



Instructions for Grohe 80mm In-Wall flushing systems

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Installation requirements and Warranty conditions

1. The product must be installed by a qualified person in a manner prescribed by local & statutory regulations and to the manufacturers specifications.
2. Inlet valve WATER PRESSURE and pipe sizing must comply with AS3500-4 & Manufacturers specifications.
 - I. Maximum 500kpa static.
 - II. Minimum 100kpa dynamic.
3. Warranty is only valid if products are installed and operated in accordance with the manufacturers instructions.
4. Documents of purchase and installer compliance certificates need to be produced to validate the product is within the manufacturers warranty period.
5. Argent Australia Pty Ltd are the authorised distributor and warranty agent for these products.
6. Argent Australia Pty Ltd must be contacted to authorise any service with in the warranty period.

Grohe In-Wall Cistern Warranty

- A. Fifteen (15) year warranty from the date of purchase for Residential installations.
- B. Argent will undertake to rectify free of charge for parts and labour within the first five (5) year period any fault due to defects in materials, design faults or workmanship. This covers the frame and cistern.
- C. An additional ten (10) year warranty applies for replacement parts due to defects in materials, design faults or workmanship. This includes the finish of all exposed surfaces. Labour is not included in this part of the warranty.
- D. Mechanisms and pneumatic parts including actuator buttons are covered by a 2 year warranty.
- E. Seals and washers being covered by a twelve (12) month warranty.
- F. 15 Year Warranty applies to products purchased on or after the 1st November 2008 as evidenced by appropriate proof of purchase.
- G. Regardless of interim service within that period, the warranty shall expire after fifteen (15) years from the date of original purchase.

Important notes

- WELS water restrictions are applicable to all WC toilets and flushing systems sold in the Australian market.
- All Grohe In-wall cisterns and frames are supplied with kee-seal and flush pipe to connect to wall hung and Wall-Faced pans.
- Optional stabilizing support fixings to suit Grohe In-wall frames are available to secure to solid block / brick walls.
- A large range of flush plates are available to suit this Grohe In-Wall cistern or frame.



Argent technical help line 1800 356 717



Installation Instructions for Grohe 80mm In-Wall Frame & Cistern

Application wall hung toilets - 6/3 ltr and 4.5/3 ltr flush

48903B & 48919B

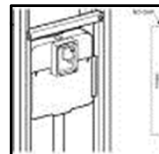
38558 optional wall mount brackets



Code Number	Description	Frame	Pan type
48919B	In-Wall cistern standard height 6/3L	With frame	Suits wall hung pans
48903B	In-Wall cistern standard height 4.5/3L	With frame	Suits wall hung pans

Installation styles for cisterns with frames:

1. In-Wall (90mm cavity) installation; or
2. Installation onto a solid brick, masonry or existing solid wall.



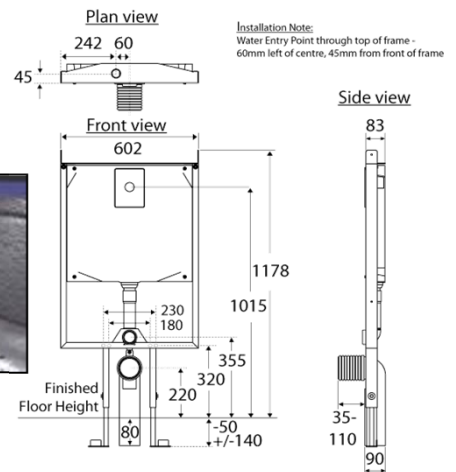
Ensure that there is **NO GAP** between the frame and the finished wall, otherwise wall and pan will flex

Frame positioning and fixing

- I. Position the frame into the cavity so that the front of the frame is flush with the front of the studs, and will end up hard against the internal wall lining when sheeted. (This cistern suits installation into 90mm cavity walls/studs)
- II. For Cavity brick or solid wall installations, optional wall mount brackets are available. Product code is 38558, instructions for its use are included with this bracket.
- III. Fix the frame to the floor using coach bolts or use masonry anchors where required. Loosen the bolts securing the adjustable feet at the base of the frame and lift the frame height to match the height from the finished floor to match the specifications of the WC pan being used.
- IV. **Solid fixing of the frame** –The frame will support 400KG's; however, it is only as strong as what it is fastened to. Ensure frame fixing points above and below cistern are used, fixings points are located in the frame at 450mm and 1100mm.

