

**Viega Eco Plus WC element, individually height-adjustable**

## Instructions for Use



**Viega Eco Plus**

**Model**  
8161.22

**Year built:**  
from 07/2013

**en\_INT**

**viega**



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# 1 About these instructions for use

Trade mark rights exist for this document, further information can be found at [viega.com/legal](http://viega.com/legal).

## 1.1 Target groups

The information in this instruction manual is directed at the following groups of people:

- Heating and sanitary professionals and trained personnel
- Trained electricians
- Operators
- Consumers
- Drywall builder

It is not permitted for individuals without the abovementioned training or qualification to mount, install and, if required, maintain this product. This restriction does not extend to possible operating instructions.

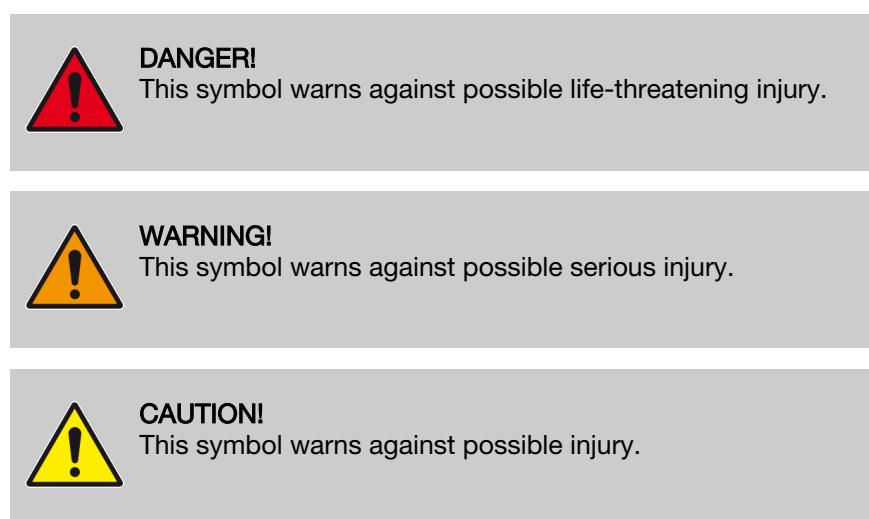
The installation of Viega products must take place in accordance with the general rules of engineering and the Viega instructions for use.

### Handover to the user

This document contains information about the operation and maintenance of the washbasin system. Please make sure to hand the document over to the customer / operator / user of the washbasin system after mounting.

## 1.2 Labelling of notes

Warning and advisory texts are set aside from the remainder of the text and are labelled with the relevant pictographs.



**NOTICE!**

This symbol warns against possible damage to property.



*Notes give you additional helpful tips.*

### 1.3 About this translated version

This instruction for use contains important information about the choice of product or system, assembly and commissioning as well as intended use and, if required, maintenance measures. The information about the products, their properties and application technology are based on the current standards in Europe (e. g. EN) and/or in Germany (e. g. DIN/DVGW).

Some passages in the text may refer to technical codes in Europe/Germany. These should serve as recommendations in the absence of corresponding national regulations. The relevant national laws, standards, regulations, directives and other technical provisions take priority over the German/European directives specified in this manual: The information herein is not binding for other countries and regions; as said above, they should be understood as a recommendation.

# 2 Product information

## 2.1 Standards and regulations

The following standards and regulations apply to Germany / Europe. National regulations can be found on the relevant web site of your country at [viega.com/standards](http://viega.com/standards).

### Regulations from section: Fields of application / Mounting conditions

Scope / Notice	Regulations applicable in Germany
suitable masonry walls	EN 1996-1-1
suitable concreted walls	DIN 1045
suitable support profiles	DIN 18183

### Regulations from section: Sound protection

Scope / Notice	Regulations applicable in Germany
Fulfilled noise protection requirements	DIN 4109
Fulfilled noise protection requirements	DIN 4109 (additional sheet 2)
Fulfilled noise protection requirements	VDI 4100 SSt I-SSt II

## 2.2 Intended use

### 2.2.1 Areas of use

The Viega Eco Plus WC element is suitable for mounting on masonry wall constructions and support profiles pursuant to the regulations in section  „Regulations from section: Fields of application / Mounting conditions“ on page 6.

The individual seat height can be adjusted within a range of 80 mm (310–390 mm).

Operation of the WC element is possible from a total weight of at least 60 kg (body weight and WC ceramic).

## 2.3 Product description

### 2.3.1 Overview

The WC element is equipped as follows:

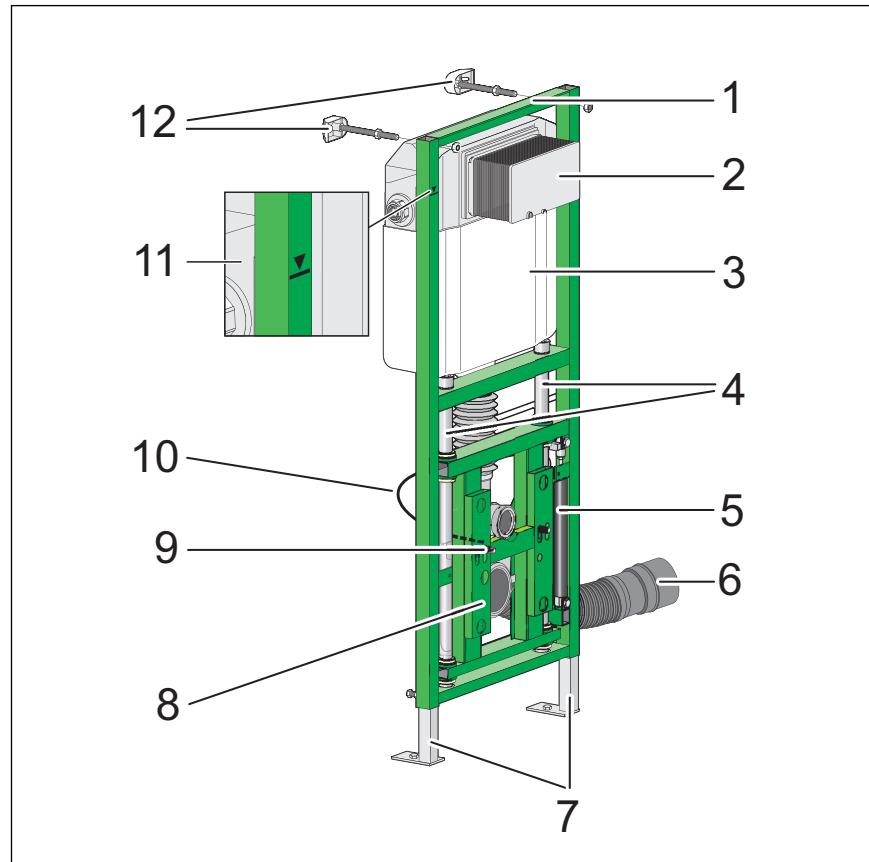


Fig. 1: Components

- 1 - Viega Eco Plus element
- 2 - revision shaft
- 3 - Viega concealed cistern
- 4 - guide shafts
- 5 - gas pressure spring
- 6 - drain elbow
- 7 - adjustable feet
- 8 - cover plate contact surface
- 9 - threaded rods for fixing sanitary objects (gauges for bore hole 180 mm)
- 10 - hydraulic hose
- 11 - marking 1.0 m above the upper edge of the finished floor
- 12 - fixing set

### 2.3.2 Operating mode

The height-adjustable WC element is operated without electronics and functions with the help of a gas pressure spring.

The gas pressure spring enables continuous adjustment of the seat height.

#### Lowering WC

When the actuating button is pressed and there is a load of at least 60 kg (body weight and WC ceramic), the ceramic is lowered by a maximum of 80 mm.

## Lifting WC

When the actuating button is pressed and there is no load on the WC ceramic, the WC ceramic is raised by a maximum of 80 mm by the gas pressure spring.

### 2.3.3 Compatible components

The WC element is compatible with all common WC ceramics, even with larger projection (barrier-free).



*The following lists contain a selection of the compatible and incompatible WC ceramics.*

*Should you have any questions on this subject, please contact the Viega Service Center.*

#### Unrestricted compatible WC ceramics

Manufacturer	Series	Mod.-No. / Art.-No.
Duravit	Architect	254609
	Darling New	254409, 254509, 254909, 255709
	D-Code	22109, 221109, 253509
	DuraStyle	253609, 253639, 253709, 253809, 253909, 254009, 254209, 255109, 255209, 255909
	DuraPlus	19209, 20609, 254709
	Happy D.2	222109, 222209, 255009
	Series 1930	18209
	Starck 1	21009
	Starck 2	253309, 253409, 253439
	Vero	221709, 221739
Ideal Standard	Calla	K 3053 01
	Connect	E 8017 01, E 8018 01, E 8232 01
	Dea	T 3290 01
	Soft Mood	T 3226 01
	Strada	J 4521 01
	Tonic	K 3157 01
	Ventuno	T 3164 01

Manufacturer	Series	Mod.-No. / Art.-No.
	Washpoint	R 3427 01
Keramag	Icon	204000, 204060
	Xeno	206250
	it!	201900, 201950
	Flow	207900
	Flow 300	207950
	Renova Nr1	203040, 203140, 203045
	Renova Nr1 Plan	202150, 202160, 202170
	4U	203430, 203450, 203460
	Dejuna	208530
Villeroy & Boch	Subway	6600 10 XX
	Amadea	7C96 B0 XX
	Architectura	5685 10 XX
	O.novo	5660 10 XX
	Omnia	5684 10 XX
	Omnia pro	7615 10 XX
	Pure stone	5670 10 XX

#### Incompatible WC ceramics

Manufacturer	Series	Mod.-No. / Art.-No.
Duravit	2nd Floor	222009
	Esplanada	255309, 255409
	Pura Vida	221909
	Starck 3	220009, 220109, 220209, 220309, 220609, 221509, 222509, 222609, 222709
Ideal Standard	Eurovit	V 3906 01, V 3403 01
	San ReMo	R 3401 01, R 3493 01, R 3404 01
	Connect_Freedom	E 6076 01, E 607501
	Moments	K 3113 01
Villeroy & Boch	Lifetime	5672 10 XX
	My Nature	5610 10 XX
	Subway 2.0	5614 R0 XX
	Aveo	6612 10 XX

Manufacturer	Series	Mod.-No. / Art.-No.
	Hommage	6661 B0 XX
	Joyce	5670 R0 XX
	La Belle	5627 10 XX
	Memento	5628 10 XX
	Sentique	5622 10 XX

### Compatible flush plates

Product	Name	Model
Standard	Flush plate Standard 1	8180.1
Visign for Style	Flush plate Visign for Style 10	8315.1
	Flush plate Visign for Style 11	8331.1
	Flush plate Visign for Style 12	8332.1
	Flush plate Visign for Style 12	8332.4
	Flush plate Visign for Style 13	8333.1
	Flush plate Visign for Style 14	8334.1
	Functional unit	8332.3
Visign for More	Flush plate Visign for More 100	8352.1
	Flush plate Visign for More 101	8351.1
	Flush plate Visign for More 102	8353.1
	Flush plate Visign for More 103	8355.1
	Flush plate Visign for More 104	8354.1
Visign for Care sensitive	Flush plate sensitive Visign for Care	8352.21
Visign for More sensitive	Flush plate sensitive Visign for More 100	230 V 8352.11
	Flush plate sensitive Visign for More 100	6.5 V 8352.12

Product	Name	Model
	Flush plate sensitive Visign for More 103	230 V 8355.11
	Flush plate sensitive Visign for More 103	6.5 V 8355.12
Visign for Public	Flush plate Visign for Public 1	8326.1
	Flush plate Visign for Public 2	8327.1
	Flush plate Visign for Public 5	8326.16
	Flush plate Visign for Public 6	8326.15
	Remote actuation Visign for Public 1	8326.21
	Cover plate Visign for Public	8326.9

### 2.3.4 Sound protection

The WC element complies with the noise insulation requirements specified in section *„Regulations from section: Sound protection“ on page 6.*

### 2.3.5 Technical data

#### Product data

adjustable seat height	approx. 400–480 mm <sup>1)</sup>
Wall construction (incl. wall tile)	max. 45 mm
Drive weight (body weight + ceramic weight)	min. approx. 60 kg
Drive weight	max. approx. 28 kg
Release force for the actuating button	approx. 30 N
Load on middle of ceramic	max. 400 kg

<sup>1)</sup> at factory intended fixing height of 310–390 mm

## Flush volume

<b>Small flush volume</b>	Factory setting	approx. 3 l
	Setting range	approx. 3–4 l
<b>Large flush volume</b>	Factory setting	approx. ca. 6 l
	Setting range	approx. 6–9 l

## 2.4 Accessories

### Required accessories

A cover plate (model 8356.8) made of TG clear / light grey.

