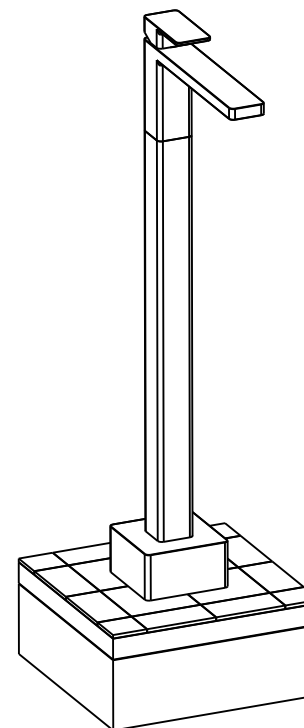




EPIC - FREESTANDING BATH FILLER

PLUMBERS INSTALLATION INSTRUCTIONS



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Important Information

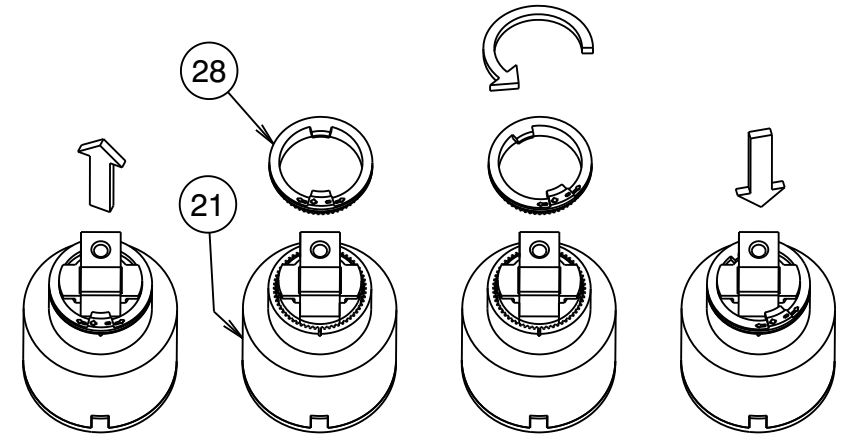
- * Water Service Pipes must be installed in accordance with the requirements of AS/NZS 3500 and relevant building codes.
- * Water Service Pipes for connection to the Hot & Cold inlets of the Mixer must be DN15B BQ Copper Tube to AS 1432.
- * Brazed connections should NOT be made directly onto the mixer, as excessive heat will cause permanent damage.
- * All pipework must be thoroughly flushed prior to installation.
- * Fasteners used to anchor the base of the Mixer to the floor must be manufactured from stainless steel and are the responsibility of the installer as they are dependant on floor type.
- * It is recommended that stop taps be installed in a suitable location to isolate the hot and cold water supply pipes if required.

Special requirements

- * An installation template is available (Product Code SP2138) and must be used to ensure correct installation. The installation template has 3 functions:
 1. To accurately position the DN15B copper water pipes.
 2. To provide a cavity for the Mixer base when installing into new concrete slab.
 3. To act as a tiling guide.
- * Consideration must be given to the position of the installation template in relation to the waste pipe for connection to the bath.

IMPORTANT
<u>Pressure & Temperature Requirements.</u>
<ul style="list-style-type: none"> • Hot and cold water inlet pressures should be equal. • Static inlet pressure range : 150 - 1000 kPa New Regulation :- 500 kPa maximum static pressure at any outlet within a building. (Ref. AS/NZS 3500.1- 2003, Clause 3.3.4) • Maximum hot water temperature : 80°C.
<u>Pipework Requirements</u>
<ul style="list-style-type: none"> • DN15B (Φ12.70 X 0.91) BQ Copper Tube to AS 1432
<u>Installation Requirements.</u>
<ul style="list-style-type: none"> • The installing plumber is responsible for waterproofing all penetrations for Taps on horizontal surfaces surrounding baths at installation by a proprietary flange system or a sealant. (Ref AS3740- 2010, Clause 3.10)

PLUMBERS ADJUSTMENT INSTRUCTIONS



Adjusting the HOT LIMIT RING (ANTI- SCALD STOP RING)

The cartridge fitted in this mixer has been factory pre- set to deliver the maximum available hot water temperature. To use the ANTI- SCALD feature adjust the cartridge as follows:- Carefully remove plug (26). Using 2.5mm allen key (27) loosen grub screw (25) and remove handle (24). (See details Page 14)

To remove the Hot Limit Ring (28) from the cartridge (21), use a small thin flat bladed screwdriver and carefully lever in an upwards direction.

Rotate the Ring (28) in an anti- clockwise direction then refit the Ring (28) onto cartridge (21). **Note:-** Start by rotating the Ring (28) in small increments, then check the hot water temperature with the mixer handle in the fully open maximum hot water position. The Ring (28) can be removed & repositioned until the desired maximum hot water temperature is achieved.

Ensure the Ring (28) is pushed fully down onto the cartridge (21). Fit handle (24), taking care that it is pushed fully down, then tighten grub screw (25) and replace plug (26).

