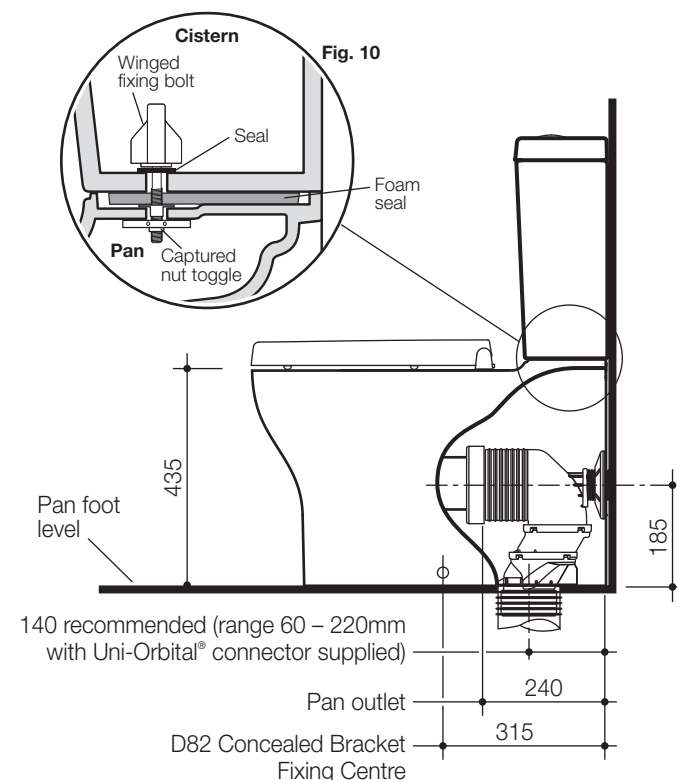
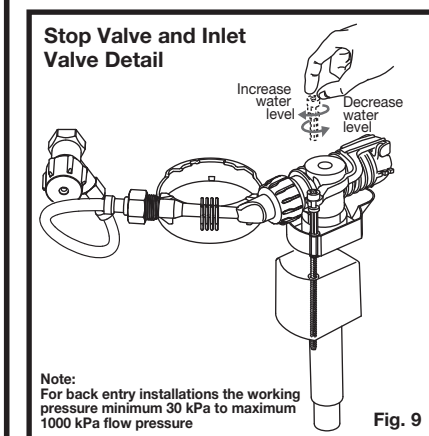
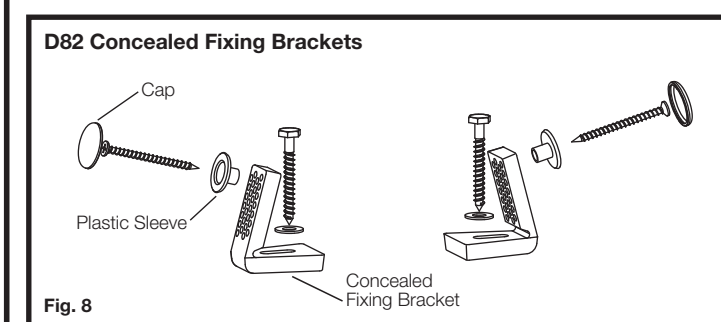
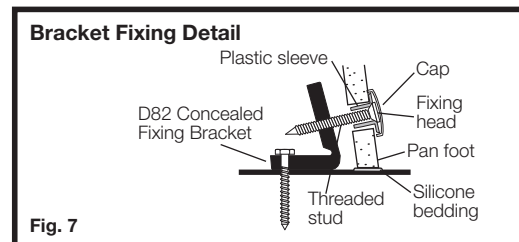
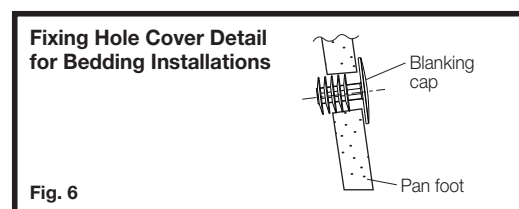
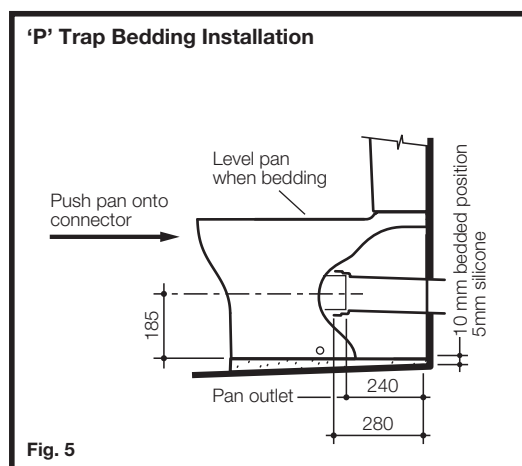
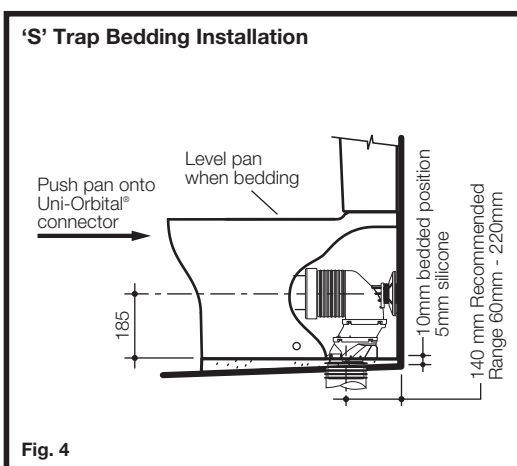
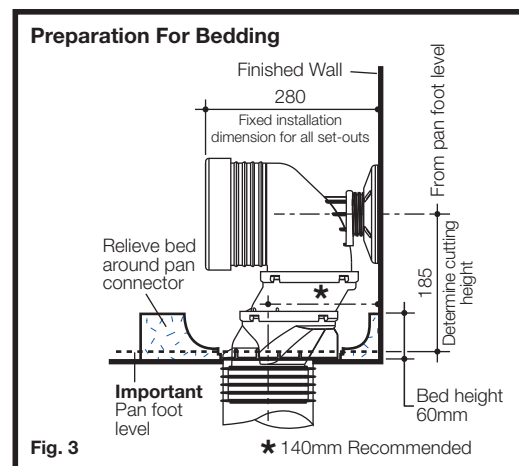
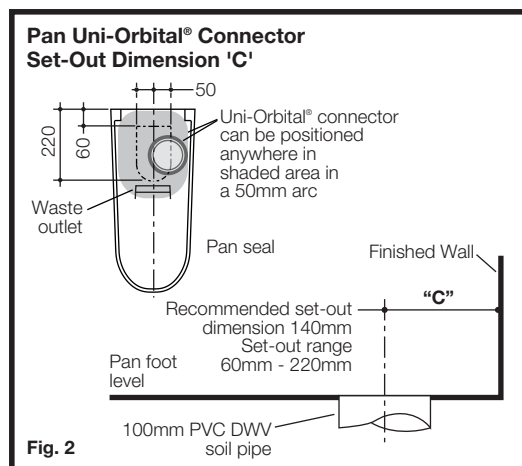
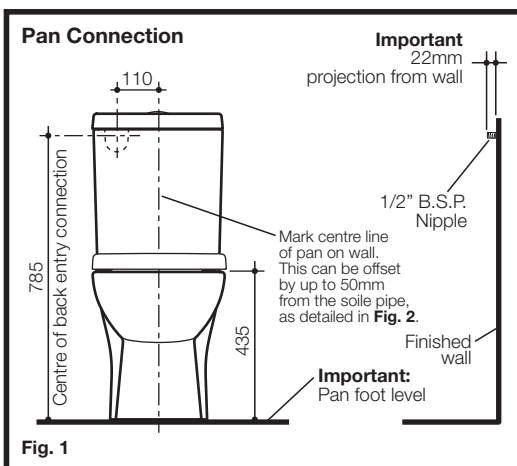


