CE

Elevate – Toilet Lifter (manual)

User manual

This manual should always be in close proximity of the product

Table of content

1. Symbols used in this manual

Warning! Indication of potentially hazardous situation. If not avoided, it can result in serious injury or death.	⚠️
Caution! Indication of potentially hazardous situation which may result in minor or moderate injury. It may also be used to alert against unsafe practices.	⚠️
Notification! This symbol is used to notify correct use and handling of the product.	❗

2. General safety

⚠️	This manual must be read and understood before use and installation. Always keep this manual in close proximity of the product. The use, installation and service of this product must be in compliance with this manual to avoid accidents and serious personal injury. Never use or handle this product in other ways specified in this manual as it can result in personal safety hazards and/or cause damage to the product. Persons installing and/or using this product either as operator or user should have the necessary safety information and access to this manual.

⚠	Do not perform repairs, disassembly or assembly operations, add-ons, re-adjustments, or modification of the product beyond what is described in this manual. These must be carried out by Ropox or Ropox authorized personnel. Do not perform service while in use. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory, or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Do not use the product if it has defects or have become damaged before being repaired or replaced. Make sure cables are undamaged.
ⓘ	The information in this manual is based on correct installation in accordance with installation instructions for this product. Ropox cannot be held liable if the product is used in any way that differs from stated in this manual and/or installation instruction. Ropox reserve the right to amend this manual and reference documents without prior notice.

2.1 Product Unit label

$C\epsilon$	This product is CE-marked in accordance with: European Medical Device Regulation (EU)2017/745
(factory symbol)	Manufacturer name and address
(date symbol)	Date of production
REF	Stock number
SN	Serial number
⚠	Consult manual for important safety related information, warnings, and safety precautions
(crossed-out bin)	Do not dispose as unsorted municipal waste. Product must be returned to a designated recycling station
(thermometer 40°C / 5°C)	Operating and storing temperatures may not exceed 5-40°C
(consult manual symbol)	Consult the instructions for use

3.   General requirements

3.1 Product information

Manufacturer	Ropox A/S		
	Ringstedgade 221		
	DK-4700 Naestved		
	+45 55 75 05 00		
	Info@ropox.com		
Product models	Part number	Model	Configuration
	40-45026	Elevate – Toilet Lifter (manual)	Floor drain
	40-46026	Elevate – Toilet Lifter (manual)	Wall drain
Expected service life	5 years		
MDR Class 2017/745	**Class I**		
Intended environments	This product is to be used only in:		
	Professional Healthcare Environment		
	Homecare Environment		
Maximum user weight according to ISO 17966:2016	300kg		
Height adjustment	400-620mm		
Flush volume	Standard, factory setting	6 / 3 L	
	Large, adjustment	4 / 4.5 / 6 / 7.5 L	
	Small, adjustment	2 - 4 L	
Ambient temperature range	-10 °C to +50 °C Transport and storage		
	+5 °C to +40 °C Operation		
Relative humidity	20% to 80% - non-condensing		
Materials in contact with patient	Component	Material description	
	Covers	ABS/PMMA plastic	

Accessories	
Item nr.	*Model*
40-40402	Sense - Toilet support straight · 90 cm Grey
40-40421	Sense - Toilet support wave · 90 cm Grey
40-40430	Sense - Toilet support straight w. support leg · 90 cm Grey
40-40431	Sense - Toilet support Wave w. support leg · 90 cm Grey
40-40401	Sense - Toilet support straight · 76 cm Grey
40-40420	Sense - Toilet support wave · 76 cm Grey
40-40400	Sense - Toilet support straight · 66 cm Grey
40-40407	Sense - Toilet support straight · 90 cm Red
40-40426	Sense - Toilet support wave · 90 cm Red
40-40435	Sense - Toilet support straight w. support leg · 90 cm Red
40-40436	Sense - Toilet support Wave w. support leg · 90 cm Red
40-40406	Sense - Toilet support straight · 76 cm Red
40-40425	Sense - Toilet support wave · 76 cm Red
40-40405	Sense - Toilet support straight · 66 cm Red
40-45100	Backrest long (70cm Toilet)
40-45101	Backrest short (56cm Toilet)
40-44070	Wall hung toilet, 56cm
40-44071	Wall hung toilet, 70cm
40-44074	Toilet seat w/o lid
40-44075	Toilet seat w/ lid
40-44276	Svancare Bidet Elegant
40-45071	Cover extension 30mm
40-45072	Cover extension 60mm

3.2 Product description

Elevate – Toilet Lifter (manual) can be set in heights ranging from 400-620mm by the use of a crank handle. This can be done on either side of the toilet lifter if space is limited. Height adjustment will meet different sitting height needs from various patient heights.

3.3 Intended use

Elevate – Toilet Lifter (manual) height adjustable is intended to be used in both homecare and professional healthcare environments. Adjusting the height will meet ergonomic demands emerging from various patient heights. The toilet lifter is not intended for playing, or as a training device.

3.4 Intended operator

The intended operator may include all that have read and understood this manual exempt kids.

3.5 Essential performance

The device does not have any function related to basic safety or essential performance. In case of loss or degradation of performance, the user can get of the toilet.

3.6 Non-clinical functions

Height adjusting offers better ergonomics to user and caretaker.

3.7 Clinical functions

This product does not offer clinical benefits for patients, when used as intended by the manufacturer.

3.8 Product dimensions
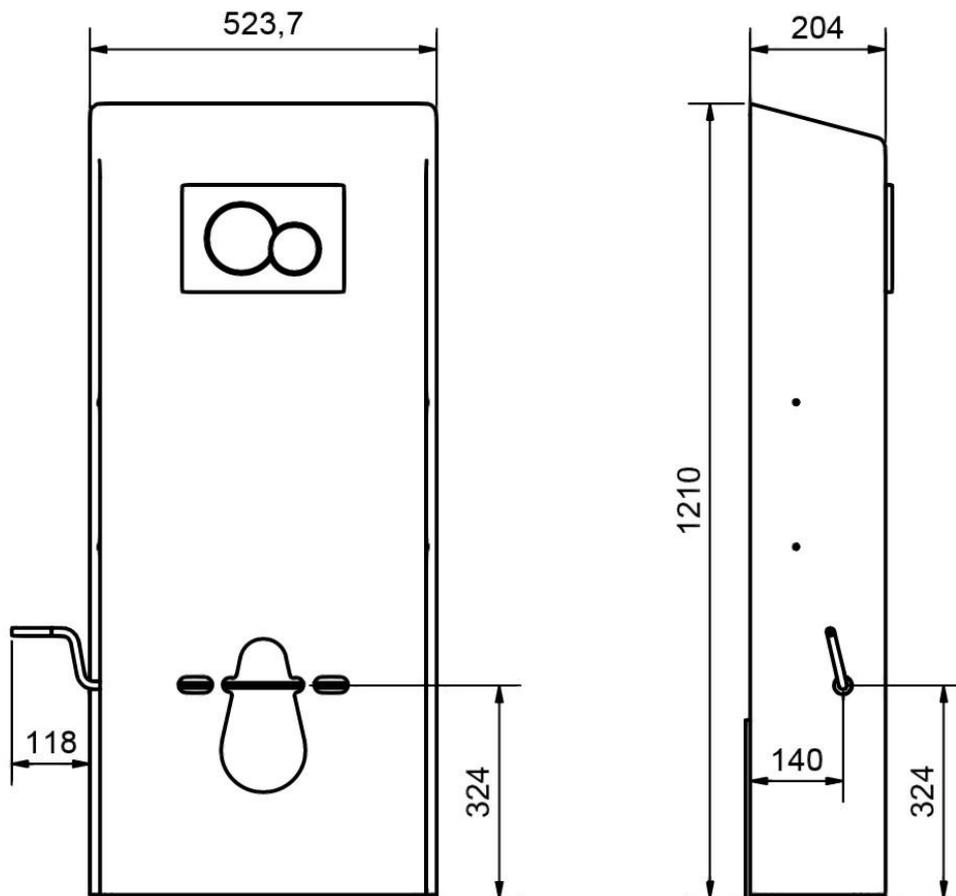
4. Instructions for use

4.1 Installation of product

The following instructions describe how to assemble and mount the toilet lifter, as well as optimal placement of water and drain, based on whether the toilet lifter with floor drain or wall drain has been purchased.
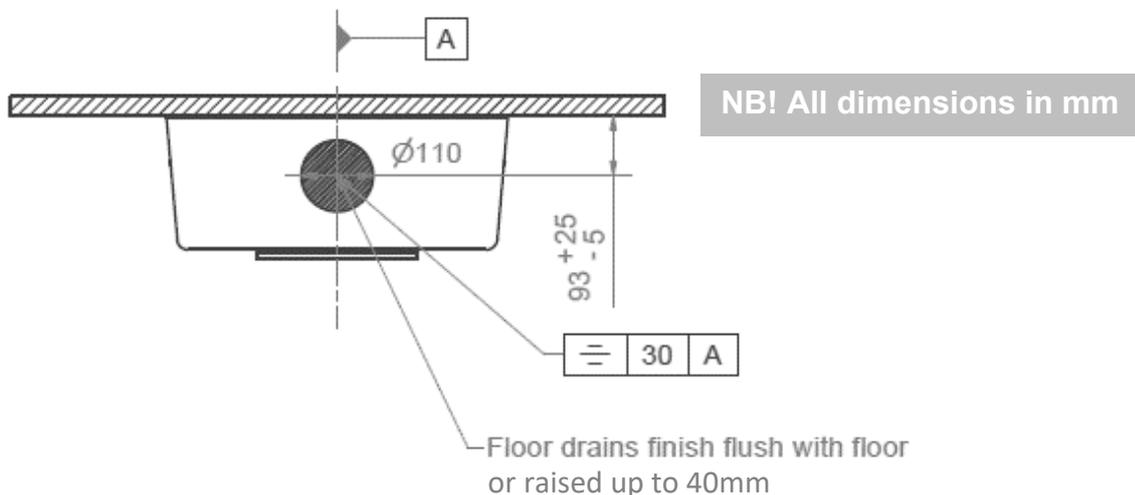
4.1.1   Installation interface for water

