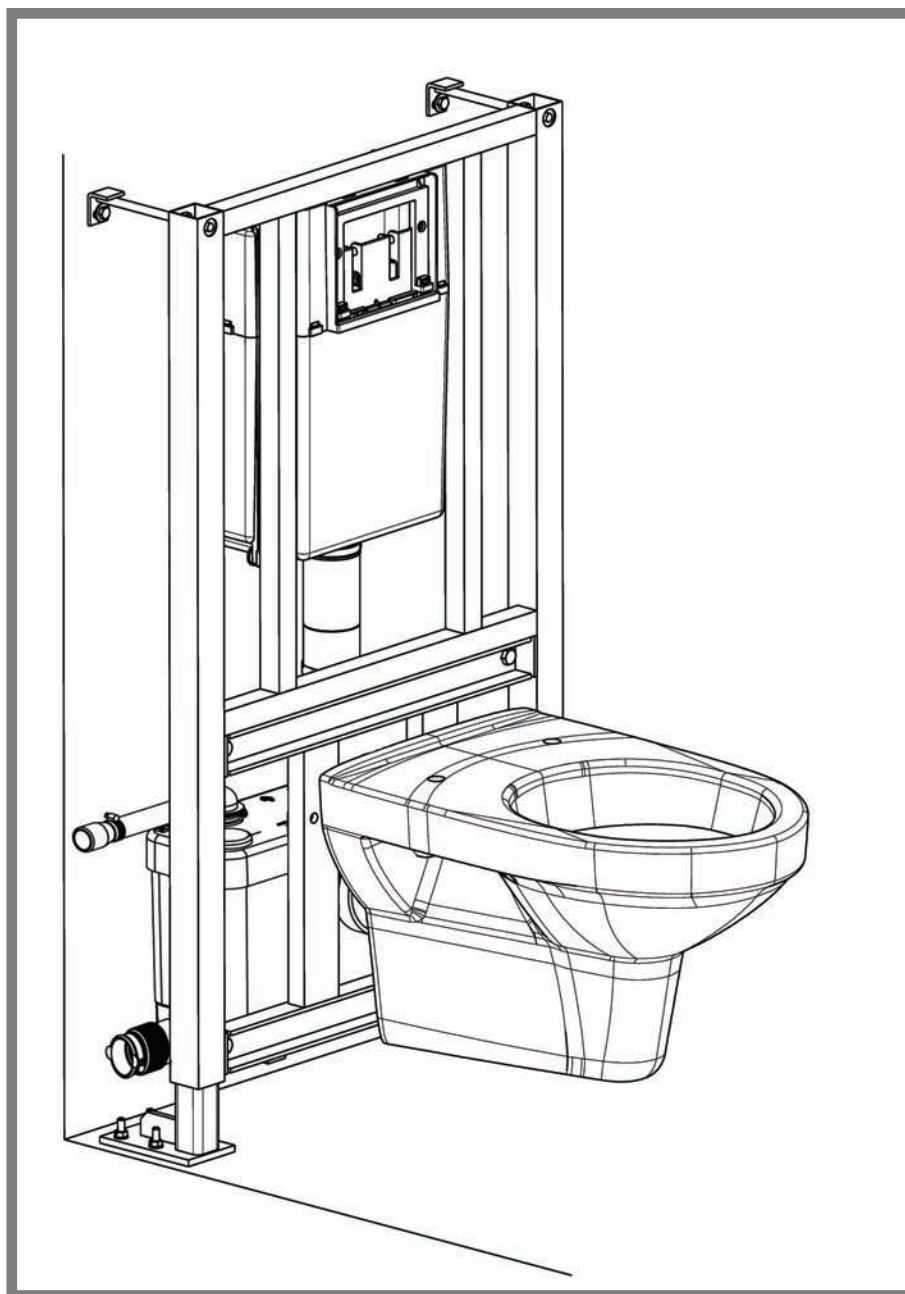


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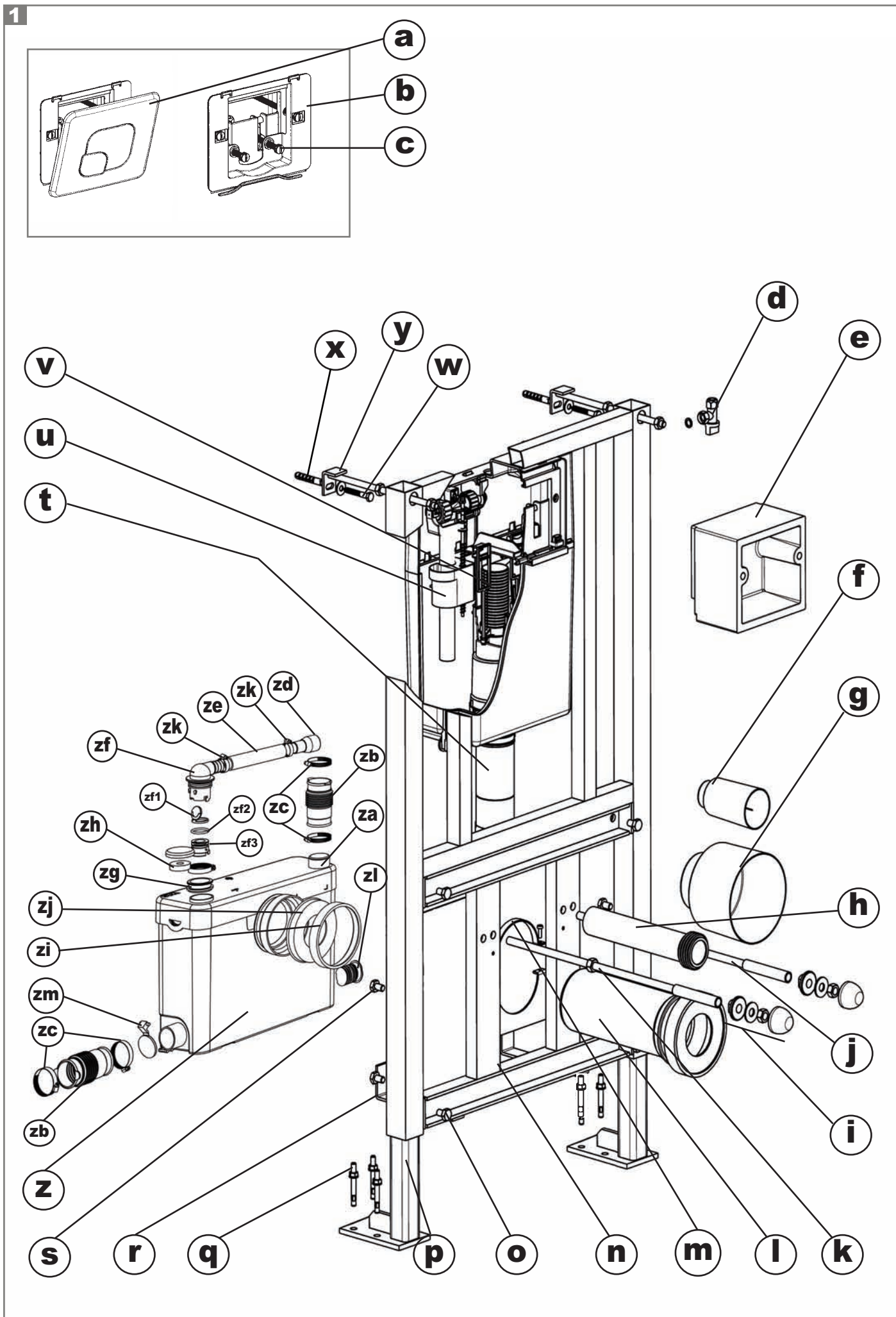


