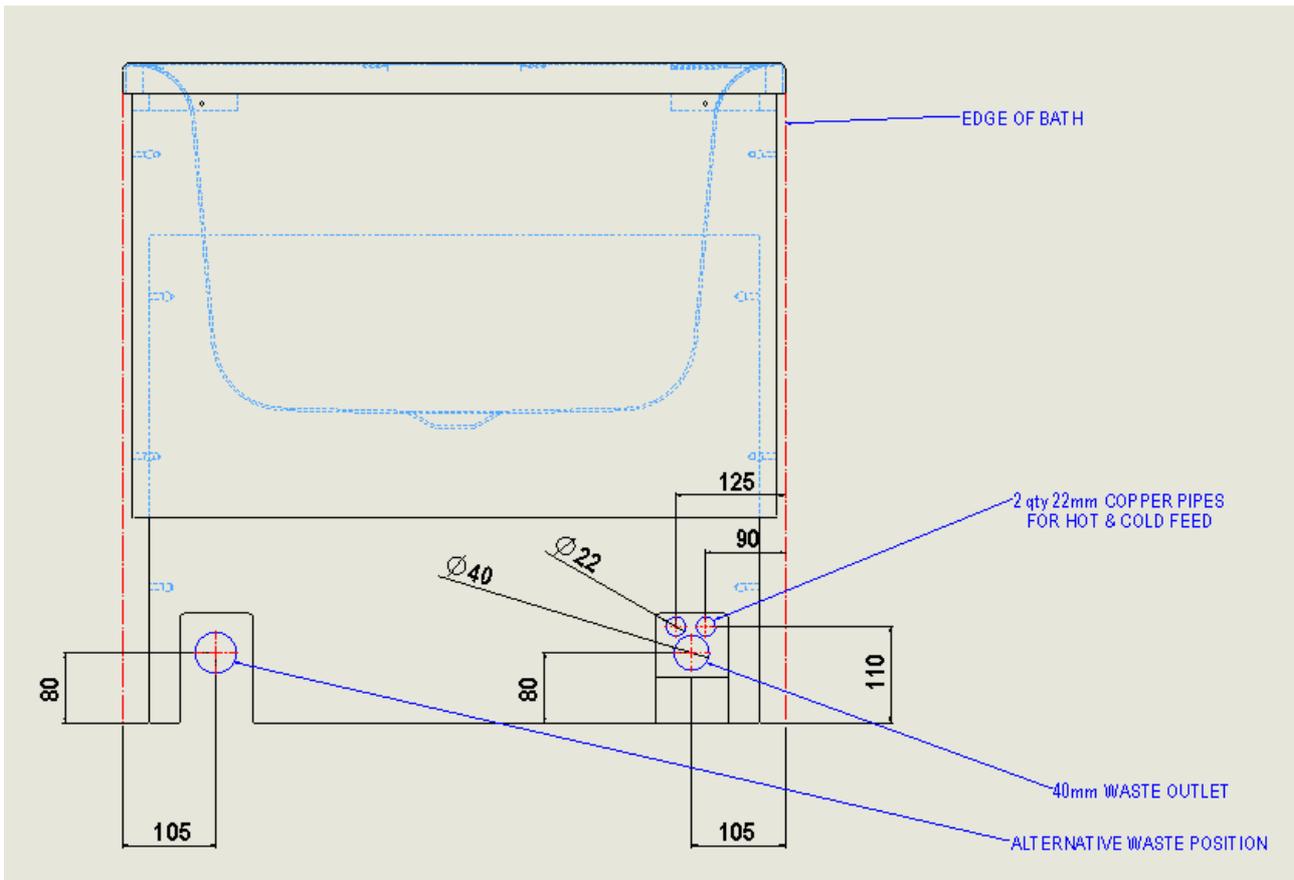
A 30mA RCD with a 4A waterproofed switched fused spur Power supply to be situated approximately 200mm up from the floor and within 150mm of the end or back of the bath.

### **Plumbing**

#### **Through End Panel**

Hot and cold 22mm ball pipe isolation valves are required. Their centres should be situated 90mm and 125mm in from the side of the bath, to allow them to pass through the service entry points in the end panel. They should be 110mm off the ground and extend 150mm under the bath.

The centre of the waste pipe should be 105mm in from the side of the bath and 75mm off the ground and extend 250mm under the bath. There is also the option to position the waste pipe to run into the bath from the opposite side, if space is limited. The drawing below illustrates this in a typical layout.



## Through Floor

Centres of hot and cold pipes to be 180mm in from end of bath, 230mm and 270mm in from the side of the bath. Centre of waste pipe 220mm in from end of bath, 250mm in from the side

## Wall Clearance

Clearance from any wall needs to be at least 50mm to allow free movement of the bath up and down, but note that a larger distance would enable easier fitting of the panels

This instruction manual consists of the following sections:-

### Basic Installation Procedure – Pages 4-5

This provides installation instructions when the product can be moved into position without any disassembly.

### Electrical Connections – Pages 6-7

This provides detail of the electric installation requirements and procedure, and also important information regarding the operation of the bath.

### Plumbing Connections – Page 8

This provides detail of the plumbing requirements.

Panel Fitting and Final Finishing – Pages 9-13

This provides information on panel fitting and the final aesthetic touches to finishing the installation.