It is recommended to always place the water connection as shown below. In case of deviations, it's recommended to place the water within the hatched area.
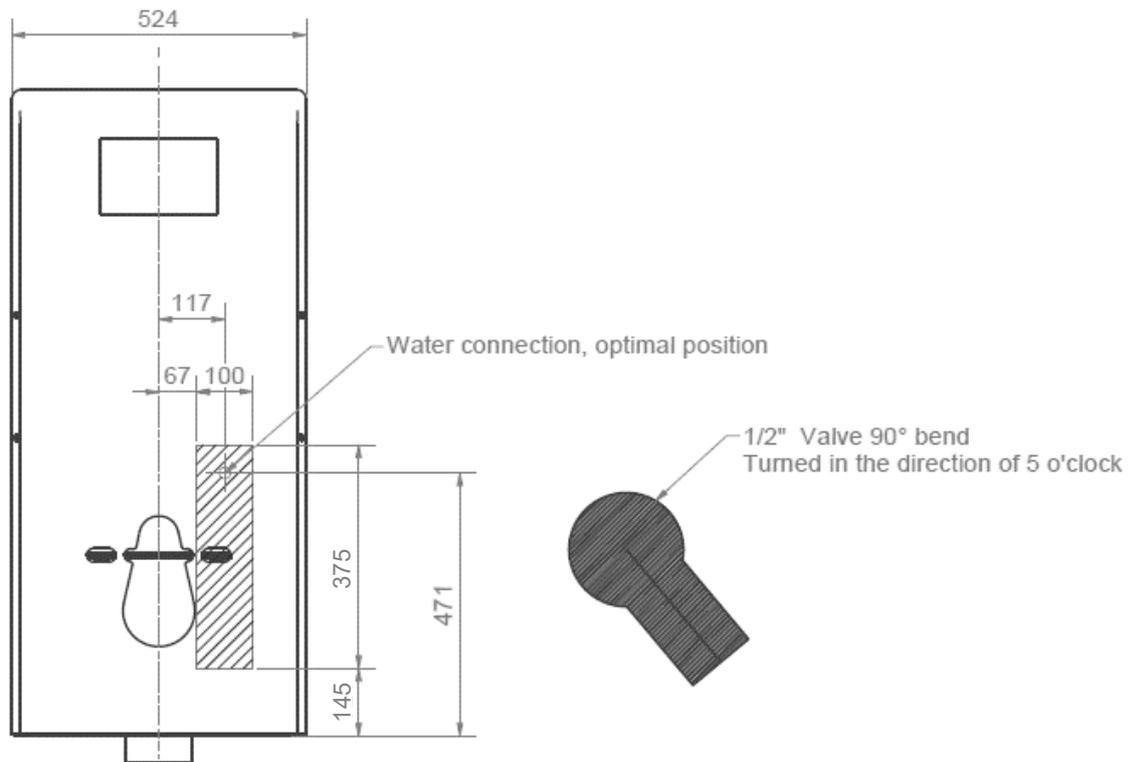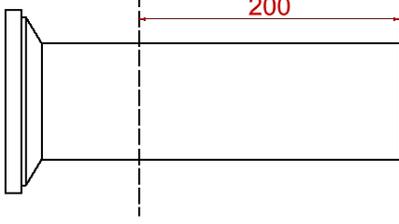

4.1.2   Installation interface for **floor drain**

For *40-45026*

For the toilet lifter with a floor drain, it's recommended to place the drain within the hatched area, not deviating further than the shown tolerances. This ensures the best flushing. The drain can be raised up to 40mm, so as to live up to Säker Vatten.
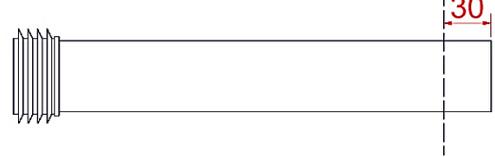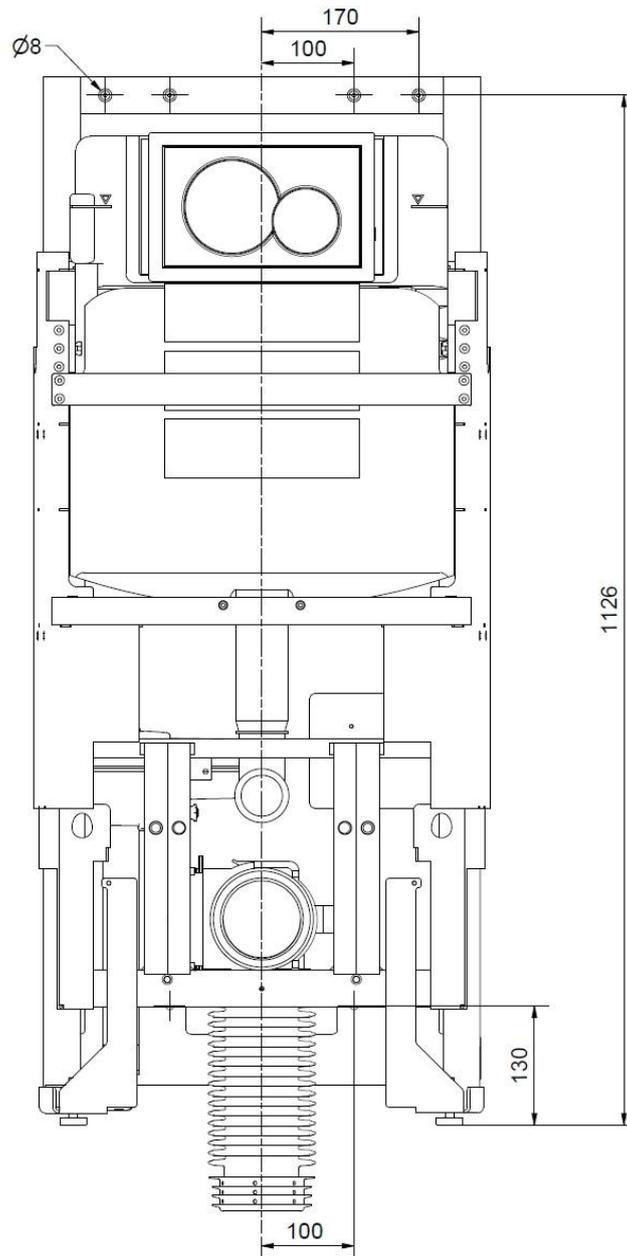
4.1.3   Installation interface for **wall drain**

For *40-46026*

For the toilet lifter with a wall drain, it's recommended to place the drain within the hatched area, not deviating further than the shown tolerances. This ensures the best flushing.
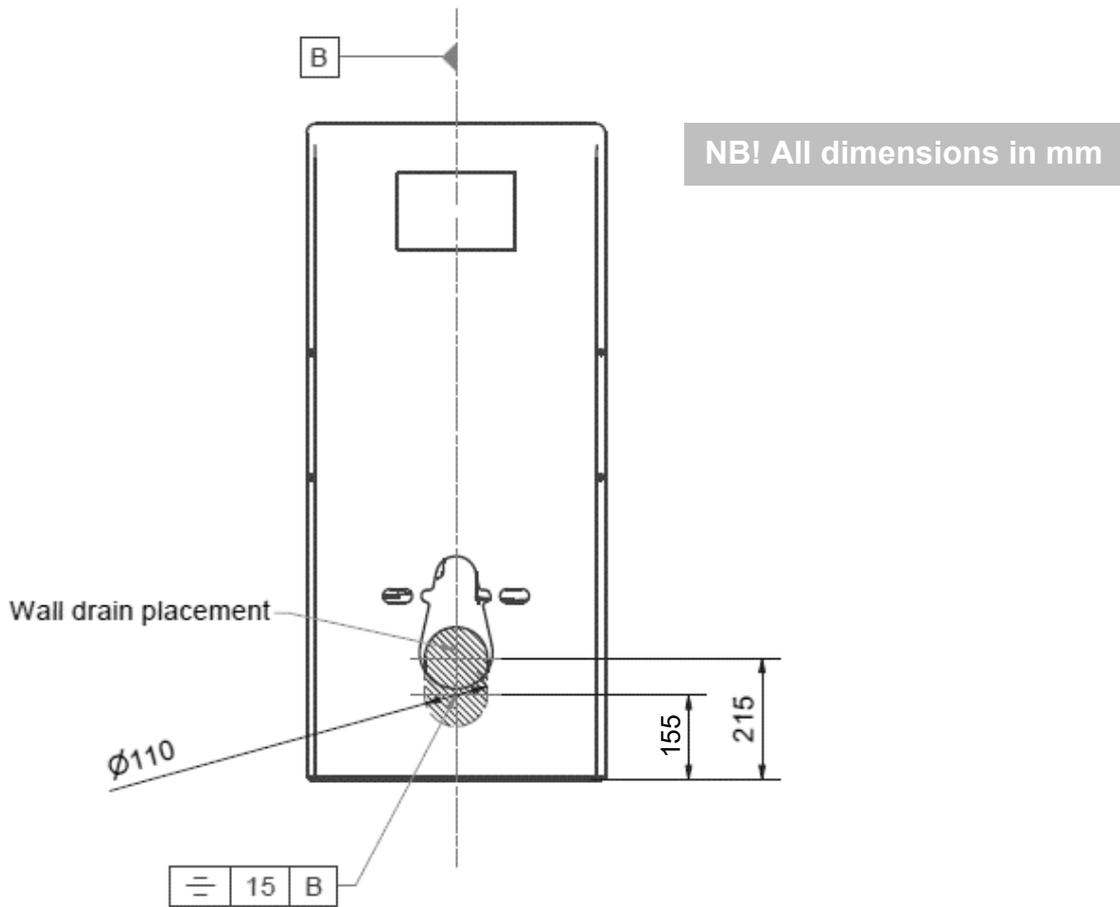
Ropox supplied toilets	Shortening of ferrule	Shortening of flushpipe
40-44070	200	185
40-44071	200	30
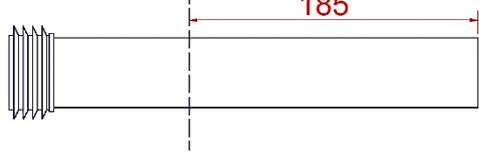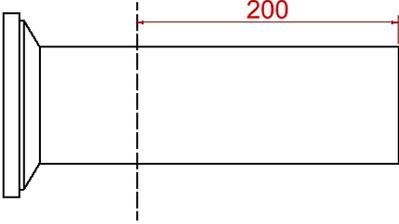
4.1.4 Construction

|	**Note!**
⊙	The toilet lifter is supplied with a set of 6 screws and rawlplugs suitable for mounting in a concrete wall. The fitter should always consider the material, condition, and strength of the wall and use screws and rawlplugs suitable for the specific wall type.