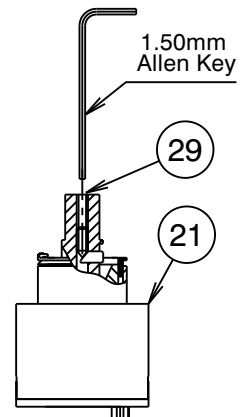
Adjusting the WATER VOLUME LIMIT SCREW

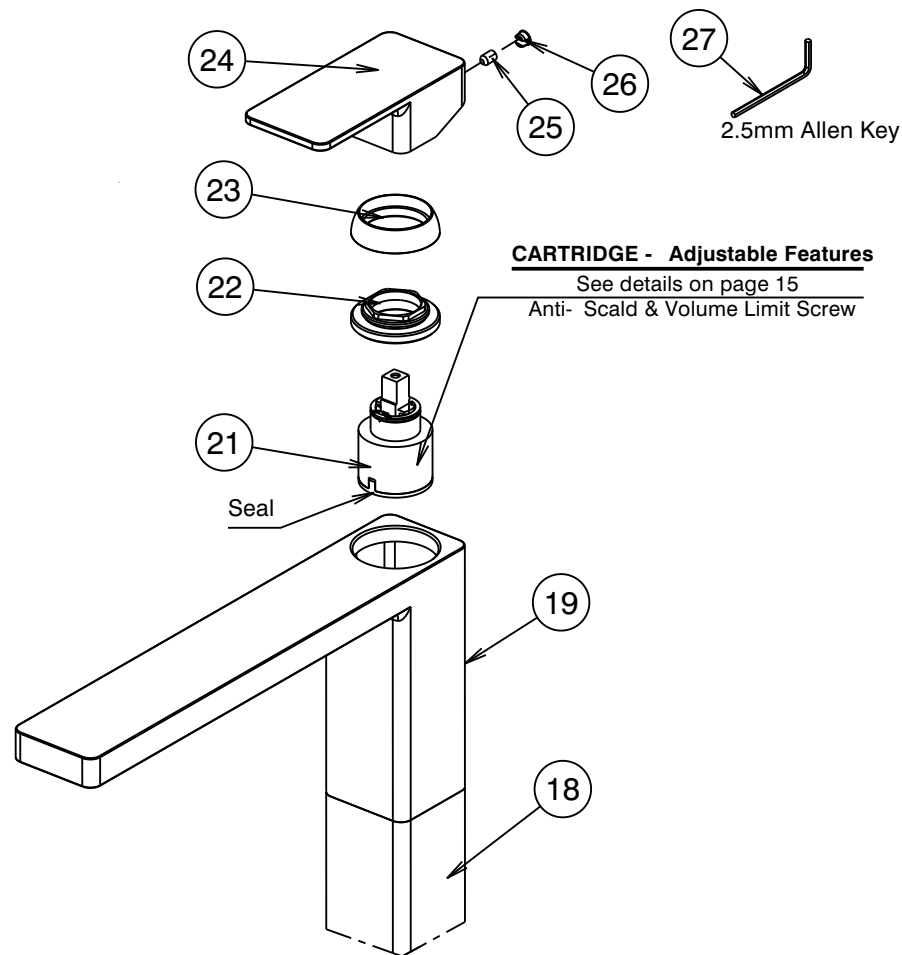
The cartridge fitted in this mixer has been factory pre- set to deliver the maximum flow of water when the mixer handle is in the fully open position. However, the flow of water may be reduced by adjusting the cartridge as follows:-

Carefully remove plug (26). Using 2.5mm allen key (27) loosen grub screw (25) and remove handle (24). (See details Page 14)

Using a 1.50mm allen key, adjust screw (29) in a clockwise direction. **Note:-** Start by rotating the Screw (29) in small amounts then check the flow of water with the mixer handle in the fully open position. Readjust the screw until the desired water flow is achieved.

Fit handle (24), taking care that it is pushed fully down, then tighten grub screw (25) and replace plug (26).



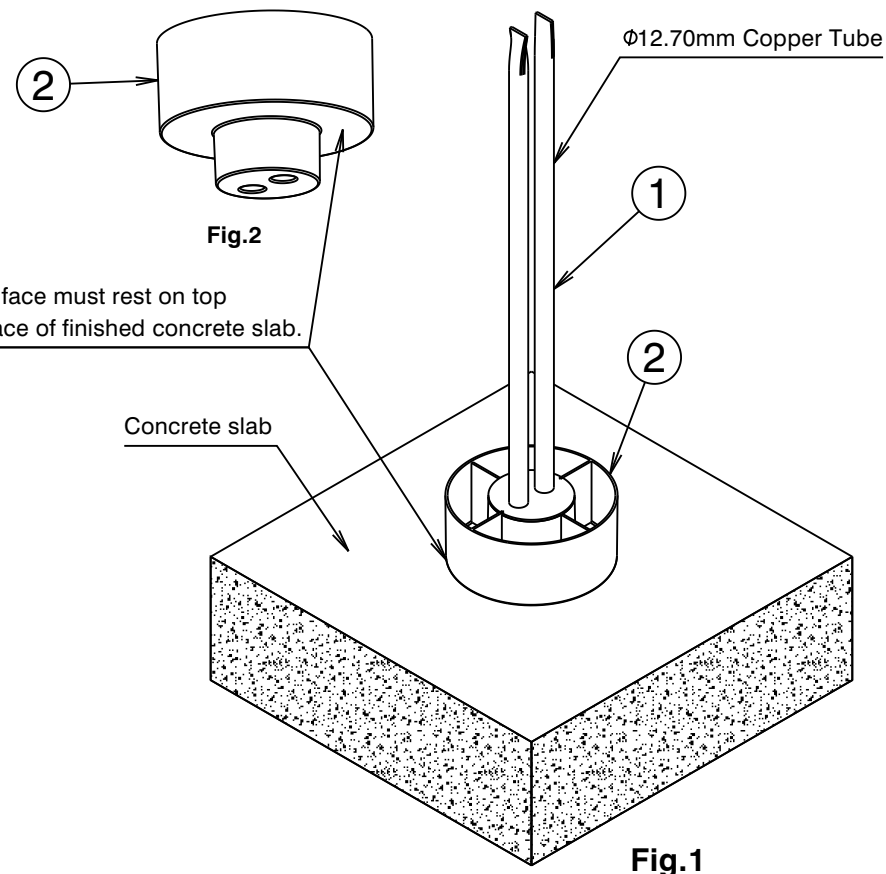


Replacing Cartridge

- 1) Turn off hot and cold water supplies.
- 2) Carefully remove plug (26). Using 2.5mm allen key (27) loosen grub screw (25) and remove handle (24). Unscrew nut (22) and lift out the old cartridge (21).
- 3) Ensure inside face of mixer body (19) is clean. Check that seal is in position in base of new cartridge (21). Fit new cartridge (21) into mixer body (19), taking care that two lugs on base of cartridge (21) fit into mating holes in mixer body (19).
- 4) Screw on nut (22). **Important:** Nut (22) should be tightened to a torque of 10Nm.
- 5) Fit handle (24) taking care that it is pushed fully down, then tighten grub screw (25). Replace plug (26) taking care not to damage the decorative finish.
- 6) Turn on hot and cold water supplies and check operation.