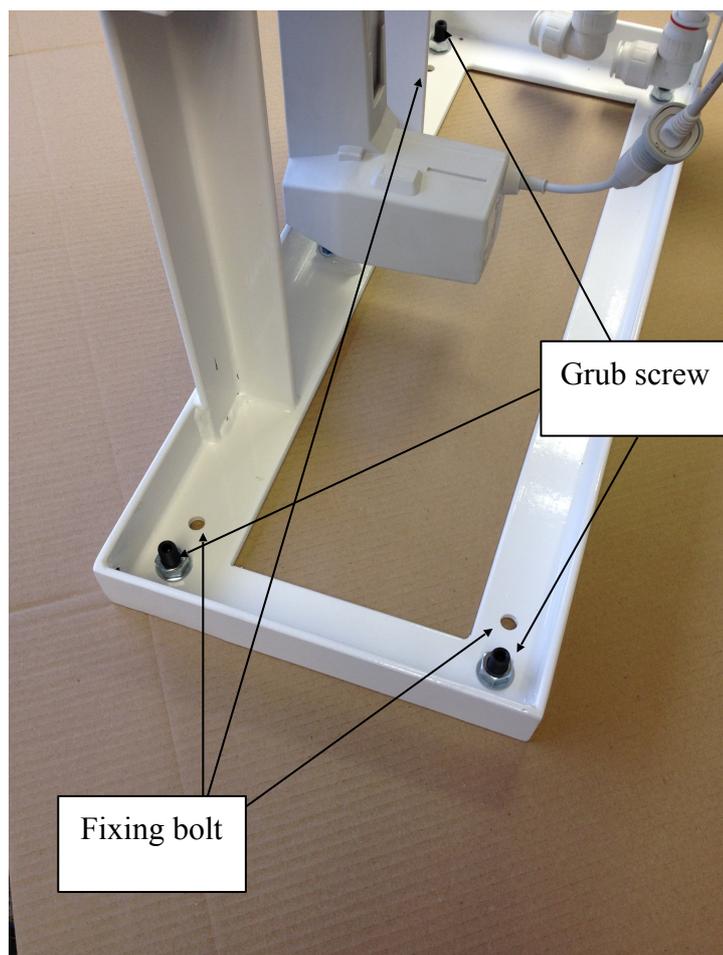
Strip Down and re-assembly Installation Procedure – AVAILABLE ON REQUEST

This provides instructions on dismantling the product to allow easier handling into more difficult locations.

When any part of the strip down procedure has been followed, this gives the correct method for re-assembly and installation.

## **Basic Installation Procedure**

1. Unpack the product from the crate or pallet, and move into required position. The fixing holes can now be marked out through the bath once the ideal position is found. If preferred the bath can be moved in order to drill the floor more easily. If this is not practical then the holes can be drilled through the framework with the bath in the lifted position (see step 2). Where supplied with pipework fitted, it may be necessary to disconnect or move some of the fittings whilst the bath is being fixed to the floor.
2. If it is easier to insert the floor fixings with the bath in its lifted position, the bath should be temporarily connected to the mains at this point. The control unit is fitted with a plug so a permanent connection does not have to be made at this stage. Once the power is switched on, the bath can be raised by pressing the “BATH UP” button on the keypad until it has reached its highest position.
3. If the holes are being drilled in position then this can now be done.
4. If using through bolts these can now be knocked into the drilled holes leaving approximately 20mm of thread exposed above the bottom plate of the framework. Place a washer and nut on each bolt and wind down leaving a gap of around 5mm for levelling adjustments.



If using coach screws then these can be screwed into the floor now, ensuring that a washer is used in each position. These should be left slack (with a gap of 5mm or more) to allow for levelling adjustments.

5. The bath must now be lowered again to ensure that the framework is secured in the correct position.
6. With the bath in the lowest position, all fixings to the floor left loose and with all grub screws set above the bottom face of the frame use a spirit level to check that the bath is level from left to right, and from front to back.
7. If the bath is not level, wind down the grub screws (in the 4 corners of the frame only) in order to lift the bath where required to make it level. At least one corner should remain flush with the floor. These 4 corner grub screws can now be locked in position by using the locknuts (ensuring the grub screw does not wind down any further).
8. The remaining 4 grub screws can now be wound down where required if there are any gaps under the other 4 fixing positions. This will ensure that when these fixings are tightened that the frame does not distort. Again these can now be locked in position by using the locknuts.
9. With all 8 grub screws set and locked in position the bath can now be fully fixed to the floor. All 8 fixings can now be fully tightened, starting with the four outer corners, and then the four inner fixings.
10. The bath can now be checked again with a spirit level to ensure that nothing has moved during the final tightening of the fixing bolts. If necessary slacken off the fixing bolts, re-adjust the grub screws and then re-tighten again until everything is level.

## **Electrical Connections**

Warning: All electrical installation should be performed by a suitable qualified electrician. The installation must comply with BS 7671 (Wiring Regulations) and Part P of the Building Regulations. The 230V AC supply will require a 30mA RCD with a 4A waterproof switched fused spur (not supplied).

1. The product comes supplied with a standard 3 pin plug for testing and setting up purposes, but this must be removed when the product is being installed. The plug should be cut off the cable, and the cables stripped back for wiring into the power supply. Live, neutral and earth must all be connected.
2. It may be necessary (in rare circumstances) to allow the battery to re-charge for up to 6 hours on initial power up, to ensure correct functionality.
3. Once the bath is powered up, simple functionality tests can be made. Once the bath has been lifted slightly from its lowest position, using the “Bath Up” button, the “Seat In” and “Seat Out” buttons on the keypad will not function. This can now be tested.
4. The bath can now be lowered again to its bottom position where the seat can be tested. The seat can now be moved out of the bath by pressing the “Seat Out” button on the keypad. The seat will move up, and will then traverse out of the bath, before lowering completely outside of the bath.
5. Once the seat has been moved from its position fully down inside the bath the “Bath Up” and “Bath Down” buttons on the keypad will not function. This can be tested at any stage during the movement of the seat.
6. The “Seat In” button can now be tested to ensure that the seat moves correctly back into the bath.