### Optional accessories

The WC element can be extended by connecting an installation set (model 8350.14) and an installation frame (model 8350.23 or model 8330.21) for a tile-level flush plate.

The installation set is suitable for the connection of an electrical actuation. The installation set consists of an empty pipe and a hollow wall socket. The empty pipe connects the hollow wall socket with the concealed cistern.

If a WC ceramic that weighs more than 28 kg is mounted, a gas pressure spring, model 8174 is also required. This gas pressure spring replaces the gas pressure spring supplied.

# 3 Handling

## 3.1 Assembly information

### 3.1.1 Mounting conditions

#### Suitable walls

The Viega WC element is suitable for mounting on masonry wall constructions and support profiles pursuant to the regulations in section  „Regulations from section: Fields of application / Mounting conditions“ on page 6.

The WC element may only be mounted on even wall surfaces.

#### Construction height

With the construction height, the marked height of the upper edge of the finished floor must be observed.



*Errors caused by incorrect construction heights may limit the setting range after the completion of the work. A correction and therefore a limitation of the setting range is only possible up to max. 20 mm. The setting range is reduced accordingly from 80 mm to 60 mm.*

#### Installation depth

The installation depth is 200 mm.

#### WC ceramic

The WC element can only be used in combination with wall-hung WCs (fixing gauges for bore hole 180 mm).

On request, wall-hung WCs with a fixing gauge for bore holes of 230 mm may be used.

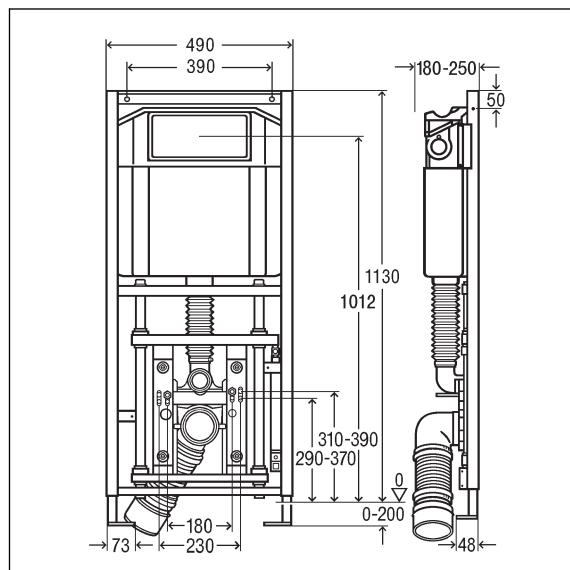
#### Actuation

The WC element can be extended by a remote actuation Visign for Public1 (model 8326.21) or by an electronic actuation (model 8350.31 or 8350.32). The corresponding actuation method must be prepared before the WC element is clad and tiled.

The corresponding empty pipe (included in the scope of delivery of the remote actuation) is required when preparing the remote actuation Visign for Public1.

### 3.1.2 Installation dimensions

#### Dimensions



### 3.1.3 Required tools

The following tools are required for mounting the WC element:

- drill with 10 mm drill bit
- ratchet with sockets: 13 mm / 17 mm
- fork or ring spanner: 10 mm / 13 mm / 17 mm / 19 mm
- fork or ring spanner: 27 mm
- Allen key: 5 mm

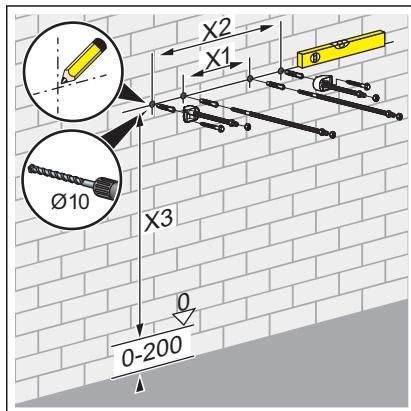
## 3.2 Assembly

### 3.2.1 Mounting WC element

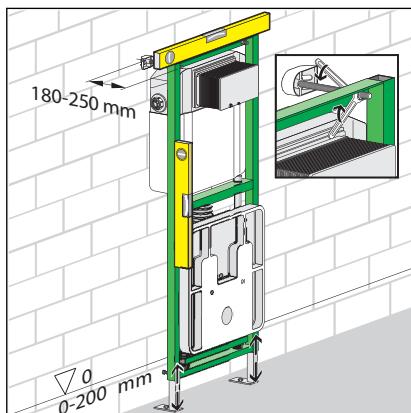


#### ***Masonry and concreted walls***

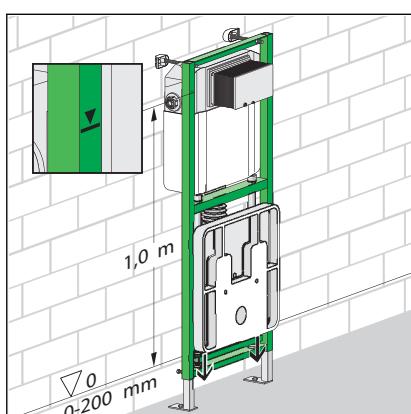
*You should use a support bracket (model 8165) when mounting multiple WC elements with an interval of > 490 mm. Observe the instructions for use of the support bracket when mounting.*

**Masonry wall**

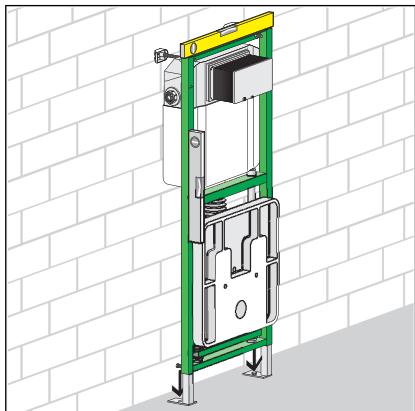
- Determine and mark fixing points.
  - X1: 390 mm (model 8180.73)
  - X2: 440 mm (model 8173)
  - X3: 1110 mm.
- Drill holes.
- Mount the fixing set with the fork spanner (size 17).