Important note 1: The finished floor height is the height of the floor after bedding and tiling has been completed; this can be significantly higher than the original floor height during rough-in stage. You must allow for the thickness of floor tiles and any additional bedding substrates used when adjusting the frame to the specified height for the wall hung pan.

Check wall hung pan product specification sheet details to confirm the required height of the frame. Pans from the same manufacturer can have different height requirements. Remember to allow for bedding substrates and tiles when calculating the height.



- V. Retighten the adjustable feet bolts and fasten the frame securely to the studs/upright supports. **In-Wall cavity (stud wall) installation, the frame must be fixed to the studs.**



The frame is only as secure as the supports/wall to which it is fastened. Double studs are beneficial to frame rigidity.



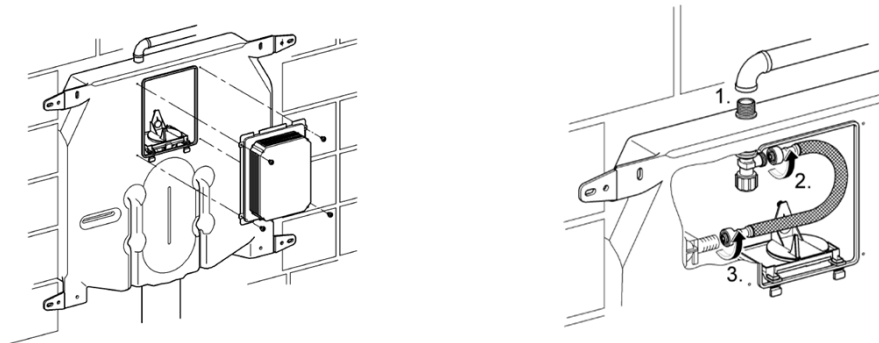
Sewer Connection



Pan support studs

- VI. The outlet bend has a fixed S Trap location that will be encapsulated into the 90mm wall cavity. The sewer bracket should be fitted into the frame. Disregard this bend when a P trap installation is required.
- VII. Attach the sewer outlet bend onto the cistern frame and into the sewer pipe, it has a finned pan seal collar for confined installation. **Please check for local plumbing approvals.**
- VIII. Attach the inlet pipe to the cistern and frame. Insert the WC flush pipe, into the cistern flush pipe outlet (lubricate "O – Rings" with an approved silicon based lubricant to ease installation)
- IX. Fit the supplied all thread pan support studs at either 180mm or 230mm centres; **check your toilet pan specifications first.** All Villeroy & Boch pans have 180mm centres. Fit the tiling templates supplied to both the sewer and flush pipes.

Water Connection



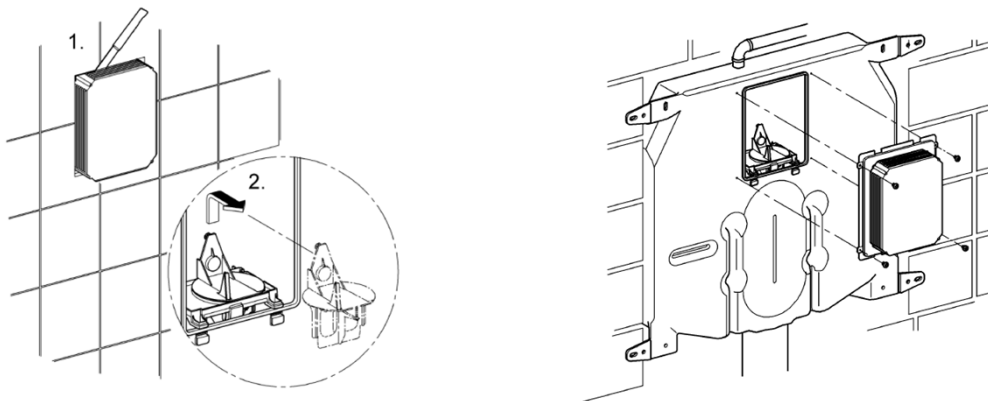
- X. Water inlet point is from the top of the cistern, 60mm offset from the centre to the LHS
- XI. Rough in with ½" BSP thread into cistern opening to install supplied cistern tap as per the drawing
- XII. The isolation cock must be positioned inside the cistern and accessible to turn "OFF" and "ON" via the front entry maintenance panel (flush button position)
- XIII. Flush the water lines before connecting water to the inlet valve.
- XIV. **Caution: Any debris that falls into the cistern during installation must be removed and the cistern cleaned and flushed. Flushing performance and warranty will be affected if this is not undertaken.**