|	**Caution!**
⚠	Maximum pulling force per screw is 65kg, at 300kg max user weight according to ISO 17966: 2016

4.1.5 Mounting the product
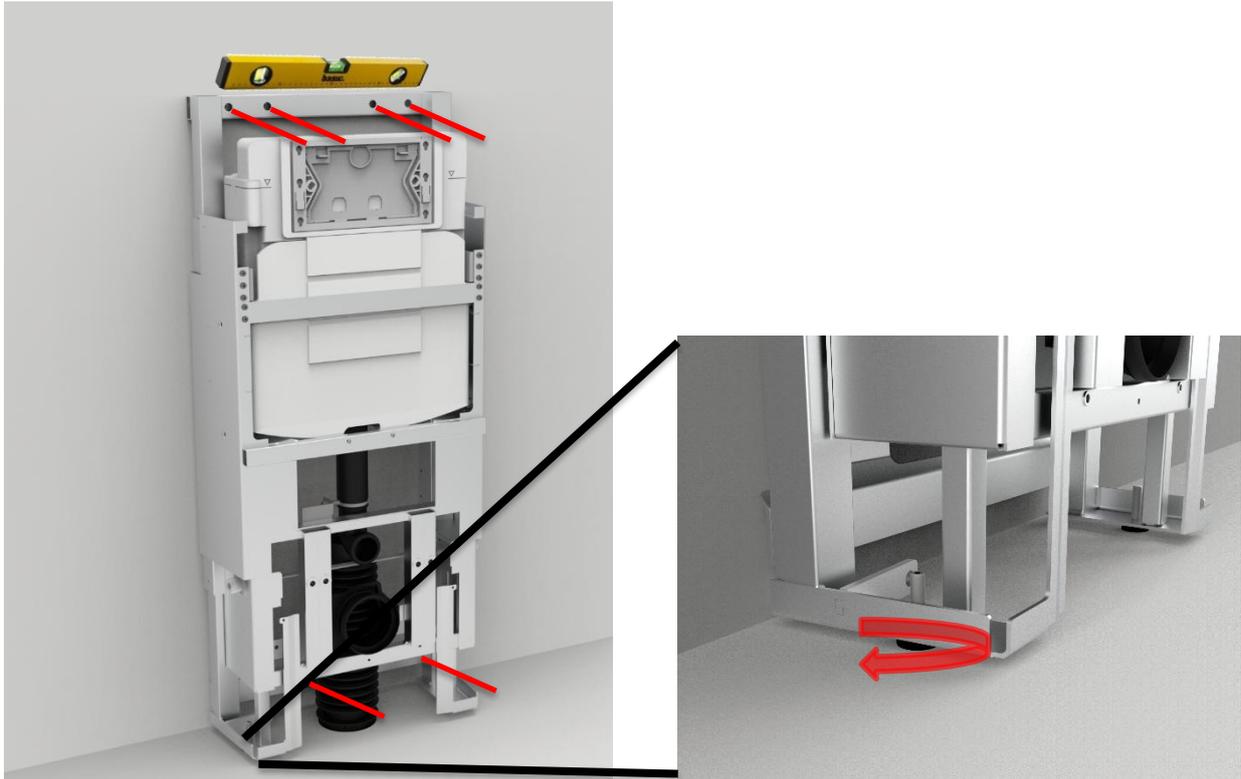
a. Line up frame with adjustment screws. Mark out 6 holes and drill holes for appropriate rawlplugs. Ensure that the center of the bottom 2 holes is at least 130mm above the floor
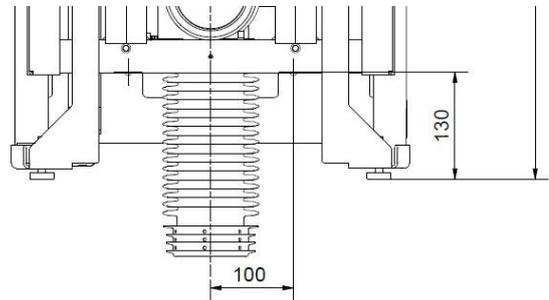

b. Connect water hose on wall outlet and electric outlet before securing frame to the wall

c. Secure frame to wall. If the extension cover has been purchased, use the supplied distance bushings to push out the frame from the wall. Longer screws have been supplied
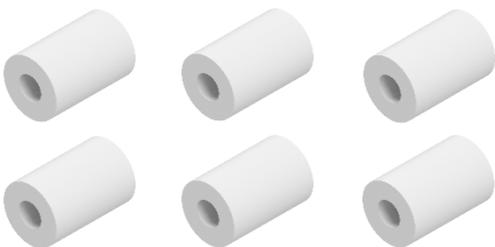
d1. For *40-45026*

If drain is in **floor**, mount the drain bellow as instructed below. The examples given below to the left, are configurations that will work, but as a general rule, the installation interface in 4.1.2 should be followed.
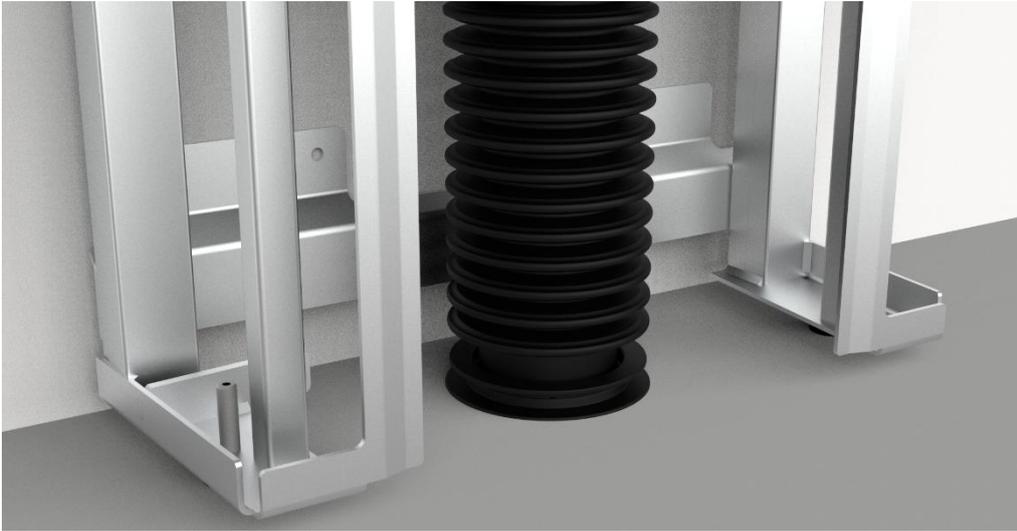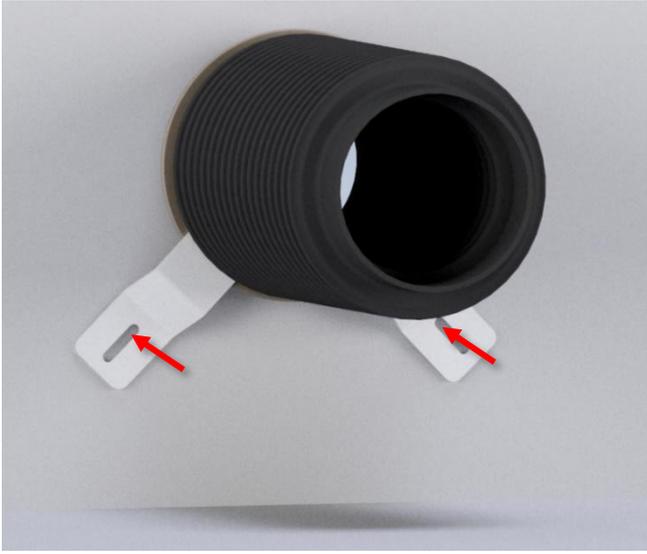

⚠️ **Make sure the bellow is not twisted**

⚠️ **Mount the bellow as shown below for correct flow**
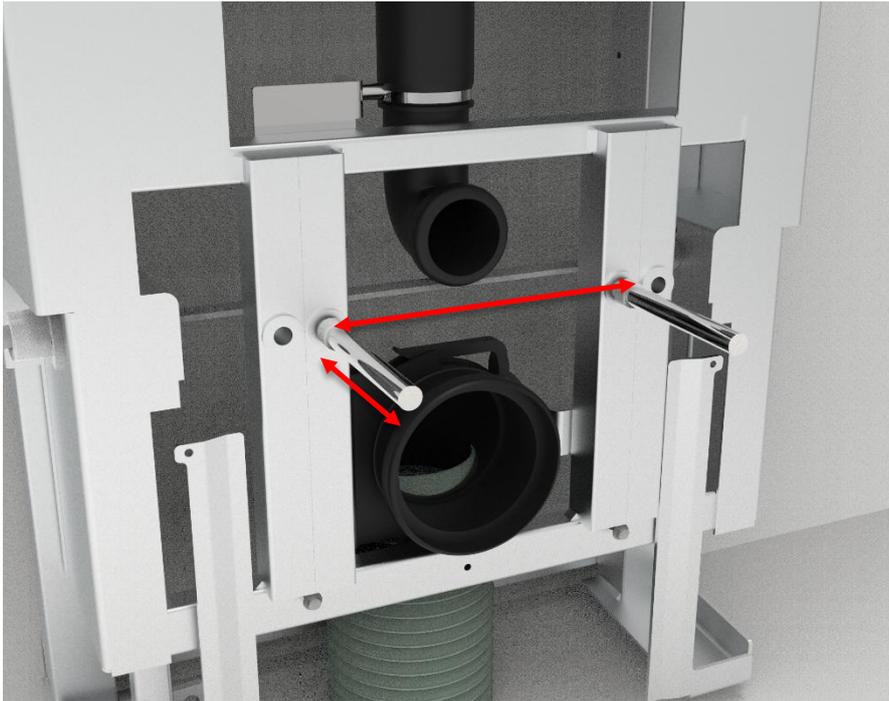
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d2. For *40-46026*