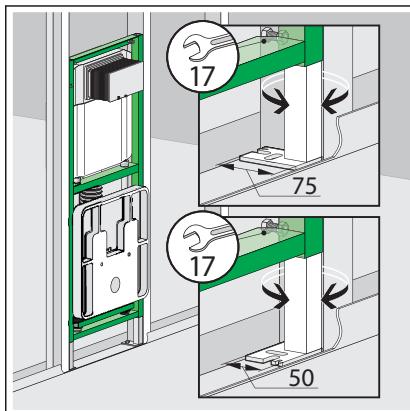
- Align WC element.
- Set the installation depth of the pre-wall element (180–250 mm) with the fork spanner (size 17).



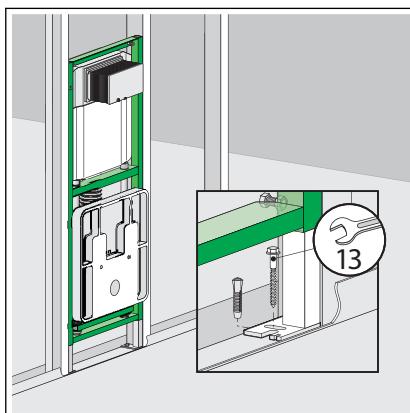
- Determine construction height in accordance with the on-site marking of the upper edge of the finished floor.
- INFO! The construction height must be determined and adhered to exactly. There are only limited possibilities available to remedy errors made during this assembly step.**  
*↳ „Construction height“ on page 13*
- Attach WC element to the wall.



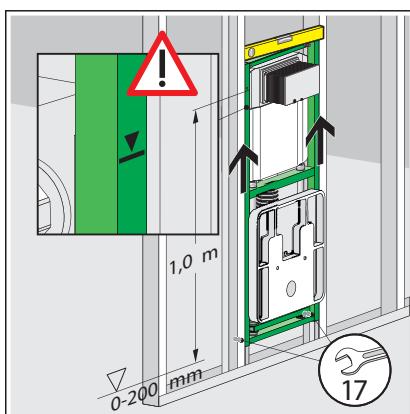
- ▶ Attach WC element to the floor using the fork spanner (size 13) and the screws and dowels supplied.

**On-site support profile**

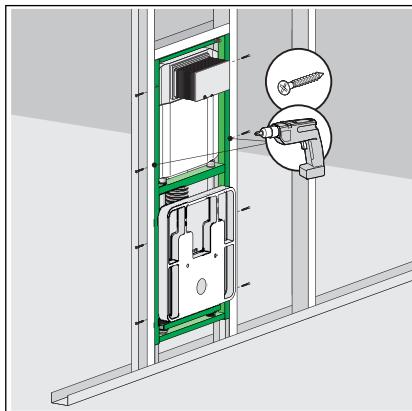
- ▶ Determine the fixing points.
- ▶ Align element.
- ▶ If necessary, adjust (pre-mounted) foot depth from 75 mm to 50 mm.
- ▶ Pull the foot out and turn by 90°.



- ▶ Attach WC element to the floor using the fork spanner (size 13) and the screws and dowels supplied.



- ▶ Determine construction height in accordance with the on-site marking of the upper edge of the finished floor.  
**INFO! The construction height must be determined and adhered to exactly.**  
**There are only limited possibilities available to remedy errors made during this assembly step.** ↗ „Construction height“ on page 13
- ▶ Pull WC element up (cutting check) and align.
- ▶ Tighten feet with the fork spanner (size 17).

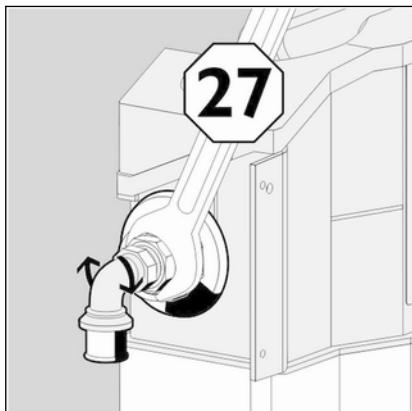


- ▶ Screw the WC element together laterally with the support profiles (size 17).

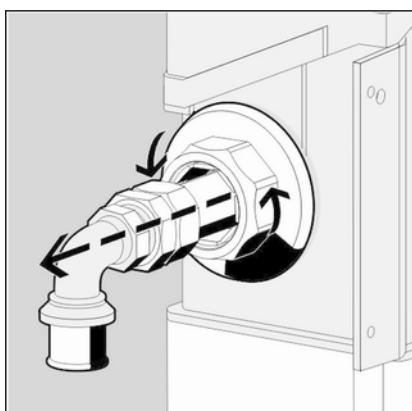
### 3.2.2 Connecting concealed cistern

#### Laterally extricable water connection

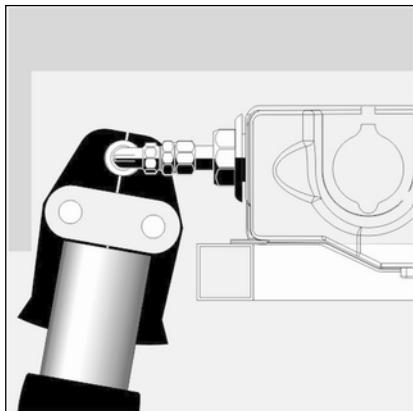
If there is not enough space when pressing the water connection, the water connection can be pulled out to the side.



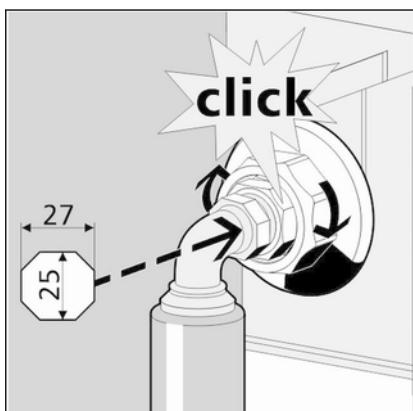
- ▶ Screw the  $\frac{1}{2}$  inch connector into the wall lead-in.  
Counter with a fork spanner (SW 27).