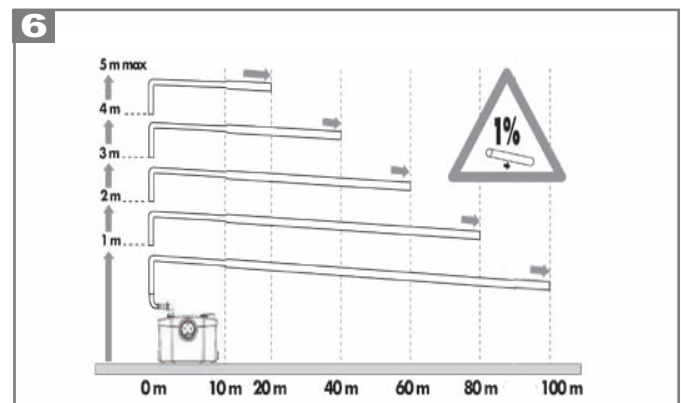
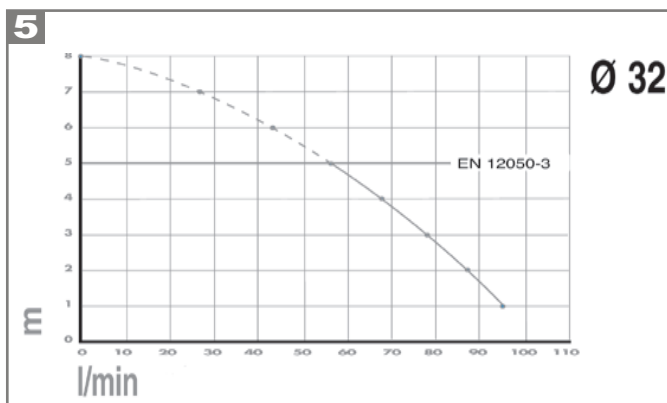
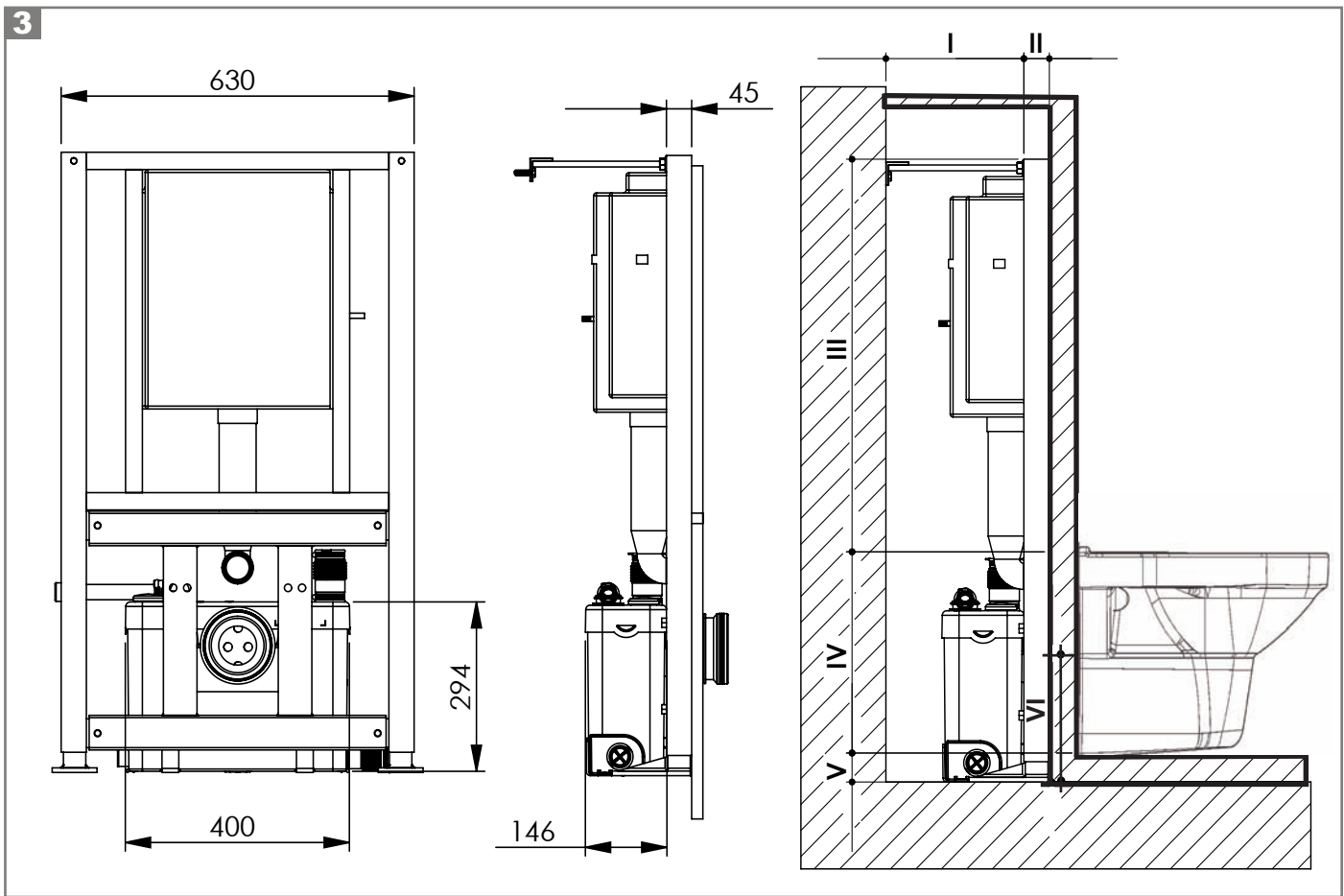
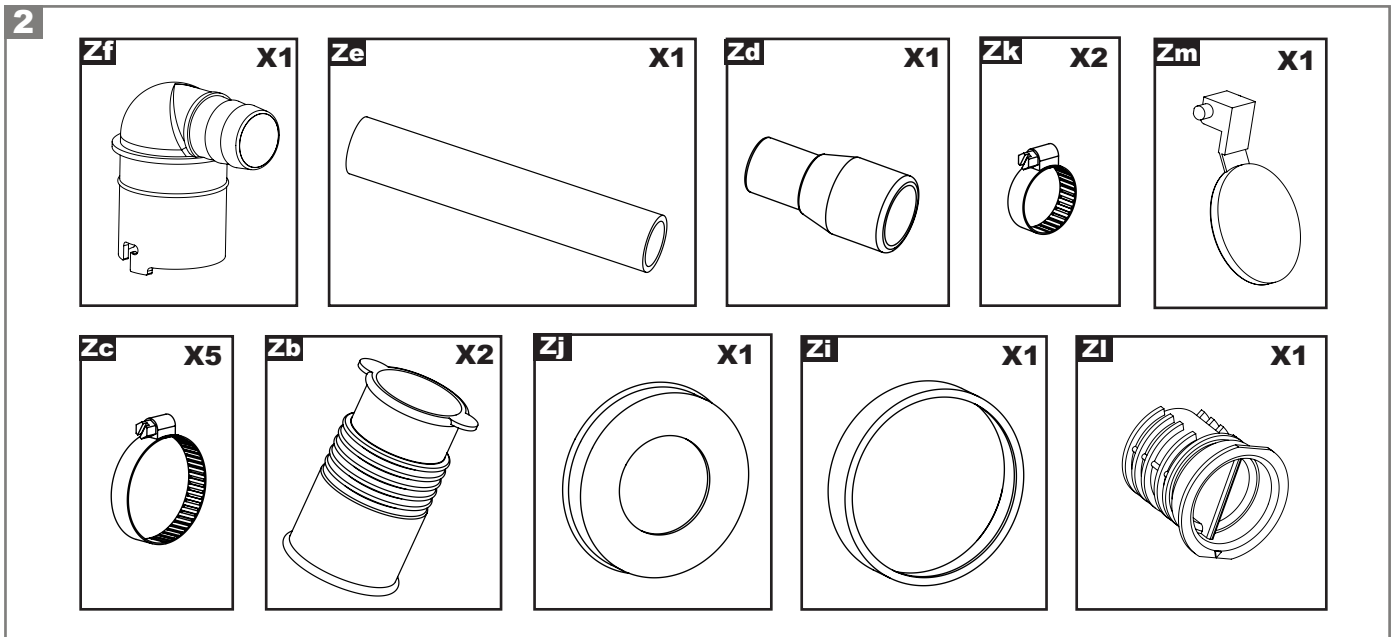
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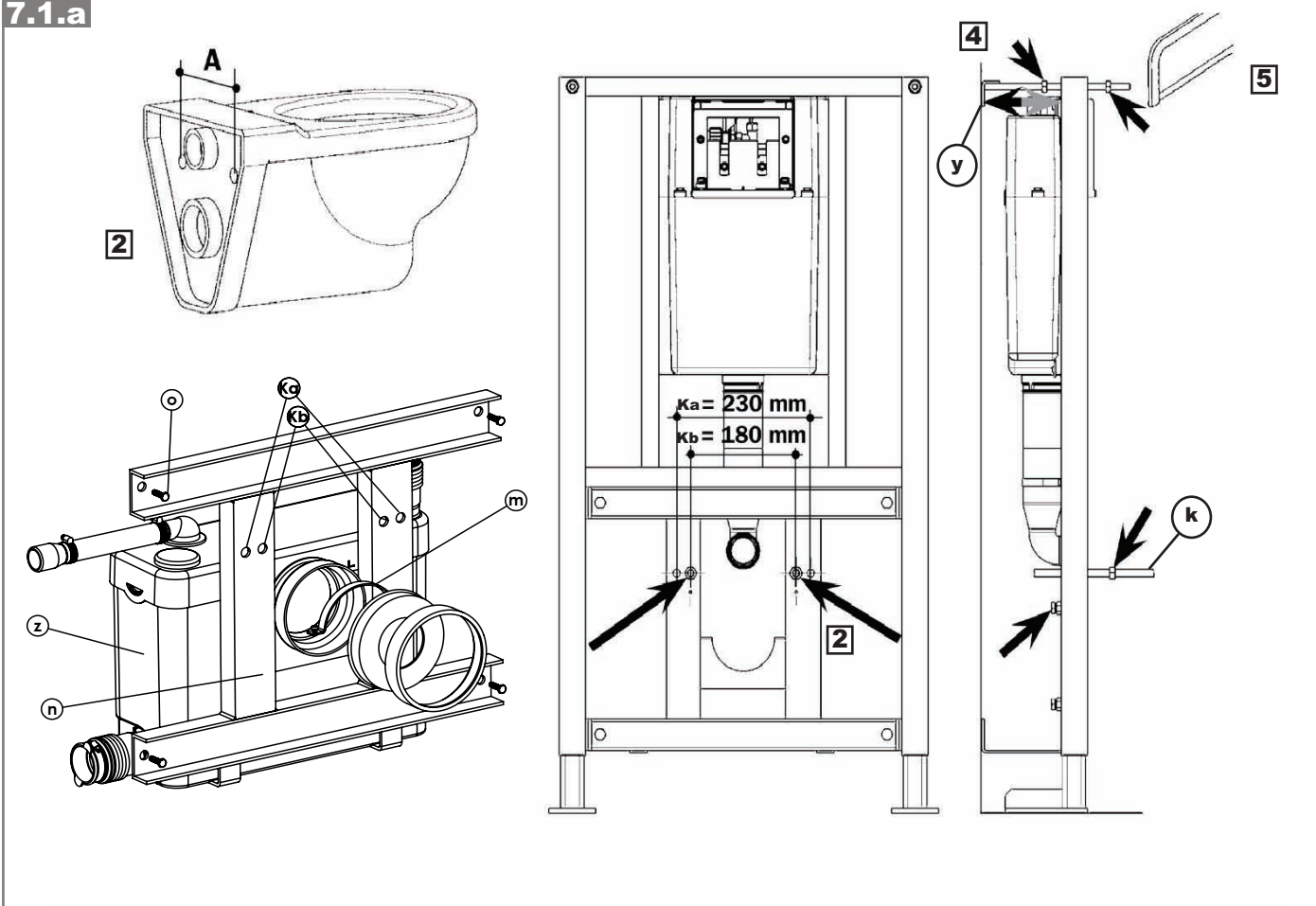
**NOTICE DE MONTAGE ET DE MAINTENANCE
INSTALLATION AND MAINTENANCE INSTRUCTIONS
MONTAGE- UND WARTUNGSANLEITUNG
INSTRUCCIONES DE MONTAJE Y MANTENIMIENTO
MONTAGE- EN ONDERHOUDSVOORSCHRIFTEN
MANUAL DE MONTAGEM E MANUTENÇÃO**