Testing the cistern operation

- XV. Remove the dust cover from the front of the cistern and remove the transit bracket. (this may have a red loop attached)
- XVI. At this stage it is possible to fill the cistern with water and test the flush mechanism by temporarily connecting the flush button
- XVII. Test the half and full flush by flushing into a bucket
- XVIII. While the cistern is full, check for water leaks
- XIX. When testing is complete, empty the cistern and turn the isolation cock to the off position.
- XX. **PLEASE NOTE: REMOVE THE TRANSIT BRACKET FROM THE TOP OF THE OUTLET VALVE BY ACCESSING IT THROUGH THE FRONT OF THE CISTERN. THE CISTERN WILL NOT FLUSH IF THIS BRACKET REMAINS IN PLACE.**

Fitting the tiling template in the 'flush plate' position

XXI. Punch out the centre of the dust cover and fit the dust cover and tiling template according to the instructions marked on the front of the template.



XXII. The wall is now ready to be sheeted and tiled. Before progressing to this please review the installation checklist below.

Check list for correct installation prior to sheeting the wall

- ✓ Frame position & height adjustment from the **finished floor level**
- ✓ Solid fixing of the frame into the cavity and or onto the wall studs
- ✓ Water connection entry into cistern
- ✓ Cistern stop cock must be inside the cistern and accessible for maintenance
- ✓ Flexible hose (water connection) must not foul cistern mechanisms
- ✓ Transit bracket must be removed from top of flush valve
- ✓ Dust cover and tiling template must be fitted correctly
- ✓ Outlet and inlet flush pipe "Tiling templates" to be fitted
- ✓ Pan support studs to be fitted in accordance with WC specifications

After wall sheeting and tiling has been completed, the wall hung pan is ready to fit off.

XXIII. Sewer and flush pipe to be cut and bevelled in accordance with instructions

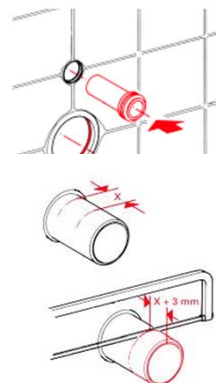
XXIV. Final fit off, after tiling

- Trim Flush pipe & Sewer pipe as per pan specifications and fit and lubricate rubber seals
- [Install WC pan and fixings.](#)
- Install flushing button
- Test operation

Wall Hung Pan Fit Off

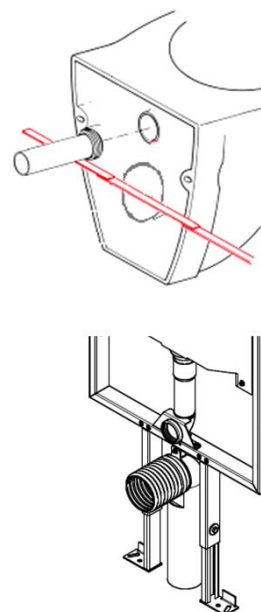
Step 1 - 40mm DWV Inlet Pipe- Set up & Trimming

1. Insert the 40mm DWV flush pipe into the cistern. **Mark the pipe** where it crosses the finished wall.
2. Remove it and Insert the other end into the pan with the Black key seal fitted, mark where it crosses the rear of the pan.
3. Measure the distance between the two marks and add 3mm for clearance
4. Trim that amount (including the 3mm) off one end of the inlet pipe
5. Clean and chamfer the cut



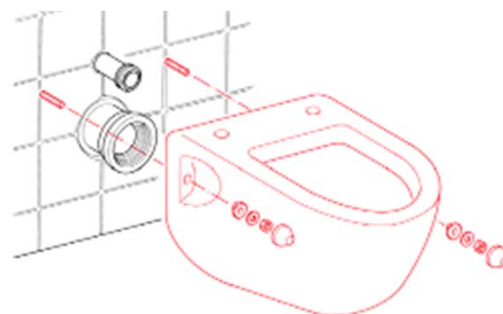
Step 2 - Waste pipe Set up and trimming

1. measure the distance from the rear of the wall hung pan to the start of the ceramic waste pipe and add 30mm to that measurement
2. From the finished wall, mark that measurement (including the extra 30mm) on the waste outlet pipe,
3. Cut on the mark and then clean the cut
4. Install the rubber waste pipe seal on the waste outlet pipe.
5. Measure twice cut once, hard to replace if it is tiled



Step 3 – Installing the wall hung pan.