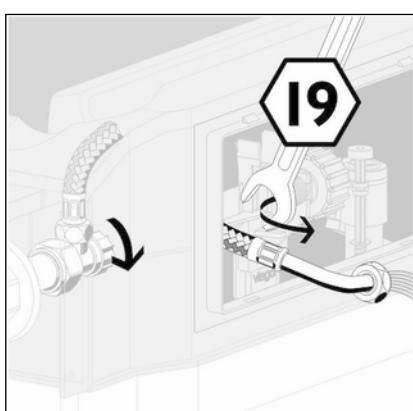
- ▶ Loosen plastic union nut.
- ▶ Pull out wall lead-in.



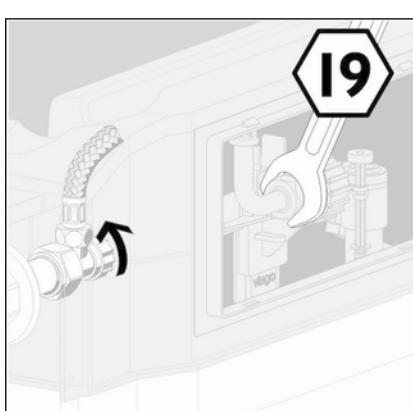
► Press connection.



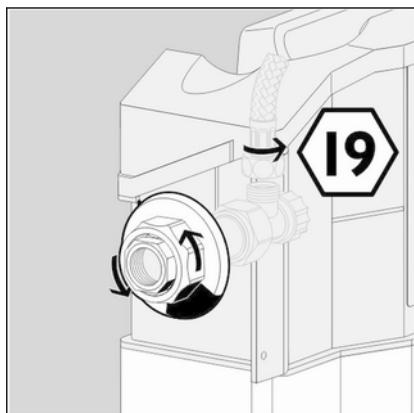
► Push wall lead-in back into the plastic clamp.  
The position of the key surface (SW 25) must be up or down.  
The clicking into the groove signals the correct position.  
► Re-tighten the union nut.



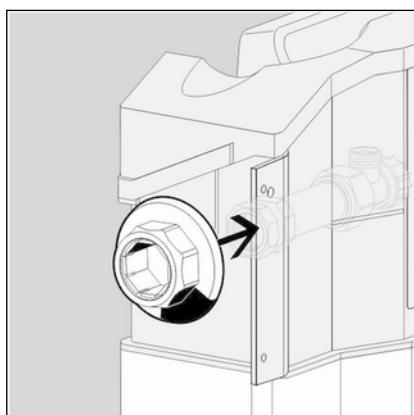
► Loosen (SW 19) flexible hose onto the filling valve.  
► Open corner valve.  
► Flush pipeline.



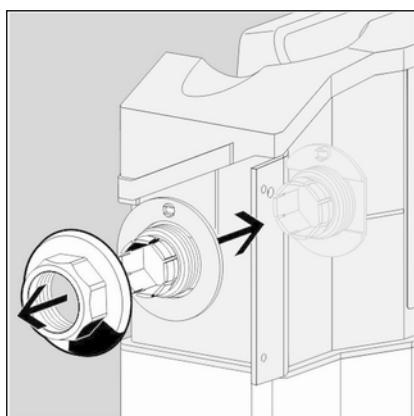
► Close corner valve.  
► Re-mount (SW 19) the flexible hose onto the filling valve.

**Conversion water connection upwards (optional)**

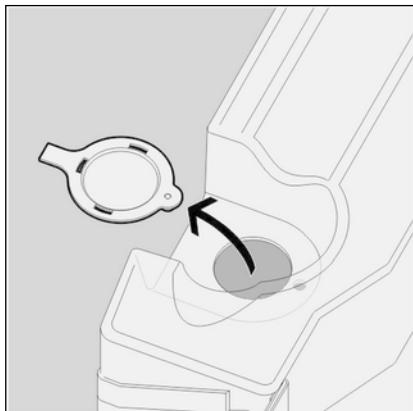
- Loosen (SW 19) flexible hose onto the corner valve.
- Unscrew plastic union nut.



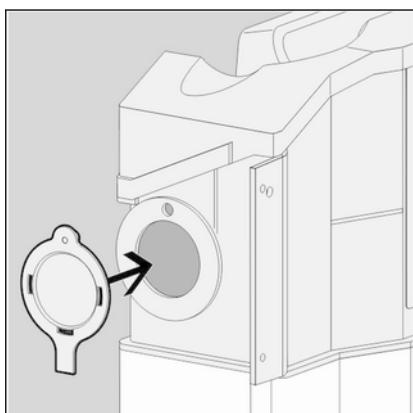
- Pull the corner valve inwards out of the wall lead-in.



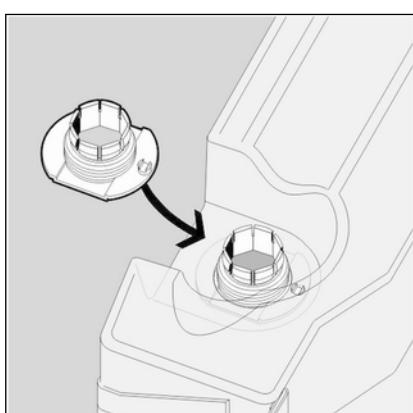
- Remove plastic union nut.
- Remove the wall lead-in inwards.



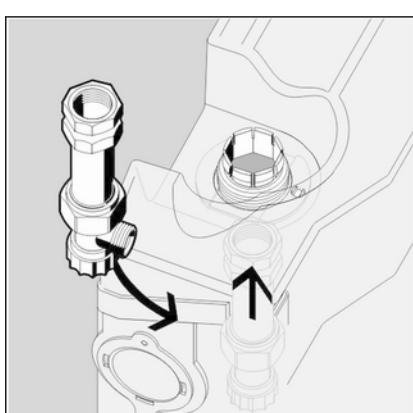
► Loosen the closing cap on the left-hand upper side of the concealed cistern.