SANIWALL[®] Pro

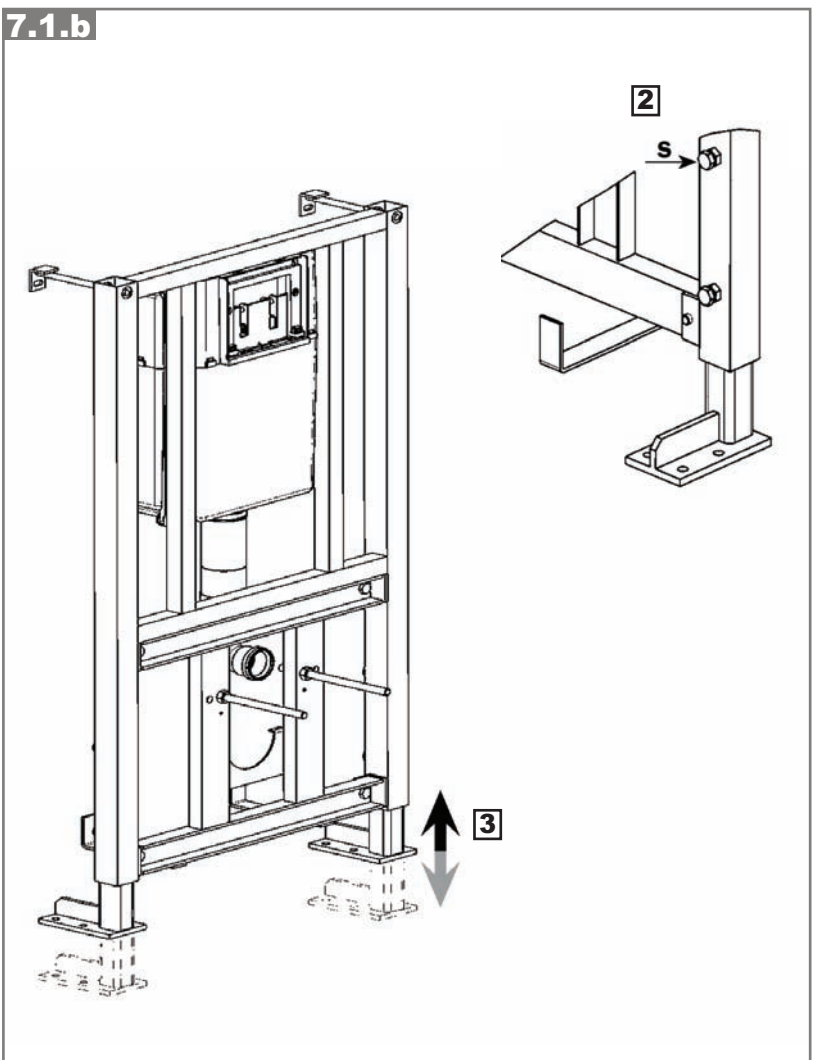




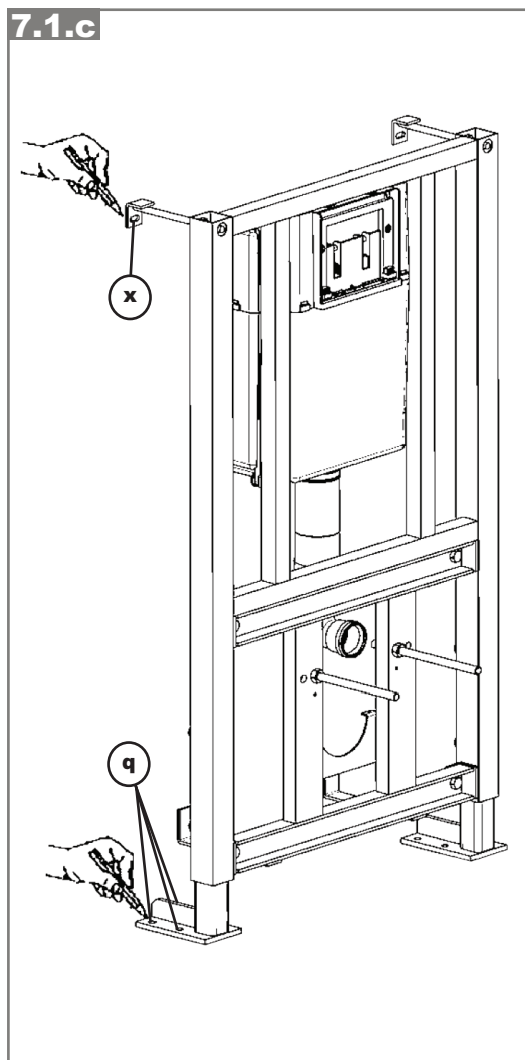
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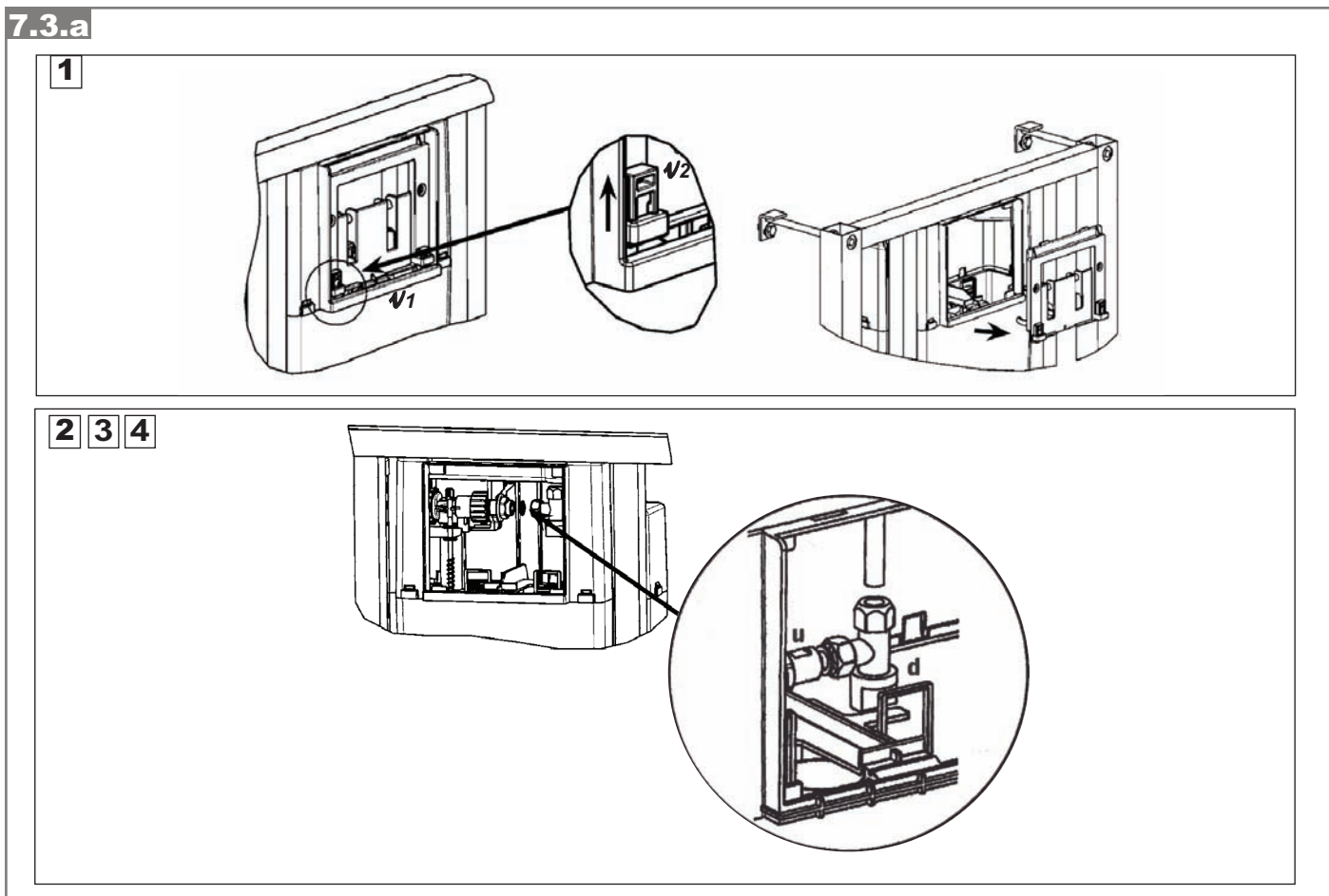
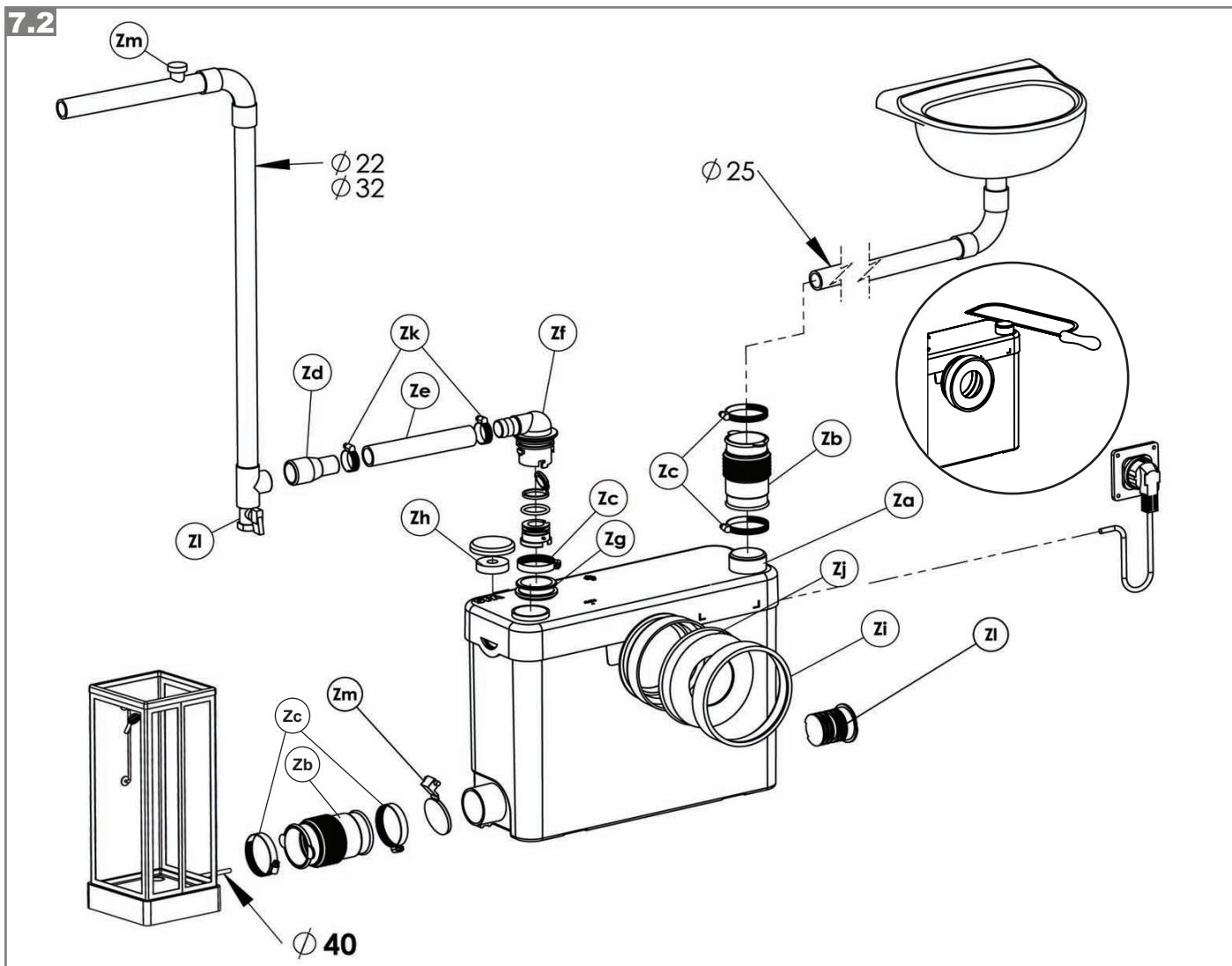