INSTALLATION INTO CONCRETE SLAB

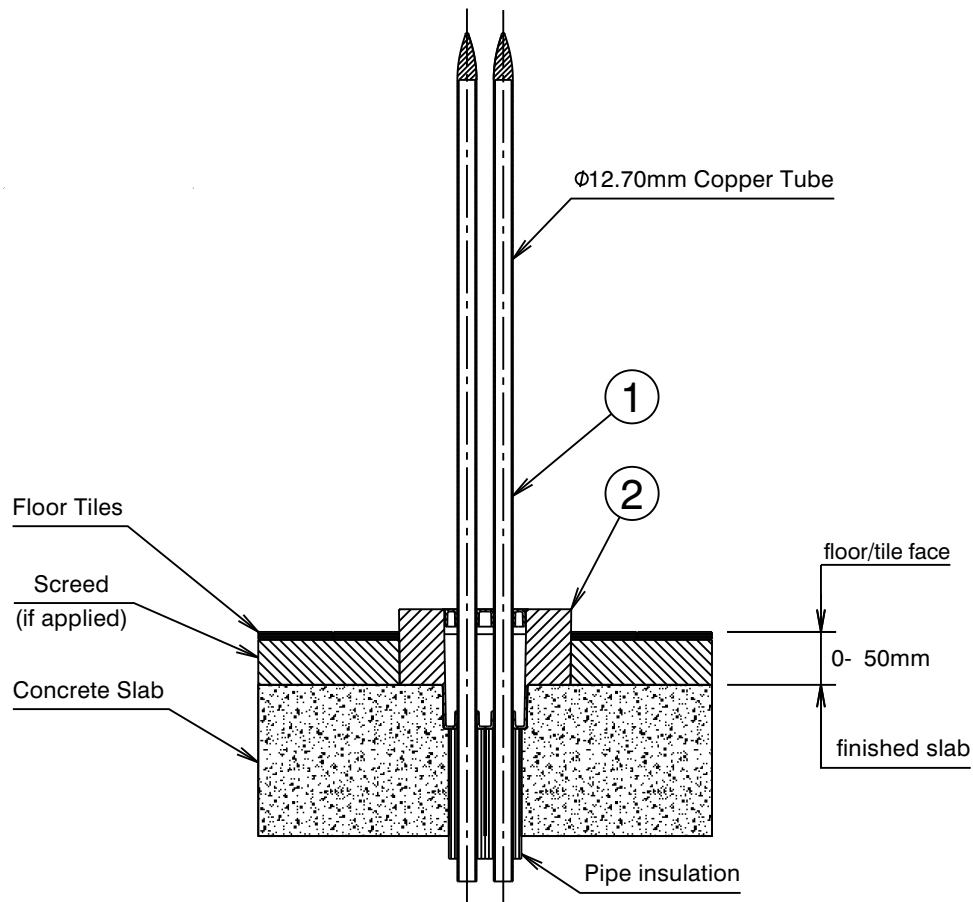
Note: For installation of the mixer onto overlaid timber flooring, go to page 5.



- 1a) Prior to pouring of the concrete slab, install the pipework for hot & cold water supplies in accordance with AS/NZS 3500.1. Slide the installation template (2) over the vertical section of each pipe (1) which will penetrate the slab and position the bottom face (see Fig.2 above) of the template at the approximate finished floor level. Crimp or cap the end of each pipe taking care that heat does not damage the installation template (2). Tag the pipe which will supply hot water for identification later in the installation.

Important :

- * During the concrete pour and prior to setting of the concrete the installation template (2) must be pushed into the slab so that a cavity is formed in the concrete and the bottom face is resting on the top surface of the slab (an allowance must be made to ensure that any pipe insulation does not prevent the installation template from sliding down the pipes to the rest position). The pipes (1) must be at right angles to the surface of the slab.