## **IMPORTANT NOTES**

The battery backup is contained within the main control box, and is provided to ensure that in the event of a power supply failure to the bath, limited but necessary function can be completed without mains power. If there is a power failure, then the following conditions will occur:-

- The bath can still be moved down
- The bath cannot be moved up

- The seat can still be moved outside of the bath
- The seat cannot be moved inside of the bath
- An audible intermittent beep will be present whenever the bath or seat moves, to indicate that the bath is in 'emergency' state

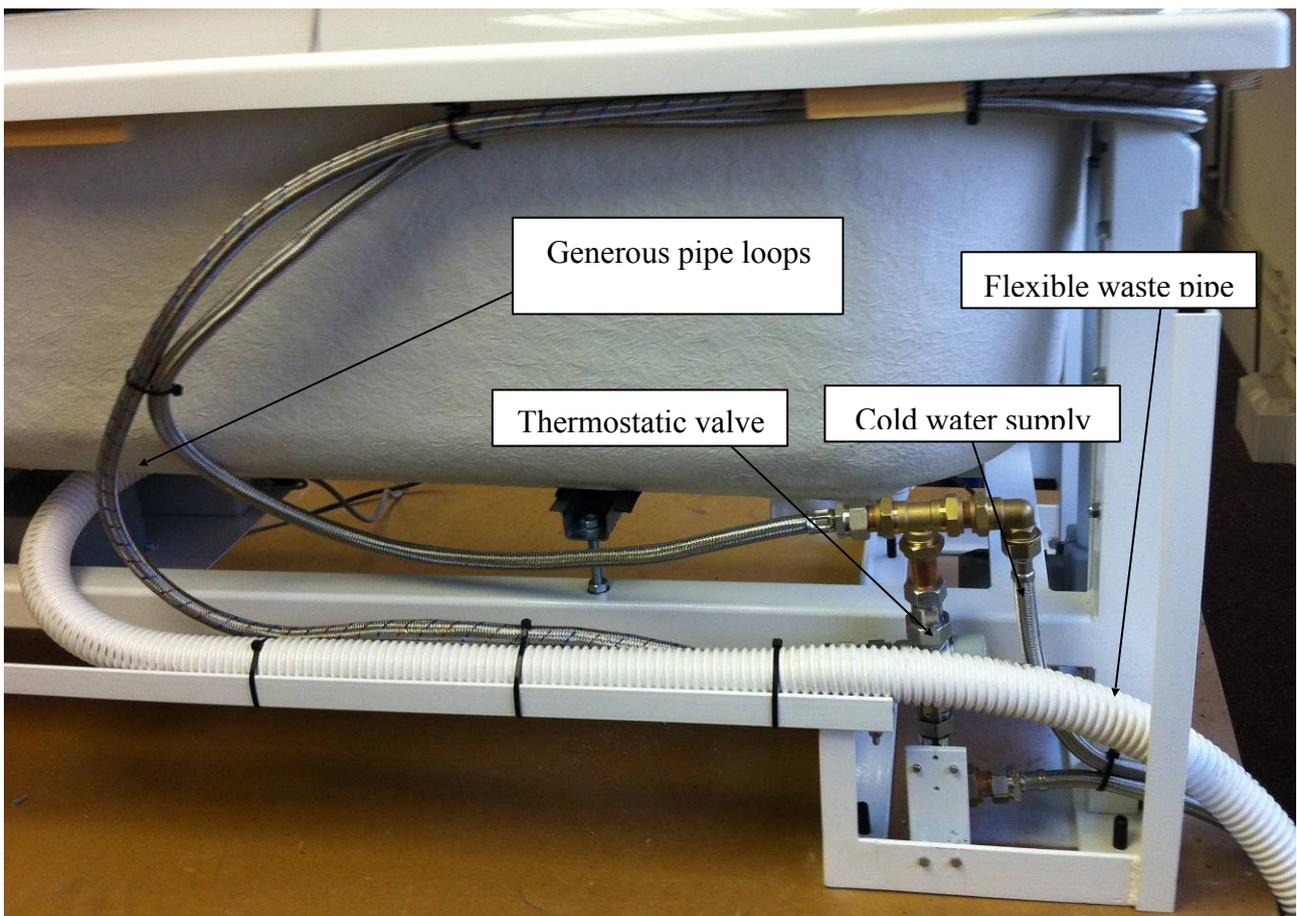
The above conditions are in place, to ensure that the user can still be negotiated out of the bath during power failure, and equally prevent further use during power failure. A bath should not be commenced whilst relying only on battery power.

**In order to ensure the functionality of the battery backup, the product must be kept connected to the mains and switched on at all times.**

### **Plumbing Connections**

22mm hot and cold water connections, and a 40mm waste connection should be provided through one of the openings in the end panel at the opposite end to the seat.

