



Pre-installation and installation guide

Kingkraft Assist Basin

Please read thoroughly before installation of this product.



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Installation Instructions

These are recommended installation procedures for the Kingkraft Assist Basin, mains powered. Please note, special manufactured versions of the basin may require different or extra procedures and may differ from herein.

These instructions form recommended guidelines for installing the above equipment and should be referred to before and during the installation of the basin. Further copies are available from Kingkraft.

The basin is normally supplied as standard with a thermostatic mixing tap to control the supply of hot and cold water to the basin.

The below must be adhered to prior to install of this basin:

- If a thermostatic mixing valve has been included to limit the hot water supply temperature, this must be set up correctly or else could be a danger of scalding.
- This basin requires an electrical supply to allow it to be height adjustable; the supply must be installed by a competent electrician to the latest standard for electrical installation in bathrooms. (further information on requirements can be found later on this manual)
- The sink is designed to be height adjustable. This must be installed in such a manner as to allow free movements through the whole of its travel without straining any connected pipes or wires, or colliding with other objects.

Kingkraft can provide telephone advice or site visit if needed. We always recommend that installation is carried out by a Kingkraft engineer.

Components Variations / Specifications

The Assist variable height basin is normally supplied as separate components for assembly on site. These components may include the following:

Mounting frame: This is used to position the sink, mark out the fixing positions and fix to the wall before 'hanging' the main framework off these same fixings. The base of the main frame should be 'sat' at the same time onto the mounting frame so the load is transferred down through the legs.

Main frame including mechanism and basin: This incorporates the variable height mechanism, safety mechanisms, the Corian basin and surround and electrical boxes. This mounts onto the mounting frame, using the initial four fixings into the wall.

Pipework: 15mm hot and cold supply pipework from the basin down to floor level for connection is supplied. The copper pipes are fixed to the inside behind the frame and then flexible hoses are connected to the thermostatic tap connections. A flexible waste hose from the basin, down to a low level connection elbow is also supplied.

Sink covers: The metal covers shield the frame, actuator and pipework.

Electrical Requirements

The room into which the basin will be installed must comply with the latest electrical zoning / building regulations, a qualified electrical engineer should advise on this. These regulations stipulate the minimum distance from the basin to electrical equipment in the room.

Kingkraft will not be able to complete installation / commissioning of a basin unless an Electrical Installation Certificate is issued to the Kingkraft engineer prior to work commencing. This is normally held by the householder / property owner.

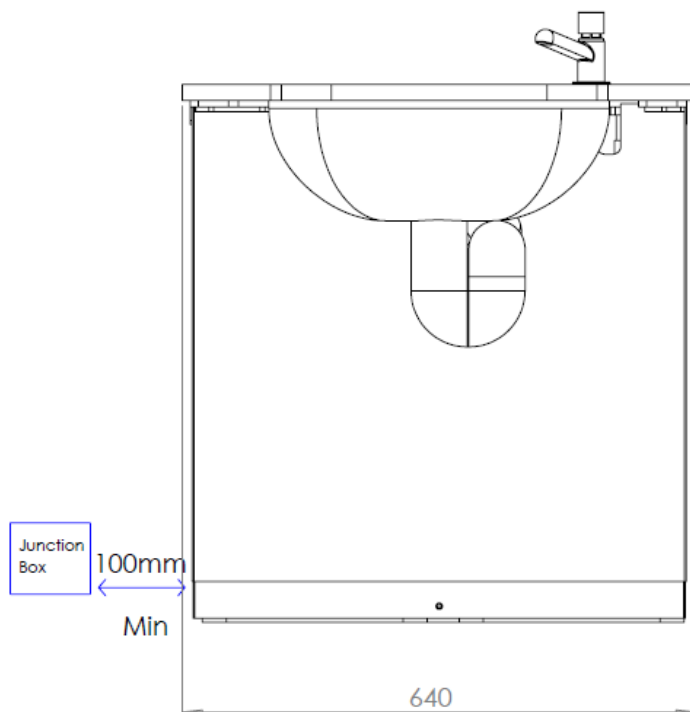
Part P of the Building Electrical Safety Regulations applies to domestic dwellings where persons reside or share a common supply of electricity with a business premise. These regulations are effective from 1st January 2005 at the very least residential type properties require a confirmation in writing that the installation complies with the requirements of BS7671.

The electrical voltage installation for the basin shall conform to the following specification.

- Supply to be 240V, 50hz, single phase and neutral.
- Protected by a suitably rated RCD with a 30mA trip and be dedicated type, i.e. supplying the basin installation only. An isolation switch should be fitted close to / visible from the basin. A 5 amp fuse should be used.
- Supply should terminate in an enclosure of IPX4 or IPX5 rating: the enclosure should have a facility for 'glanding off' using waterproof compressions glands to preserve the IPX4 or IPX5 rating of the installation.
- The enclosure should be 100mm x 100mm x 50mm in dimensions. Armoured cable is to be used (supplied) with mains powered connection from the IP box to the unit.
- The final cable terminating at the basin SELV unit will be armoured via the braid connection of the cable; facility should be left within the enclosure to accept the termination of the armoring as part of the installation earthing system.
- Accessible metallic parts of the basin framework are equipotential bonded, an earth bonding connection close to hot and cold water supplies should be made available for the installer to connect to the basin frame via a flexible connecting bond.