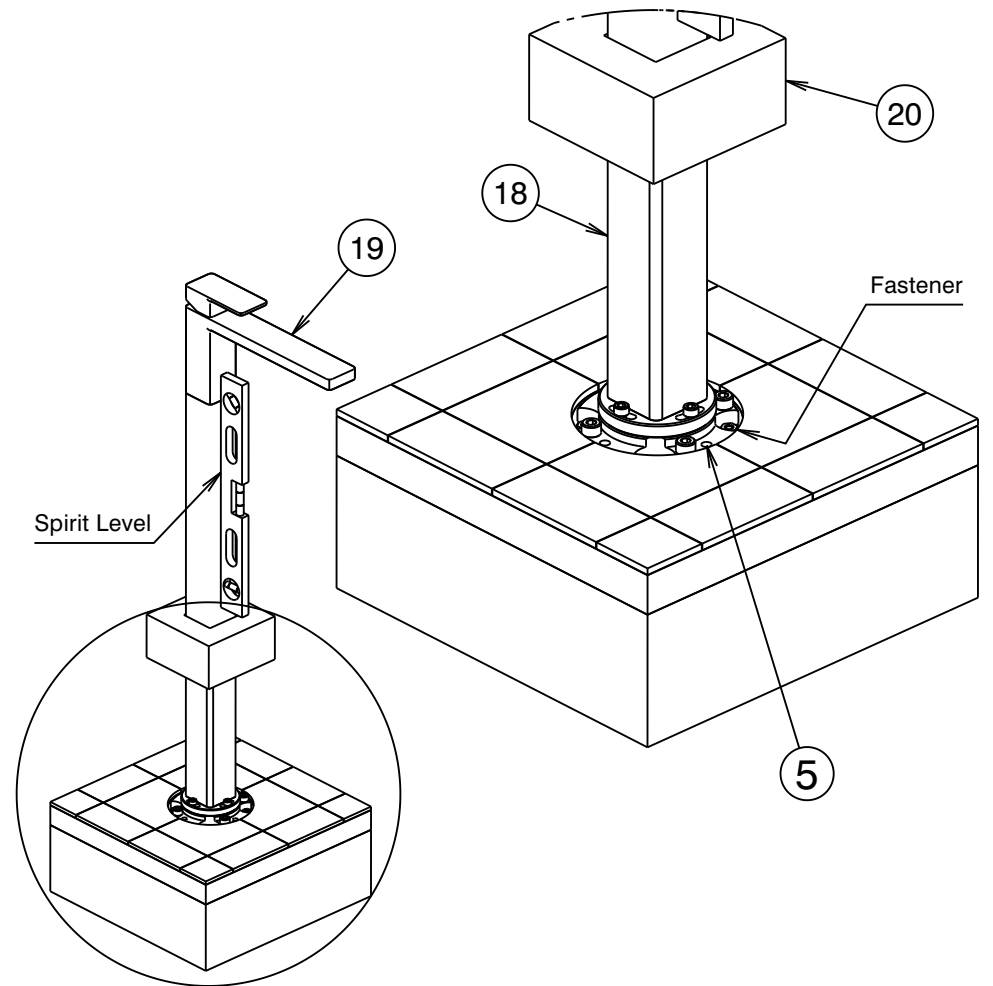


2a) Regardless of the type of floor covering chosen (if any), be it screed/tile, stone, timber, or other, the combined total thickness of all floor coverings, measured from the top face of the concrete slab to the finished floor/tile face, must be within the range of 0- 50mm as shown.

Important:

- The top edge of the installation template (2) indicates the maximum recommended floor covering thickness of 50mm.
- Any floor covering applied to the slab must finish up to the outside diameter of the installation template (2). This will ensure that the base cover of the mixer conceals the penetration in the finished floor surface.
- The installation template must not be removed until floor trades are completed.

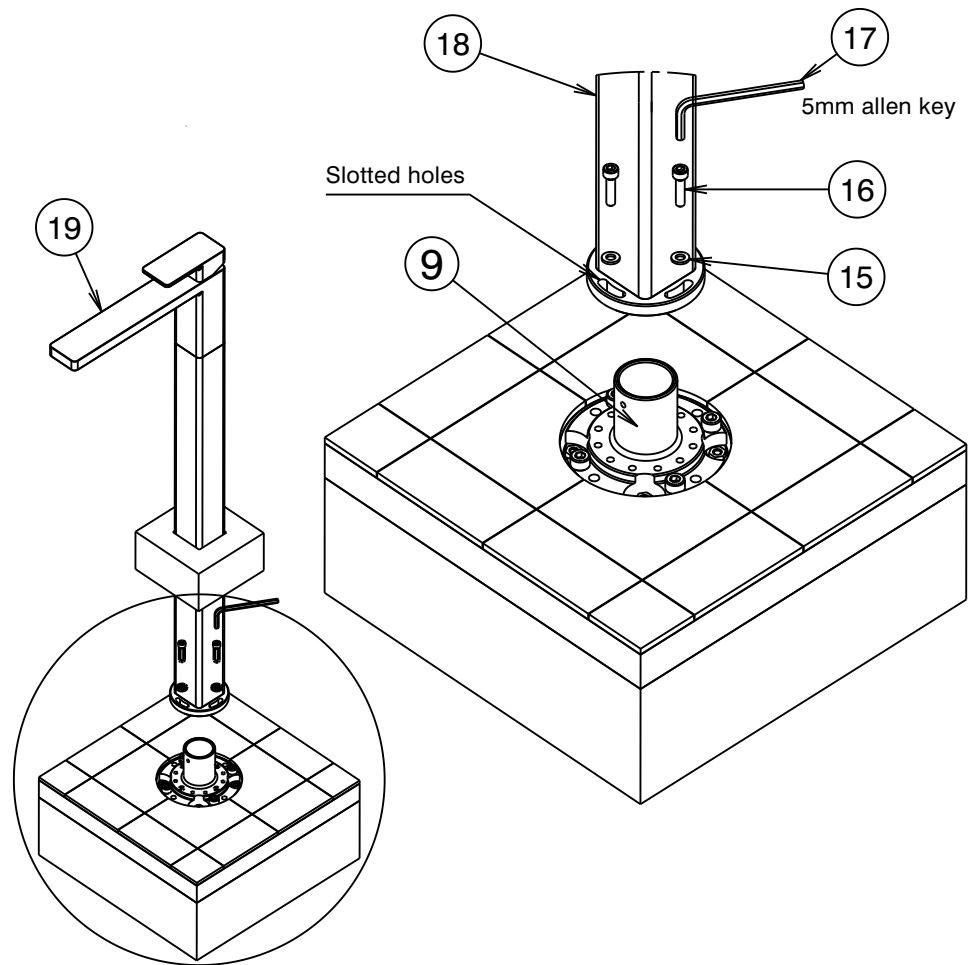
For the next step in the installation procedure, go to page 7.



9) The mixer is now fixed firmly to the floor, however further adjustment may be required if the mixer is not in vertical alignment. To test the vertical alignment of the mixer, place a spirit level on the side faces of the riser (18) as shown. If adjustment is required, loosen the mounting fasteners (determined at step 4) and gradually tighten jacking screws (5) against the spacing washer (4, step 5) as required using the 3mm allen key provided. (The riser will tilt away from the jacking screw being tightened). When vertical alignment of the riser (18) is achieved, tighten the mounting fasteners firmly to secure the mixer to the floor. Apply a suitable sealant to the bottom face of the base cover (20) then carefully slide the base cover (20) down until it contacts the floor surface. Wipe clean any excess sealant from the floor surface and the chrome surfaces of the base cover (20).

Important:

- Only adjust the jacking screws (5) which are necessary to achieve vertical alignment, do not adjust screws more than necessary.

