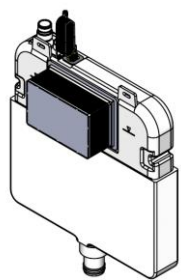
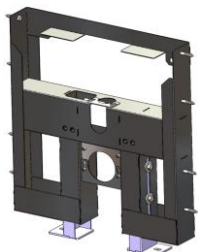
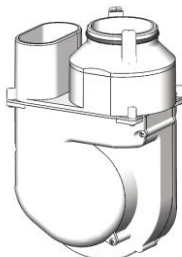
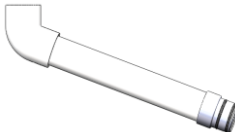
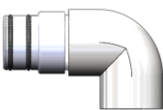
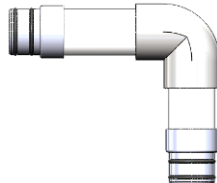
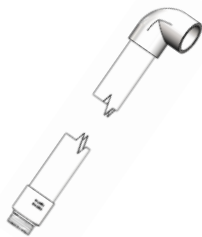


Installation Instructions

- Milu Mod Wall Hung Toilet
- Milu Crest Wall Hung Toilet



PACKAGE CONTENTS

 Item Code: 2201003 Quantity: 1	 Item Code: 2202013 Quantity: 1	 Item Code: 2202009 Quantity: 1	 Item Code: 2202059 Quantity: 2	
 Item Code: 2204010	 Item Code: 2202058 Quantity: 1	 Item Code: 2201011 Quantity: 1	 Item Code: 2201012 Quantity: 1	
 Item Code: 2202006 Quantity: 1	 Item Code: 2208017 Quantity: 1	 Item Code: 2203044 Quantity: 1	 Item Code: 2204054 Quantity: 1	
 Item Code: 2201006 Quantity: 1	 Item Code: 2201007 Quantity: 1	 Item Code: 2201008 Quantity: 1	 Item Code: 2201009 Quantity: 1	 Item Code: 2201010 Quantity: 1
 Item Code: 2202015 Quantity: 1	 Item Code: 2202016 Quantity: 1	 Item Code: 2204052 Quantity: 1	 Item Code: 2204001 Quantity: 1	



PRODUCT OVERVIEW

- P-trap or S-trap installation
- Adjustable pan height
- Fits 90mm wall cavity with 600mm stud spacing
- Suitable for timber studs only. 90x45 stud cross section
- Suitable for wall hung pans with 180mm or 230mm mounting rod spacing

LIMITATIONS

The maximum number of odourless toilets per stack in a building is given below:

Size of Stack, DN	Max number of OCD's per stack
100	73
125	145
150	242

WARNING:

The steel frame provided with the cistern will transfer the loads from the toilet pan through to the attached wall. The wall must be built rigidly so that flexing is minimised under loading from the toilet. Failure to do so may lead to catastrophic failure of the wall and/or damaged tiles. The studded wall must be constructed using 90x45mm timber sections.

Expella takes no responsibility for the construction of the wall.

BEFORE INSTALLATION

The Milu odourless toilets must be installed by a qualified plumber in accordance with AS/NZS 3500.

Check the product thoroughly for any missing components or defects prior to installation.



SETOUT

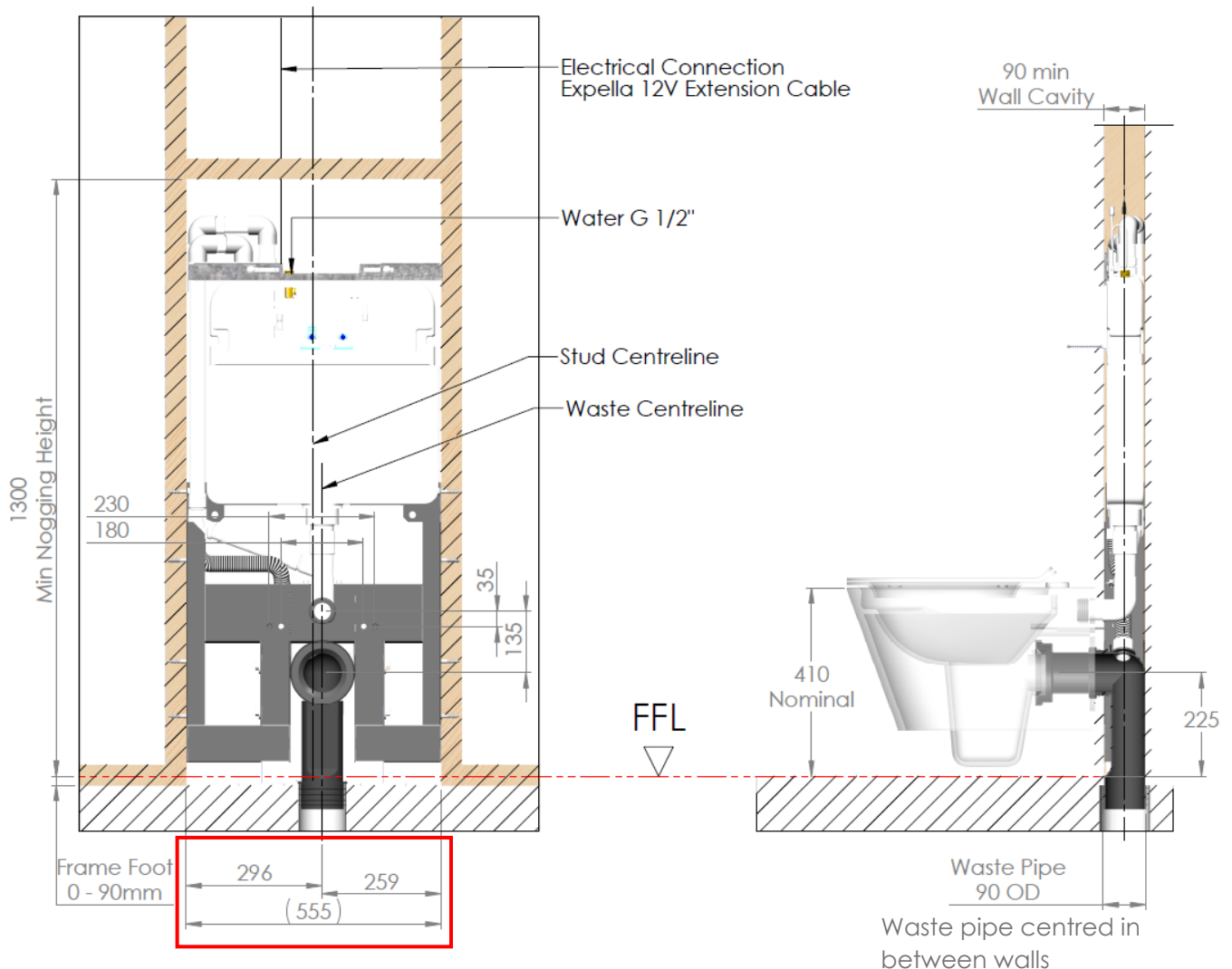
Determine the finished floor level (FFL)

Position waste for either P or S trap as indicated.

Set the wall studs and nogging as indicated.

IMPORTANT:

The position of the waste outlet is off-centred relative to the wall studs. See highlighted dimensions for stud positioned below.