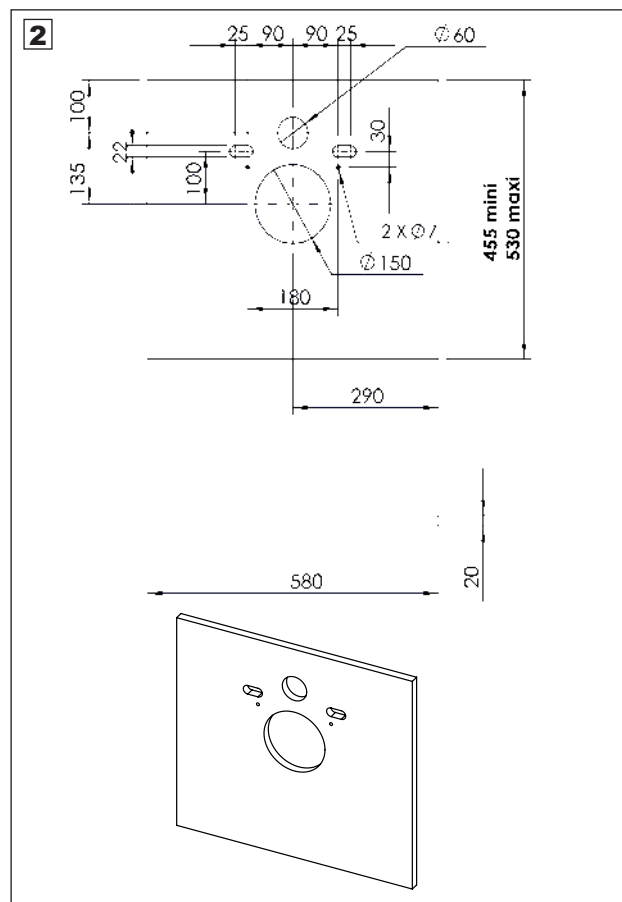
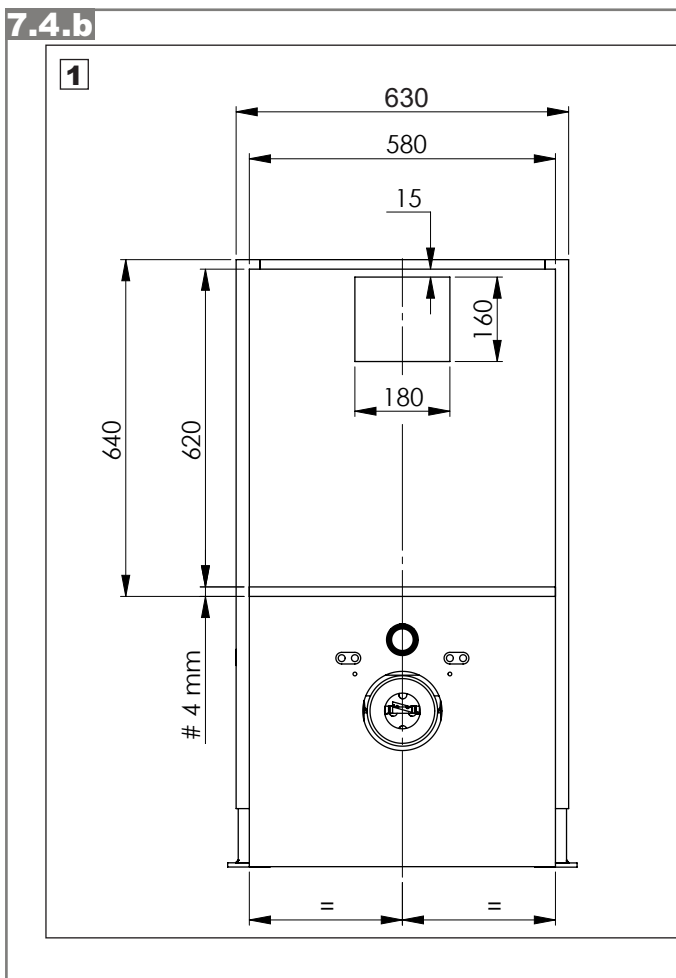
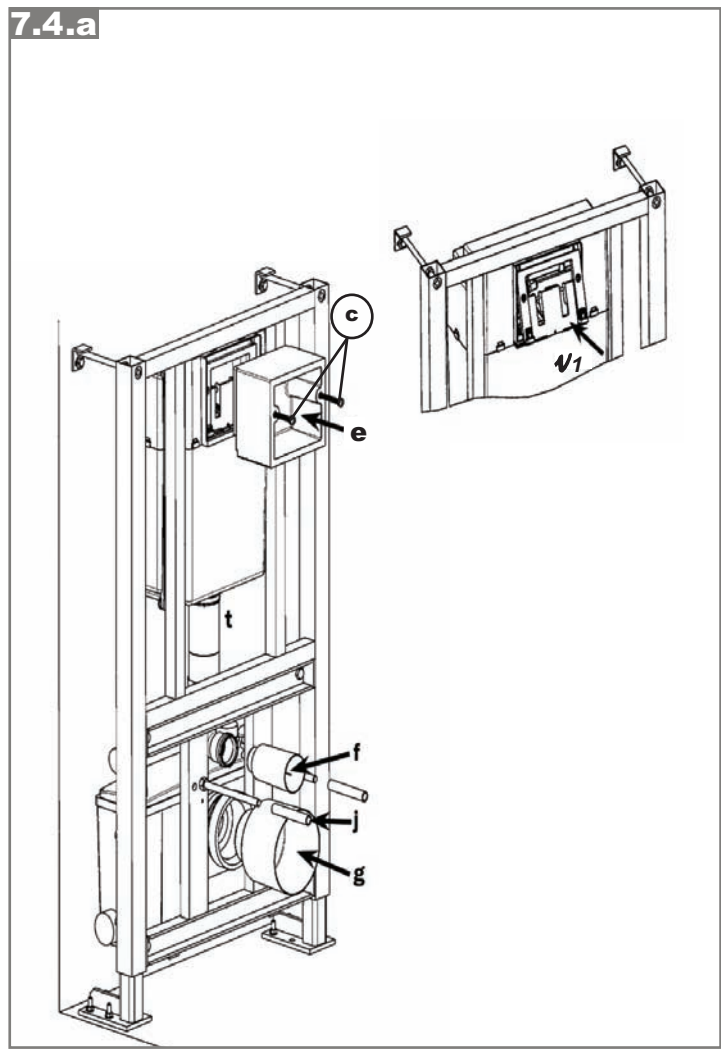
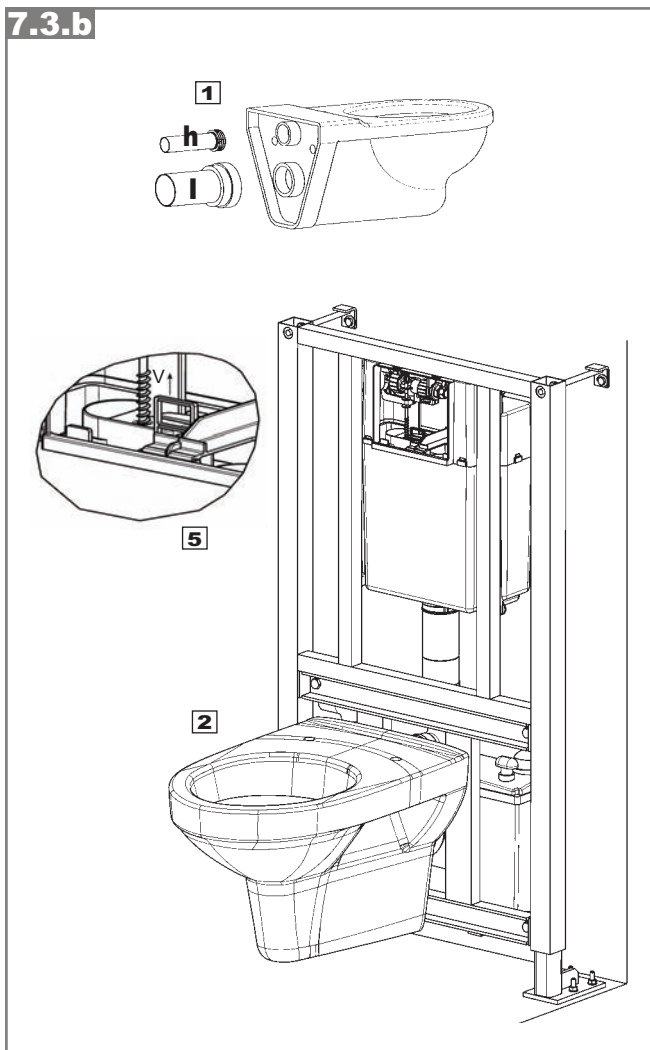
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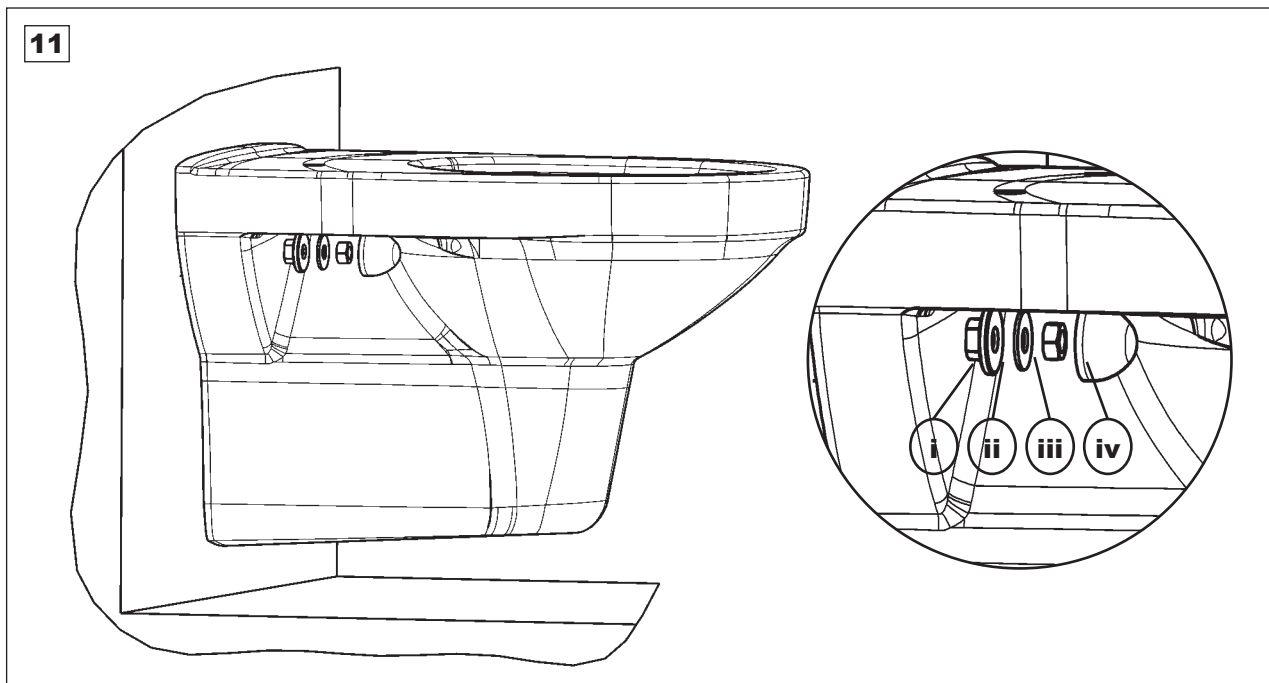
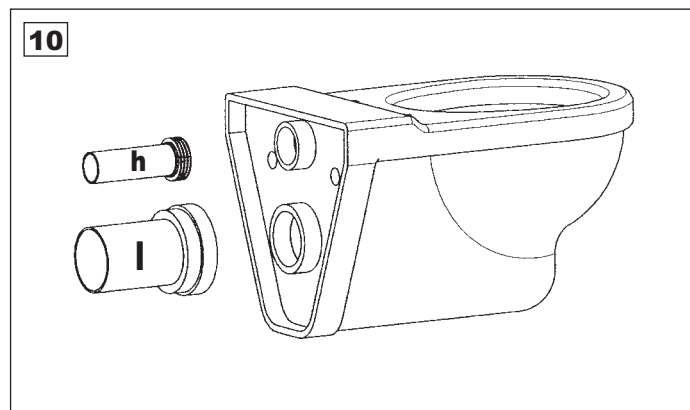
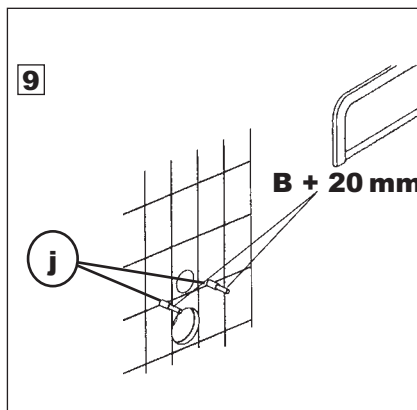
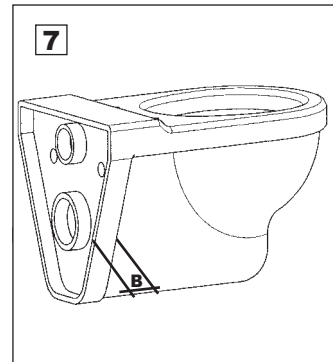