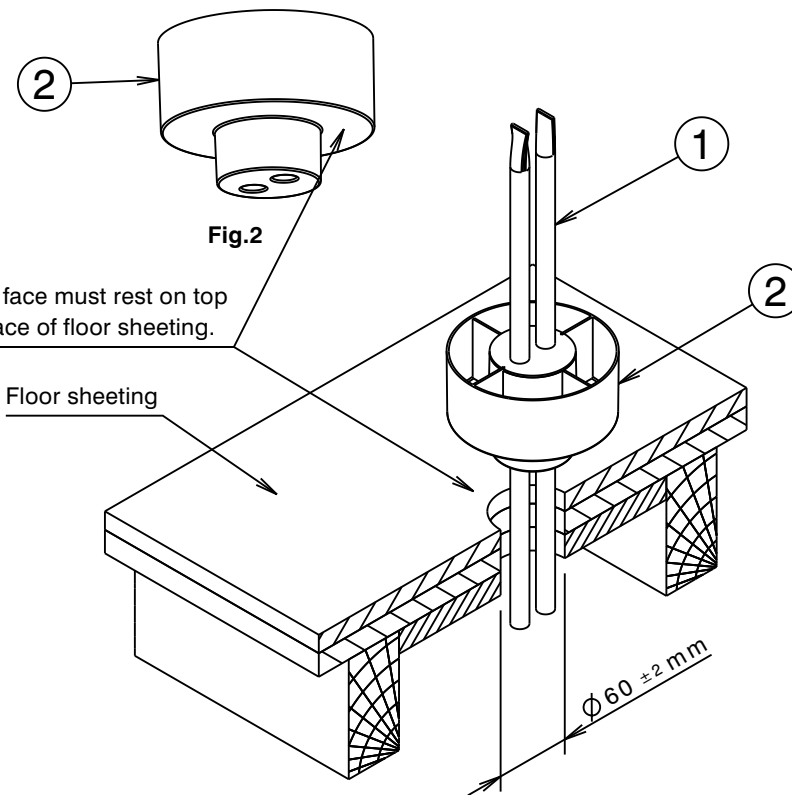


8) This mixer has a feature which allows the outlet (19) to be aligned with the bath prior to fixing to the base. Carefully slide the riser (18) onto the connector flange (9) until the base of the riser rests on the mating face of the connector flange (9). Rotate the mixer outlet (19) until the outlet is facing the desired direction in alignment with the final bath position then install the four screws (16) together with washers (15) into the threaded holes which are visible when looking into the slotted holes in the flange of the riser (18). Check the final position of the outlet (19) then tighten the screws (16) using the 5mm allen key (17) provided.

Important:

- The screws (16) must be tightened firmly to prevent rotation of the mixer after installation.

INSTALLATION ONTO OVERLAID TIMBER FLOORS



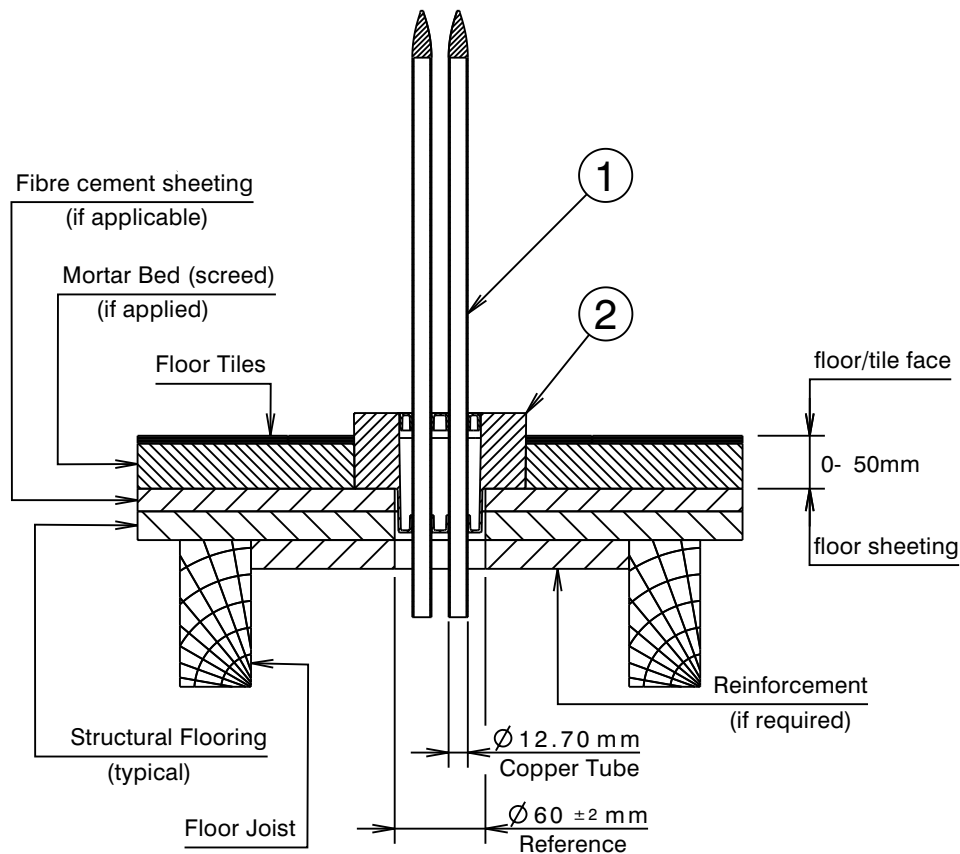
1b) Mark the centre position of the desired location for the Mixer then drill a hole $\text{Ø}60 \pm 2 \text{ mm}$ through the flooring base materials. Install the pipework for hot & cold water supplies in accordance with AS/NZS 3500.1. Slide the installation template (2) over the vertical section of each pipe (1) protruding from the floor and position the bottom face (see Fig.2 above) of the template on the top surface of the floor. Crimp or cap the end of each pipe taking care that heat does not damage the installation template (2). Secure the pipework under the floor using suitable brackets, clips or hangers. Care must be taken that undue strain is not applied to the vertical pipe legs which may influence the pipe centres when the installation template is removed after floor trades are complete.

Tag the pipe which will supply hot water for identification later in the installation.