INSTALLATION

INSTALLATION TOOLS AND EQUIPMENT

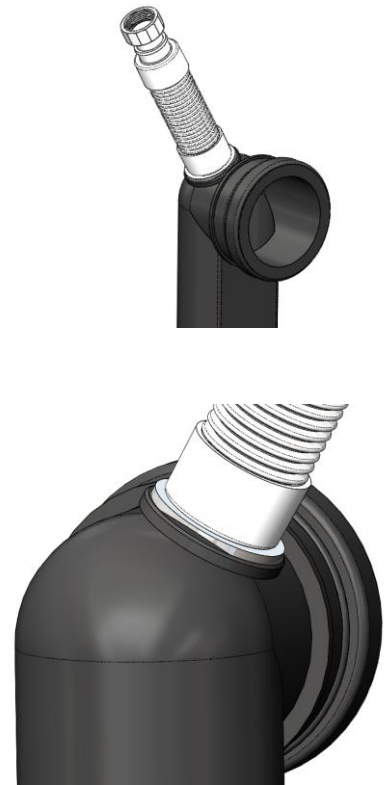
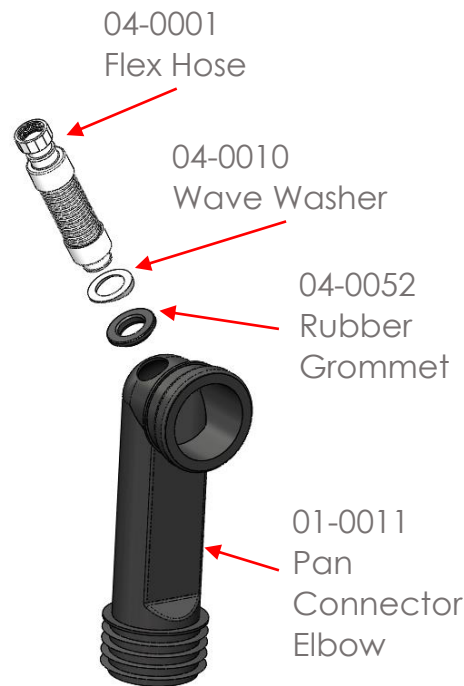
- Grease or petroleum jelly
- Hand saw suitable for cutting rigid PVC plastic
- Safety knife
- Metric Allen Key set
- Drill bits 3mm and 8mm
- 16mm and 17mm Socket and Wrench
- 35mm hole saw – for PVC
- Deburring tool
- 1/2" Spanner
- Level
- Screws, Pan head, 8 Gauge x 30mm for Timber
- Cordless drill
- Impact driver



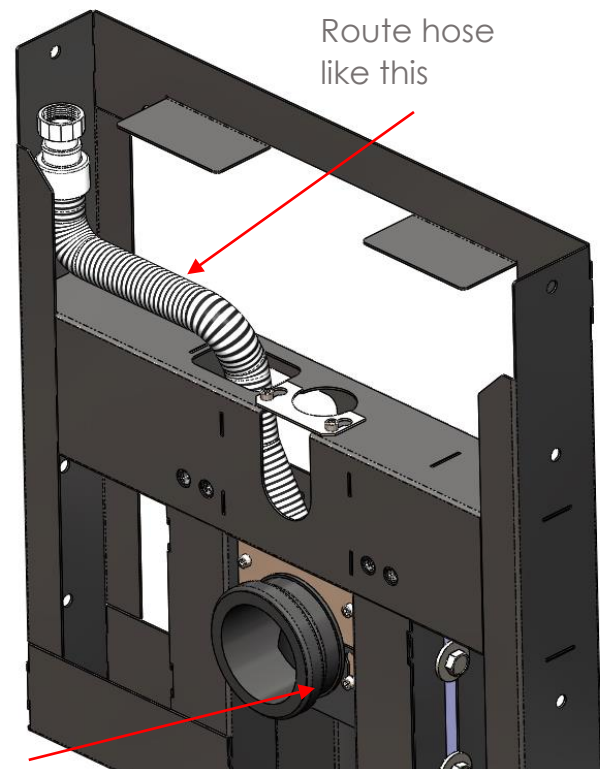
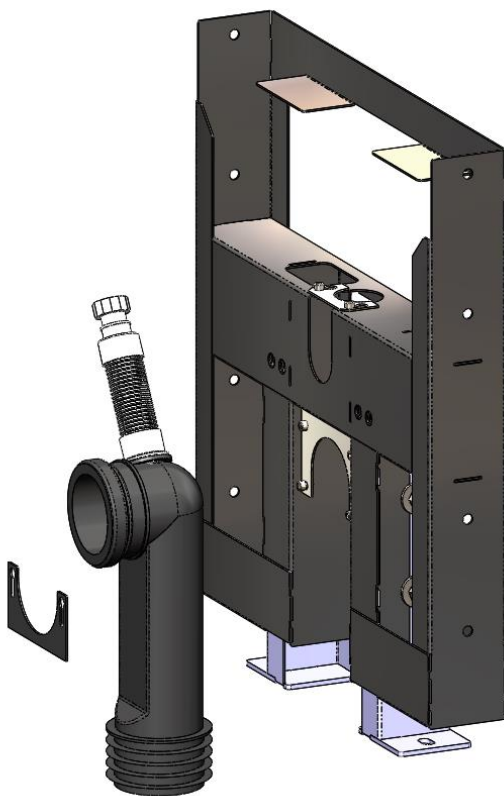
INSTALLING THE TOILET

Pan Connector

1. Apply grease to grommet
2. Insert grommet into pan connector
3. Fit wave washer onto flex hose with wavey side facing towards grommet
4. Connect hose to pan connector ensuring wave washer conforms grommet around curved pan connector

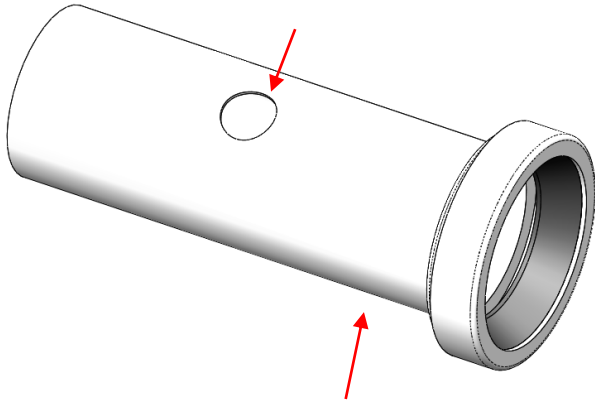


Install Pan Connector into Frame



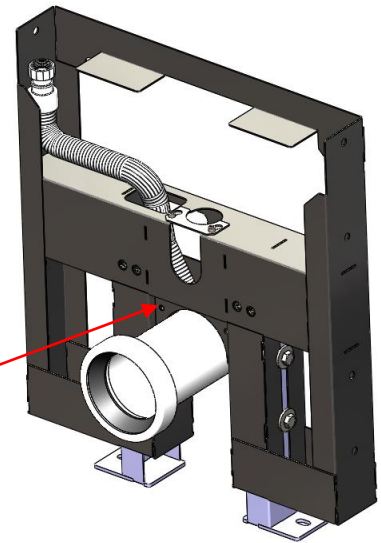
Optional P-Trap

Use 35mm hole saw to cut hole. Debur after cutting. Hole position depends on wall thickness. Flexible hose route is the same as S-trap