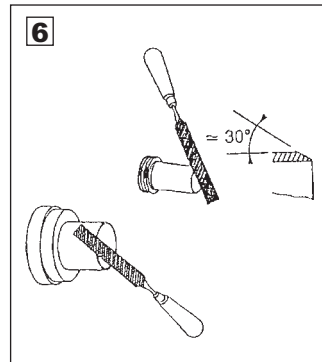
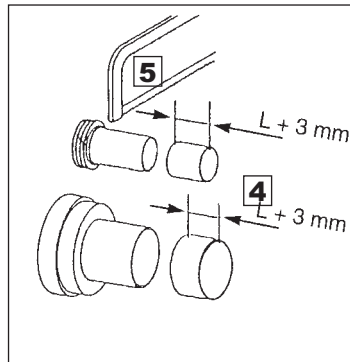
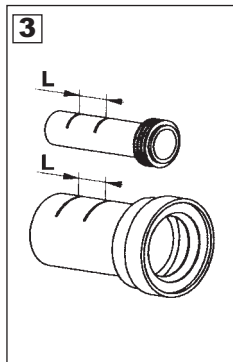
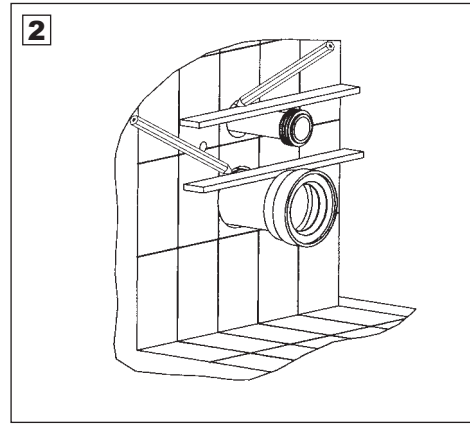
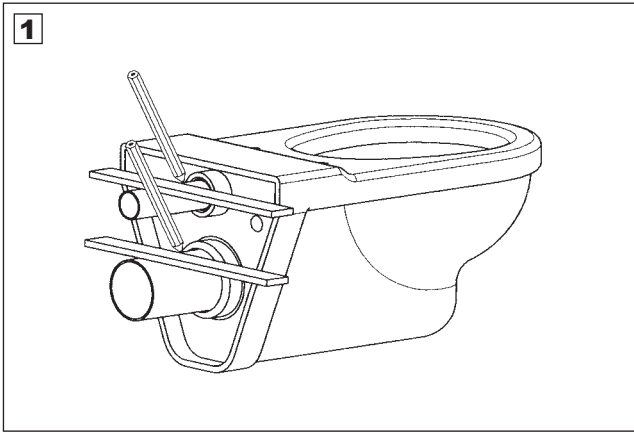
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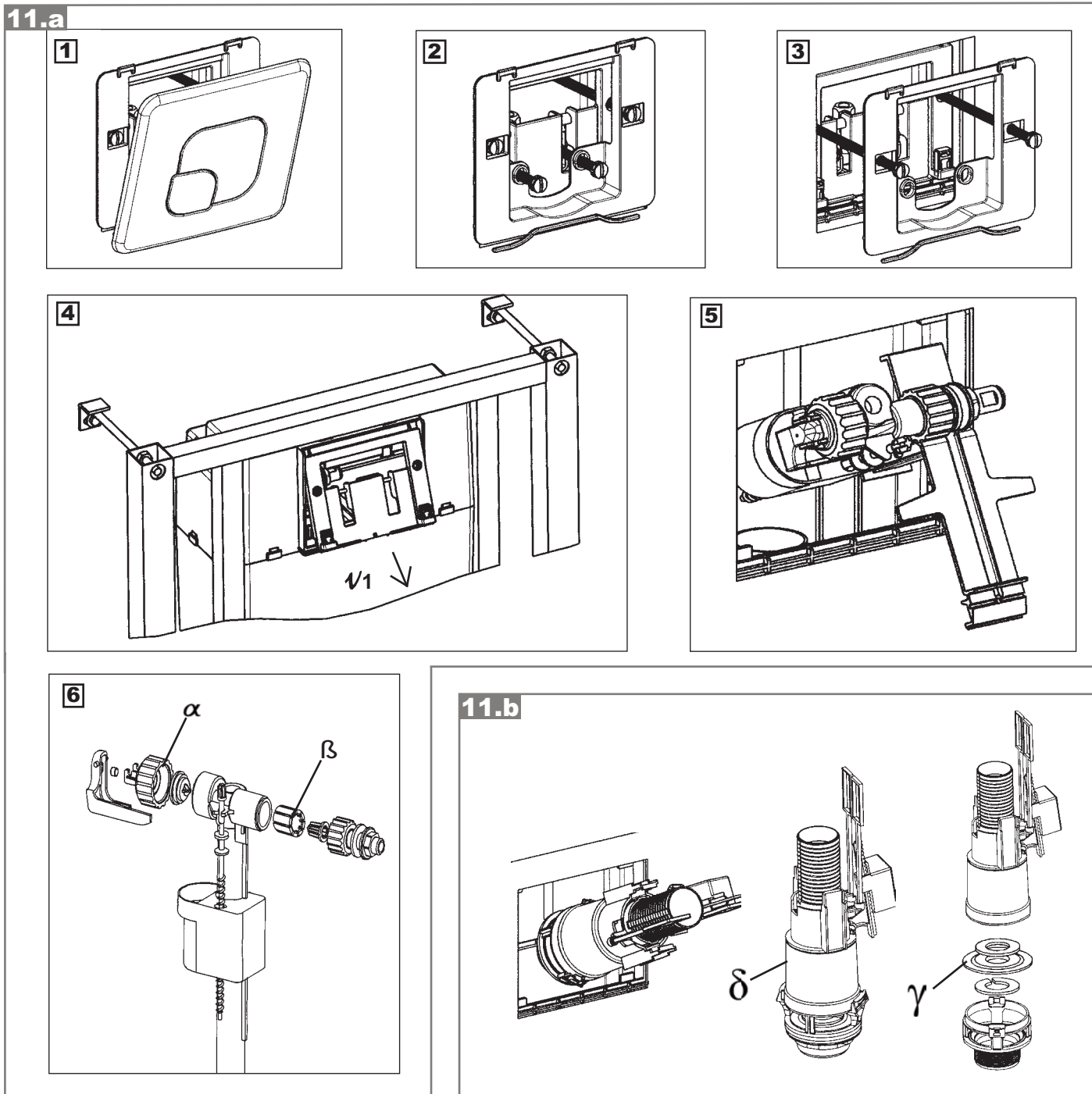
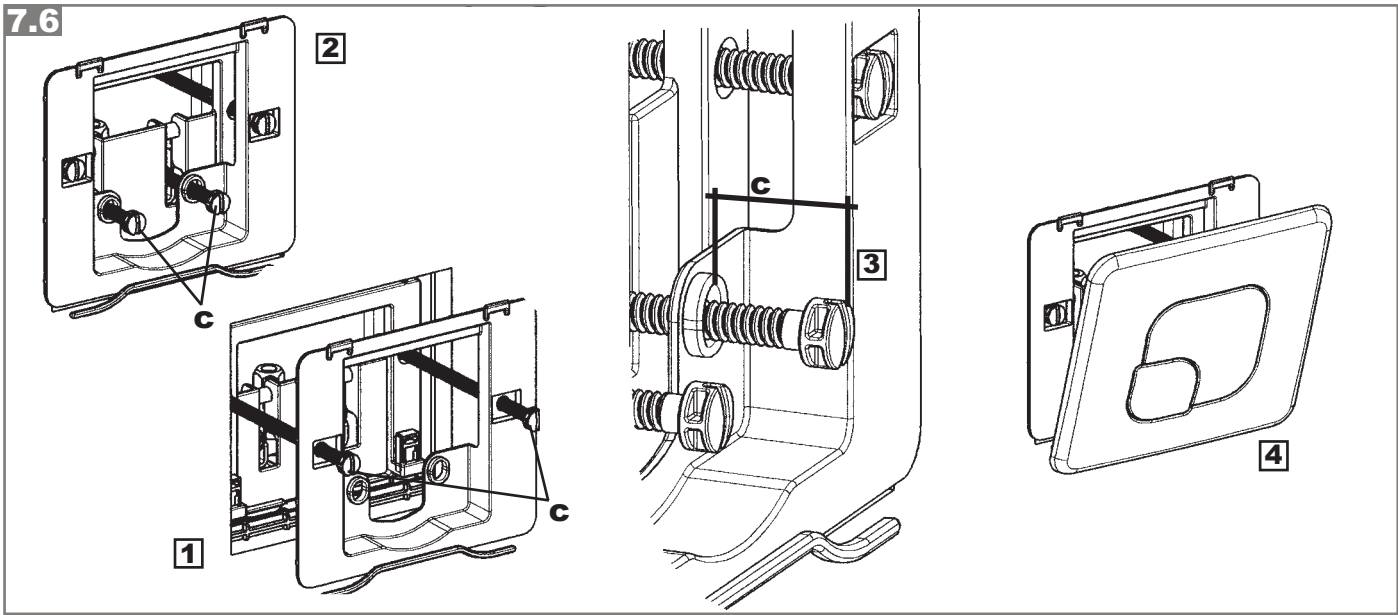