- The entire electrical installation should comply with the requirements of BS7671
- Before completion of the electrical installation those responsible for the electrical installation shall issue a copy of the Electrical Installation Certificate over to the installer for his records.
- 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 time of quotation.

Please note that various safety devices are fitted to the basin which is powered through the variable height mechanisms.



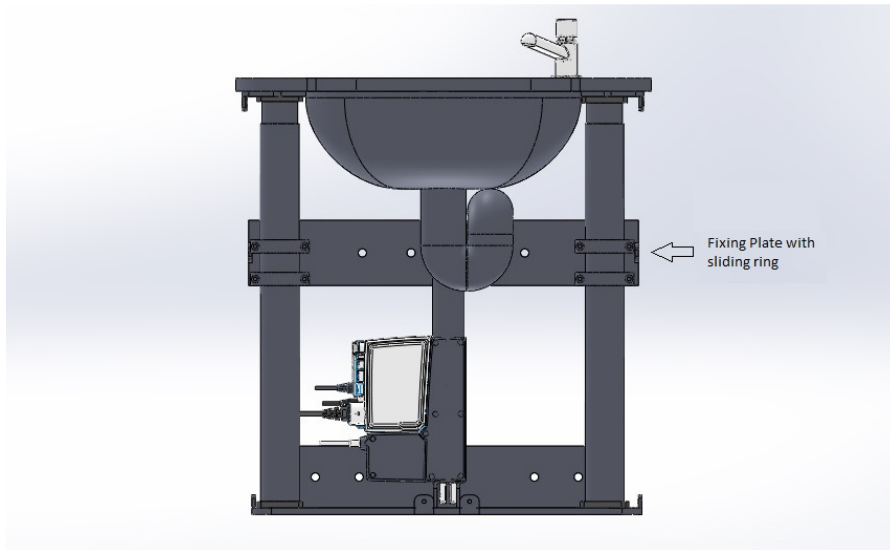
Front View

IP Junction box positioning (preferably on LHD side as shown)

The junction box should be placed at low level at least 100mm away from the moving frame. An armoured cable from the actuator control box should be wired in once the frame has been installed.

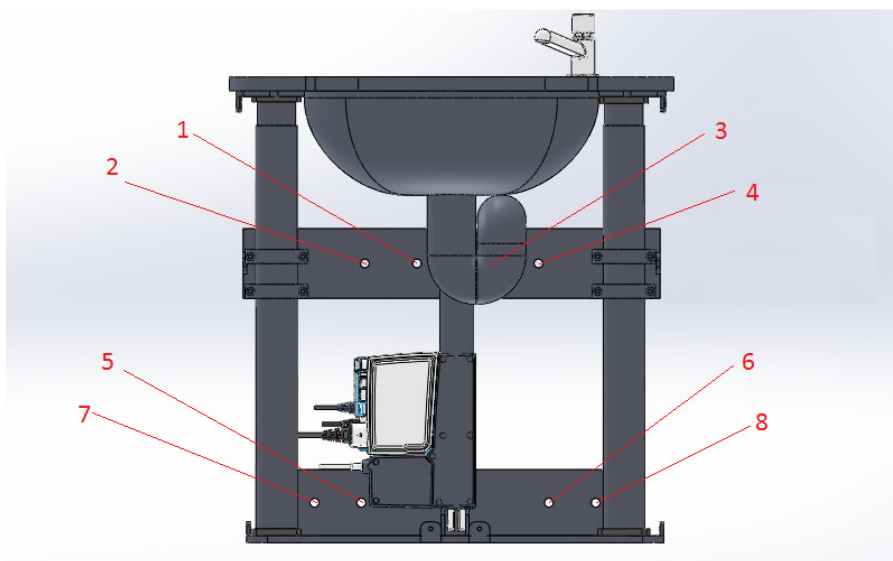
Positioning

Fixing the basin framework to the wall using the mounting plates on the frame.

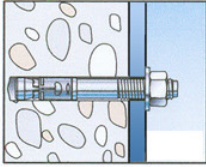


Remove the basin covers if attached and begin installation of the frame.

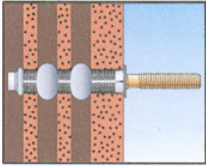
The above picture shows the layout of the fixing plates which are shown in the middle position and the bottom position. The middle plate has some limited up and down movement. This **MUST** be set to the correct height first and tightened before screwing to the wall. Each plate should have a minimum of two bolts/screws anchoring it to the wall, but ideally four in each plate. If a minimum of two bolts per plate is used they must be screwed into positions 2 & 4 for the top plate and 7 & 8 for the bottom plate as per diagram below.