Use standard 100mm pan collar with 100mm PVC DWV pipe

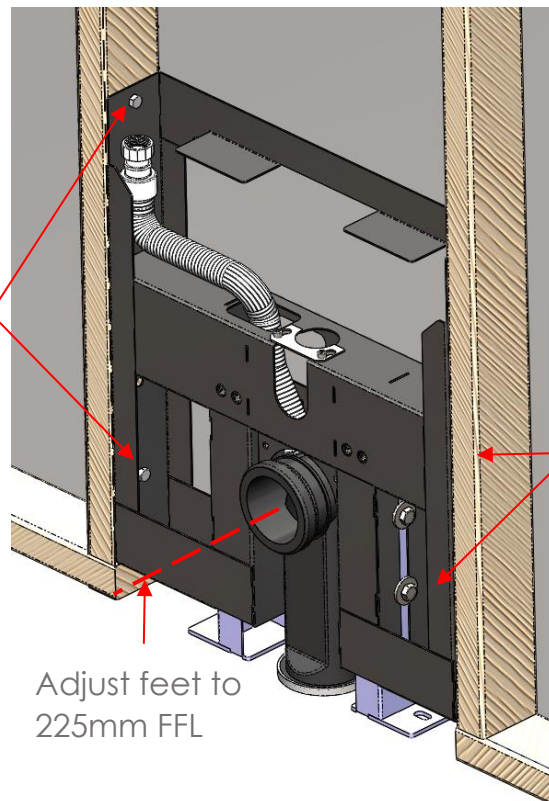
Remove frame brackets to fit 100mm pipe



Install Frame in Wall

Mark and predrill studs using 8mm drill

Install 4 x 3/8" Coach screw



Adjust feet to 225mm FFL

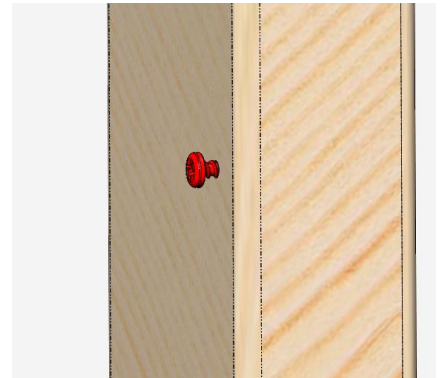
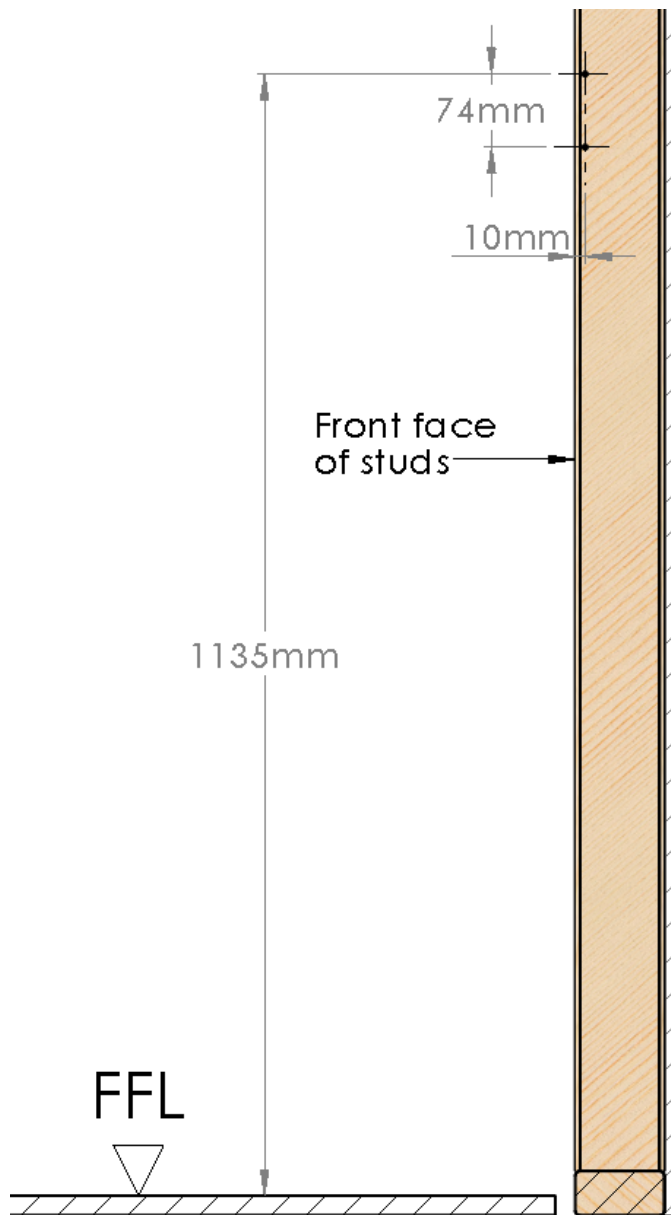
WARNING:

The steel frame must be flush with the front face of the studs. Failure to do so may result in damaged tiles.



Install the top cistern mounting bracket

Predrill mounting bracket screw holes in studs – 2 x Ø3mm holes each side

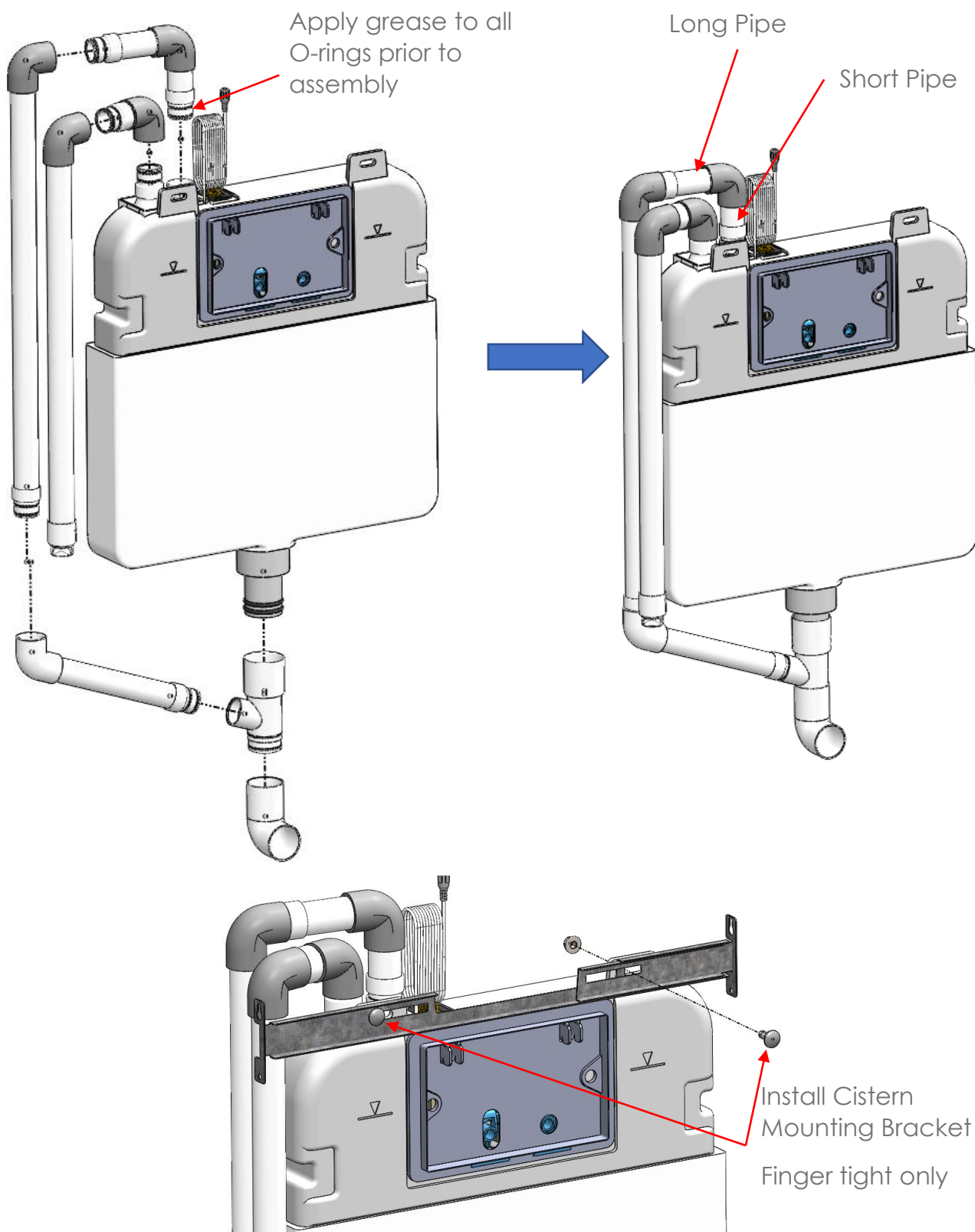


Partially install 2 x 8-gauge screw (top holes only)