If drain is in **wall**, mount the drain bellow in wall drain, mount the accompanying brackets on the wall, so that the toilet flange is held in place.
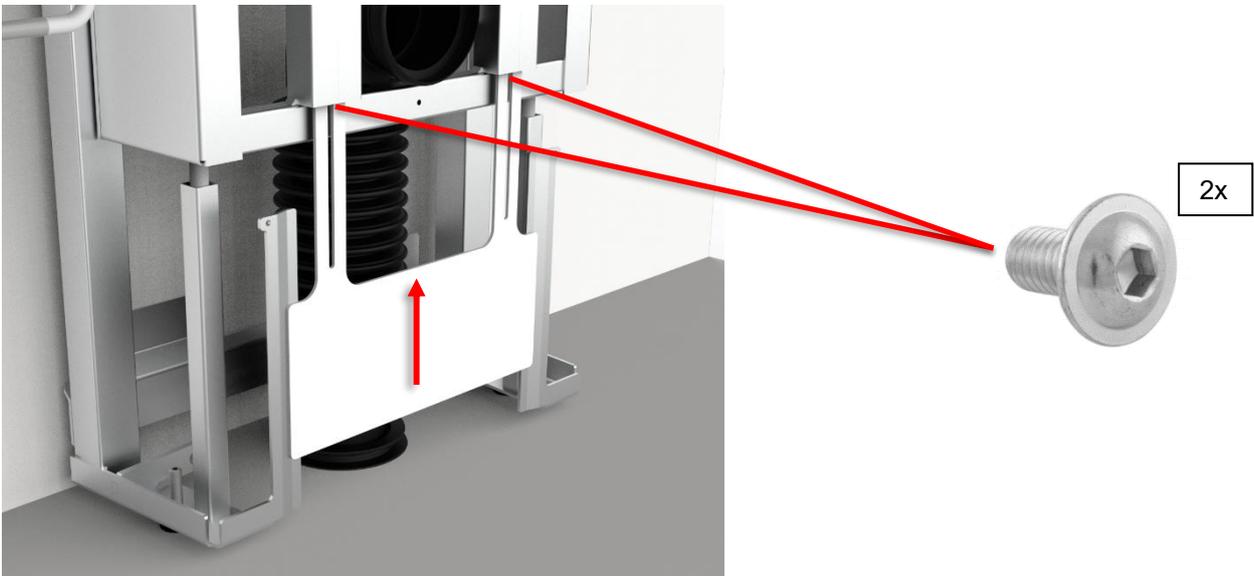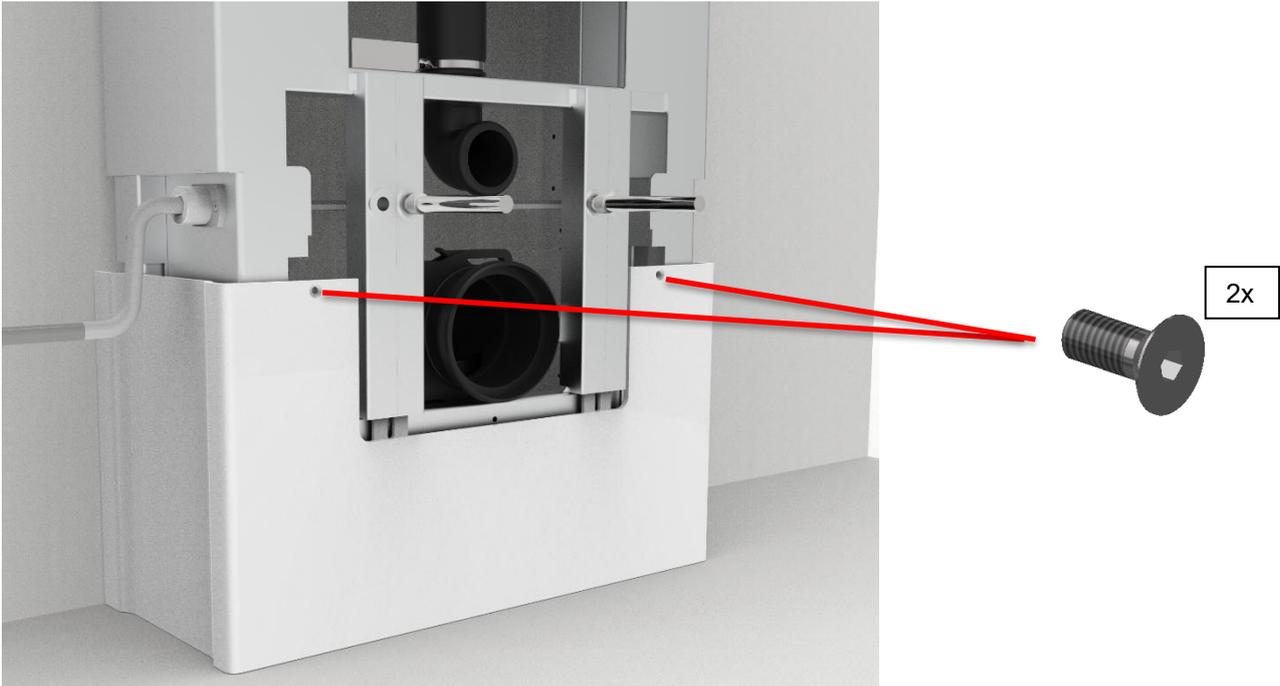

⚠️ **Make sure the bellow is not twisted**

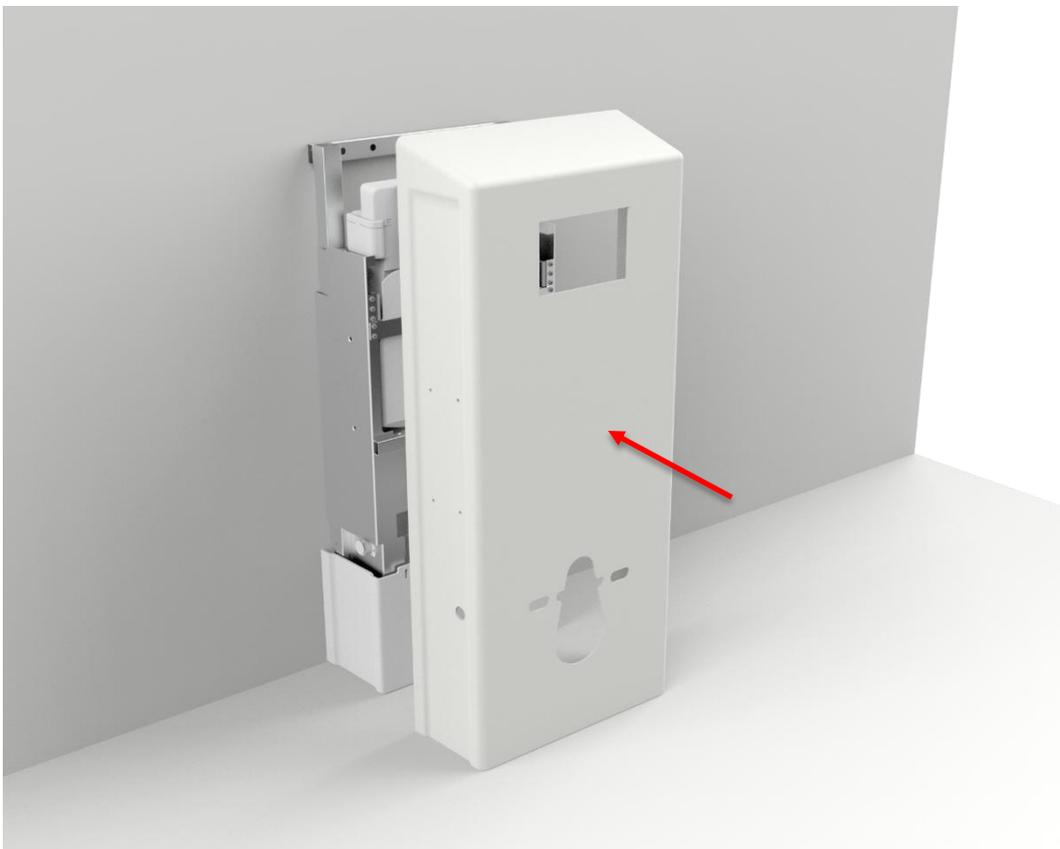**e.** Cut threaded rods to length and secure them in the frame

f. Mount inner covers 1 and 2

2x

Before mounting inner cover 2, if the extension covers have been purchased, these must be mounted beforehand. See 4.4.3

g. Mount outer cover. If the extension covers have been purchased, these must be mounted before the outer cover. See 4.4.3

h. Shorten ferrule and flush pipe to length and mount them

i. Mount the toilet and press pad

j. Finish the installation by checking the following:

1. Rigidity test, sit on the toilet and check screw connections are firm.

2. Check that full travel of the product goes unhindered.

3. Check flushing and leaks.

4.2 Operating the product

Adjusting the height is done by turning the crank.
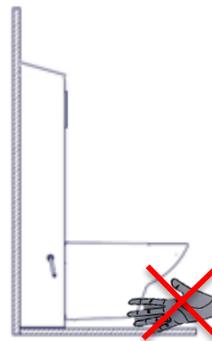

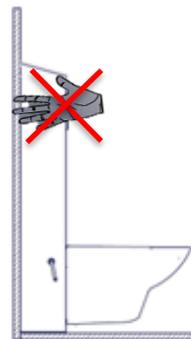| ⚠	**Warning!** The product should always be able to travel the full range of actuation without colliding with objects. Failing to do so will compromise the product stability. Special care should be taken in ensuring that no children or adults are sited under the product as severe injury from entrapment may occur.

4.3 Residual risks

| **Warning!** ⚠ Be aware that there may be no person or body parts under the toilet when it is driven down, as it is a crushing hazard.	
Caution! ⚠ Do not place your hand/fingers between the wall and the movable cover, as you risk crushing your hand/fingers.	
Warning! ⚠ In case of incorrect installation of plumbing parts, water leaks can occur on the floor, which may increase the risk of falling.	