7.5





UK

1 DESCRIPTION (see fig.1)

- | | |
|---|---------------------------------------|
| a Flush plate | v Mechanism |
| b Flush plate backplate | w Lag screws and washers (x 2) |
| c Fixing and actuation screws (x 4) | x Dowels (x 2) |
| d Stop tap | y Wall fixing lugs (x2) |
| e Flush plate housing template | z SANIWALL PRO |
| f Supply elbow flange | za Washbasin inlet |
| g Connection sleeve flange | zb 46/40 sleeve |
| h Supply sleeve | zc 53/32 clamp |
| i Bowl fixing kit | zd 23/32 reducer |
| j Flexible tube (x 2) | ze Flexible connection pipe |
| k Bowl anchor rods + screws nuts (x 2) | zf Discharge elbow |
| l Discharge sleeve | zf1 Non-return valve |
| m Pipe fixing clip/clamp (+ 2 bolts) | zf2 Seating seal |
| n Removable frame | zf3 Valve seat |
| o Removable frame bolts (x 4) | zg Discharge soil pipe |
| p Adjustable feet (x 2) | zh Carbon filter |
| q Metal dowels (x 4) | zi Toilet inlet seal |
| r Macerator support | zj Inlet seal cap plate |
| s Set screws (x 4) | zk 20/32 clamp |
| t Supply elbow | zl Tank plug |
| u Ballcock | zm Inlet valve flap |

Required tools:

- Spanners and wrenches

Advice:



- Retain the product packaging during installation, as it contains a cut-out template
- Retain these instructions for any future maintenance tasks

NOTICE

SANIWALL®Pro is a wall unit with integrated macerator specially designed for the installation of all types of wall-hung toilet, shower and washbasin. **SANIWALL®Pro** is designed for domestic use only.

Installed and maintained correctly, **SANIWALL®Pro** will deliver a high level of performance, safety and reliability.

Please pay particular attention to the following:

-  possible danger to personnel,
-  warning of potential electrical hazard,

“WARNING” A general warning that failure to follow instructions could result in poor functioning of the equipment. Please contact our customer services for any additional information.

2 LIST OF SUPPLIED PARTS (fig.1 and fig.2)

3 DIMENSIONS (fig.3)

- I** - Depth of frame = Between 200 and 245mm
- II** - Thickness of casing = Between 16 and 100mm
- III** - Height = Adjustable to between 1080 and 1280mm
- IV** - Bowl height = 400 mm min (finished floor)
- V** - Max. thickness of finished floor = 185 mm
- VI** - Height between floor and centre of macerator discharge outlet = 220 mm mini

4 SANIWALL® Pro MACERATOR : AREA OF USE AND TECHNICAL DATA

Area of use	Discharge of toilet waste Discharge of washbasin waste Discharge of shower waste
Type	P 30
Maximum vertical discharge	5m
Voltage	220-240 V
Frequency	50 Hz
Maximum absorbed power	400 W
Maximum absorbed current	1.8 A
Appliance class	I
Protection index	IP44
Net weight	5.6 KG

WARNING: This equipment should not be used for purposes other than those described in these instructions.

5 PERFORMANCE CURVE (fig.5)

6 COMBINATIONS OF HEIGHT AND LENGTH OF THE DISCHARGE PIPE (fig.6)

7 INSTALLATION (figs. 7.1 to 7.6)



SANIWALL®Pro is designed to be flush-mounted. Installation should only be attempted by qualified persons.

The macerator must be located in the same room as the toilet and any other sanitary installations that may also be connected.



The equipment must be easily accessible for checking and maintenance purposes.

7.1 PREPARING THE FRAME



7.1.a FITTING THE TOILET BOWL ANCHOR RODS AND FIXING TO THE WALL

- 1 - WARNING:** This frame should be fitted on a load bearing wall if the floor structure is lightweight or on a partition wall if the floor slab is suitable (NF safety test: 400kg for wall-hung bowl). For packaging purposes, the feet are folded inwards. To reposition them correctly, they should be turned outwards by a quarter turn.
- 2 -** Measure the centre-to-centre distance (**A**) between the bowl anchoring holes: there are only 2 possible measurements: (**Ka = 230 mm**) and (**Kb = 180 mm**). Insert the rods  into the holes of the frame, as per the centre-to-centre distance and fix them in place using the nuts.
- 3 -** Place the frame in position.
- 4 -** Place the wall fixing lugs  against the wall and fix them to the frame using the nuts, after having checked that the frame is vertical
- 5 -** Using a hacksaw, cut off any excess threaded rod from the fixing lugs.