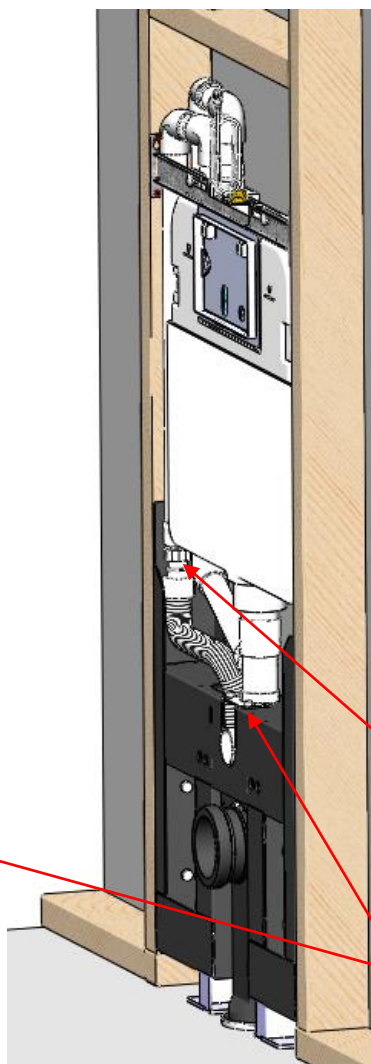
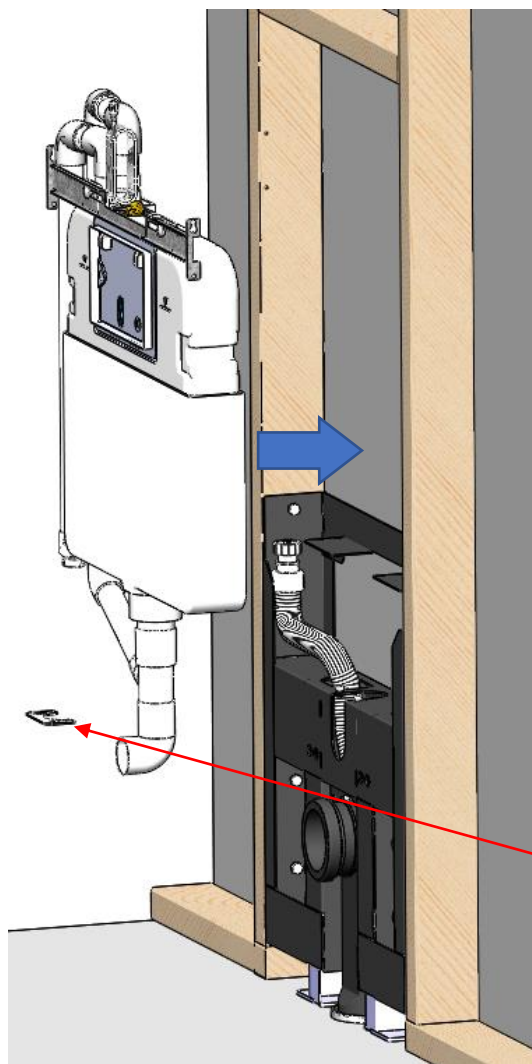


Assemble Odour Duct Work

WARNING: WHEN ASSEMBLING DUCTWORK ENSURE O-RINGS ARE LUBRICATED AND PROPERLY SEATED. PINCHED OR INCORRECTLY INSTALLED O-RINGS RESULT IN **WATER LEAKS** INSIDE THE WALL CAVITY ONCE IN OPERATION.

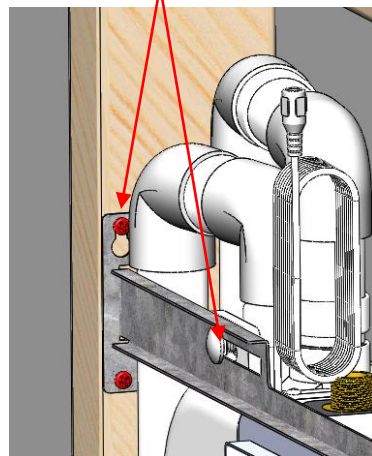


Install cistern



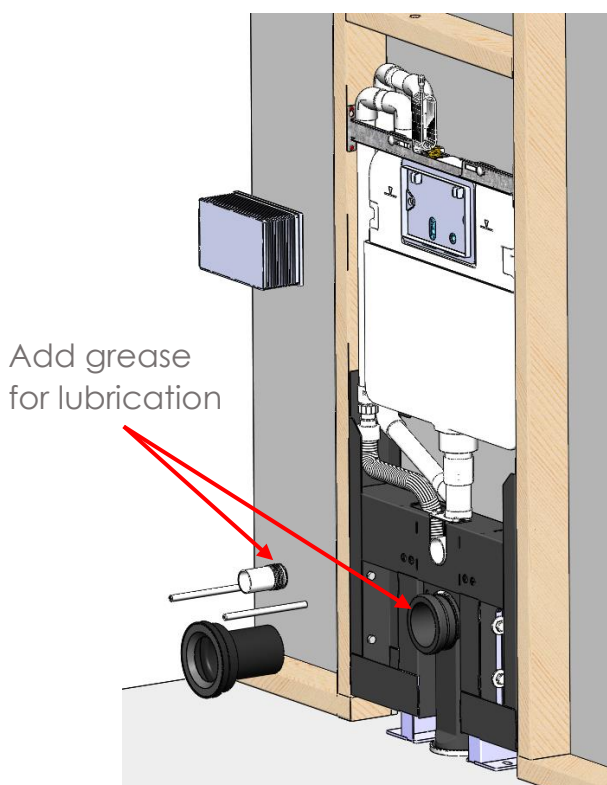
Fasten Cistern Mounting Bracket with 8 gauge screws.

Tighten carriage bolts fixing cistern to the bracket



Connect flexible hose to cistern. Do not over tighten

Secure cistern flush pipe with this bracket and M6 socket head screws

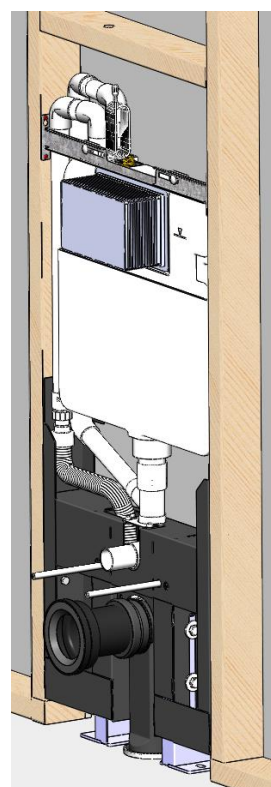


Add grease for lubrication

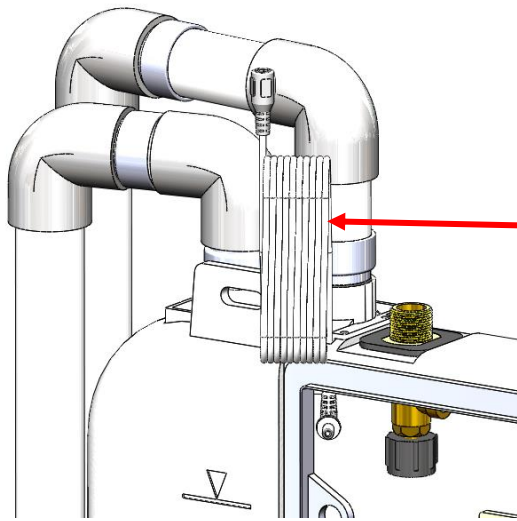
Install:

- Flush panel dust cover
- Flush pipe
- Waste Pipe
- Pan mounting rods

Cover openings with tape to prevent dust ingress



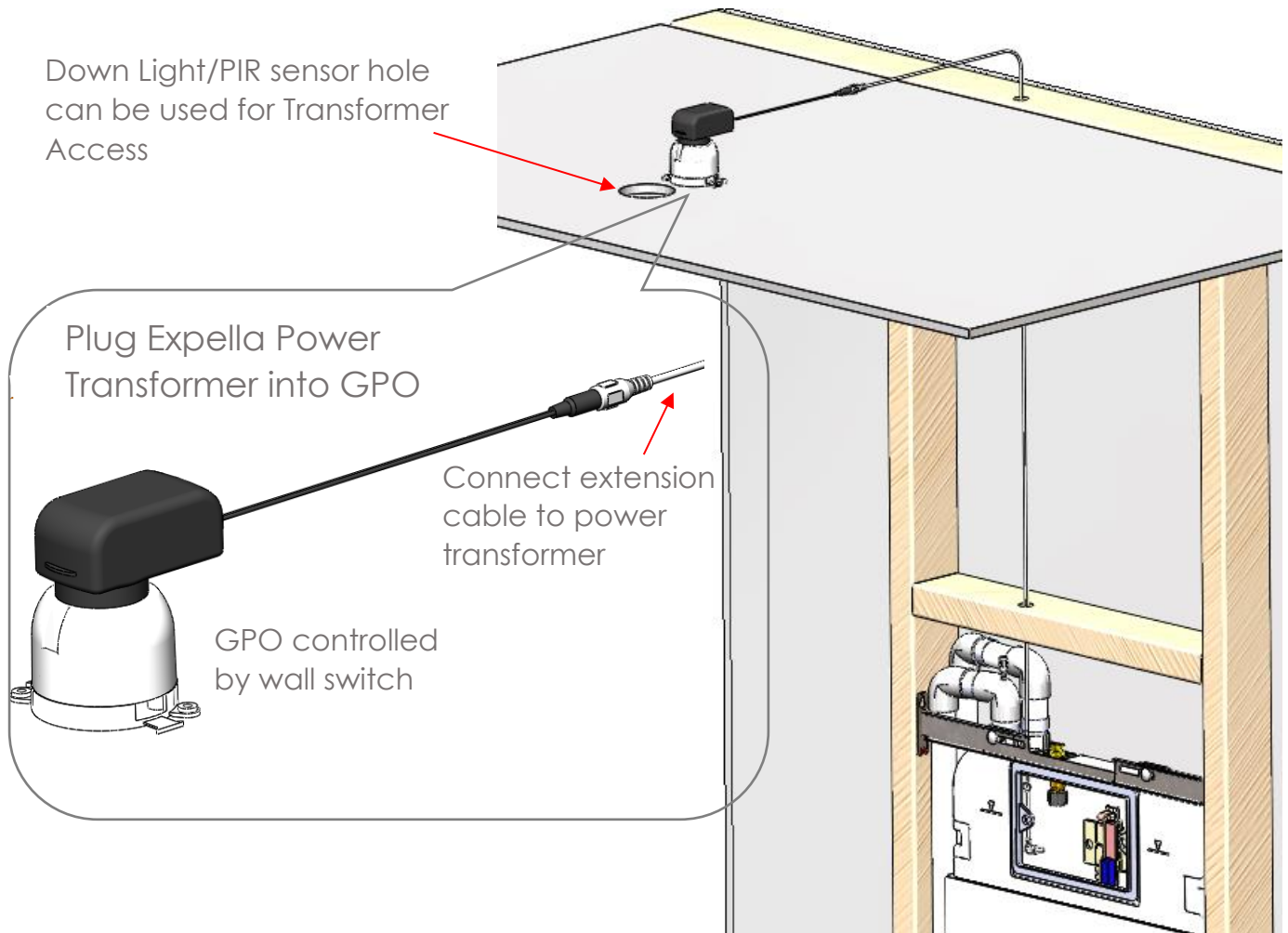
HARD WIRED ELECTRICAL CONNECTION



Fan power cable supplied like this. Route through wall as shown below.

Ensure sufficient cable length is left to connect the odour control fan

Down Light/PIR sensor hole can be used for Transformer Access

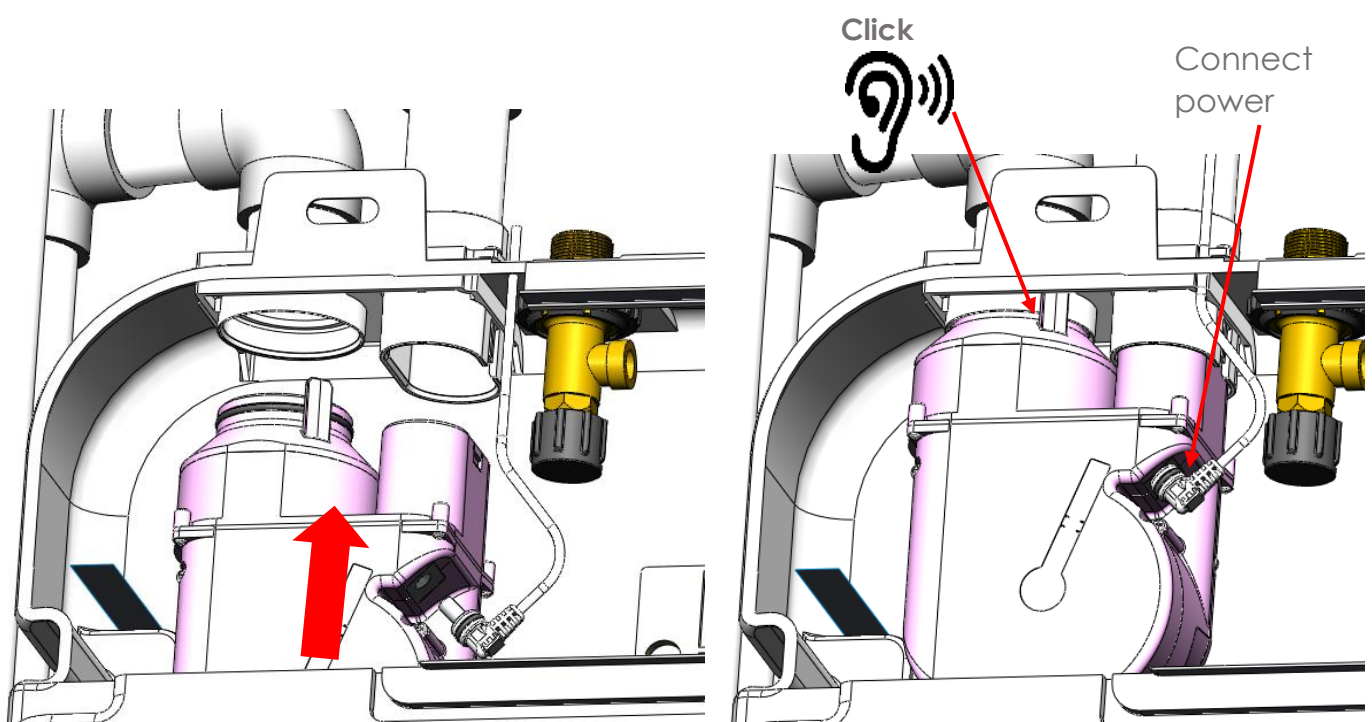
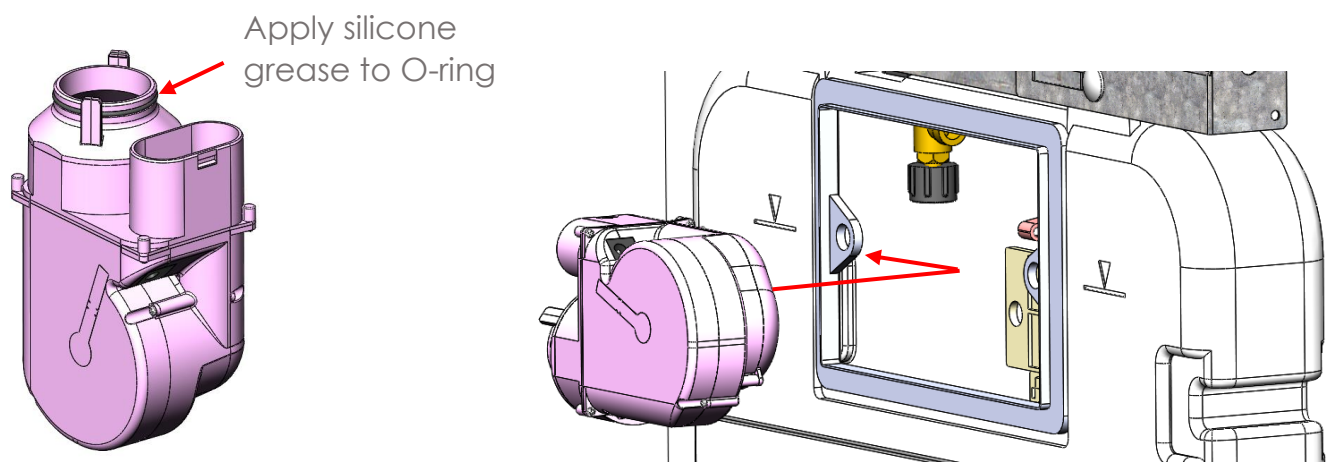
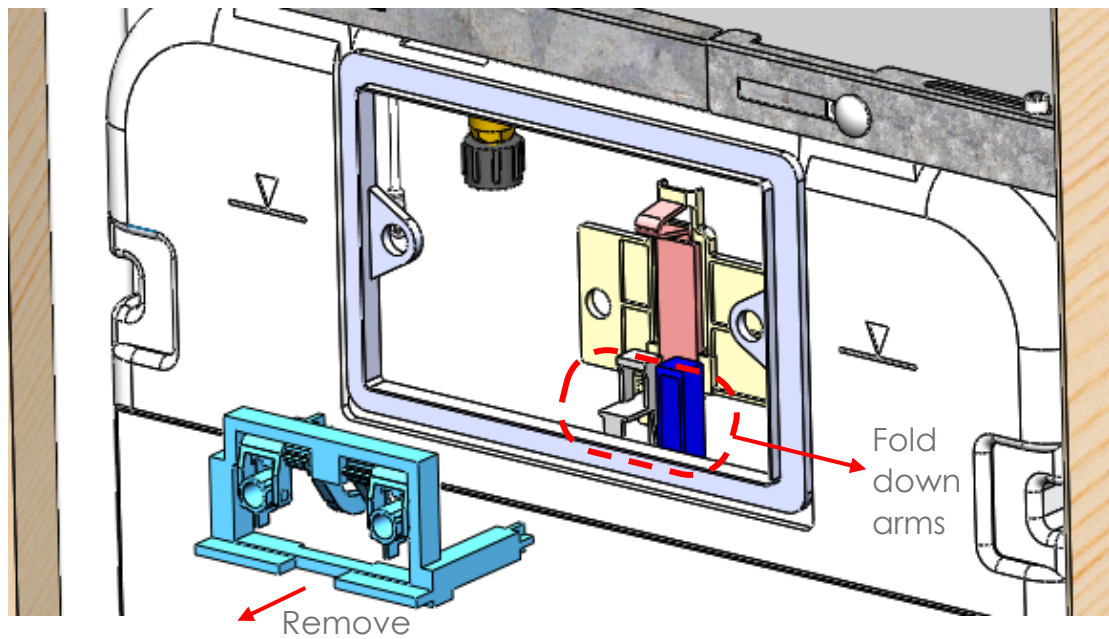


