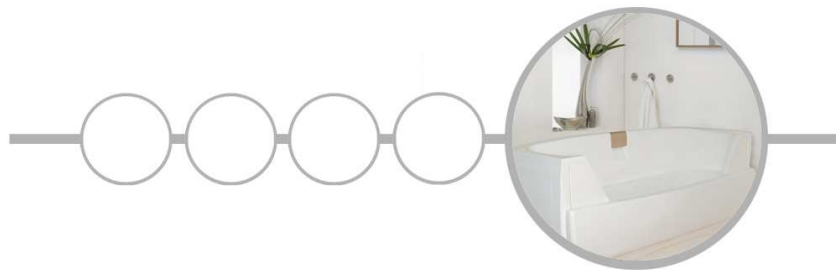




Pre-Installation Services + Installation Requirements

Kingkraft Lifestyle Bath

Please read very carefully before commencing.
If in any doubt, please contact Kingkraft Ltd.



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PLEASE READ CONTENTS VERY CAREFULLY PRIOR TO COMMENCING

Please contact Kingkraft to confirm the issue number on the front cover is current and the information provided is relevant to the unit supplied. (Deliveries after 1/4/08)

This booklet describes the ideal conditions to which a site should be prepared prior to the installation of the Lifestyle Bath.

The bath is intended to be used for assisted or independent bathing and should only be installed by competent individuals. The bath may incorporate lifting mechanisms, pumps and other electrical items and will normally have thermostatic mixer valves. These will require careful setting and subsequent maintenance.

At any stage, Kingkraft can provide telephone advice and a full commissioning service following installation by others. Kingkraft also offer a maintenance service. Please call the company for details. If requested Kingkraft will also undertake a pre-delivery site survey and offer advice.

THROUGHOUT THIS PRE-INSTALLATION GUIDE A 'LEFT HANDED BATH' IS SHOWN. IF A 'RIGHT HANDED BATH' IS SPECIFIED, MIRROR THE ENCLOSED IMAGES.

General Information

The Lifestyle Bath features either a powered raise / lower function or may be a fixed height version. It has one side which opens and slides down fully to allow the bath to be easily accessed.

With the door in the fully down position it can be used as a changing table, or allows different methods of transfer into and out of the bath.

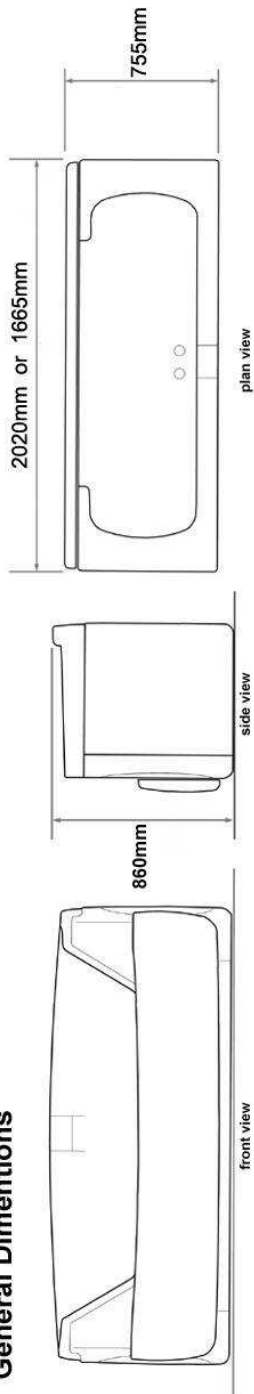
The bath can be supplied with either on-board fixed temperature mixer valves or a adjustable digital mixing valve for the bath fill and shower option. One valve controls the water temperature to the bath fill spout and the other controls water temperature to the on board shower.

The bath can be provided with waterproof cushions to cover the base, side or other parts of the bath if required. Removable supports can be supplied to suit the needs of the individual bather.