PLUMBERS INSTALLATION INSTRUCTIONS

For Vitreous China Opal Cleanflush Toilet Suite

PLEASE READ CAREFULLY BEFORE INSTALLATION



ROUGHING IN:

The Opal Cleanflush pans are universal for both 'S' and 'P'-Trap installations as detailed. The recommended set-out for 'S'-Trap installations is 140mm from the finished wall with set-out flexibility for existing soil pipe positions ranging from 60mm to 220mm and 50mm sideways adjustment with the Uni-Orbital® connector supplied, as detailed in Fig. 2.

The cistern is only suitable for back entry connection. It is essential that the cold water connection (1/2" B.S.P. Connection Nipple) be accurately positioned in the wall as detailed in Fig. 1. Allow for recommended bedding height of 10mm from back of pan when applicable.

'S'- TRAP CONNECTOR FIXING PROCEDURE

- 1- Mark centre line of the pan on finished wall, as detailed in Fig. 1. This is to be used as a guide when connecting the pan. The centre line can be offset by up to 50mm from the soil pipe, as detailed in Fig. 2.
- 2- Determine set-out "C" of existing pan connector, as detailed in Fig. 2. Set-out range 60mm - 220mm. Recommended set-out 140mm, as detailed in Fig. 3. For 'P' trap installation see Fig. 5.
- 3- For installation of the Uni-Orbital® connector, reference must be made to the instructions supplied with the Uni-Orbital® connector.
- 4- Prepare for pan fixing method (either bedding or bracket installation) as detailed below.