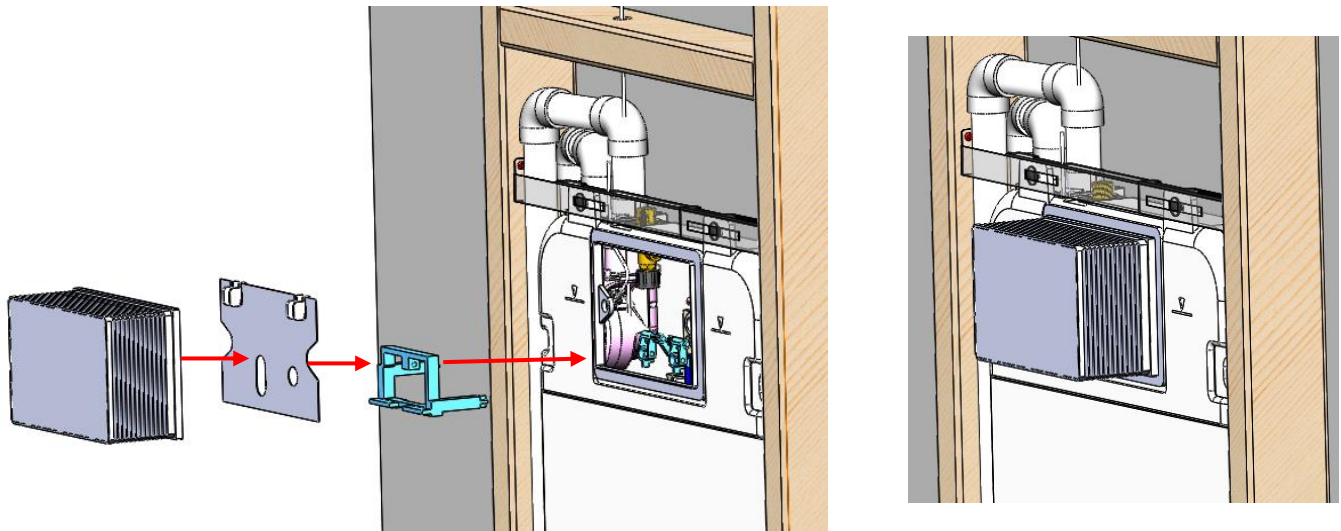
Have a qualified electrician install a GPO within 3.5 meters of cable length to the toilet. To activate the Milu odour control device, use either **Expella PIR motion sensor*** or a wall switch. The switch can either be shared with the bathroom light, exhaust fan or by a designated switch. The location of the GPO should allow future access to the 12VDC power transformer that powers the Milu odour control device.

*PIR sensor supplied separately. Refer to PIR sensor instructions for installation details.