An Example Lifestyle Bath:

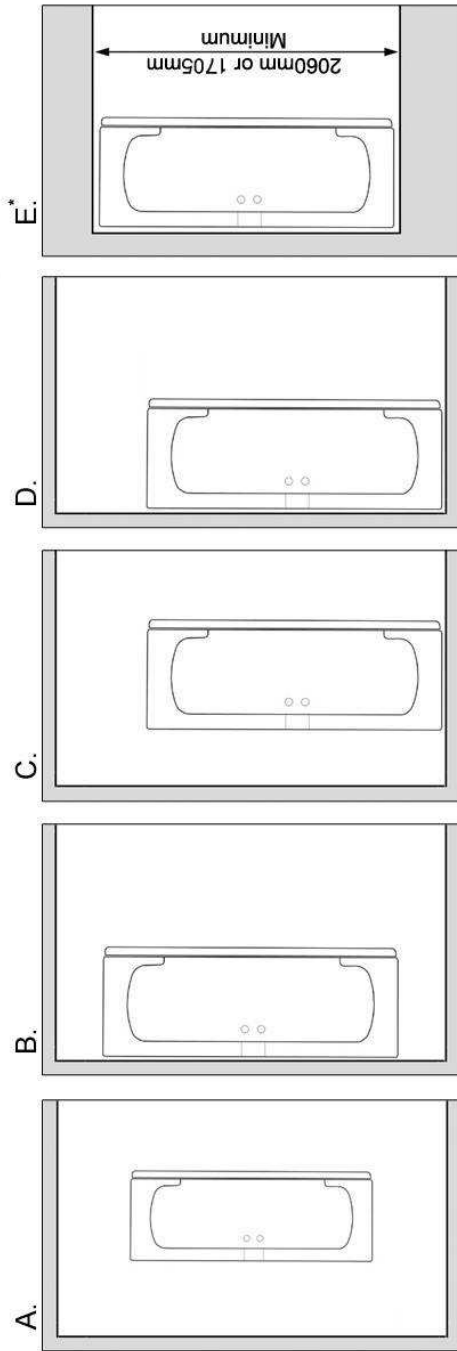


General Dimensions



Possible installation positions within a room: (Dimensions in mm)

The bath can be installed in any of the following positions:



*NOTE: Position E:
Dependent on door way position and enough 'turning' space to move the bath into the required room and final location. Engineer site visit advised.

Pipework

Templates are provided in an adhesive pack at the back of this guide for the careful positioning of the water supply pipes and the waste pipes. These are to scale 1:1. These templates **MUST** be used. (Please contact Kingkraft if another copy of a template is required) **Do not use jointing paste, only PTFE tape if required.**

Hot and Cold supplies should be preferably through the floor (shown below) - use Template 'A'. For wall mounted pipes, use Template 'B'

Hot + Cold Water Supplies

- 1 x 150 mm high, 22mm copper pipe for hot water + Isolation valve attached + Earthing wire.
- 1 x 150 mm high, 22mm copper pipe for cold water + Isolation valve attached + Earthing wire.
- Earth bonding point

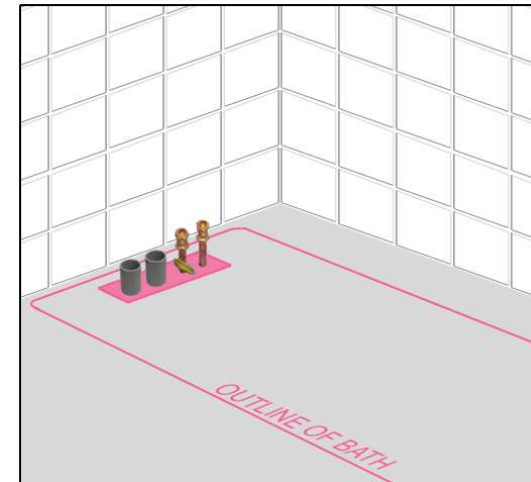
If different diameter pipes are used, the bath fill rate will alter. See later for information on flow rates and pressures.