1. Fit the black key seal to the 40mm inlet pipe.
2. Using a suitable silicon based lubricate, coat all of the rubber seals and O rings
3. fit the Inlet pipe to the cistern with the black key seal facing towards the pan
4. Fit the pan onto the cistern frame with the fixing supplied. Torque setting for pan bolts max 8NM (Newton-Meters)
 - a) Models with concealed fixing have a silver bullet that needs to be installed onto the all thread rods
 - b) An Allen key is used to fasten the pan from the side





Installation Instructions Grohe In-Wall flushing systems Cistern only Installation (suits wall-faced pans)

38903B and 38919B

Code Number	Description	Frame	Pan type
38919B	In-Wall cistern standard height 6/3L	No frame	Suits Wall-Faced pans
38903B	In-Wall cistern standard height 4.5/3L	No frame	Suits Wall-Faced pans

Cistern positioning

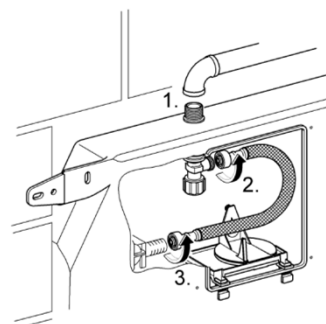
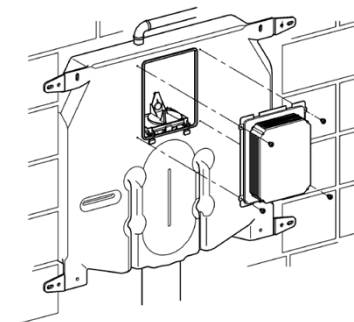
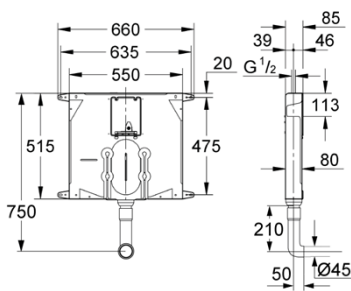
- I. Position the cistern on/ in the wall according to:-
 - The height that corresponds to the inlet pipe height to the Wall-Faced pan (being used)
 - From the finished floor height.
- II. Fasten the cistern to the wall / studs using the brackets

Please note: The finished floor height is the height of the floor after bedding and tiling has been completed; this can be significantly higher than the original slab height during rough in stage. You must allow for the thickness of floor tiles and any additional bedding substrates used when adjusting the frame to the specified height for the WC Wall-Faced pan.

Water connection

- III. Water inlet point is from the top of the cistern, 60mm offset from the centre to the LHS.
- IV. The isolation cock must be positioned inside the cistern and accessible to turn "OFF" and "ON" via the front entry maintenance panel (flush button position)
- V. Flush the water lines before connecting water to the inlet valve

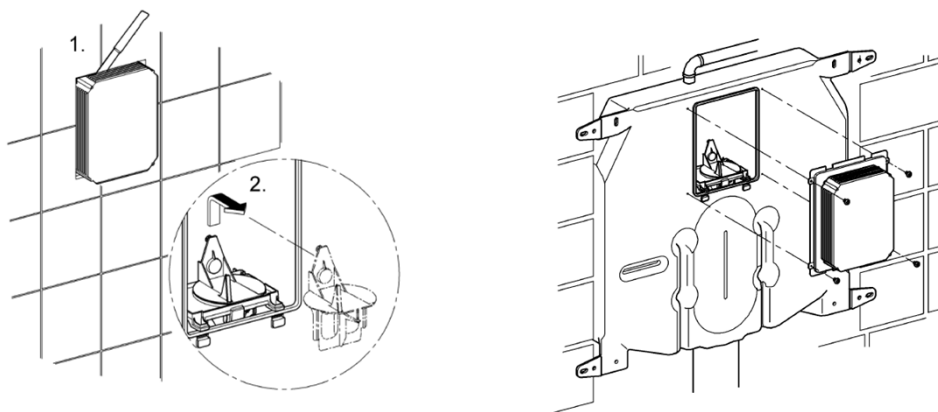
Caution: Any debris that falls into the cistern during installation must be removed and the cistern cleaned and flushed. Flushing performance and warranty will be affected if this is not undertaken