7.1.b ADJUSTING THE HEIGHT OF THE FRAME

- 1 -** Place the frame in its desired position.
- 2 -** Unscrew the 4 set screws .
- 3 -** Adjust the height of the feet so that the front of the bowl is 400mm from the finished floor.
- 4 -** Check that the frame is horizontally level and retighten the 4 set screws .

7.1.c PREPARING FIXING

- 1 -** Mark out your drill points (2 on the wall and 6 on the floor).
- 2 -** Move the frame away and, using a 10mm bit, drill 2 holes (min. depth 70mm) in the wall. Use an 8mm bit to drill 6 holes (min. depth 65mm) in the floor.
- 3 -** Insert the dowels  and  into the holes.
- 4 -** Reposition the frame and move on to connecting the **SANIWALL®Pro** macerator.

7.2 INSTALLING THE MACERATOR (fig 7.2)

7.2.a PREPARING THE MACERATOR

- 1 - From the accessories supplied with the macerator, select the white seal **Z1** and the cap plate **Z1**. Fit these 2 parts on the macerator's large inlet.
- 2 - From the accessories supplied with the macerator, select the discharge elbow **Z4**, the white pipe **Za**, the two small clamps **Zk** and the 23/32 reducer **Zc**. Connect these parts together (the white pipe can be cut according to the required discharge distance).
- 3 - Depending on the side chosen for the discharge stack, position the assembly and insert the elbow **Z4** into the soil pipe **Zg** and connect it using the clamp **Zc**.
- 4 - If a washbasin is to be connected, you must first trim off the top of the shaft **Za** using a hacksaw, ensuring that the edges are smooth. Pull the flexible sleeve **Zb** over the shaft and fix in place using the clamp **Zc**.
- 5 - If a shower is to be connected, unscrew one of the tank plugs **Z1** according to where the shower will be. Fit a flexible sleeve **Zb** on the water inlet, fixing it in place with a clamp **Zc**.

WARNING: When connecting a shower, ensure that the base of the shower tray is raised at least 13cm from the floor. If you raise the **SANIWALL®Pro** unit, please bear this in mind when calculating the height of the shower tray.

For example, if you raise the unit by 5cm, you will need to raise the shower tray by $13+5=18\text{cm}$ (recommended discharge slope = 3%).

- 6 - Once the macerator is ready (depending on the type of installation) it can then be slid into the frame. You are now ready to fit the pipework and carry out the electrical installation.

If this proves difficult, you should:

- either identify the position of the macerator in relation to the floor and wall, and remove the frame so you can carry out a trial installation, or
- leave the frame in place and remove the central removable frame by removing the screws **Q**, in order to give yourself more room to work in.

7.2.b TECHNICAL ADVICE FOR DISCHARGE PIPEWORK :

- Avoid "low points" in the discharge pipework by keeping it straight with clamps.
- Allow a 1:100 fall for "horizontal" pipe runs
- If vertical lift is required:
Any "uphill" pipework should run directly upwards from the unit.
Maintain a gravitational discharge (1:100 fall).
- We advise fitting a drain-off point **Z1** at a low point, to facilitate maintenance work.
- To prevent siphonage:
- fit a vacuum relief valve **Zm** (Nicoll type or similar) at the highest point in the pipe run, or
- increase the diameter of the horizontal pipework.
- Discharge from the unit should be connected to the soil stack using a strap on boss.
- Ensure pipework is adequately lagged to protect against freezing.

N.B : Any elbow fitted along the discharge pipe will create friction loss in the region of 50cm per elbow. If possible, use smooth curved elbow bends to optimise flow.

- We recommend the installation of an **SFA Sanialarm** external alarm system, which warns the user in the event of macerator malfunction. The drill point is shown on the lid.

7.2.c ELECTRICAL INSTALLATION:



The electrical installation should only be carried out once all plumbing connections have been fitted.

The electrical installation should only be carried out by a qualified person.

The unit must be positioned within easy reach of an electrical point.

The unit's power circuit should be connected to a fully earthed electrical supply (class I) and be protected by a highly sensitive differential circuit breaker (30mA), set to 10A min.

The electrical supply should power the unit only. If you have any doubts, have the installation inspected by a qualified electrician.

Regulations

All wiring should comply with the applicable standards in the country of use (France: NF C 15-100) regarding protection requirements for bathrooms. If you have any doubts, contact a qualified electrician. If the unit cable is damaged, this should be replaced by the manufacturer or after-sales service, in the interests of personal safety.

7.2.d FIXATION DU BROYEUR ET DU BATI


- 1 - Using the half-clamp **m**, fix the macerator onto the frame.
- 2 - Using the screws provided **Q** and **W**), fix the frame in place using the dowels in the floor and wall. The assembly must be extremely solid and comply with NF standards.

7.3 CONNECTING TO THE FEED WATER

7.3.a CONNECTION

- 1 - Remove the frame **V1** of the plate by lifting up the two bolts **V2**.
- 2 - Feed the feed water pipe into the cistern.
- 3 - Connect the hose to the stop tap **F1** using either the turn flare provided or directly with the nut on the feed water pipe (in this case, ensure watertightness with a fibre washer).
- 4 - Connect the stop tap **F1** onto the ballcock **F1** and ensure watertightness with a fibre washer).


7.3.b WATER TEST

- 1 - Insert the water supply sleeve **I1** and the discharge sleeve **I2** into the bowl.
-  Use soapy water to facilitate insertion of the sleeves.
- 2 - Position the bowl on the frame.
 - 3 - Turn on the water using the stop tap **F1** and wait until the cistern is full.
 - 4 - Check the macerator's plumbing and electrical connections.
 - 5 - Using the pull cords, start the mechanism **V1** manually.
 - 6 - Check the watertightness of both the supply and discharge pipes.
 - 7 - Turn off the stop tap and empty the cistern.
 - 8 - Remove the bowl.

7.4 CASING

7.4.a PREPARING THE CASING

- 1 - Place the frame in position **V1**.
- 2 - Fix the PSE template **C1** onto the access hatch using the two grey screws **C2** from the flush plate box.
- 3 - Insert the flange **F1** into the supply elbow **F1** and the flange **F2** into the macerator, and insert the flexible tube **I1** onto the bowl's anchor rods **A1**.

 The casing thickness must be between 16 and 100mm. The casing and frame must be interdependent. The front must be in 2 parts so that the lower section facing the removable frame **V1** can be used as an access hatch.

7.4.b FITTING THE CASING


Various materials can be used to make the casing (brick, plasterboard, waterproof wooden panels, etc.).

Use the cut-out template provided to cut the various holes (flush plate, bowl discharge and supply pipes, bowl anchor rods).


- 1 - Top panel dimensions
- 2 - Bottom panel dimensions

7.5 FITTING THE BOWL

- 1 - Using a straight edge mark the 2 sleeves where they join the bowl.
- 2 - Remove the sleeves from the bowl and insert them into the frame. Using a straight edge mark the 2 sleeves where they join the wall.

 Use soapy water to facilitate insertion of the sleeves.

- 3 - Measure the distance **(L)** between the two marks for both sleeves.
- 4 - Note this distance **(L)**, adding an extra 3mm for the frame end for both sleeves. E.g.: If L=50mm, the sleeve should be shortened by 53mm.
- 5 - Cut the sleeves using a hacksaw.
- 6 - Use a file to smooth the section where the cut was made.
- 7 - Measure the thickness of the bowl's rear section **(B)**.
- 8 - If necessary, cut the anchor rods **A1** again so that the section protruding from the wall is equal to **(B)+20mm**.
- 9 - Shorten the flexible tube **I1** so that the section protruding from the wall is equal to **(B) - 15 mm**.
- 10 - Insert the supply sleeve **I1** and the discharge sleeve **I2** into the bowl. Then place the bowl onto the two anchor rods.


 Use soapy water to facilitate insertion of the discharge sleeve into the bowl and the pipe.

- 11 - Once the bowl is correctly positioned, fix it using the parts **I1** provided, whilst ensuring that the parts are fitted in the correct order:


I1 = seating washer **I2** = nut
I3 = metal washer **I4** = cover

7.6 FITTING THE FLUSH PLATE

- 1 - Fix the small backplate of the plate **B1** onto the frame using 2 grey screws **C1**.

 If the casing is not particularly thick, shorten the screws by breaking them at the notch designed for this purpose.

- 2 - Screw in the two actuation screws (the 2 remaining grey screws **C1**).

 If the casing is not particularly thick, shorten the screws by simply breaking them at the notch designed for this purpose.

- 3 - Adjust the actuation screws so that the distance **(C)** is equal to 25mm, so as to:

- enable drainage to occur.
- prevent a continual flow.

- 4 - Hook the bottom of the flush plate onto the spring, then gently push it back, snapping the plate onto the clips.

8 STANDARDS

This appliance complies with EN 12050-3 (Lifting plant for waste water containing faecal matter for limited applications) and the European directives and standards concerning electrical safety and electromagnetic compatibility.

9 ACTIVATING THE UNIT

Once all electrical and plumbing installations are complete, flush the unit once. The unit should start automatically and run for between 5 and 10 seconds depending on the height of the discharge pipe. If it runs for more than 20 seconds, check that the discharge hose is not kinked (causing a blockage) or that the vent is not blocked.

Flush several times. All pipes must be watertight. At the same time, if necessary, check the watertightness of connections to any other sanitary appliances (e.g. washbasin).

WARNING!!! The flushing system (as well as any other sanitary appliances connected to the macerator) must be completely watertight. Even a small leak could cause the macerator to be activated unnecessarily.

10 USAGE AND PRECAUTIONS

Toilets installed with a **SANIWALL®Pro** are to be used just like any traditional toilet and require no special maintenance. The macerator is automatically activated once water reaches a certain level in the unit. The **SANIWALL®Pro** macerator is designed to discharge toilet, washbasin and shower waste.