Drainage / Waste Pipes

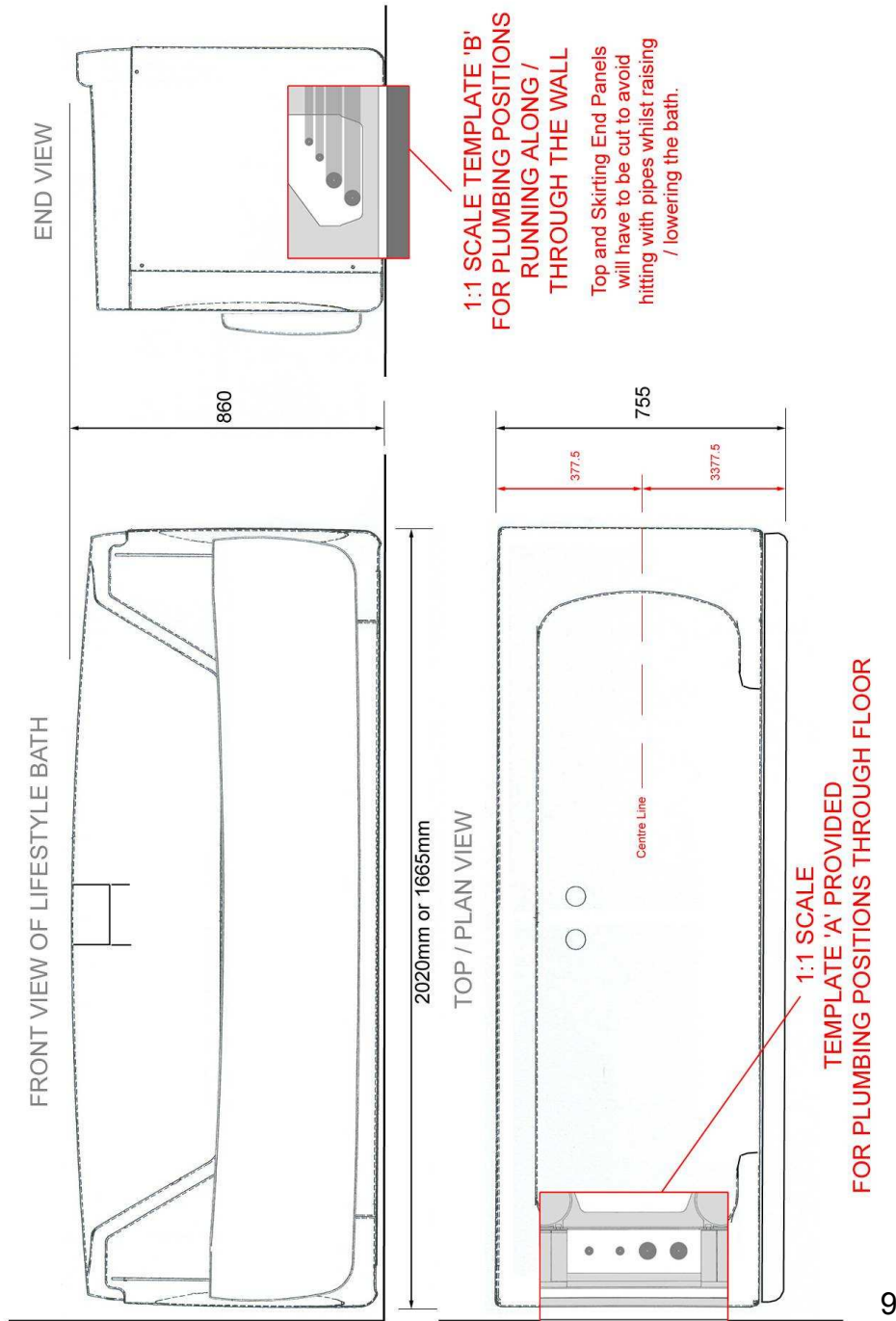
The Lifestyle bath is supplied with a twin waste system as standard. The drains pass through on-board bottle traps connected to 40mm flexible drain hoses with a sleeve fitting. **Two separate rigid 40mm tails should be provided**

These rigid waste fittings must be **glued together** - not using the 38mm push-fit type. They must be **no more than 6" / 150mm high**.

A 'Peninsula' 'Left Handed Bath' layout shown below:



Pipework Positioning Templates - See rear of booklet:



Panels

Please note the bottom skirting and rear and side top panels may have to be cut out to allow clearance for pipework to enter under the bath if the hot and cold supply and waste pipes are not located under the bath.