Testing the cistern operation

- VI. Remove the dust cover from the front of the cistern and remove the transit bracket.(this may have a red loop attached)
- VII. At this stage it is possible to fill the cistern with water and test the flush mechanism by temporarily connecting the flush button
- VIII. Test the half and full flush by flushing into a bucket
- IX. While the cistern is full, check for water leaks
- X. When testing is complete, empty the cistern and turn the isolation cock to the off position.
- XI. **PLEASE NOTE: REMOVE THE TRANSIT BRACKET FROM THE TOP OF THE OUTLET VALVE BY ACCESSING IT THROUGH THE FRONT OF THE CISTERN. THE CISTERN WILL NOT FLUSH IF THIS BRACKET REMAINS IN PLACE**

Fitting the tiling template in the 'flush plate' position



The wall is now ready to be sheeted and tiled. Before progressing to this please review the installation checklist below.

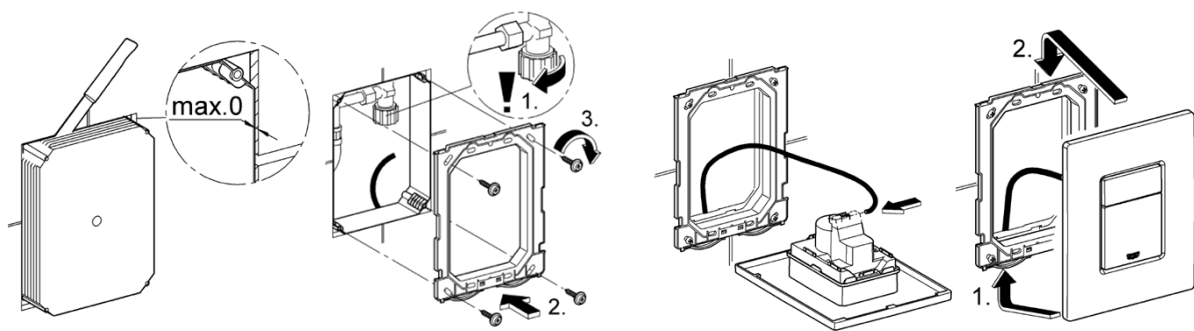
Check list for correct installation prior to sheeting the wall

- ✓ Cistern position & height from the *finished floor level* that corresponds to the inlet pipe height to the Wall-Faced pan (being used)
- ✓ Solid fixing of the cistern into the cavity and or onto the wall studs
- ✓ Water connection entry into cistern
- ✓ Cistern stop cock must be inside the cistern and accessible for maintenance
- ✓ Flexible hose (water connection) must not foul cistern mechanisms
- ✓ Transit bracket must be removed from top of flush valve
- ✓ Dust cover and tiling template must be fitted correctly
- ✓ Outlet flush pipe "Tiling templates" to be fitted

Installing the flush plate

- XII. Cut the tiling template flush with the finished wall.
- XIII. Attach the button bracket to the tiling template and screw into place with screws that have been provided.
- XIV. Connect the blue air hose from the outlet valve to the nipple on the back of the full flush button. Fit the flush button into place
- XV. When attaching the flush button bracket to the cistern, ensure that the plastic spring device is facing toward the right side for a horizontal flush plate OR facing toward the bottom for a vertical flush plate. This will ensure that the logo on the chrome flush button is in its correct position.

Front press only



Important Flush plate Note:

1. If installing 'Grohe Nova Light' then pre-wiring will be required prior to sheeting and tiling walls
2. If installing Grohe small flush button (38771) ancillary access will be required for cistern service.
3. If installing Grohe glass cover plates, additional retaining brackets will be need to be installed to allow the magnetic brackets to be used, refer to Glass cover plate instructions