Important:

When determining a suitable location for the Mixer consideration must be given to the following:

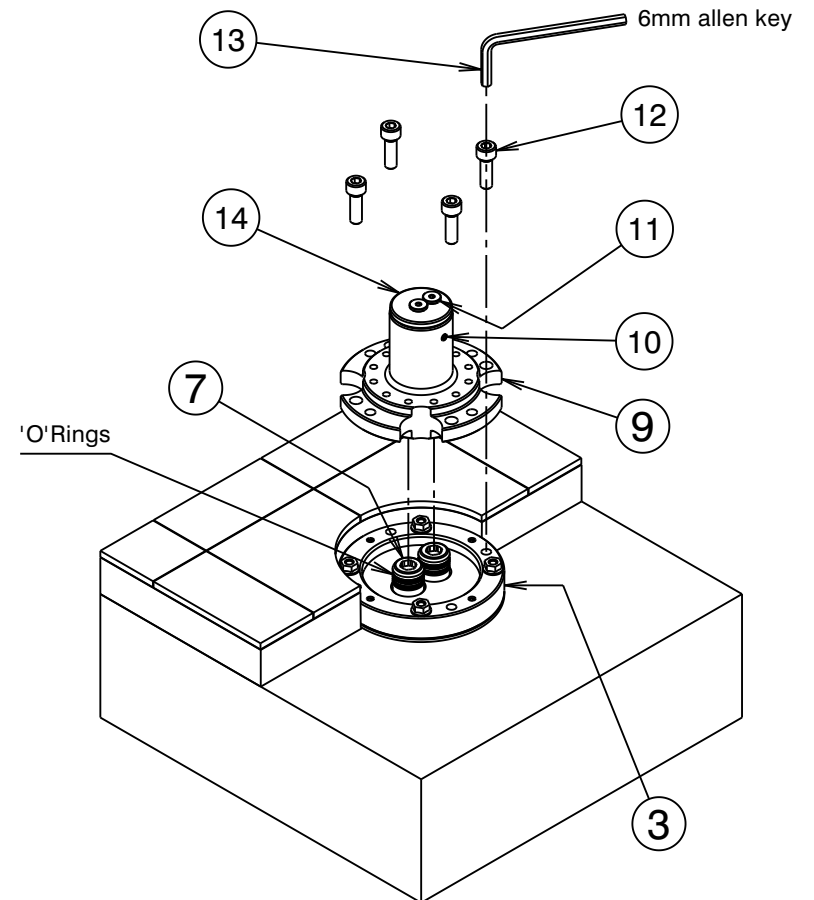
- Pipework must be clear of floor joists.
- If floor substrate is not rigid, the floor must be reinforced from underneath with suitable timber or brackets, to prevent the floor from flexing if Mixer is misused.
- The floor must be drilled ($\text{Ø}60 \text{ mm}$ hole) and pipework installed with installation template (2) in place prior to the application of any floor covering (screed/tiles etc.)



2b) Regardless of the type of floor covering chosen (if any), be it screed/tile, stone, timber, or other, the combined total thickness of all floor coverings, measured from the top face of the floor sheeting to the finished floor/tile face, must be within the range of 0- 50mm as shown.

Important:

1. The top edge of the installation template (2) indicates the maximum recommended floor covering thickness of 50mm.
2. Any floor covering applied to the floor must finish up to the outside diameter of the installation template (2). This will ensure that the base cover of the mixer conceals the penetration in the finished floor surface.
3. The installation template must not be removed until floor trades are completed.



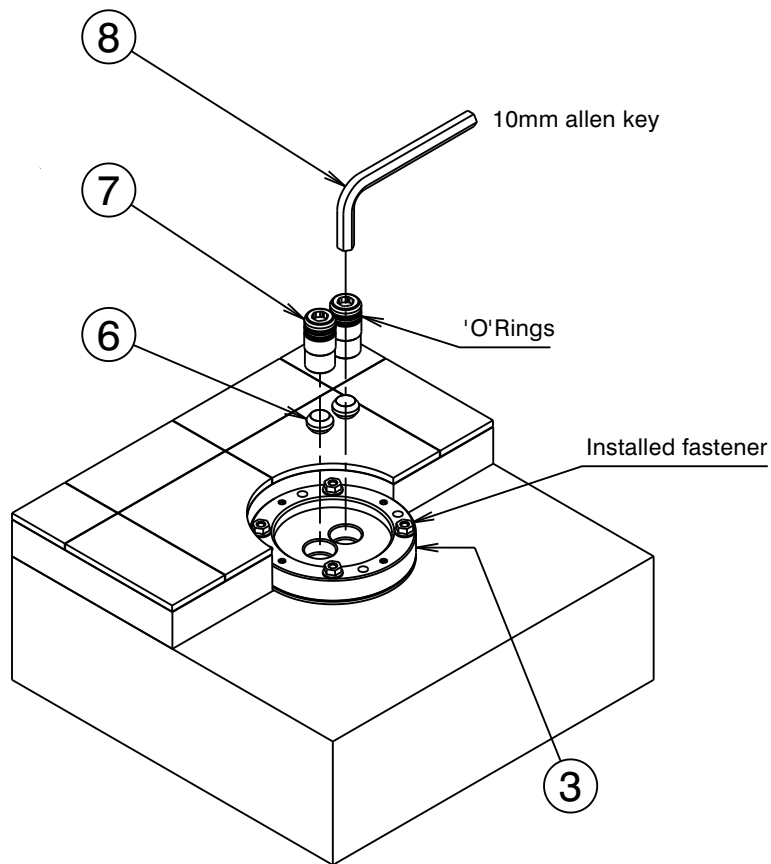
- 7) Apply a suitable lubrication grease to the 'O' rings on the installed spigot adaptors (7). Align the hole marked 'H' on mixer base (3) with the hole marked 'H' on connector flange (9) then carefully assemble the connector flange (9) over the two spigot adaptors (7) until the connector flange (9) is seated on the mixer base (3), taking care not to damage the 'O' ring's. Secure the connector flange (9) to mixer base (3) using the four cap screws (12) supplied and tighten with the 6mm allen key (13) provided.

Pressure test the system:

The connector flange (9) is supplied fitted with a pressure test adaptor (14). The installation is now watertight and the system should be pressure tested.