Water Supply Regulations

Depending on the nature of the establishment where the bath is to be used, UK water regulations stipulate certain conditions of supply. It is understood that the bath might be classed by the water authorities as either a Category 3 fluid container (typically if used in a private domestic dwelling) or a Category 5 fluid container if used in a medical multi-user environment (e.g. Hospital). The categorisation is important. If the installation is a Category 5, the local water provider should be informed in advance of the installation by the person responsible for the installation and a regulation air gap must be included in the cold water supply. The air gap is to prevent back siphoning down the shower hose.

Kingkraft can supply a Category 5 back siphonage protection system for the shower. This is an optional extra and would have to be wall mounted next to the bath. Please contact kingkraft regarding this option.

By definition, a category 5 installation cannot be supplied via a Combi-Boiler. If there is any doubt as to the nature of the installation, please refer to your local water supply authority.

If the installation is for a Category 3 container, back siphoning will need to be adequately prevented by the provision of the twin non-return valves. (Not supplied as standard with the bath)

A standard Lifestyle Bath has a volume of no more than 230 litres. Your local water authority should be able to advise you on the likely categorisation of the bath in your particular establishment.

Water Supply Requirements

The bath may be used if required as an easy access bath. The bather enters through the open bath side and the bath is subsequently filled, after the door has been closed, with water mixed to a safe temperature by the mixer valve. In order that the bather does not become cold, the bath is designed to permit high flow rates (although they may work with low flow rates, when the fill time will of course be longer). Depending on how the bath is to be used, it is therefore important to establish that there is sufficient flow available.

Typical high flow rates are 20 litres per minute, low rates are, say, 5 litres per minute.

The mixer valves provided together with the necessary non-return valves cause restrictions that reduce flow rate still further. If high flow rates are available then it is preferable to pipe supplies in 22mm. (Combi-Boilers require 15mm pipework, and will generally fill quite slowly).

Consideration may need to be given to providing a pumped supply to the bath if flow rate is likely to be an issue. A minimum head of water of 4 metres is preferable to potentially avoid the need for a pump. (Combi-boilers or mains supplies cannot be pumped) A competent plumber should be able to advise the best option.

In addition to adequate flow rates, the incoming water pressures must ideally be in a ratio of 5:1 cold to hot, for on-board valves and 2:1 or equal pressures for the digital mixing valves, with no tendency for air locks and with a nominal hot temperature of 55°C or higher. The mixer valves will need to be set up and checked at commissioning to mix the incoming water to supply controlled water at 43°C to the bath and 39°C to the shower.

If the bath is being used in continuous cycles, adequate hot water storage must be available. A standard Kingkraft bath is 230 litres in volume. Please check if you are in doubt.

Mixer Valves

There are two options available for mixer valve assemblies. These are 'on-board' valves or a 'Digital Adjustable Mixer Unit'.

Please check which type you have ordered and refer to the following appropriate instruction sections.

Two non-return valves and in-line filters must be fitted between the ballofix type isolation valves fitted to the supply pipes and inlets of the mixer valves.

Digital Adjustable Mixer Valves

The hot and cold water mixer unit is mounted underneath the bath unit and the control panel either mounted remotely from bath, for example on an adjacent wall or on a bracket attached to the bath.

The mixer valves are set to maximum and minimum temperatures and then the user can vary the temperature between these using an infra-red sensing control unit. Please discuss with Kingkraft the positioning of the control panel if mounting on the wall next to the bath. This must not interfere with the bath or the moving side when raising / lowering.

Nothing should be wall mounted above the bath that can cause a risk of trapping as the bath traverses upwards.

Example of Digital Adjustable Mixer Valve and Control Panel:



On-board Valves

Mounted within body of bath.

If the on board valves are specified, the temperatures can not be adjusted once set (except by recourse to Allan Key adjustment by a qualified engineer)

Example: On-Board Valves Assembly, attached within the body of the bath:



The mixer valves will need to be set by a competent individual once installed and regularly maintained thereafter. Should the flow rate and / or pressure of the supply alter, the valves may need to be reset by a Kingkraft or qualified engineer.