4.4 Installation of accessories

### 4.4.1 Installation of height-adjustable brackets

1. Start by unscrewing the transport screw from the plate nut, it's an M8x20 Allen screw, save it for later use.
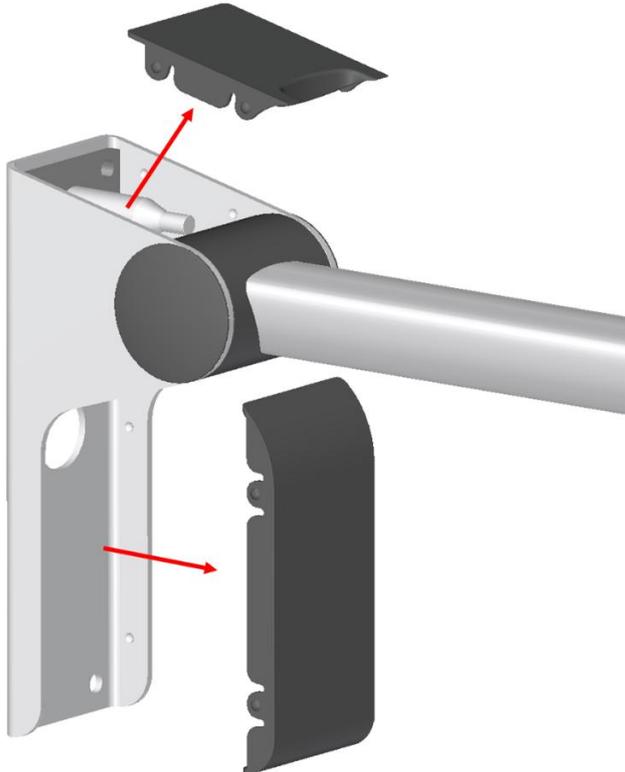

2. Mount the bracket with four M6x25 screws + washers and bushings (included) in the four threaded holes on the toilet lifter. Lightly tighten the screws so that the bracket can move freely up and down in the slots. It's to be adjusted later.
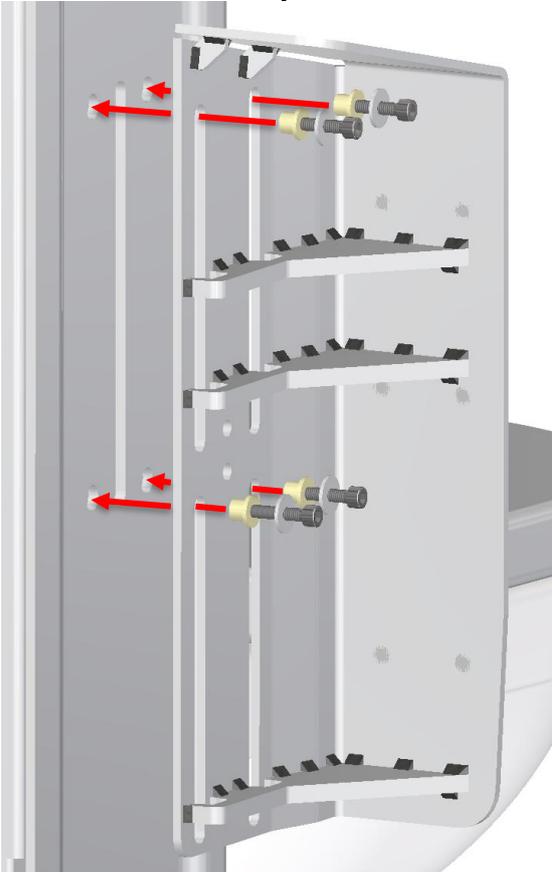
3. Install the M8x20 screw + washer in the top hole in the centre of the bracket, it must go in and catch the plate nut on the back, note that it is the top hole in the plate nut that the screw is inserted into, tighten the screw slightly as it only helps to guide the plate nut.
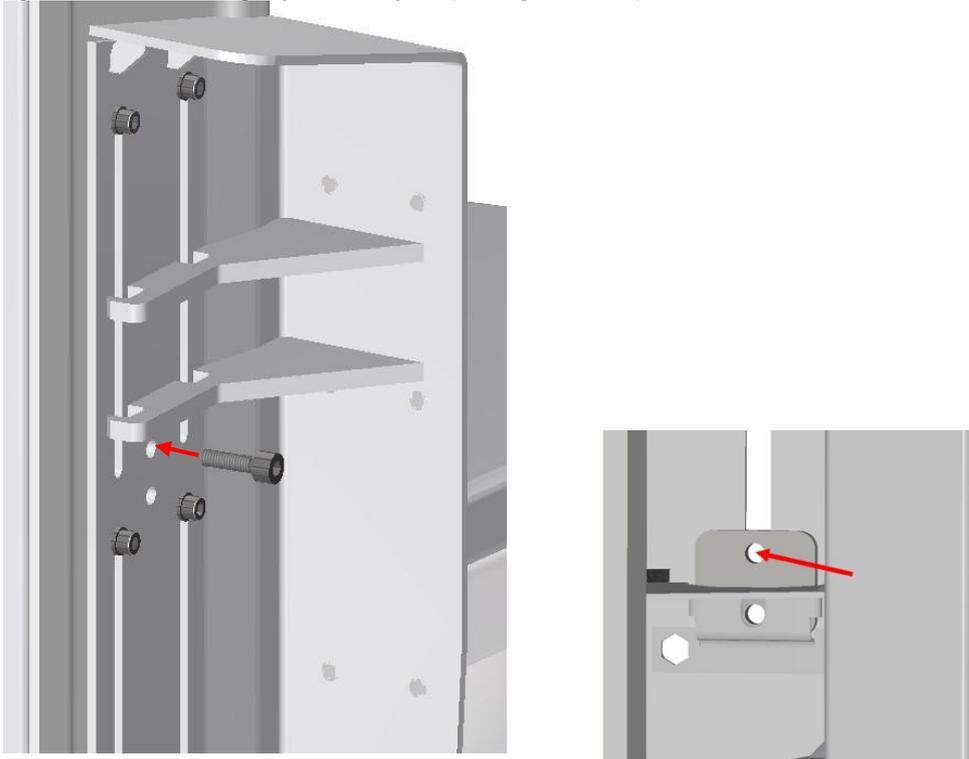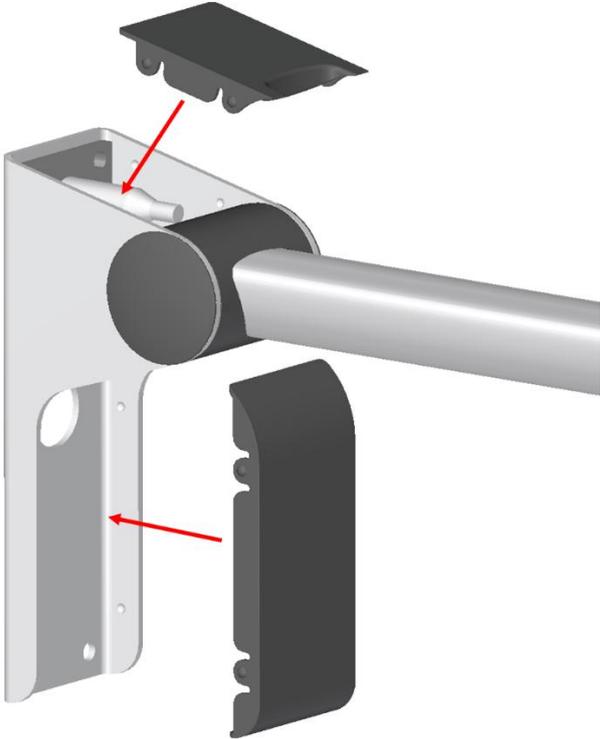

4. Take out the toilet support and remove the plastic caps as shown in the photo below. If necessary, use a plastic tool to avoid scratches.

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5. The support attaches to the threaded studs on the bracket and is mounted with six M6 locknuts (included).
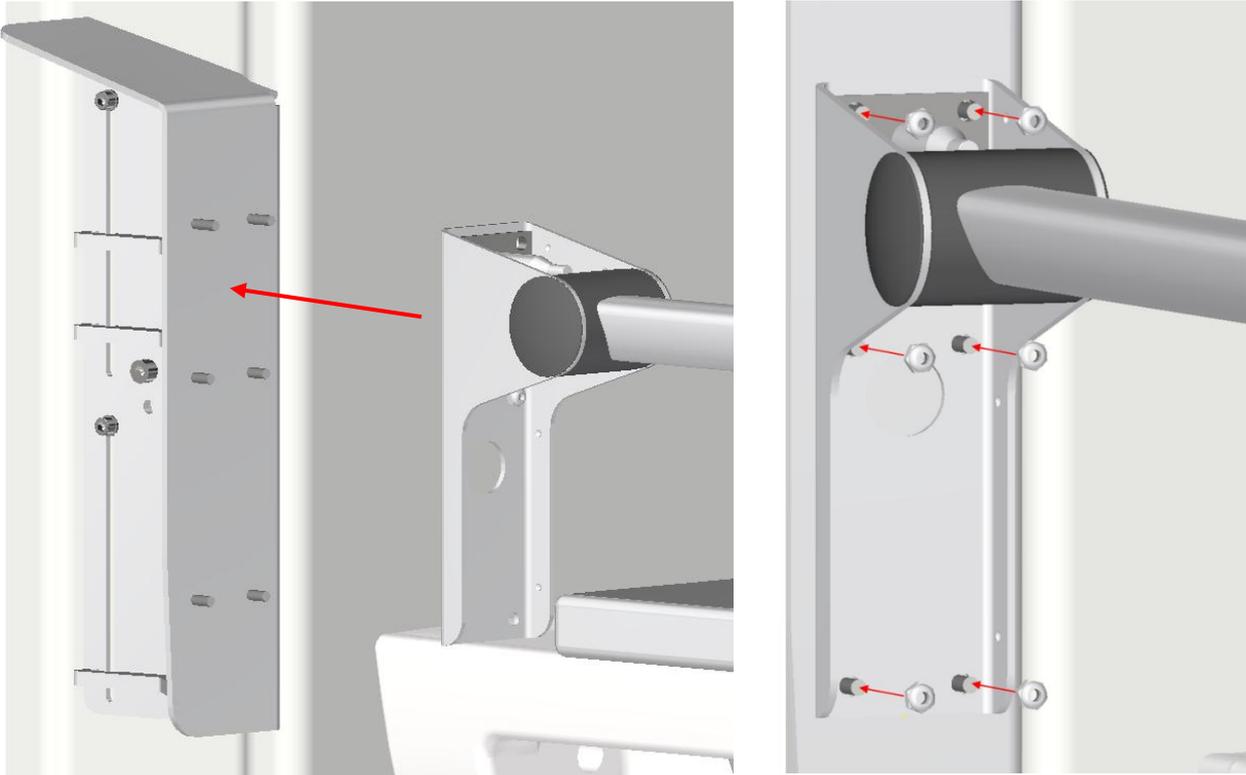
6. Reattach the plastic caps to the support.