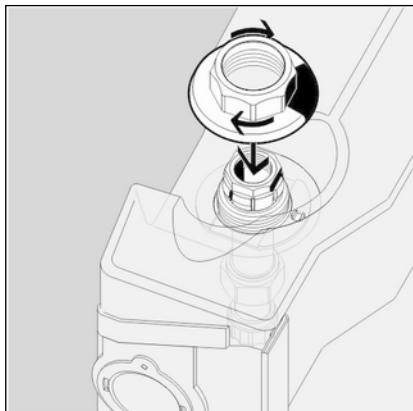
► Close opening on the side with the closing cap.



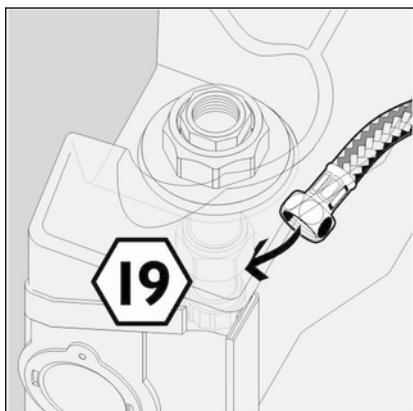
► Push wall lead-in from inside into the upper opening.



► Insert the corner valve back into the wall lead-in.



► Screw plastic union nut back onto wall lead-in.

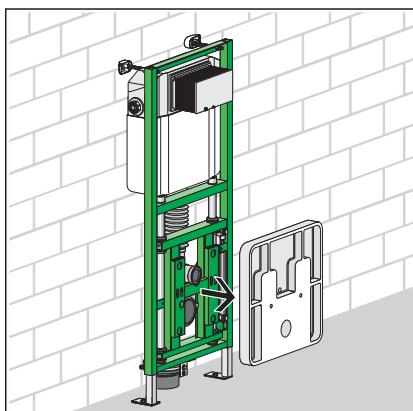


► Re-mount (SW 19) the flexible hose onto the corner valve.

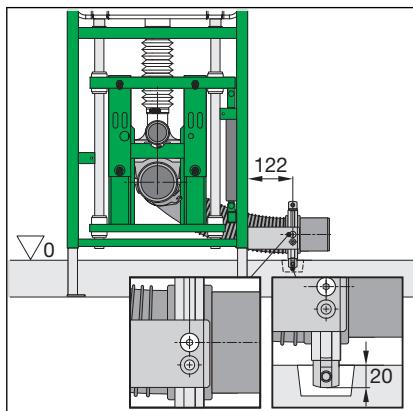
### 3.2.3 Mounting the drain elbow

Observe the following when mounting:

- professional mounting
- prevent sagging
- prevent tensile strain

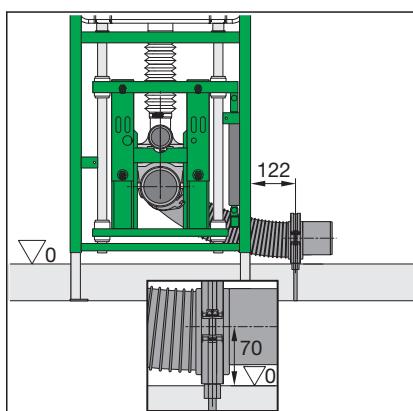


► Remove template (polystyrene).

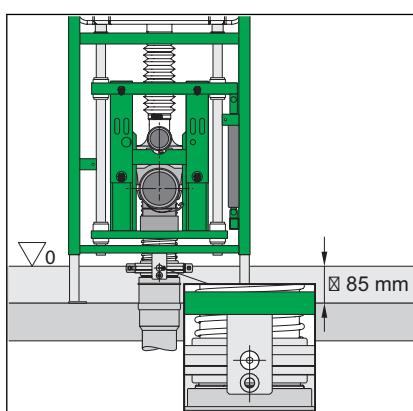


► Attach drain elbow laterally onto the element using the fixing elbow supplied.

Mounting possible on both right and left.



Alternatively: Secure the drain elbow onto the wall or floor without the fixing material supplied, taking into account the fixing sizes.



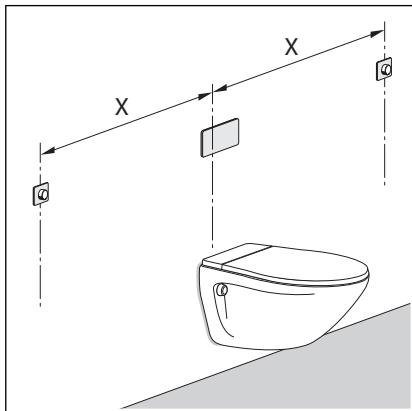
*Installing pipelines vertically through the bare concrete floor is only possible with the drain elbow (model 8095, Art. No. 713 744).*

*The screed height must be at least 85 mm.*

### 3.2.4 Preparing optional actuation versions

#### Prepare remote actuation

The corresponding empty pipe (included in the scope of delivery of the remote actuation) is required when preparing the remote actuation Visign for Public1 (model 8326.21).



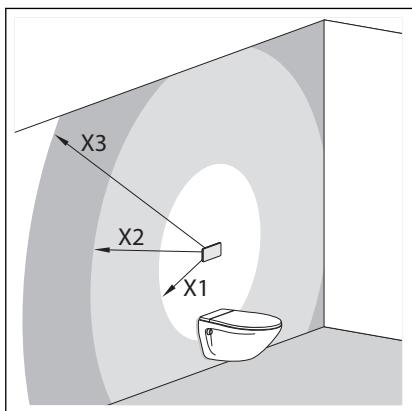
► Lead the empty pipe from the hollow wall socket into the concealed cistern.

Distance from the remote actuation to the cistern (x)

- min. 1.0 m
- max. 1.7 m

### Prepare electrical actuation

A corresponding empty pipe (not included in the scope of delivery of the electrical actuation) is required for the preparation of the electrical actuation (model 8350.31 or model 8350.32).