Kingkraft recommend a yearly service (or every 6 months if in a hard water area or a 'high usage' installation)

Electrical Requirements

The room into which the baths will be installed must comply with the latest electrical zoning regulations. These stipulate the minimum distance from the bath to electrical equipment in the room. In addition, adequate ventilation must be provided. A qualified electrical engineer should advise.

Kingkraft will not be able to complete installation / commissioning of a bath unless an *Electrical Installation Certificate (Including Test Details covering the room in which the bath is to be installed)* is issued to the Kingkraft engineer prior to the work commencing. This certificate is normally held by the householder / property owner.

Part P of the Building Electrical Safety Regulations applies to domestic dwellings where persons reside or share a common supply of electricity with a business premise. These regulations are effective from 1st January 2005. At the very least, residential type properties require a confirmation in writing that the installation complies with the requirements of BS 7671.

The electrical low voltage installation for the bath facility shall conform to the following specification. A competent electrician must carry out the electrical installation and be consulted at all times:

1. The supply shall be 240V, 50Hz, Single Phase & Neutral on a fused spur.
2. The supply shall be protected by a suitably rated RCD with a 30mA trip and shall be of a dedicated type, i.e. supplying the bath installation only. (Not supplied with bath) A suitable isolation switch (not supplied) must be included in a suitable location within sight of the bath.
3. The supply shall terminate at an agreed position nominally 200mm above floor level *preferably* at the "non drain" end of the bath. If this is not practicable then other locations will be considered. The water ingress risk must be minimised when considering other locations.
4. The supply shall terminate in an enclosure of IPX5/6 rating; the enclosure shall have facility for "glanding off" using waterproof compression glands to preserve the IPX5/6 rating of the installation. (Not supplied with bath)
5. The Enclosure shall be 100mm x 100mm x 50mm in dimension. Armoured cable is to be used with mains powered lifting frames and whirlpool.

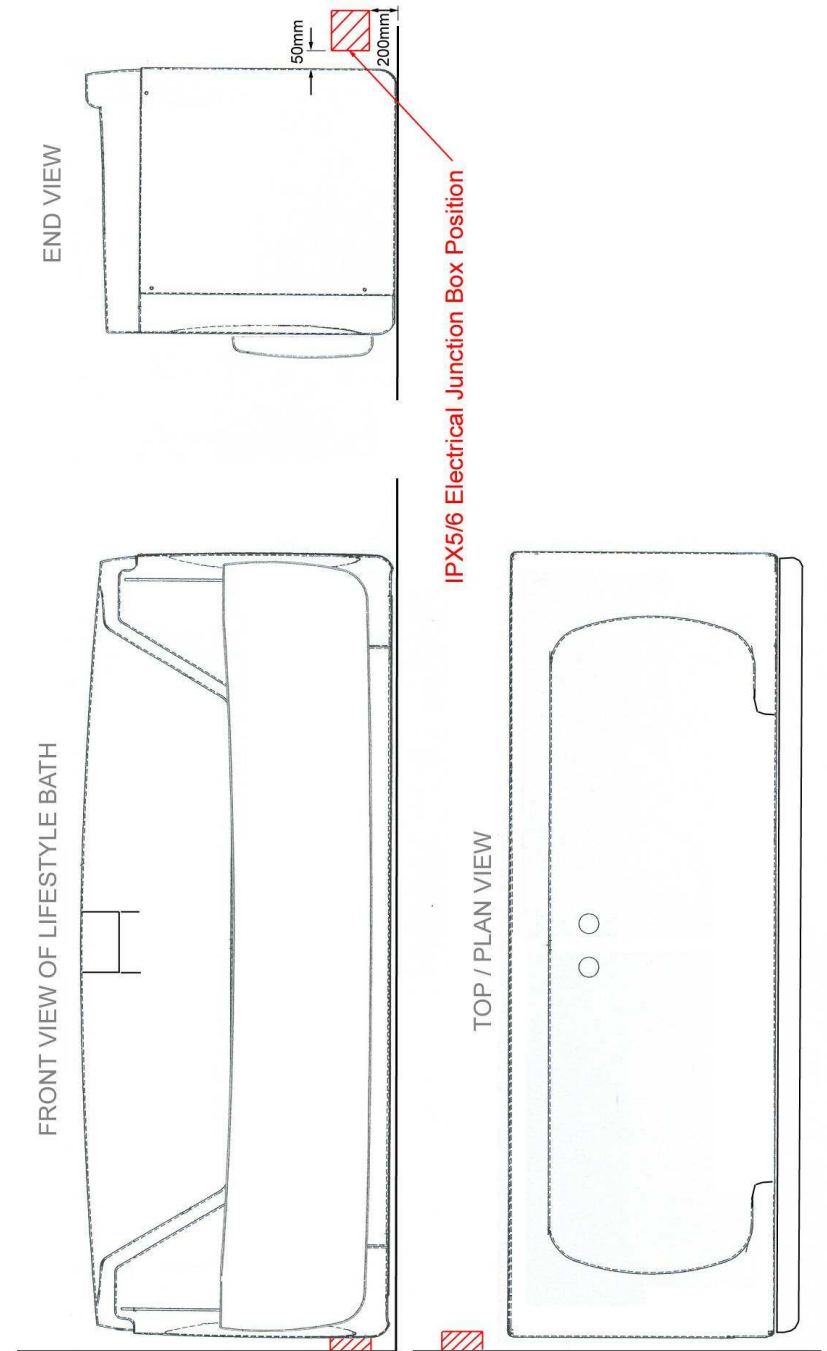
6. The final cable terminating at the bath SELV unit will be armored via the braid protection of the cable; facility shall be left within the enclosure to accept the termination of the armoring as part of the installation earthing system.
7. Accessible metallic parts of the bath and its frame are equipotentially bonded, an earth bonding connection close to hot and cold water supplies should be made available for the installer to connect to the bath frame via a flexible connecting bond.
8. The entire electrical installation shall comply with the requirements of BS 7671.
9. Upon completion of the electrical installation those responsible for checking the Electrical Installation shall issue a copy of the Electrical Installation Certificate (Including Test Details) over to the installer for his records
10. It is anticipated that the bathroom will comply with the Building Regulations 2000 and in particular "Approved Document P" and associated sections. Any departure from these Regulations must be brought to the attention of Kingkraft at the time of tender.