Recommended Fixing Types:



Rawl / Anchor Bolts -
eg. Concrete / Solid Block



Chemical Fixing -
eg. Perforated Brick



Coach Screws -
eg. Wood

The basin is intended to travel up and down. This necessitates locating it in a position where it will not touch surrounding walls or objects and will not present a hazard to users and carers such as by trapping any body parts against walls or projections (radiators, chairs, ledges etc) The room should be adequately ventilated to reduce humidity and moisture in the air.

The basin must be installed on a flat, load bearing wall. This can be of timber or block / brick construction and appropriate fixings must be used.

The unit is attached to the wall by two fixing plates. The wall plates should be used to position the unit and as the template to mark out the positions of the four fixings. These fixings are not supplied with the unit. According to the type of wall construction you must choose the appropriate fixing. These should preferably be at least M10 bolts / rawl bolts / chemical fixings or large coach screws.

Hold the frame firmly against the wall whilst tightening the fixings. The base of the mainframe should at the same time be 'sat' on the floor completely flat to ensure that downward load is transferred to the floor.

Once the frame is installed, test the up down function using the handset to make sure the basin slides up and down smoothly with no trapping hazards

Having determined the required position of the basin, piping up the supply can begin.

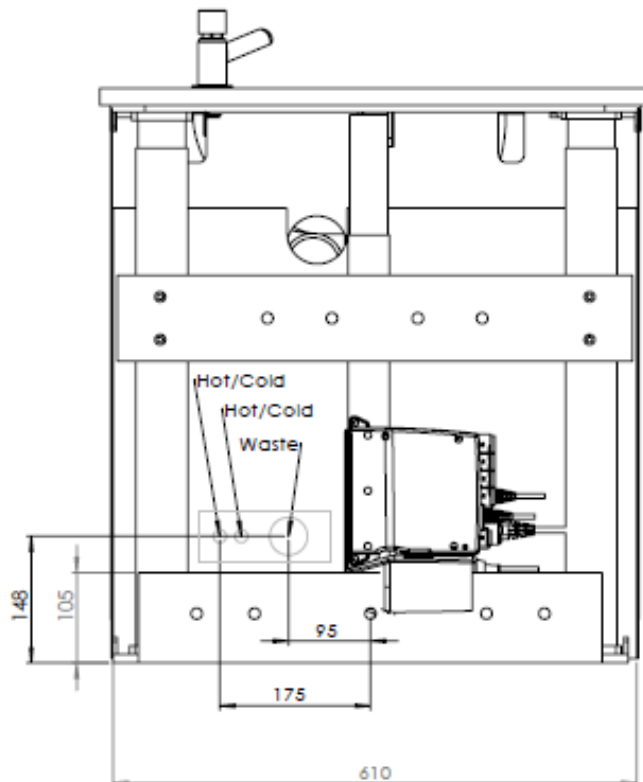
Due to various tap / control options, the routing of pipework can vary. Please contact Kingkraft if you are unsure where to route cables / pipework.

Please ensure all plumbing connections are tightened and test the system for any leaks, preferably if possible before putting on all of the covers.

Thermostatic Mixer Tap

The hot water supply can be sent through a thermostatic mixer valve, mounted within the basin plumbing, to limit the maximum hot supply temperature. This must be set up correctly or else there could be a danger of scalding.

HOT AND COLD SUPPLY AND WASTE PIPE POSITIONING



Hot and cold should be supplied by two 15mm pipes in the position shown on the diagram along with the waste pipe next to it. These are then connected to flexible waste and water pipes which sit within the covers of the sink. The pipes should be cut down during installation to ensure the pipes fit well within the sink. The waste need to be a solvent connection with the basin going up and down.

Once the frame is in position, the flexible water pipes need connecting from the tap to the pipes. Send the basin to its highest position and ensure that the flexible waste pipes are long enough. Install them with the correct fittings and ensure no leaks. Send the basin back down to its lowest position and ensure that the pipes do not kink.

Once the water pipes are connected then install the waste pipe, again, do this with the sink at its highest position and then send the sink to its lowest position to check there is no kinks or snagging.

Installing the Covers –

Once the basin is moving up and down freely and all the pipe work is in place the covers can be installed. Install the bottom panel first by screwing the M6 bolts into the side and front mounting holes, then install the top panel using the top mounting holes, pass the waste hose out of the front waste hole and pass the hot and cold flexible pipes through the top panel gap.

FINAL CHECKING OF THE BASIN

& COMMISSIONING OF THE MIXER VALVES (optional)

- **Check all electrical connections are correct and secure.**
- Check all pipe work joints are correct and secure.
- Check all bolts and pins appear correctly positioned and secure.
- Check for full and free movement of the basin and that this movement presents no danger to the user or carers.
- Check the operation of the safety switches is functioning correctly.
- Check the operation of the taps and waste mechanisms.

Any Thermostatic Mixer valves must be commissioned in accordance with DO8 procedures. These can be found in instructions supplied with the valves. Kingkraft normally adjust the valves to give a maximum 43 degrees C.

Do not attempt to use the sink if these valves have not been installed and commissioned in accordance with the DO8 procedure.

If there is any doubt in the user's mind as to the correct use of the basin then please ring Kingkraft immediately for advice and assistance: (0114 269 0697)