IT IS NOT INTENDED FOR EITHER COMMERCIAL OR INDUSTRIAL USE.

WARNING!!! If away for long periods (e.g. holidays), we recommend that you turn off the water supply to the unit.

WARNING!!! Should the unit be used to discharge anything other than toilet paper, faecal matter or waste water the guarantee will be invalidated. Any damage to the unit caused by maceration of foreign bodies such as cotton, tampons, sanitary towels, wipes, food products, condoms, hair, metal wood or plastic objects, or by pumping liquids, such as solvents and oils, will not be covered by the guarantee.

11 MAINTENANCE

Some basic maintenance may be necessary during normal usage of your **SANIWALL® Pro**.

11.a MAINTAINING THE TAP (fig. 11.a) (cleaning the filter, changing the membrane)

- 1 - Remove the flush plate by gently lifting it up and then tilting it forwards.
- 2 - Remove the plate's actuation screw.
- 3 - Unscrew the screws on the small backplate and remove this.
- 4 - Remove the frame as shown in **7.3.a**.
- 5 - Turn off the stop tap **α** and separate it from the ballcock **β**.
- 6 - Rotate the spacer supporting the ballcock and remove this.
- 7 - Once the maintenance is complete, carry out the above steps in reverse order, remembering to turn the stop tap **α**.

Replacement parts:

α Membrane : Réf. 34 9513-07

β Whole tap : Réf. 30 9503-07

11.b MAINTAINING THE MECHANISM (fig.11.b) (cleaning or replacing the sealing joint)

Follow the same steps as for maintaining the tap until step 6, then:

- 1 - Grip the mechanism by its base and remove it from the cistern.

Replacement parts:

γ Sealing joint : Réf. 34 2332-07

δ Whole mechanism : Réf. 32 4544-07

- 2 - Once maintenance has been completed, carry out the steps in reverse order.

⚠ In order to ensure that the mechanism is correctly repositioned, its base is fitted with a foolproofing device.

11.c MAINTAINING THE MACERATOR

L'appareil The unit requires no special maintenance. The unit is equipped with an active carbon filter in the vent. It is not required to be connected to an external vent. This filter should be replaced every year.

11.d CLEANING/DESCALING

Regularly use an appropriate descaling agent such as **SFA SANIBROYEUR** to descale and clean the macerator and the bowl. This product is specially designed to remove scale whilst respecting the internal workings of your unit.

- Disconnect the macerator power supply.
- Pour a measure of descaling agent into the bowl.
- Leave it to stand for a few hours.
- Reconnect the macerator power supply.
- Rinse by flushing twice.

This should be carried out every three months on average, but you may need to adjust this schedule depending on the hardness of your water.

12 POSSIBLE CORRECTIVE MEASURES

Some problems with macerator functionality have minor causes which you can rectify yourself.

Please refer to the table below in order to diagnose and resolve your problems.

THE UNIT MUST ONLY BE OPENED BY AN APPROVED SERVICE ENGINEER



THE MACERATOR SHOULD ALWAYS BE DISCONNECTED FROM THE POWER SUPPLY

PROBLEM	PROBABLE CAUSE	SOLUTION
<ul style="list-style-type: none"> The unit stops abnormally 	<ul style="list-style-type: none"> The unit has been running for too long (thermal cut-out) Defective control system 	<ul style="list-style-type: none"> Remove the plug. Wait an hour, then plug back in Otherwise, call an approved service engineer
<ul style="list-style-type: none"> The unit starts itself up intermittently 	<ul style="list-style-type: none"> The connected sanitary appliances are leaking The non-return valve is leaking 	<ul style="list-style-type: none"> Check the installation upstream Clean or replace the non-return valve
<ul style="list-style-type: none"> The motor is juddering and the water in the bowl is going down very slowly 	<ul style="list-style-type: none"> The vent on the cover is clogged up 	<ul style="list-style-type: none"> Clear the vent
<ul style="list-style-type: none"> The motor is operating normally but no longer stops or runs for a long time 	<ul style="list-style-type: none"> The height or length of drainage pipework is over the specification or there are too many elbows (reducing flow) The pump chamber is blocked 	<ul style="list-style-type: none"> Check the installation Otherwise, call an approved service engineer
<ul style="list-style-type: none"> The motor no longer activates 	<ul style="list-style-type: none"> Electrical power supply is not active Defective plug Defective motor or control system 	<ul style="list-style-type: none"> Connect the unit to the electricity Otherwise, call an approved service engineer
<ul style="list-style-type: none"> The motor is running with a rattling noise or hums without running 	<ul style="list-style-type: none"> Foreign object blocking motor Defective motor or control system 	<ul style="list-style-type: none"> Remove the foreign object Otherwise, call an approved service engineer

13 REMOVAL



DISCONNECT FROM THE POWER SUPPLY BEFORE PROCEEDING

HOW TO CHECK THE MACERATOR

- 1- DISCONNECT THE ELECTRICAL POWER SUPPLY**
Turn off the toilet cistern tap. Bail out as much water as possible from the toilet bowl siphon.
 - 2 -** Remove the toilet bowl.
 - 3 -** Remove the casing and the hatch to access the removable frame **1**.
 - 4 -** If a foreign body is preventing rotation, try to remove it through the hole of the toilet inlet seal **2** using a screwdriver or a piece of flexible wire (first, remove the discharge sleeve **1**).
- WARNING!**
Never try to reach in with your hand to release the cutters (extremely sharp blades).
- 5 -** If the non-return valve in the elbow **2** is clogged, remove the elbow from the soil pipe **2**, and clean it (if needs be, change the flap **2** by undoing the valve which unlocks by turning) if necessary.

Information only for approved service engineers:

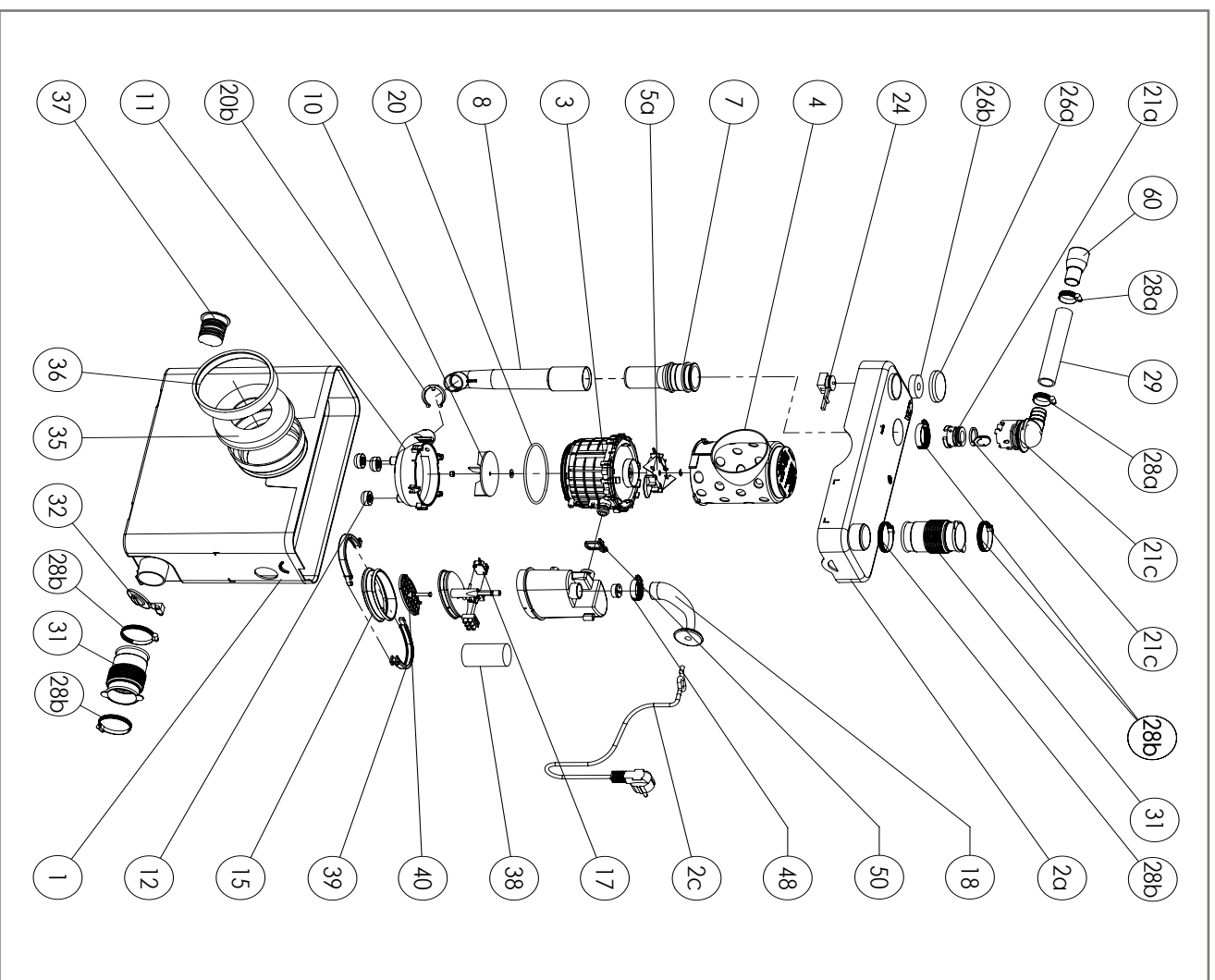
- Take off the toilet bowl
- Disconnect the plumbing and electrical connections
- Unscrew the 4 bolts **3**
- Pull the removable frame **1**
- Unscrew the half-clamp **4**
- Remove the macerator for repair or exchange

Once maintenance is complete, carry out the above steps in reverse order.

14 GUARANTEE

SANIWALL® Pro is guaranteed for 2 years subject to correct installation and usage as described in these instructions.

SANIWALL® Pro



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