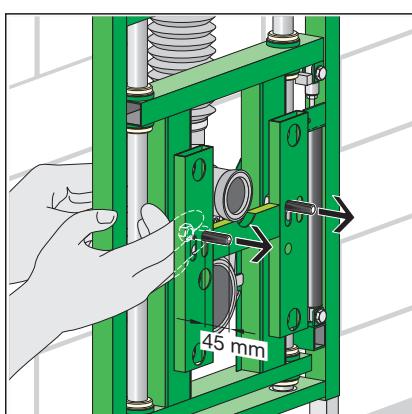


► Lead empty pipe from the switch or button into the concealed cistern, to connect the concealed socket and concealed cistern.

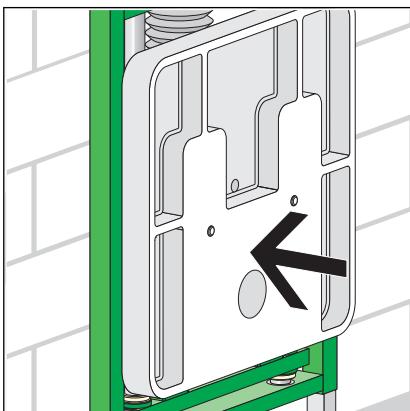
Positioning of the cistern power pack

- X1= max. 0.75 m
- X2= max. 2.75 m with an extension cable, 1 x article number 628 505
- X3= max. 4.75 m with two extension cables, 2 x article number 628 505

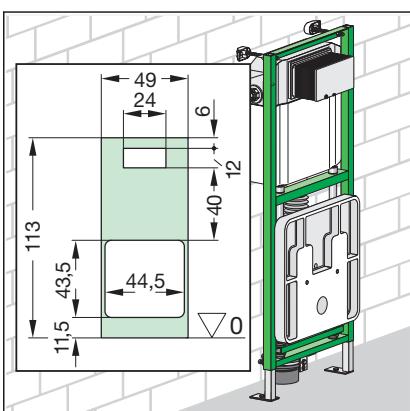
### 3.2.5 Set up element for wall covering – using the template



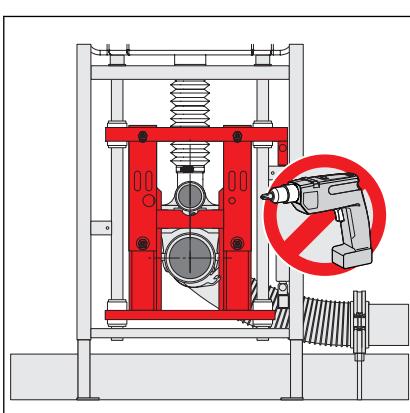
► Unscrew the threaded rod of the WC fastening so that it projects out by approx. 45 mm.



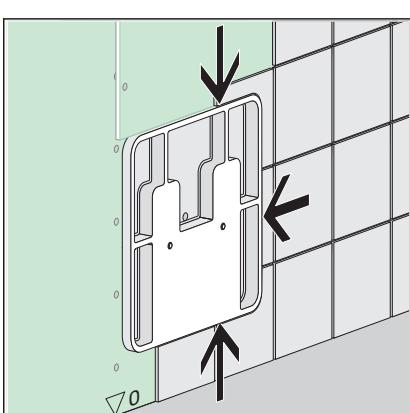
- ▶ Attach the template (polystyrene) to the element.  
Make water connection to the concealed cistern.  
↳ *Chapter 3.2.2 „Connecting concealed cistern“ on page 18*



- ▶ Double clad the pre-wall element (2 x 12.5 mm).
- ▶ Clad up to the template.



- ▶ Plaster board must **not** be attached to the height-adjustable internal frame.



- ▶ Lay tiles up to the template.

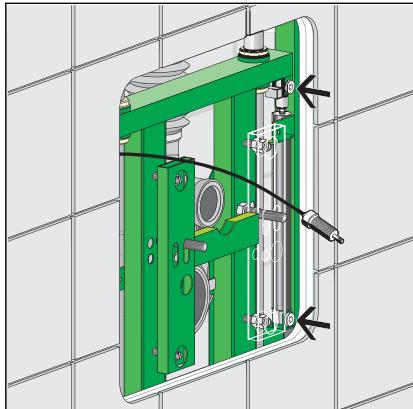
### 3.2.6 Replace gas pressure spring



*For the mounting of a WC ceramic that weighs more than 28 kg, a gas pressure spring, (model 8174) is also required. This gas pressure spring replaces the gas pressure spring supplied.*

Requirements:

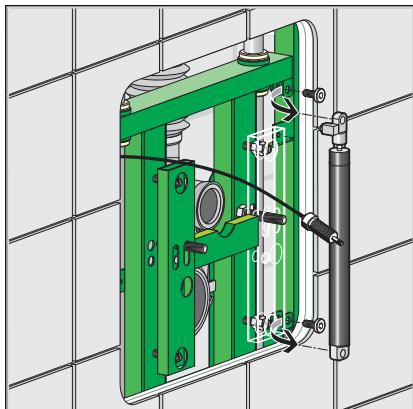
- WC ceramic is at the lowest position
- Following components are removed:
  - WC ceramic
  - Cover plate
  - Actuating button / Hydraulic actuation
  - Cover frame
- Remove gas pressure spring by lowering the top and bottom 5 mm Allen screw.



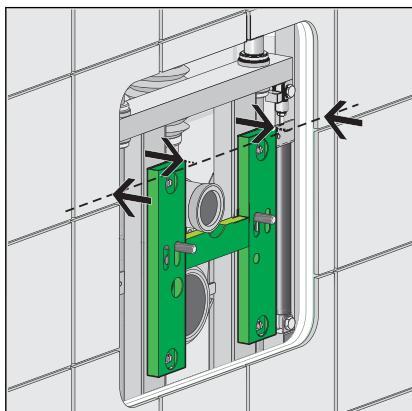
- Insert new gas pressure spring and attach with Allen screws.