- To bleed air from the system the plugs (11) can be removed using a 3mm allen key. It is recommended that the plugs (11) be removed before water pressure is applied, then flush the system to remove air & foreign material.
- Remove pressure from the system then replace the plugs (11) and pressure test in accordance with the requirements of AS/NZS 3500.

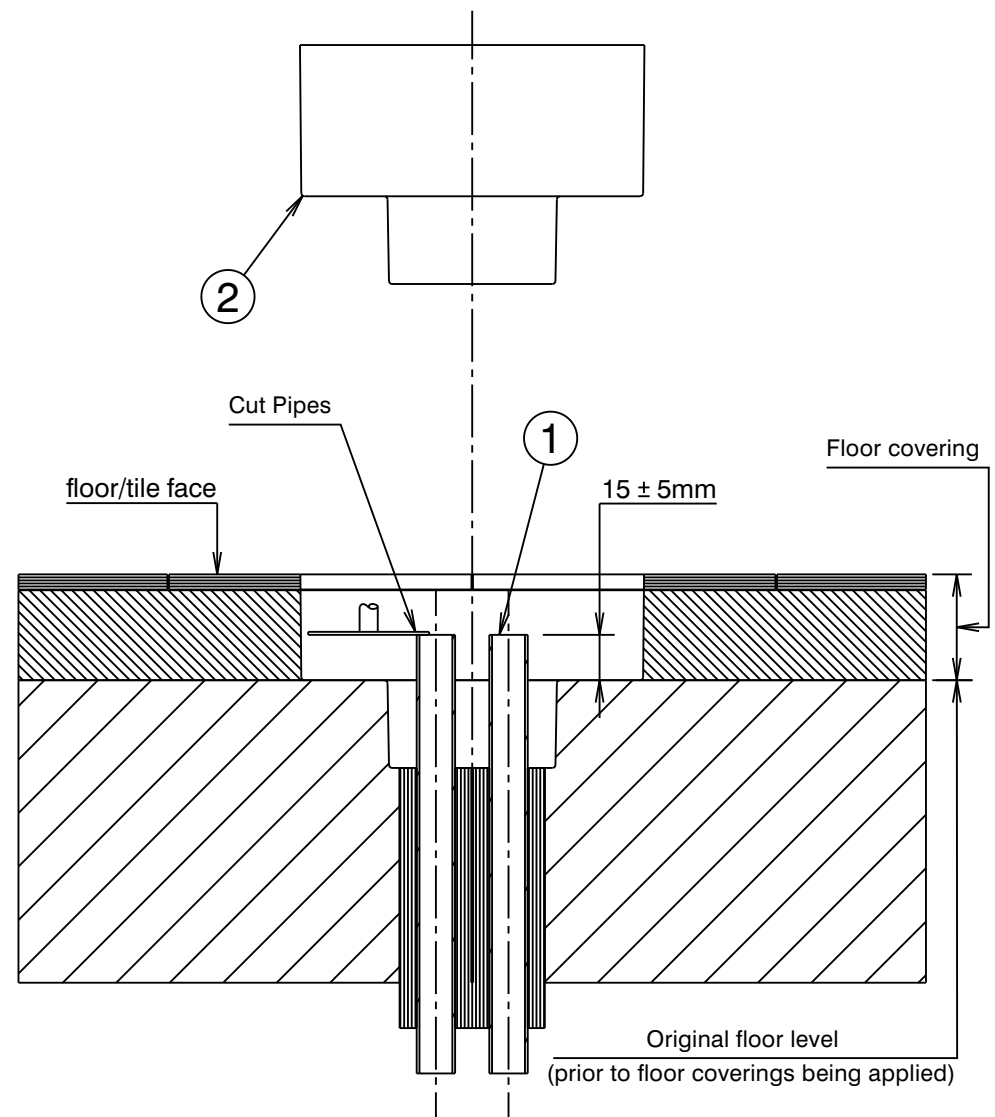
To continue with the installation of the mixer, isolate the hot & cold water supply pipes from the system, release pressure in the lines by partially unscrewing plugs (11), then unscrew grub screw (10) using a 2.5mm allen key and extract the pressure test adaptor (14). The pressure test adaptor (14) and grub screw (10) are not required after the installation of the mixer is completed and may be discarded.



6) Fit one compression olive (6) over each copper pipe (1, step 3). Screw each spigot adaptor (7) into mixer base (3) by hand until it bottoms against the compression olive (6). (As a guide the spigot adaptor (7) is screwed in approximately 6 turns before it bottoms against the olive). Using the 10mm allen key (8) supplied, ensure that each adaptor spigot (7) has bottomed the compression olive (6) in the mixer base (3), then tighten each adaptor a further $1\frac{1}{2}$ - 2 turns to provide a watertight seal. The installed fasteners may now be tightened fully to securely fix the mixer base (3) to the floor.

Important:

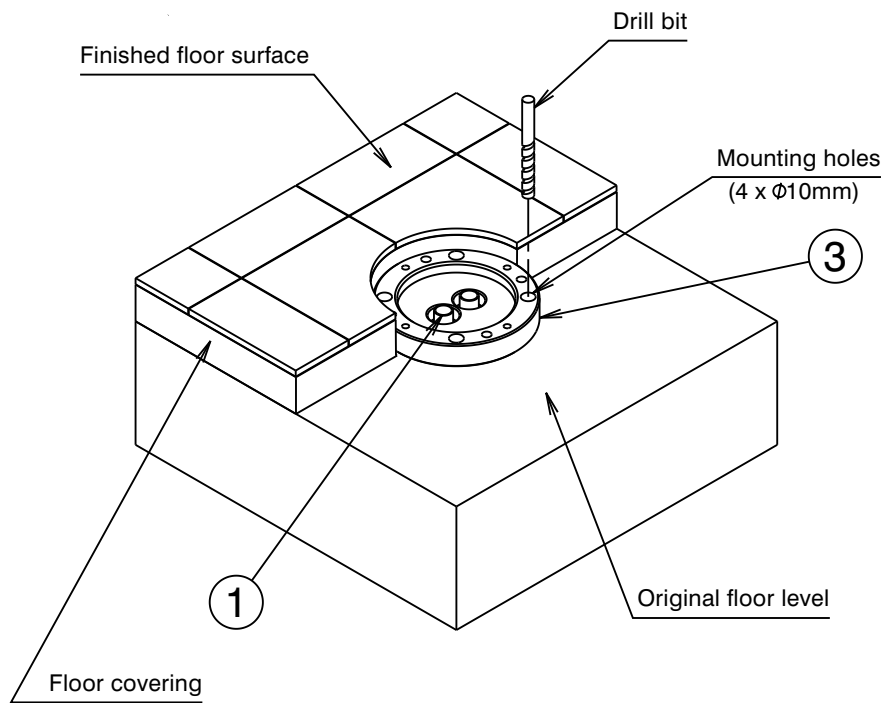
- The $\varnothing 12.70\text{mm}$ copper pipes must be round with no damage as the compression olives (6) seal on the outside diameter of the pipe.
- The adaptor spigots must be tightened as specified.
- Selected fasteners must be tightened as per the manufacturers recommendations.