7. Adjust the resistance/release of the bracket on the four M6x25 screws that move in the slots, by screwing them all the way in, then unscrew them 1-2 rotations, until the bracket can move. Wiggle the support sideways, check if the support is firm enough, if it seems very loose, tighten the screws slightly until the tolerance is satisfactory. Please note that the bracket must be adjustable up and down.
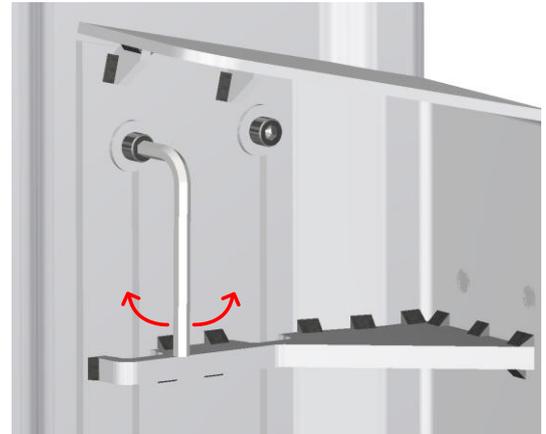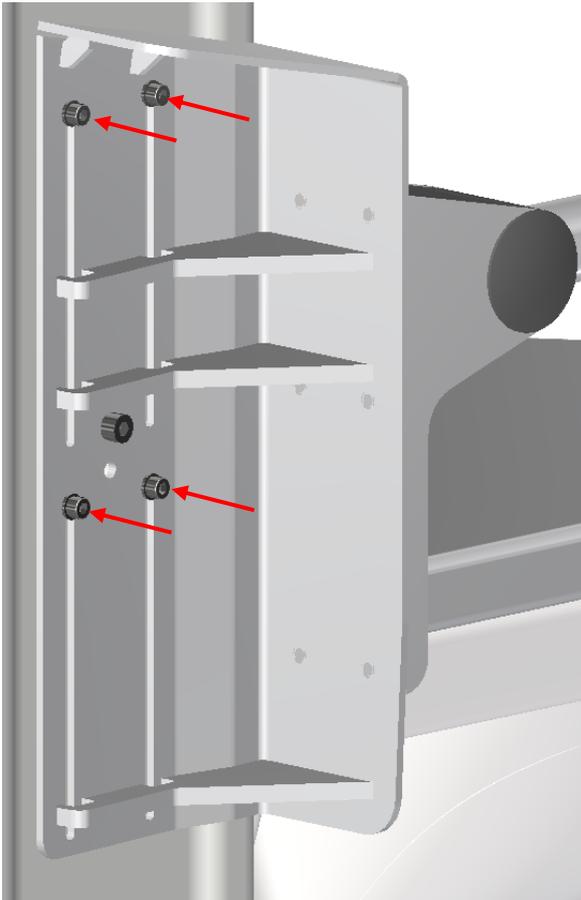
8. Mount the spacer together with the cover plate with the clamping handle in the lower hole in the centre of the bracket, the clamping handle must also engage with the plate nut on the back.
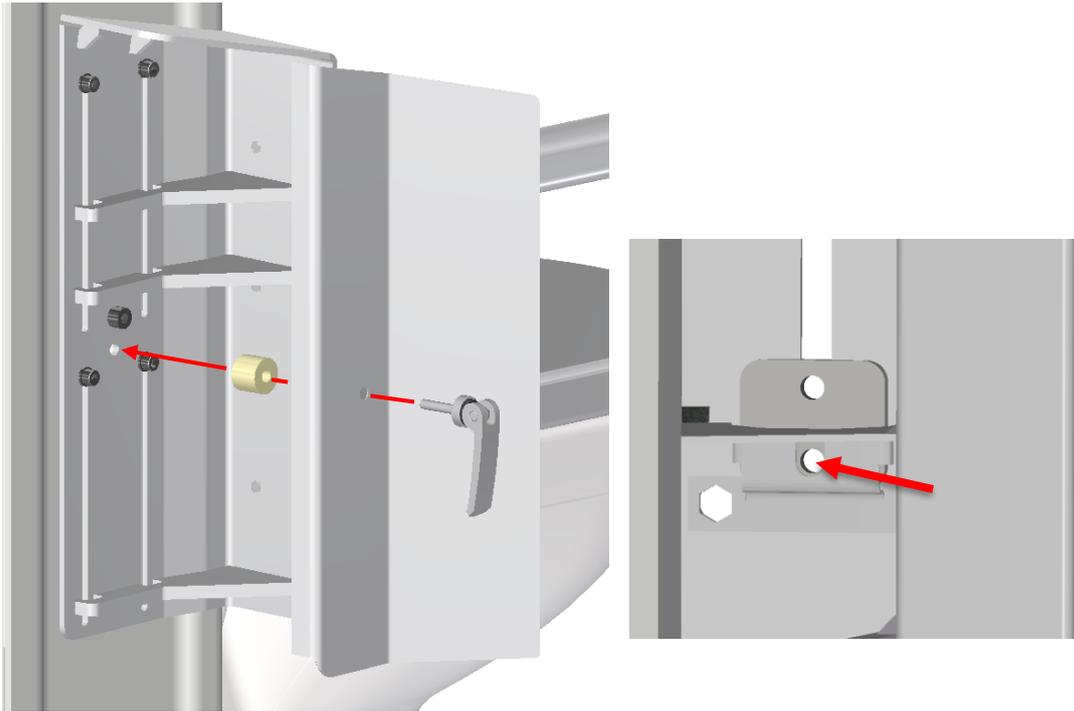
9. The clamping handle adjusts so the bracket can be freely adjusted up and down when open and effectively locks
the bracket in the closed position. Adjust by turning the Adjustment screw.
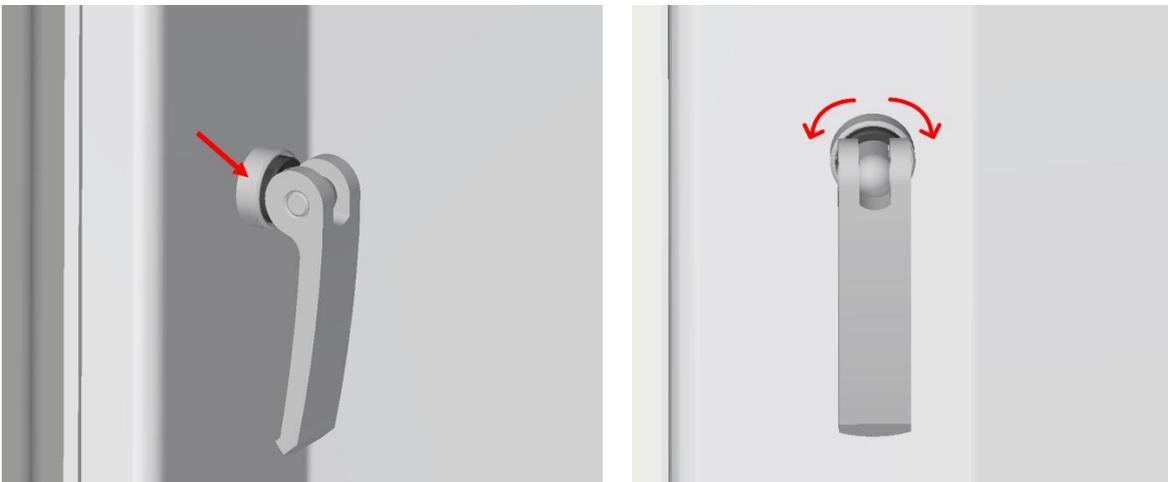
10. The toilet supports are now fully installed. Try adjusting them up and down to see if they move as they should.

4.4.2 Installation of backrest

If Ropox Back Support long is ordered together with Ropox Toilet Lifter, there will be pre-drilled holes in the cover cap. If the back support is ordered later for subsequent mounting, new holes must be drilled. Please see the dimension drawing for the location of holes.

Two M5x16 are used.
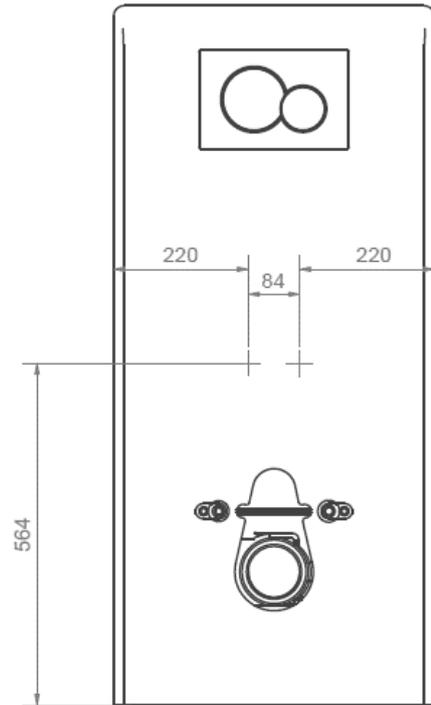
a.

b.
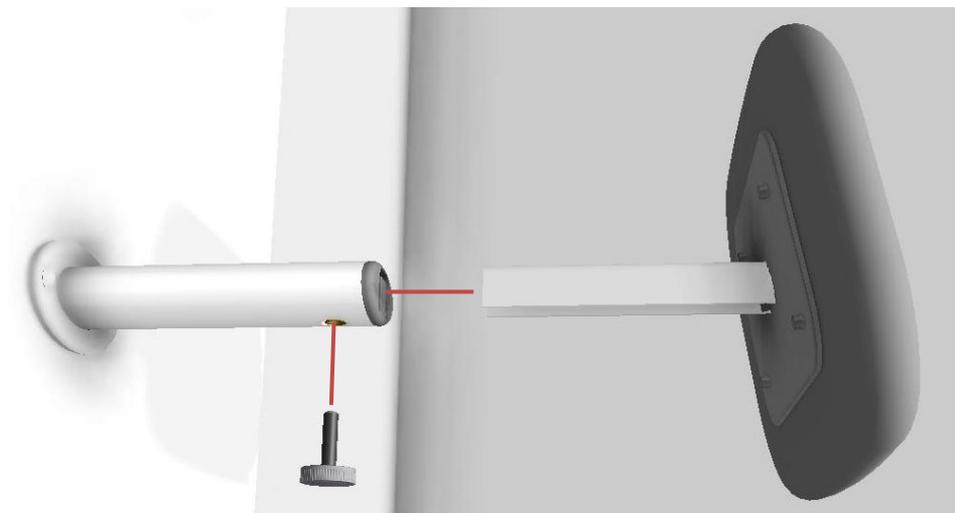
4.4.3   Installation of extension cover
Only fits outer cover with slanted top!