PAN FIXING PROCEDURE

Pan bedding:

- 1- Remove an area of tiles which are within the internal area covered by the foot of the pan to expose the sub floor and provide a bondage key for the bedding mixture.
- 2- Ensure that the bedding area is clean and free of building material.
- 3- Locate blanking cap (supplied) into pan fixing holes as detailed in Fig. 6.
- 4- Prepare bedding sand cement mixture 3:1 to depth of 60mm as detailed in Fig. 3. **Note:** Do not fill the foot of the pan with bedding mix or include lime or fast drying cement into the mix, these may cause cracking in the foot of the pan.
- 5- Position and push pan into connector using the marked centre line on the wall as a guide and level pan into bedding mixture, so that the back of the foot of the pan is approximately 10mm above the finished floor as detailed in Fig. 4. It is recommended that wedges are used to support the foot of the pan during the positioning.
- 6- Locate the cistern on to the pan and check that the cistern is level (side to side) and aligned with the tiling edges. Adjust pan position if necessary. Allow bedding mixture to set for at least 24 hours prior to use.

Bracket fixing:

- 1- Position and push pan into connector using the marked centre line on the wall as a guide and locate the cistern onto the pan, checking that the cistern aligns with the finished wall. Adjust pan position if necessary. Remove the cistern and pan.
- 2- Locate the D82 Concealed Fixing Brackets into position on centre line of pan 315mm from the finished wall and mark bracket fixing hole centres on finished floor.
- 3- Drill two holes in the marked positions on the floor. The hole diameter is dependent on the type of fixing system and floor finish.
- 4- Secure Brackets to finished floor.

- 5- Ensure that the area around the floor is clean and free from building material.
- 6- Run a bead of acetic cured silicone sealant at a height of 8mm approximately fully around the foot of the pan which contacts the floor. Use Wedges around the foot base (if required) so that the **maximum height of silicone sealant is not greater than 5mm on completion on bedding.**
- 7- Connect pan to connector and locate plastic sleeve into holes in the pan. Fit screw into the bracket and tighten to bed pan to floor while ensuring level, as detailed in Fig. 7. **IMPORTANT-DO NOT OVER TIGHTEN, AS THIS MAY CRACK THE PAN FOOT.** Snap on plastic cap, as detailed in Fig. 7.
- 8- Provide support under the pan foot so that it is maintained in the levelled position while the silicone sealant sets. Remove any excess sealant to provide a neat joint between the pan and the floor. Allow at least 24 hours for the bedding sealant to set before use.

CISTERN FIXING PROCEDURE

Note: The cistern fixes directly to the pan with a robust base fixing system without the need for wall fixing.

Back entry installation:

- 1- Securely attach the self-adhesive foam seal around the outlet on the base of cistern. Remove inlet valve to gain access to the right hand cistern fixing hole.
- 2- Position cistern onto pan, and align the cistern fixing holes with the threaded fixing holes located in the cistern platform.
- 3- Ensure that the back entry water connection nipple is aligned with the cut out in the back of the cistern. Fit the seals onto the winged fixing bolts.
- 4- Insert the winged fixing bolts through the cistern fixing holes into the threaded fixing holes located in the pan. Gradually tighten the left and right hand nuts by hand to firmly secure the cistern to pan, as detailed in Fig. 10.
- 5- Fit cistern stop valve (supplied) to the 1/2" B.S.P. nipple in the wall using approved thread seal, in the downward angled position as detailed in Fig. 9. Connect one end of flexible hose to cistern stop valve.
Note: As specified in Australian Standard AS/NZS 3499, flexible hose assemblies shall not be submerged.
- 6- Refit the inlet valve into position.
- 7- Flush the lines before connecting the flexible hose to the cistern stop valve and ensure the hose is not rubbing against the inside of the cistern.
- 8- Turn on water mains. Open cistern stop valve and check for leaks and operation of mechanisms and valves. Ensure there is no leakage from the cistern into the pan.
- 9- Adjust water level to the 4.5 litre water level mark inside the cistern by simply turning the float arm screw in a clockwise or anti-clockwise direction as detailed in Fig. 9.
- 10- Fit cistern lid to check push button operation to complete installation.



IMPORTANT
TO ACHIEVE A SATISFACTORY 4.5/3L FLUSH PERFORMANCE AND A 4 STAR WATER EFFICIENCY RATING THE CISTERN MUST BE MATCHED WITH A COMPATIBLE CAROMA SMARTFLUSH 4.5/3L TOILET PAN.

All measurements are subject to accepted manufacturing tolerances.
To ensure accuracy please check actual product dimensions before drilling for installation.
The manufacturer reserves the right to change specifications at any time without giving prior notification.
This product should be installed by a qualified plumber. Local authority, Water Board, and Building Regulations may apply to the installation of this product, and you should consult the appropriate bodies on these requirements.

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