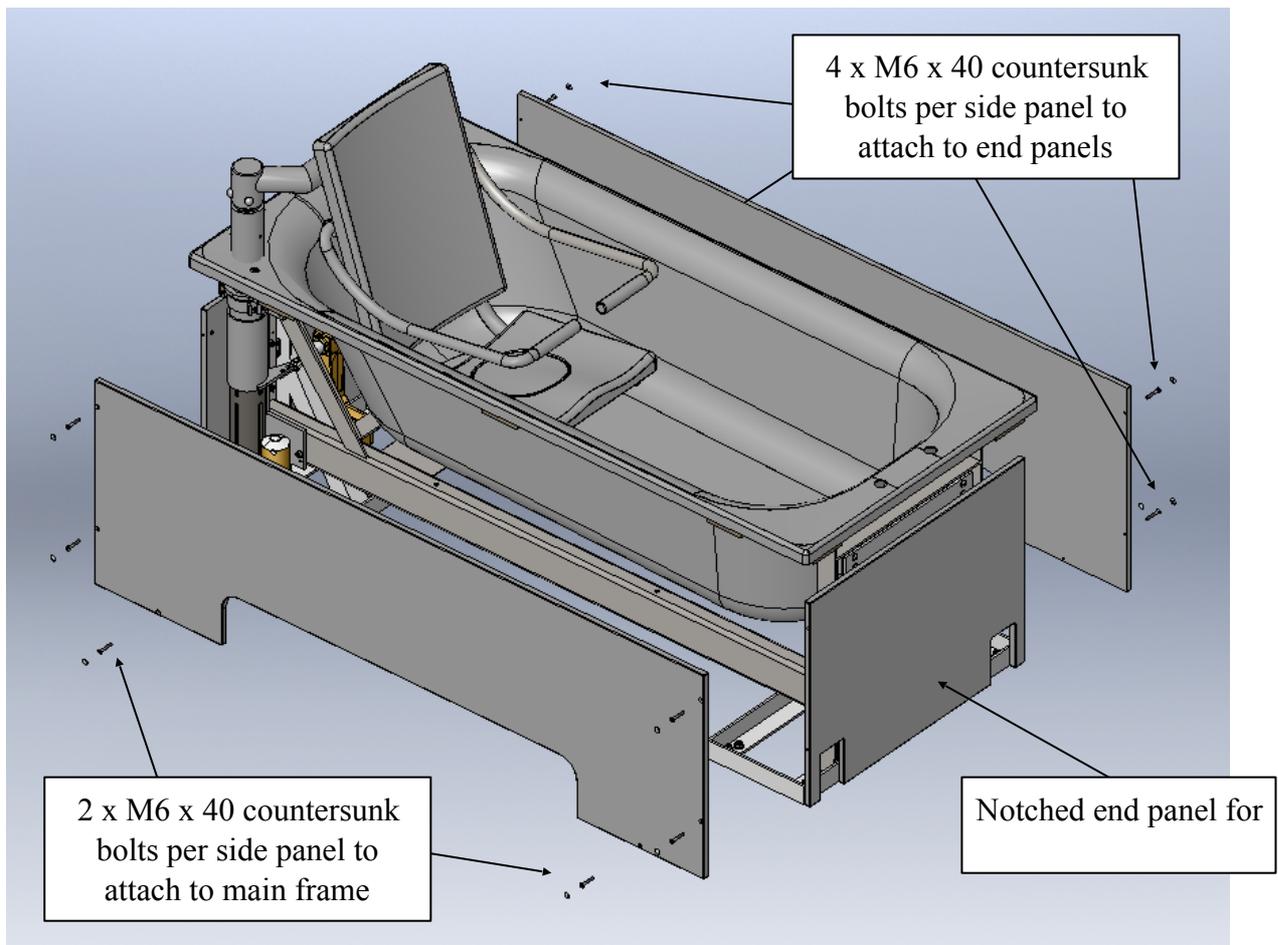
Where pipe-work and fittings have been supplied it is important to check that all connections are tight and secure before connecting the water supply, as these may have loosened during shipping.



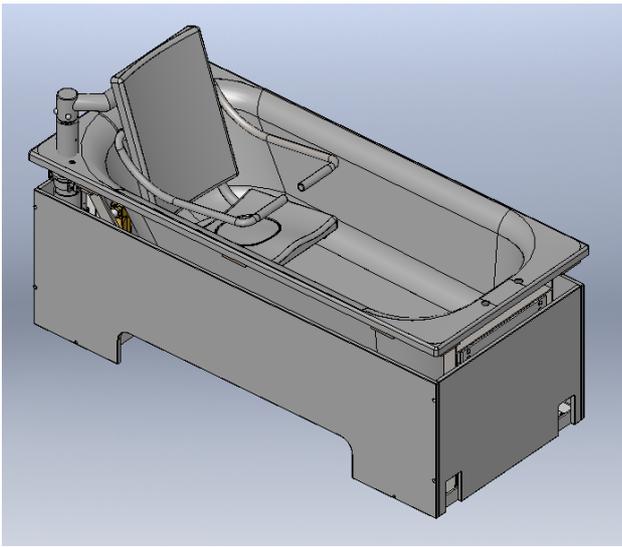
If pipe-work is not supplied, or the installation is modified, it is important to ensure that the above layout is maintained, with generous pipe loops to ensure that the pipe-work is not under any strain during raising and lowering of the bath. These should be positioned in the space along the side of the bath, between the bath wall and the panels.