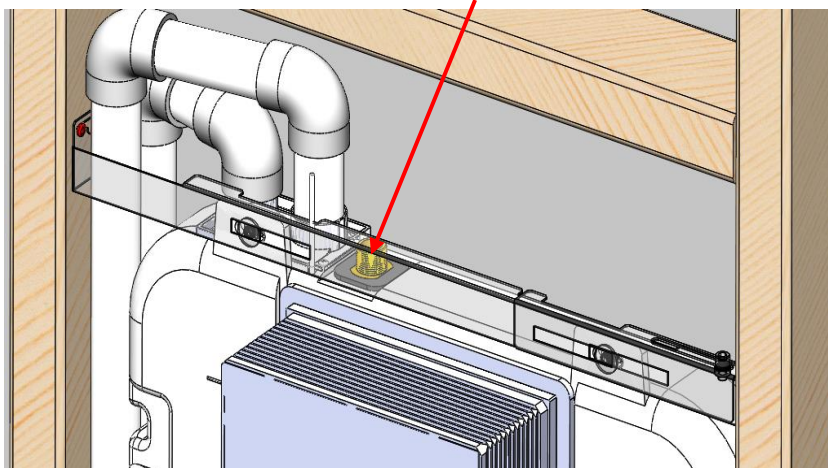
Install odour control fan





Connect water supply

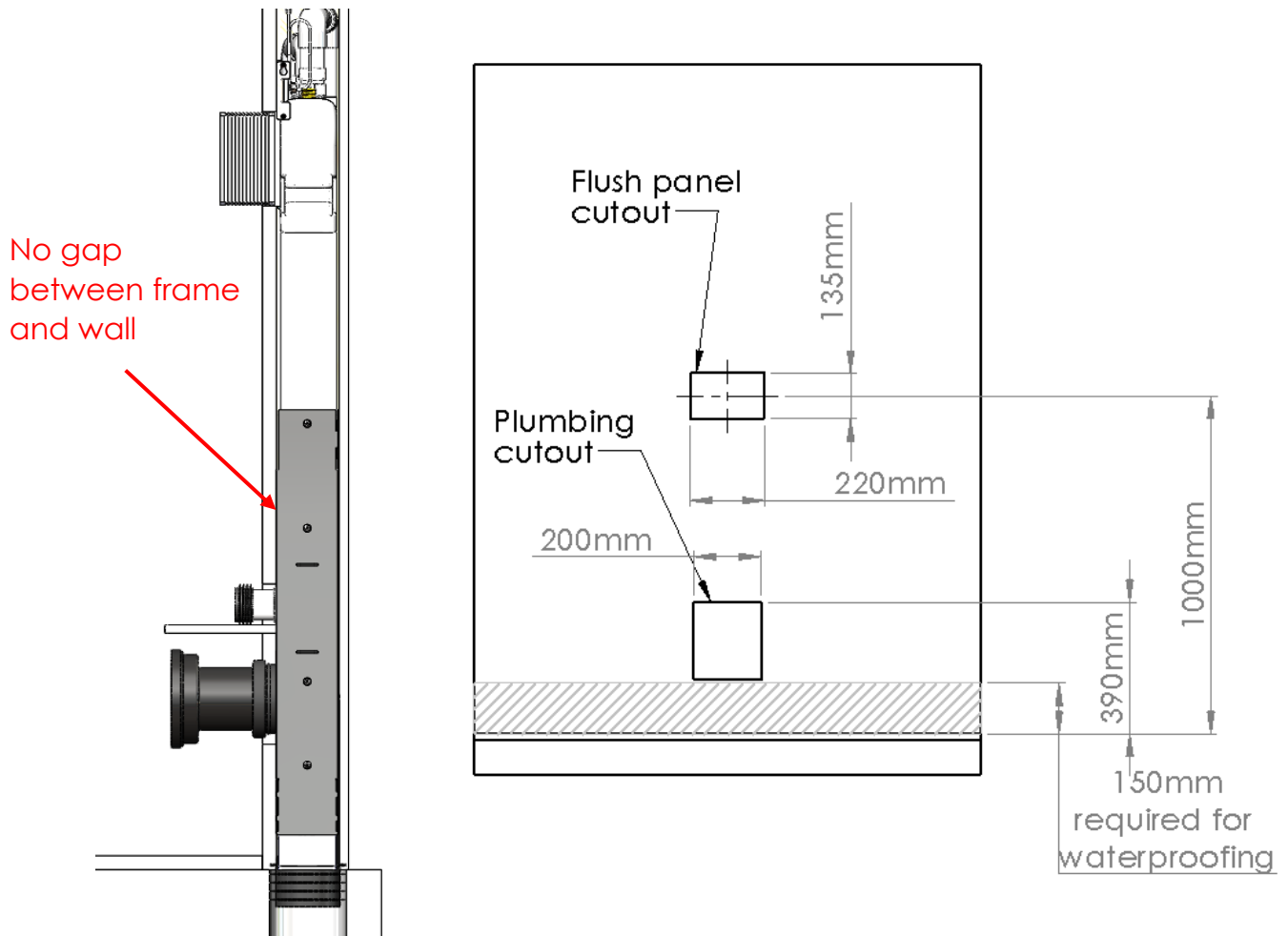
Connect water supply (G1/2")



Sheet (and tile) wall

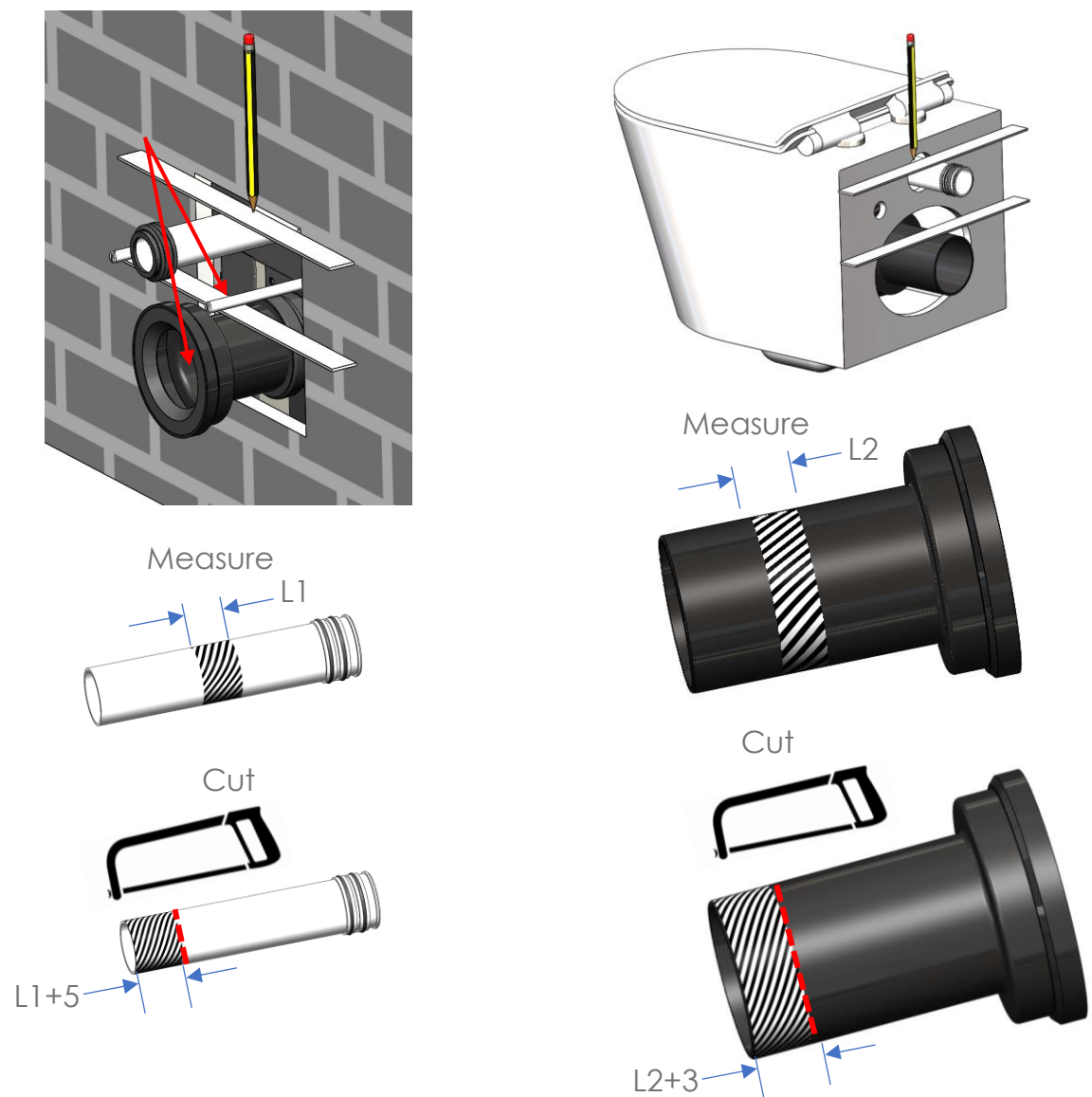
Prior to sheeting, test flush cistern (catch water in a bucket) and check for leaks around odour control ducting. Check power to the fan.

WARNING: There must be no gaps between the steel frame, wall sheeting and tiles. Failure to adhere to this may result in damage sheeting and/or tiles when the toilet pan is installed.

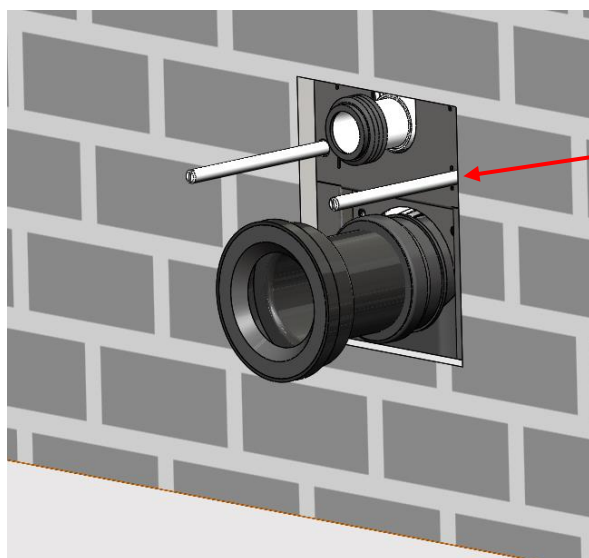


Cut the flush and waste pipe to length

Use straight edge to mark wall line on flush and waste pipes



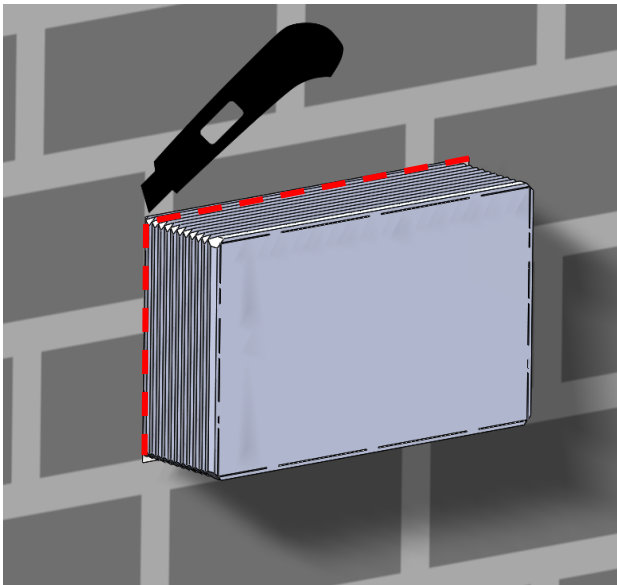
Debur cut edges and lubricate prior to installing