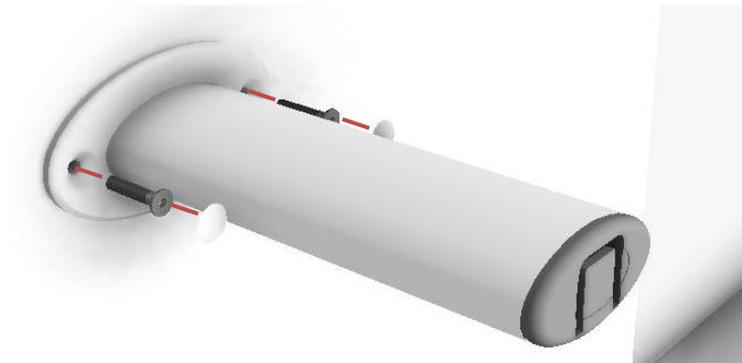If the extension cover has been ordered, it must be mounted prior to mounting the original covers. The extension cover comes disassembled to make transport and disposal easier. It's mounted onto the original covers by clamping it on, then fastening it with set screws.

a. Mount the sides on the inner cover
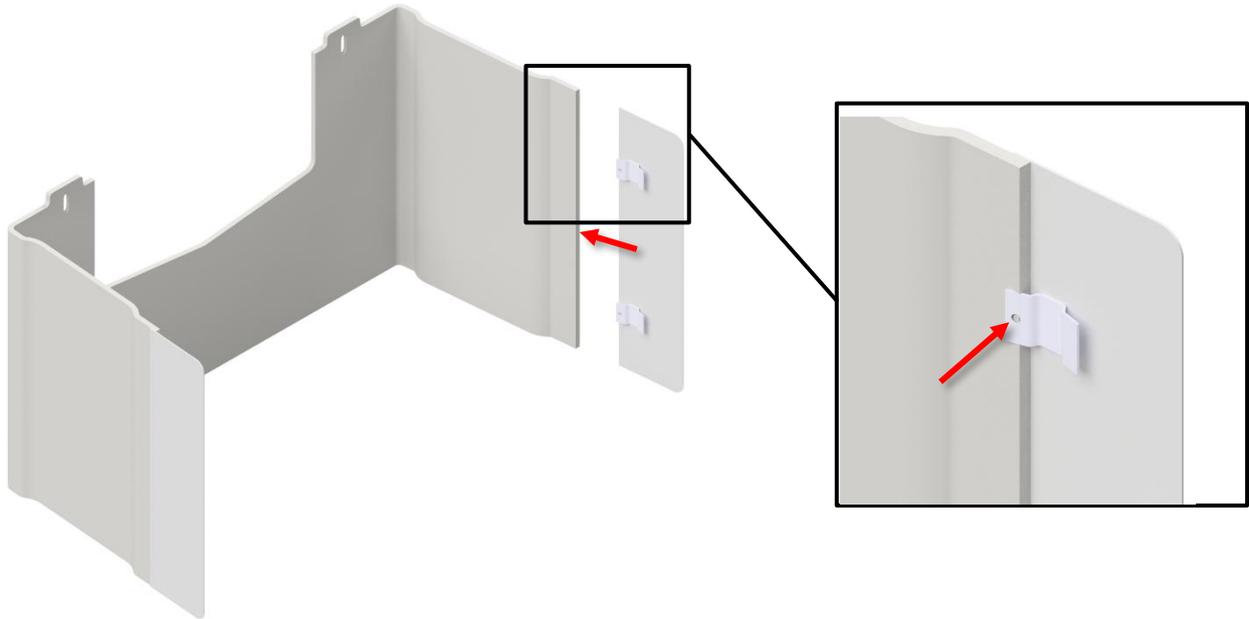
b. Lay down the outer cover, then mount the top
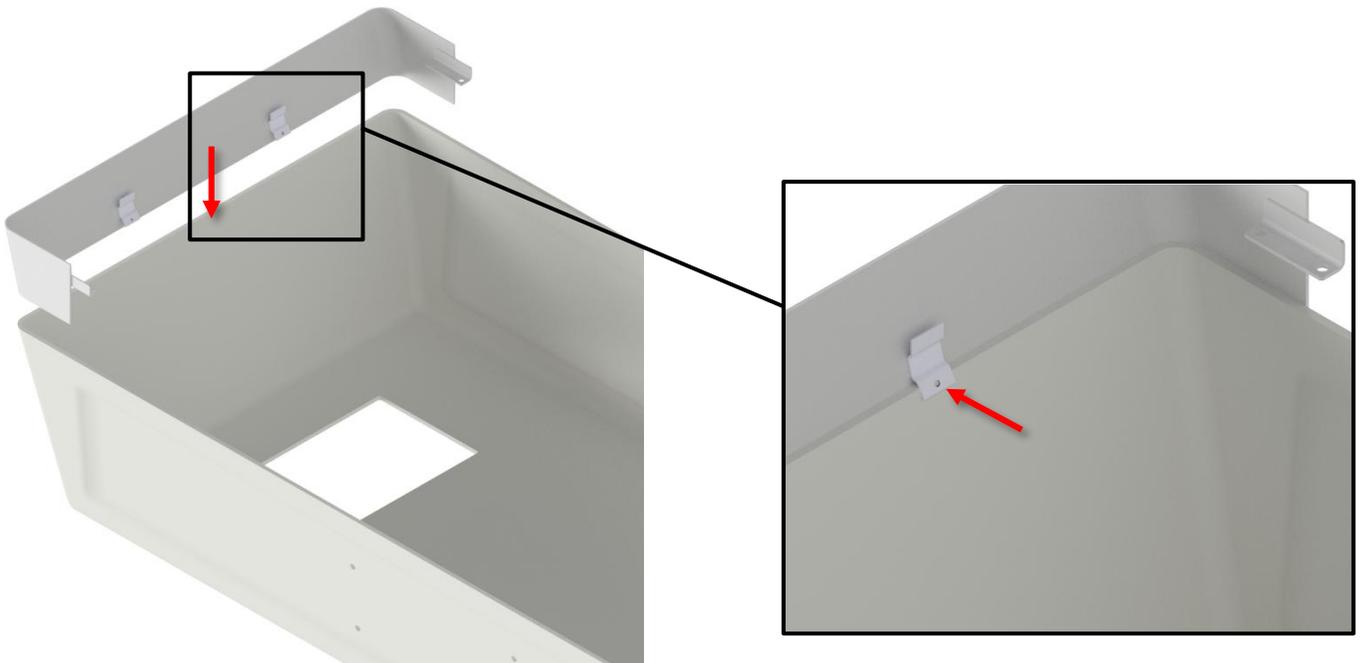
c. Mount the large sides
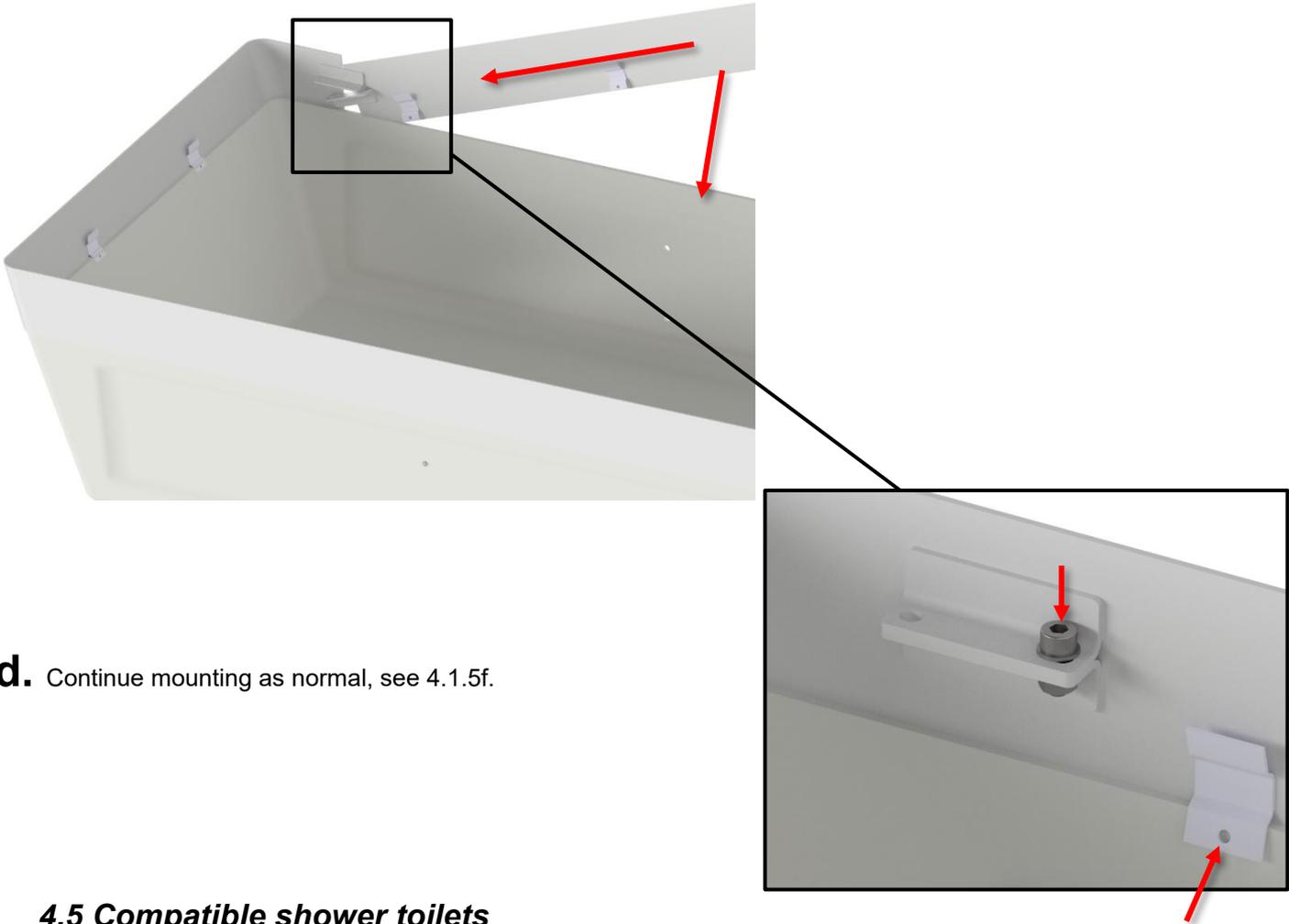
d. Continue mounting as normal, see 4.1.5f.