### **Panel Fitting and Final Finishing**

1. The inner fixed panels must be fitted to each other first. Once the bath is in place and fixed to the floor, the inner fixed panels should be placed around the bath as shown, ensuring that the notched panel is at the correct end for plumbing services, normally the opposite end to the seat:-

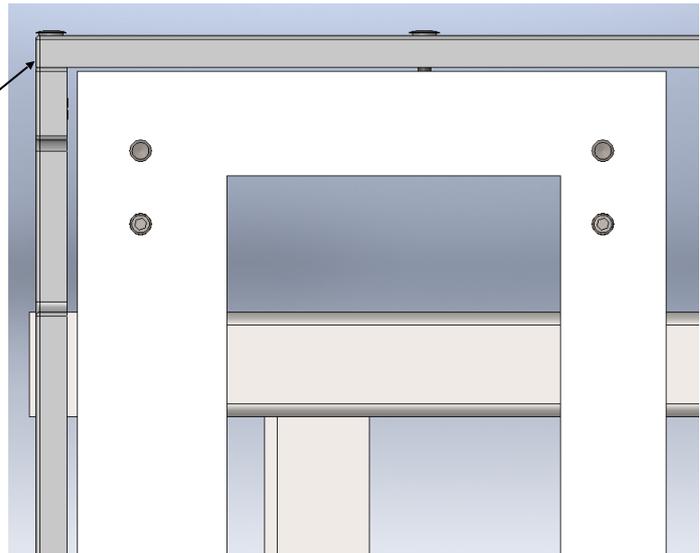


2. The side panels can now be attached to the end panels. These are secured with 4 M6 x 40 countersunk bolts per side panel, which screw into the threaded inserts located in the holes in the sides of the end panels. As these bolts are tightened ensure that the end of the front panel is flush with the face of the end panel, and that the top faces are also aligned. These are finished off with a white cap which pushes into the hexagon socket of the screw.