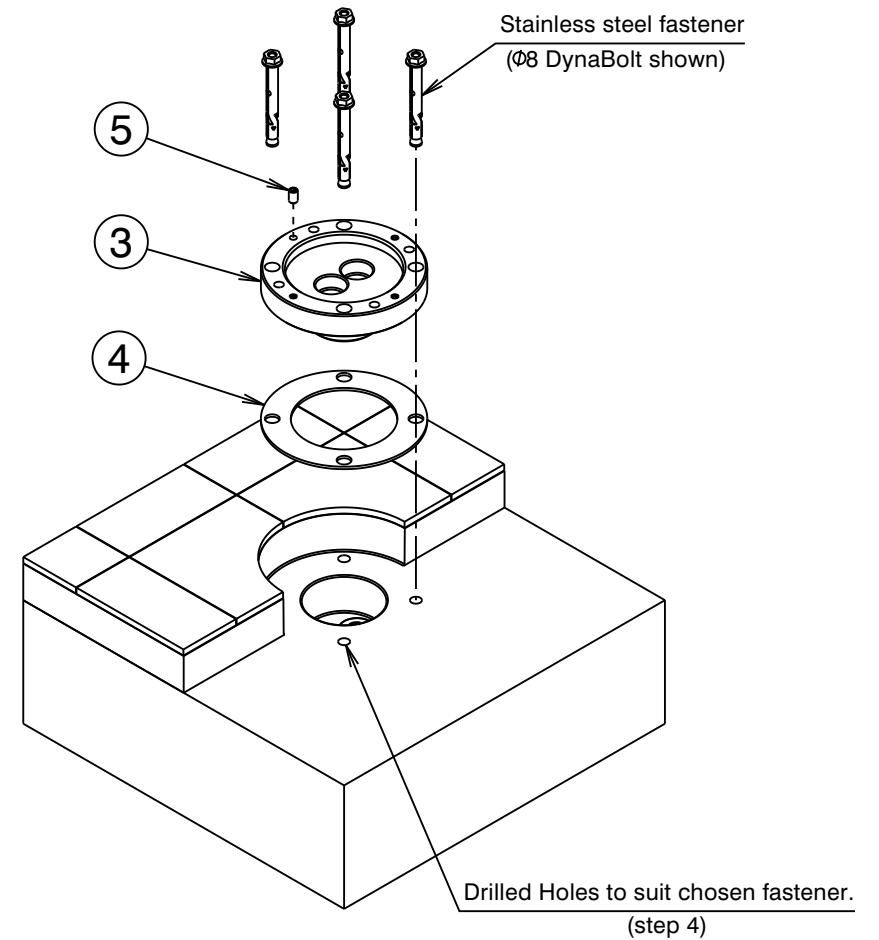
3) When the floor covering has been completed, the installation of the mixer can continue. Ensure that the hot & cold water supplies are isolated then trim the ends of the copper pipes (1) to allow removal of the installation template (2). Extract the installation template (2) from the floor covering & slide off the copper pipes. The installation template can now be discarded. Trim the copper pipes (1) to the specified length of $15\pm 5\text{mm}$, measured from the top surface of the original floor to the end of the pipe as shown.

Important:

1. Ensure that the cavity surrounding the copper pipes is clear of debris.
2. The ends of the copper pipes must be trimmed to the correct length, be reasonably square and free of burrs.
3. Remember to identify the hot water supply pipe to ensure correct installation of the mixer.



- 4) Fit mixer base (3) over the two trimmed copper pipes (1), ensuring that the hot water supply pipe enters the hole marked 'H' in the mixer base (3). For secure anchoring of the mixer to the floor, select a good quality stainless steel fastener to suit the floor structure being used. For mounting onto a concrete base it is recommended to use Ø8 stainless steel 316 DynaBolt of minimum length 75mm. For other floor structures a stainless steel fastener must be selected with equivalent performance. Using the four Ø10mm holes in the flange of the mixer base as a template, drill suitable holes as per the recommendations of the fastener manufacturer. Lift out mixer base (3) & remove any debris from the drilling operation.
- Important:**
- The cavity in the floor covering left after the installation template (2) has been removed must be clean with a flat bottom to ensure that the mixer is seated correctly when installed.
 - Fasteners for attachment of the mixer base to the floor are not supplied as they are dependant on the floor structure.



- 5) Place spacing washer (4) onto the prepared floor and align its four holes with the pre- drilled holes (step 4). Ensure the four jacking screws (5) are contained within the flange of the mixer base (3) without protruding. Slide the mixer base (3) over the copper pipes (1) as before, ensuring the hole marked 'H' coincides with the HOT water supply pipe. The step on the bottom of the mixer base must engage with the large hole in the spacing washer (4) so that the mixer base is resting on the top face of the spacing washer. Install the selected fasteners (not supplied, as discussed in step 4) through the holes in the mixer base (3) and spacing washer (4) into the pre- drilled holes in the floor, but do not fully tighten at this stage.
- Important:**
- The spacing washer (4) provides a flat surface for adjustment of the vertical alignment later in the installation process.
 - Selected fasteners must be installed as per the manufacturers instructions.