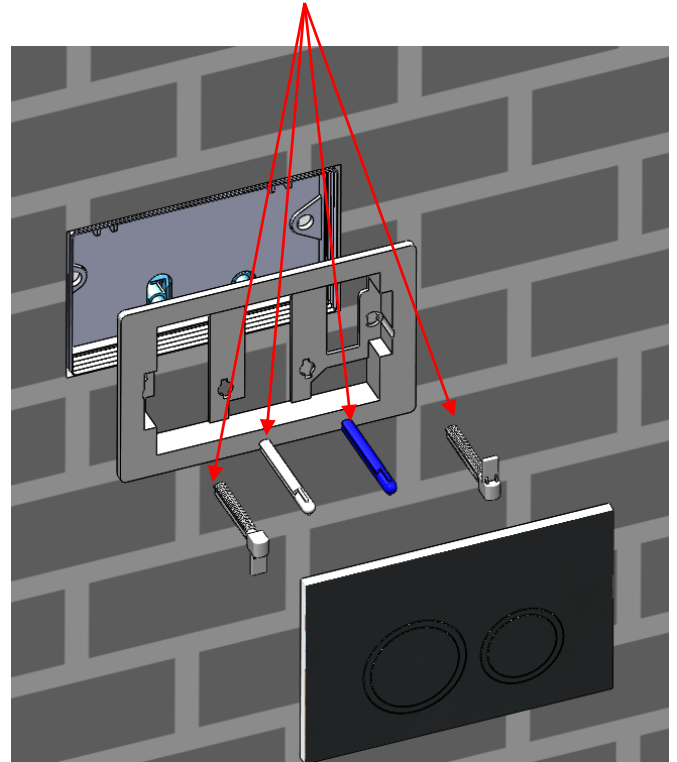
measured rods may require cutting down to length to suit a particular pan



Install flush buttons



Snap off ends to adjust length

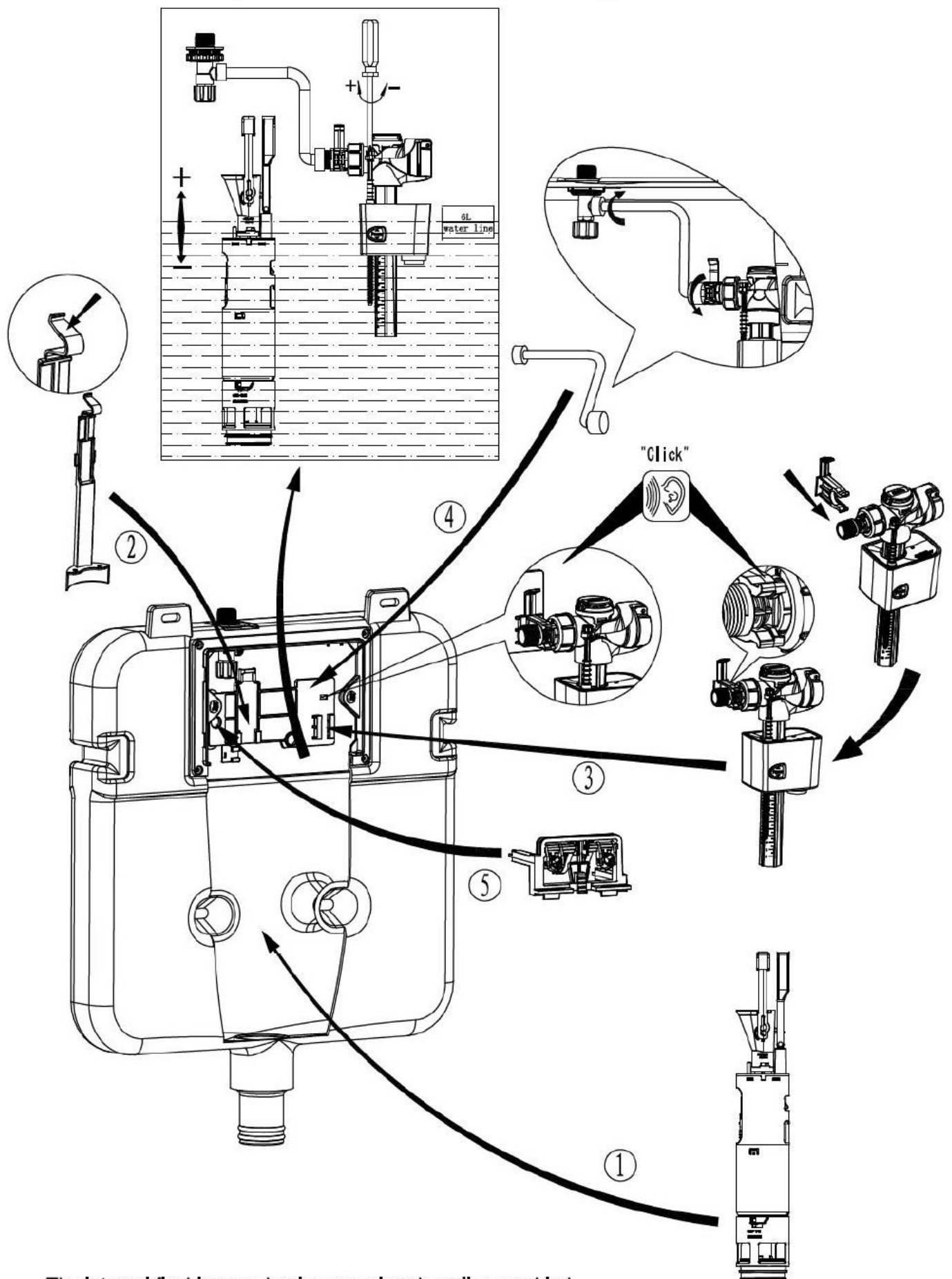


Install Pan

Refer to pan instruction manual for details.



Internal flushing mechanism assembly drawing



The internal flushing mechanism are already well-assembled and above picture only for reference.



TROUBLESHOOTING ODOUR CONTROL

Problem	Issue	Resolution
Odour not evacuating after installation	Fan not running	Check mains power supply is present at the transformer.
	Flexible hose is disconnected from waste pipe	Pull toilet forward and reconnect.
Sewer odour is present	Valve stuck open	Unclip fan. Holding in the correct orientation, give the fan a shake up and down. The valve should open and close. Check for obstructions.
	Flexible hose is disconnected from waste pipe	Pull toilet forward and reconnect
Odour not evacuating after duration of normal use	Fan not running	Check mains power supply is present at the transformer.
		Faulty power transformer – requires replacement
		Faulty fan – requires replacement

SPECIFICATION

Toilet Specification

Water rating	WELS 4 Stars at 4.5L flush and 3L half flush
Compliance	Complies with Australian Standards – AS1172.1, AS1172.2,
Fixing	Toilet pan screwed and/or bonded to floor
Rim configuration	Rimless
Bowl configuration	S-trap or P-trap
Material	Vitreous china
Seat	Soft close
Water inlet	G ½" Connection at top of concealed cistern
Power supply	12-volt, 8 W (transformer provided)
Fan	Expella Odour Control fan

Fan Specification

Compliance	Complies with Australian Standards –ATS5200.425: 2009
Power supply	12-volt, 8 W (transformer provided)
Flow rate	5L/s (with common sewer back pressure
Max Back Pressure	10 KPa (positive pressure from sewer)
Operating temperature	0 to 50 degree Celsius

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