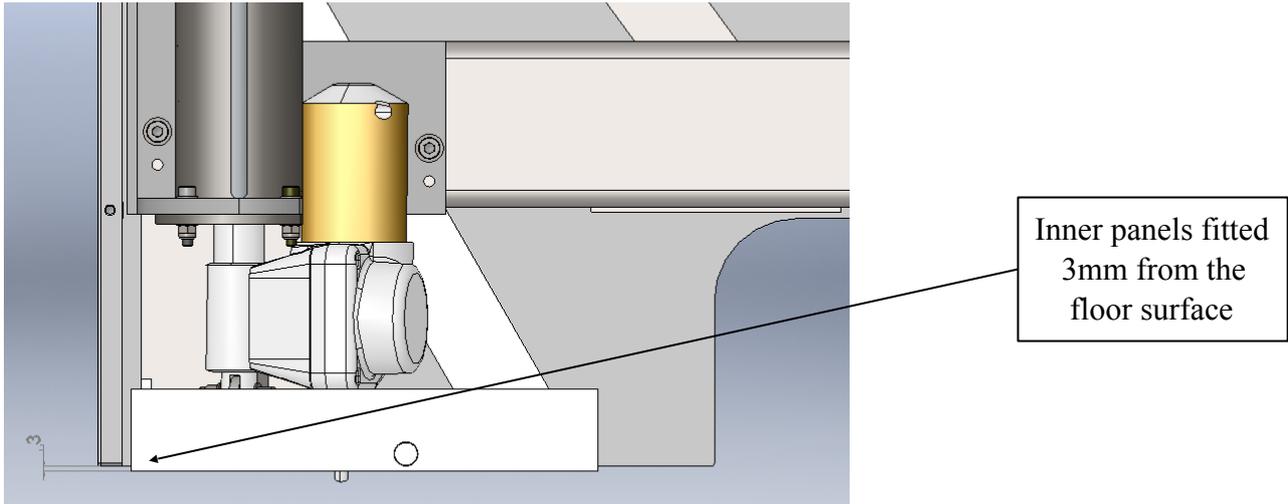


Side panels fixed to end panels

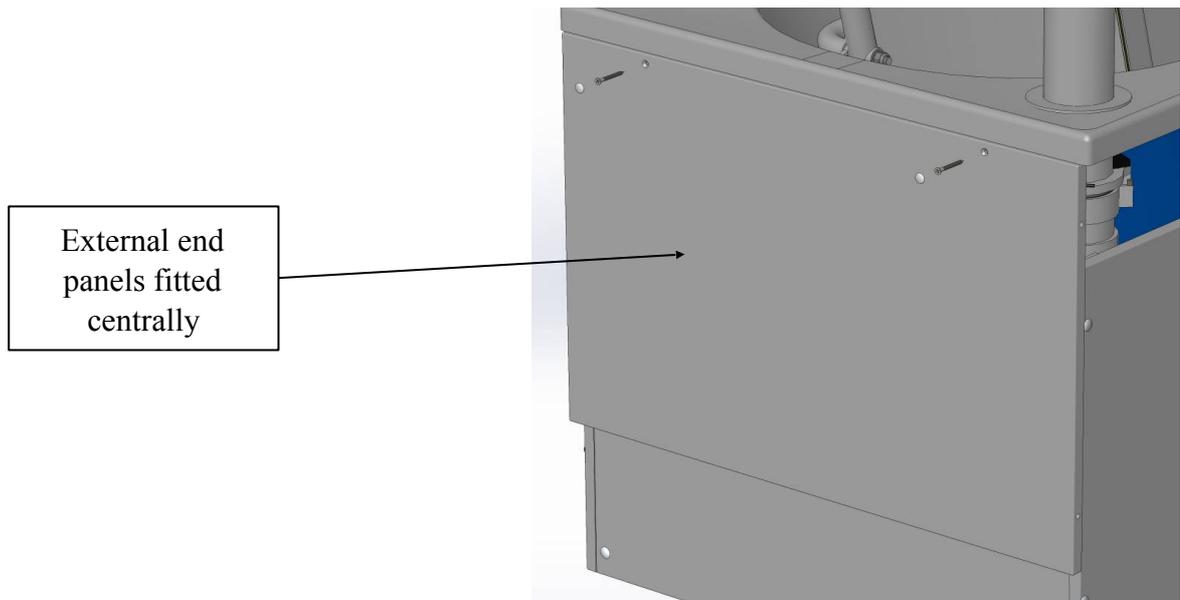
End of panels flush

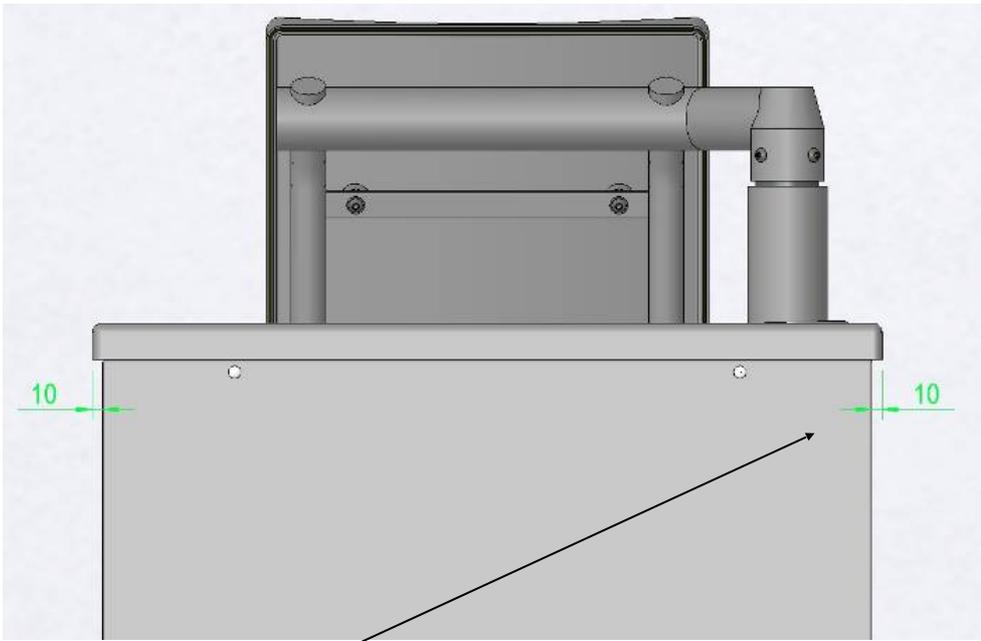


3. Once the panels are attached to each other (effectively creating a box around the bath), the complete inner panel assembly can be secured to the main framework using 4 M6 x 40 countersunk bolts (2 per side panel), which screw into the threaded holes on the bottom frame of the bath. As before, these are finished off with a white cap which pushes into the hexagon socket of the screw. **There should be a gap of approximately 3mm between the bottom of the end panels and the floor.**

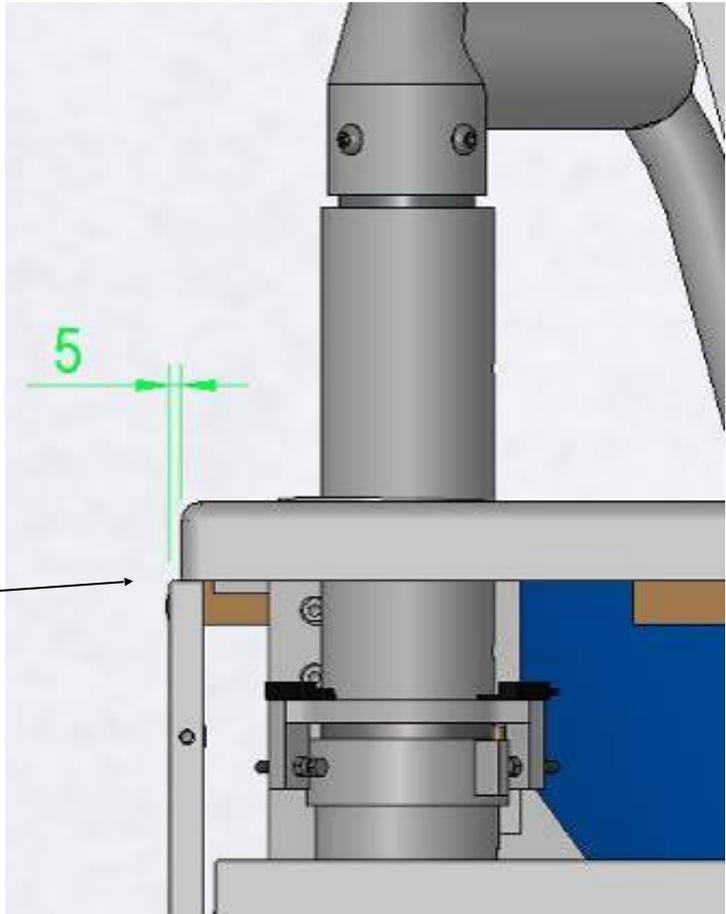


4. With the fixed panels in position, the external bath panels (which raise and lower with the bath) can be fitted. The end panels must be fitted first. Each end panel is fixed to the bath using countersunk woodscrews (#8 x 1 3/4"), which screw into timber strips fitted under the rim of the bath. When fixing these panels it is important to ensure that the panels are pushed tight up against the rim of the bath, and are located centrally to the end of the bath. When fitted properly there should be a 10mm gap between each end of the panel and the front/rear rim of the bath, and the panel should sit 5mm in front of the end of the bath. Each screw is finished off with a white cap which pushes into the cross-head of the screw.