The following pages show positioning for the electrical junction box.

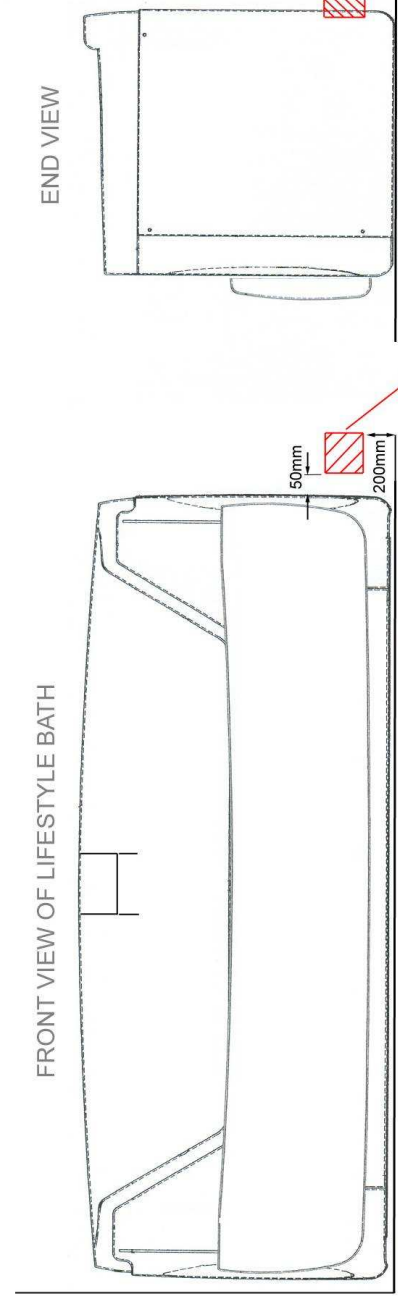
The three positions shown are:

- Peninsula position
- Corner position
- Alcove position

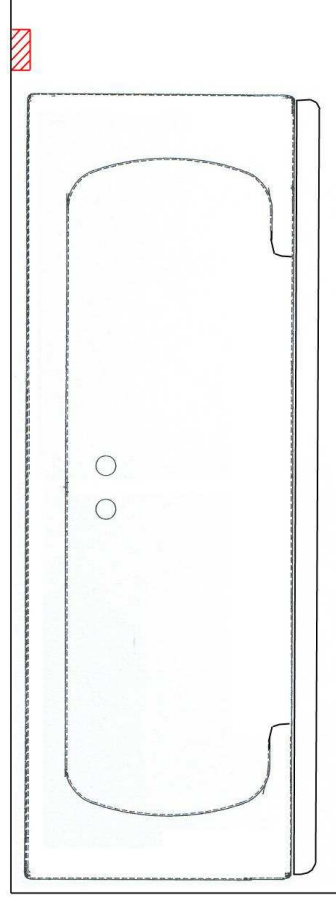
Electrical Waterproof Junction Box: Peninsula Position (Left Hand Bath Shown)



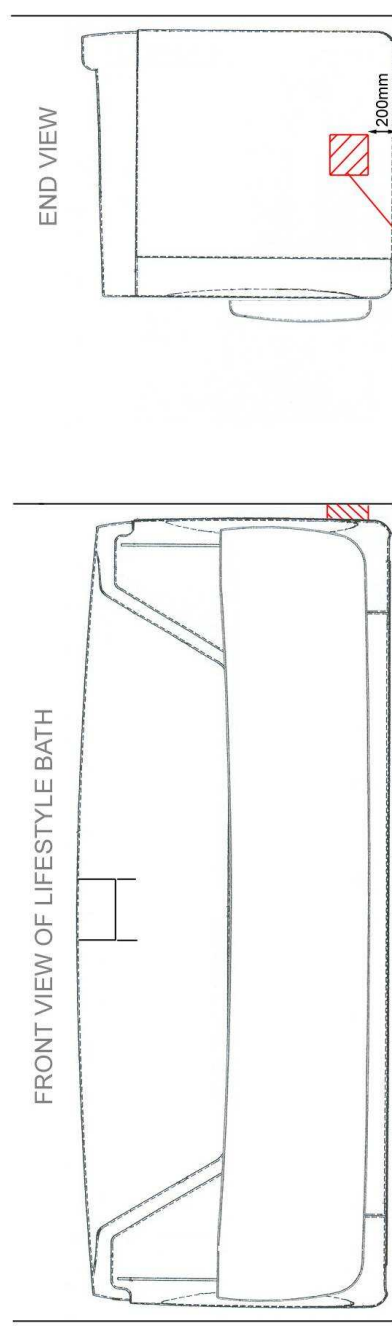
Electrical Waterproof Junction Box: Corner Position (Left Hand Bath shown)



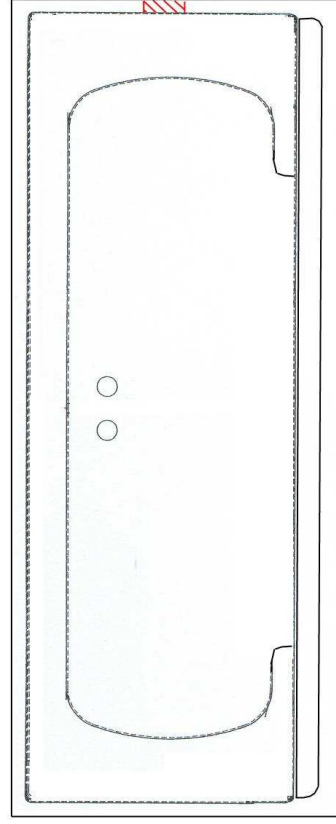
TOP / PLAN VIEW



Electrical Waterproof Junction Box: Alcove Position (Left Hand Bath shown)



TOP / PLAN VIEW



Please ensure only competent individuals undertake the above work and remember at all times to consult Kingkraft if there is any doubt. Kingkraft Engineers are able to carry out pre-installation site surveys depending on location, check over any work done following installation of the bath, and provide a full commissioning service and certificate.

This is the recommended course of action.

PIPEWORK TEMPLATES