4.5 Compatible shower toilets

For Elevate - Toilet Lifter (manual), you have the option to use a shower toilet rather than a regular toilet. Both regular toilets and a shower toilet is offered as an option for the toilet lifter. The following shower toilets can be used with the toilet lifter:

- Svancare Bidet Elegant
- Geberit AquaClean Mera
- Geberit AquaClean Sela
- Geberit AquaClean Tuma

If another shower toilet is required, the following dimensions must be respected:
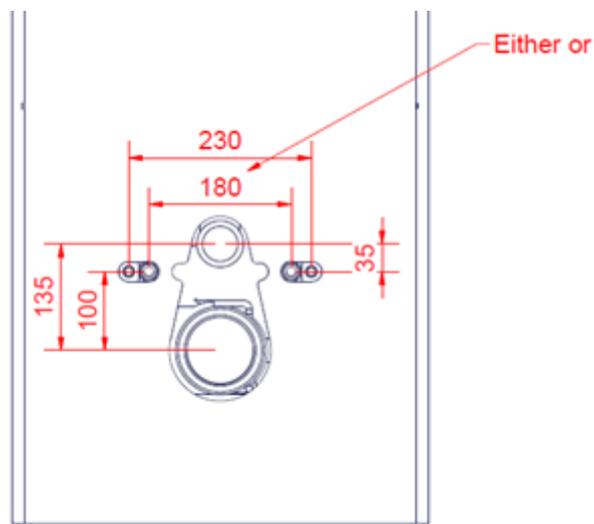
4.5.1 Installation of bidet

To mount Svancare Bidet Elegant, see **TF 200.0025**.

5. Cleaning

Cleaning can be done with lukewarm water and a suitable all-purpose cleaning agent. Use a cloth or soft sponge to wash the product.

For surface disinfection, chlorine-based disinfectants may be used in accordance with the product specification and safety precautions for these products, however, not at a solution greater than 1.000 ppm of active chlorine.
Likewise, ethanol-based disinfectants may be used in accordance with the product specification and safety precautions for these products.

The following agents have been tested by Ropox, and can be used, as long as they are diluted according to the instructions on the container.

5.1 Preapproved disinfection products

Tradename	Solution
Diversey Suma Tab D4	1.000 ppm
Rodalon ®	Ethanol 70% v/v

5.2 Preapproved cleaning products [Toilet lifter]

Tradename	Solution
S90 Sanirens	1-3% peracid

For the Toilet lifter with a spiral cable going to its control, the following agents have been recommended by its manufacturer for the spiral cable.

5.3 Preapproved cleaning products [Spiral cable]

Tradename	Solution
Sekumatic FDR or FRE	3mL/L [pH 11.5-12]
Neodisher Dekonta	
Thermosept NDR	0.5% [pH 5-8]

Immidiately after cleaning or disinfection, the product must be wiped down with a cloth wrung in clean water, then a dry rag, as some materials may otherwise become discolored and stained, and the surface coating may deteriorate.
Keep in mind, after prolonged use of the product, with regular cleaning intervals, it can be expected that certain surfaces will not have the same sheen as initially. The product can be disinfected regardless.

	Note!
⊘	Do not use cleaning agents containing abrasive e.g., scouring powder, steel wool, scouring sponge. This product is not designed to be sterilized. Autoclaving and sterilization beyond normal means may change the product safety and function.

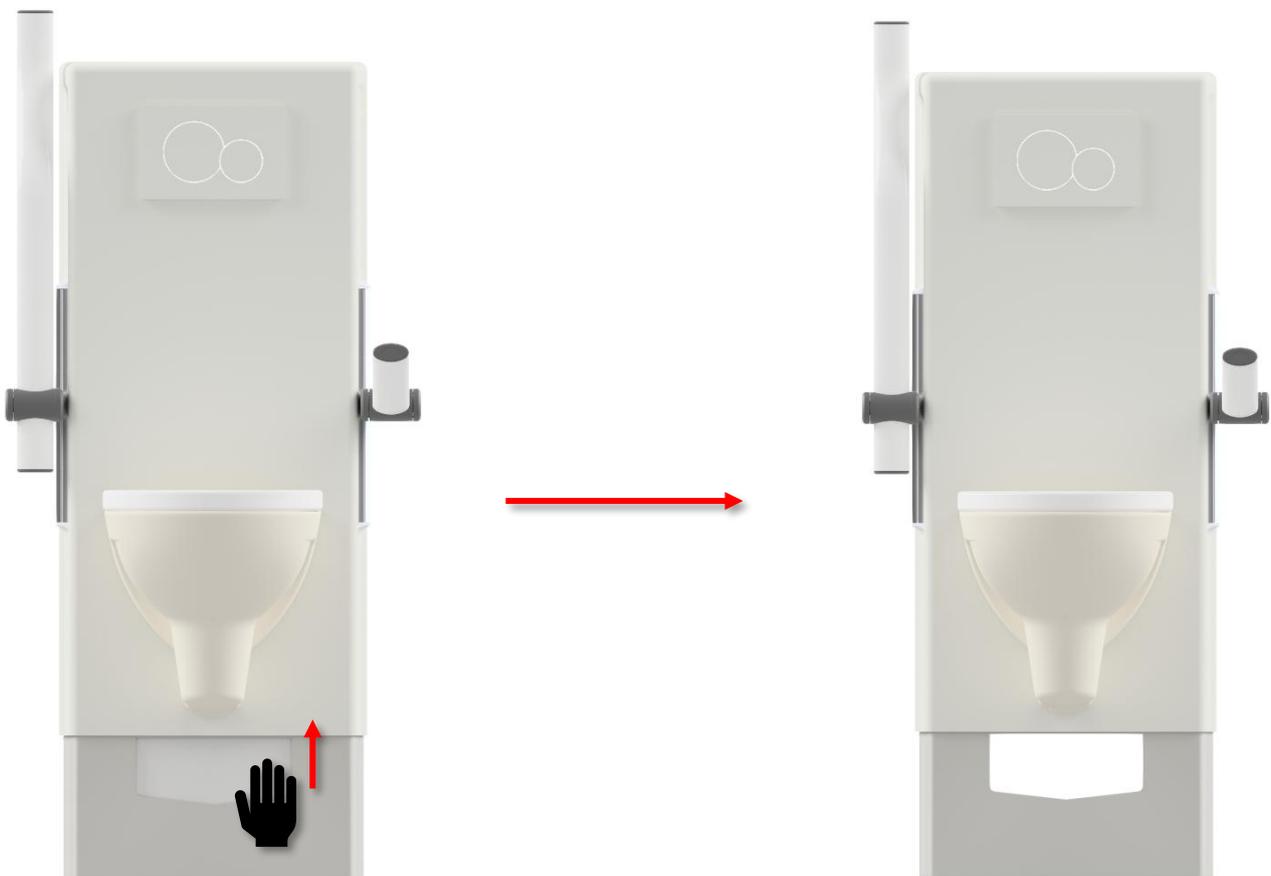# 6. Maintenance

	Notification!
⊘	Failing to comply with periodic maintenance may result in degradation of the product function and safety.

6.1 Periodic maintenance

Component	Maintenance activity	Maintenance interval	Registration date of maintenance
Geberit Sigma 12 cistern	Descaling / change of worn components	6-12 months dependent on calcium content in water	

6.2 Maintenance of pipes and hoses

If need be, it's possible to open the lower cover plate, by taking the lifter to the highest position, and sliding the service hatch up. Never attempt to service the toilet lifter while adjusting the height.

7. Component parts list

	Notification!
⊗	Ropox will make parts list available for extraordinary maintenance and repair beyond what is described in this manual. Repair beyond what is described in this manual may only be done by Ropox designated service personnel.

8. Environmental protection

The product is not intended to be disposed as municipal waste. Proper disassembly, sorting and disposal of components must be done by waste disposal professionals.

Part	Disposal recommendation
Frame	Steel
Cistern	Hard plastic Polystyrene
Covers	Hard plastic (ABS/PMMA)
Height adjustable toilet support arms	Steel

9. Accident reporting

The manufacturer of this product recommends any accident with this product that meets all the following criteria reported to the appropriate authority as well as to the manufacturer.

1. There has been or could have been an accident
2. The medical device is considered to be a contributing factor to the case, and
3. The event resulted or could have resulted in one of the following outcomes:
   - Death - a patient, a user or a third party's death
   - A serious deterioration of a patient's health, a user's health or a third party's health status in the form of:
     - a. Life-threatening disease
     - b. Lasting damage or injury
     - c. Necessary medical or surgical treatment to divert life-threatening illness, permanent injury
     - d. Fetal death, fetal injury, or congenital abnormalities