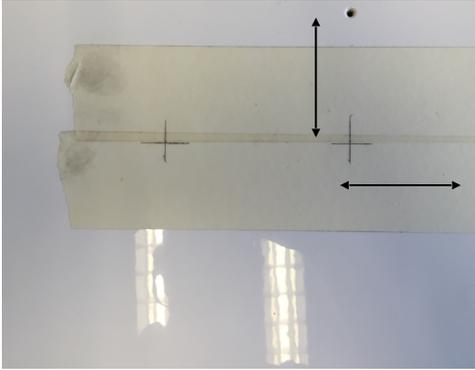
10mm gap  
between panel and  
front face of the



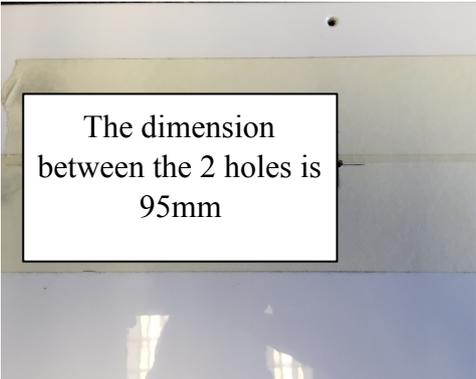
Panel protrudes

5. Before the remaining front panels can be fitted, decide upon the most convenient position to mount the supplied handset handle. It will be easier to mark out this position onto the required panel before it is attached to the bath. Once selected, use masking tape to protect the panel before marking the positions for the holes. The example below shows the dimensions recommended, however, these can be amended to suit the end user. Drill out the positions using a 4mm drill, drilling from the face side to ensure that the vinyl covering is not damaged. Attach the handle using the screws provided

6.

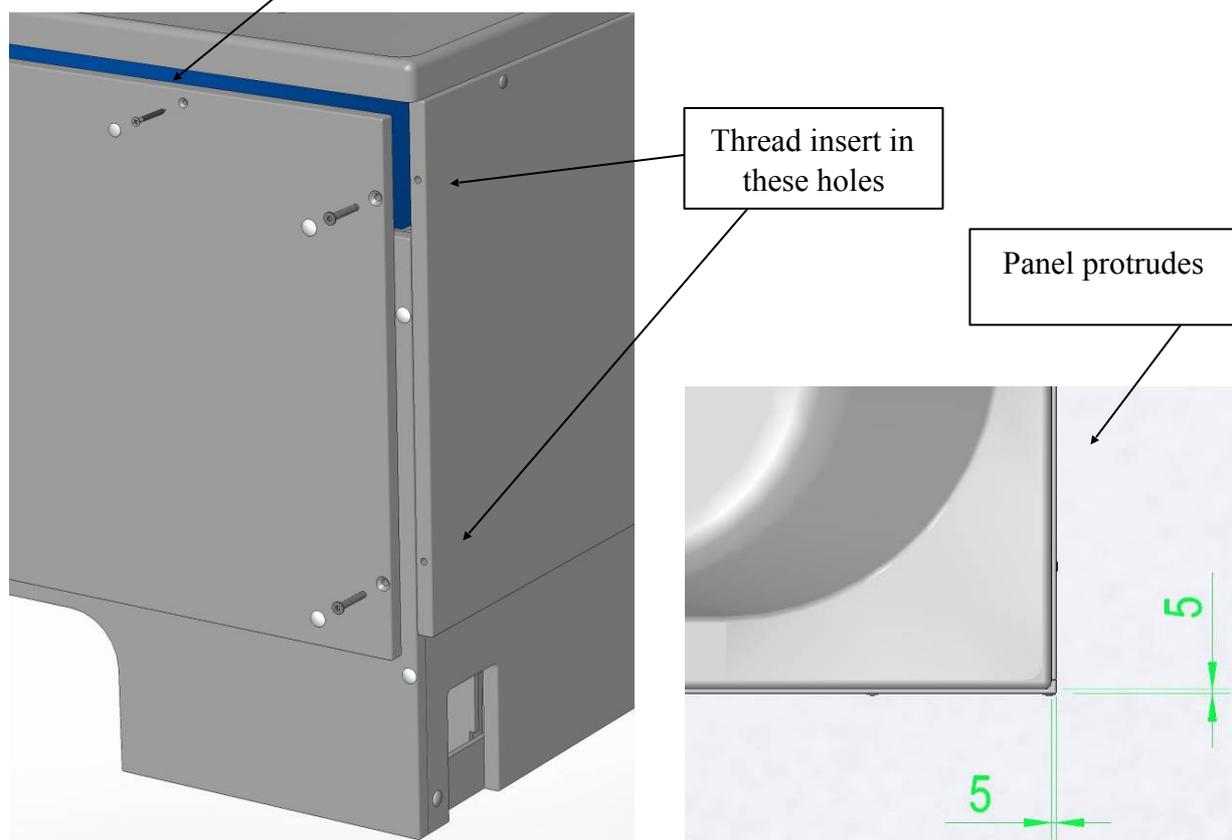
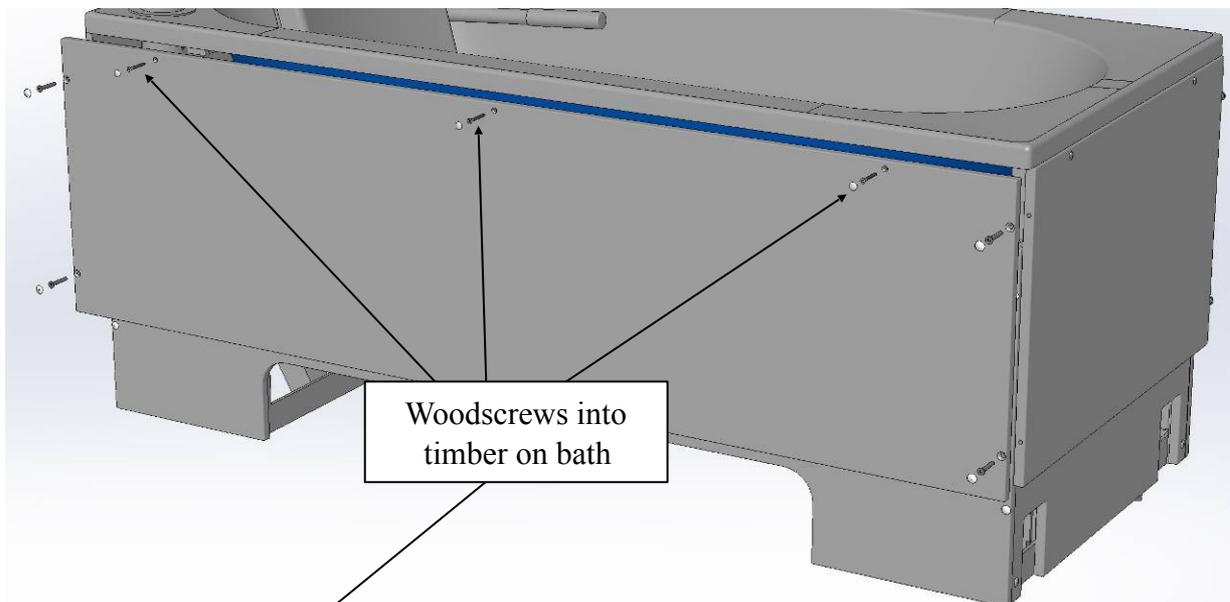


The dimension to the first hole can be 80mm from the top

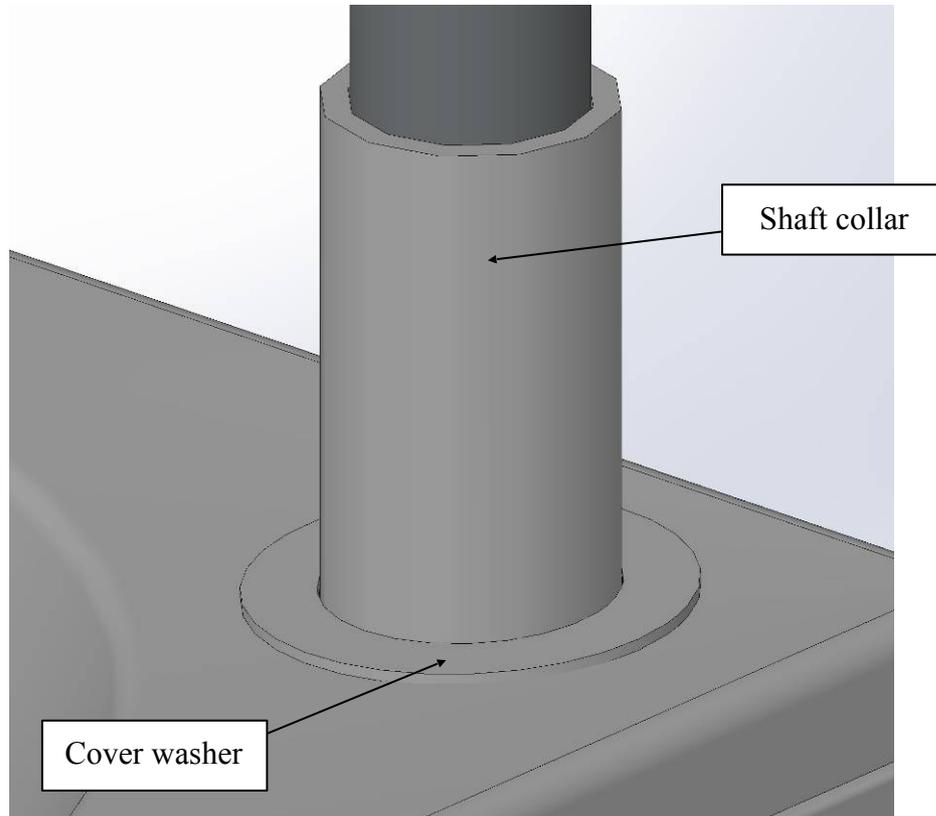


7. With both of the end panels fitted, the front and rear panels can be fitted. Firstly, these can be fixed into position by attaching them to the two end panels. This is done using the supplied M6 x 40 countersunk bolts, which screw into the threaded inserts located in the holes in the sides of the end panels. As these bolts are tightened ensure that the end of the front panel is flush with the face of the end panel, and that the top faces are also aligned. The bolts are finished off with a white cap. The panels are now further secured to the bath using countersunk woodscrews (#8 x 1 3/4"), which screw into timber strips fitted under the rim of the bath. It is important to ensure

that the panels are pushed tight up against the rim of the bath before fully tightening. These screws are again, also finished off with a white cap.



8. To provide the necessary seal to the seat mechanism through the bath, the covering washer should now be secured in position using white silicone. Lift the washer and ensure that a good seal is achieved between the bath and the white shaft collar. Then using a small amount of silicone to secure it, push the washer down carefully and hold into position. Silicone can also be used around the cover washer to provide a neat finish.



9. Further silicone can also be used, if preferred, around the joint between the rim of the bath and the panels for a neat finish.
10. The bath is supplied with one CE label attached to the bath frame. In order to allow the information to be visible, attach the 2<sup>nd</sup> supplied CE label to one of the four external bath panels, in a convenient and neat place.