Re-mount following components:

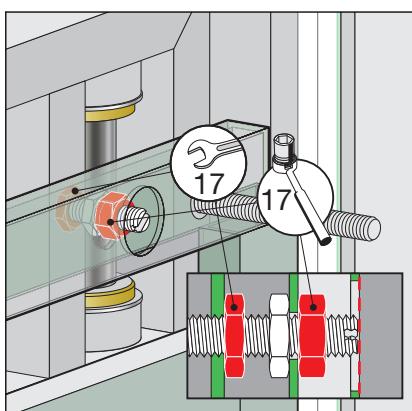
- Cover frame
- Actuating button / Hydraulic actuation
- Cover plate
- WC ceramic



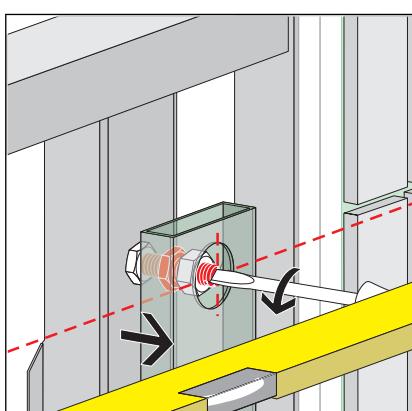
### 3.2.7 Mounting the cover plate



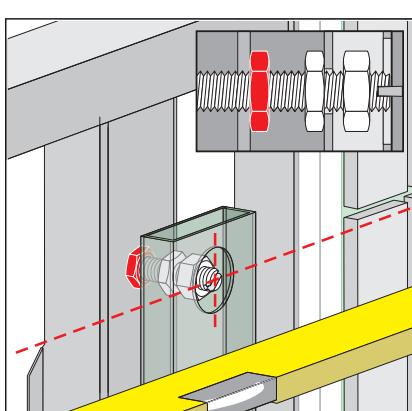
► Mount the bearing surface (H support) for the cover plate flush with the finished wall surface (size 17 / 19).



► Loosen the four threaded nuts on the element (size 17).  
► Loosen the four front threaded nuts on the sides of the H support (size 17).

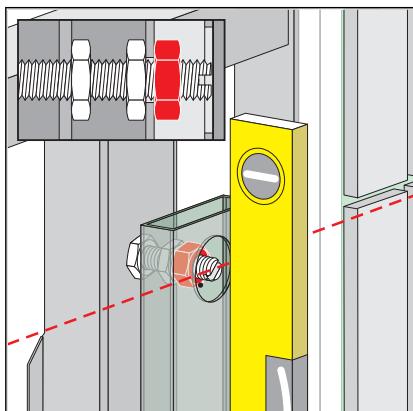


► Screw out or screw in the threaded nuts to align all four points of the H support flush with the finished wall surface.  
► Check it is flush with the wall surface using a spirit level.

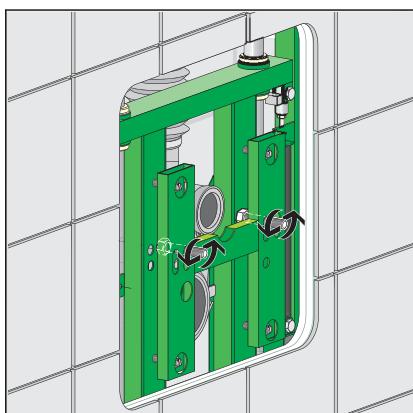


► Tighten the rear threaded nuts at all four points of the H support (size 17).

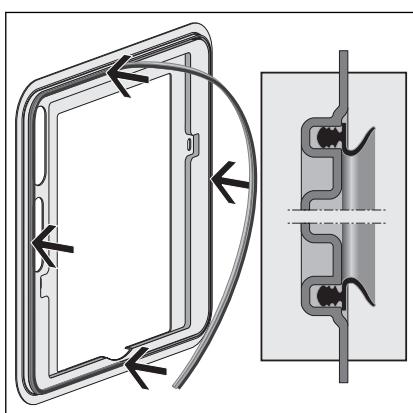
When doing so, hold the threaded rods with a flat-blade screwdriver.



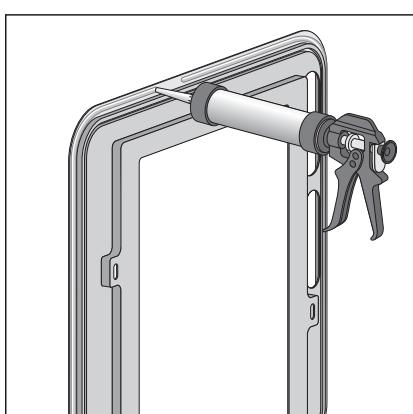
- ▶ Tighten front threaded nuts (size 17).
- ▶ Check to ensure they are flush.



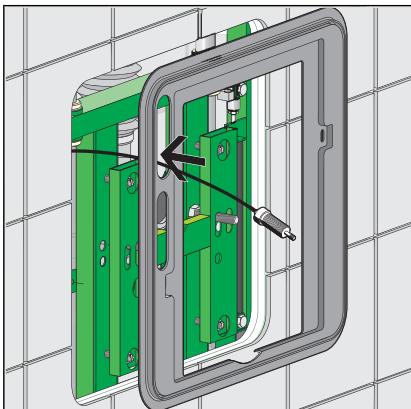
- ▶ Unscrew the threaded rods for the fixing of the sanitary object to the required size.  
When doing so, counter with threaded nuts (size 19).



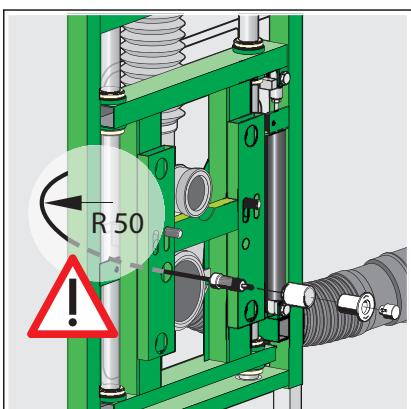
- ▶ Fit the supplied seal in the cover frame on the front.



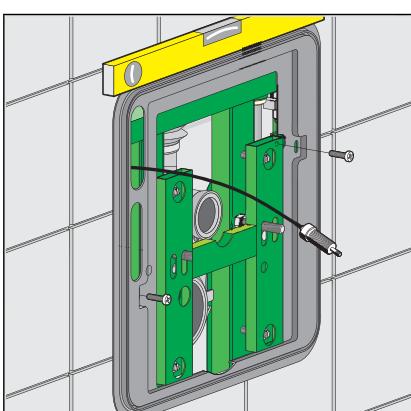
- ▶ Apply the silicone seal to the rear of the cover frame.



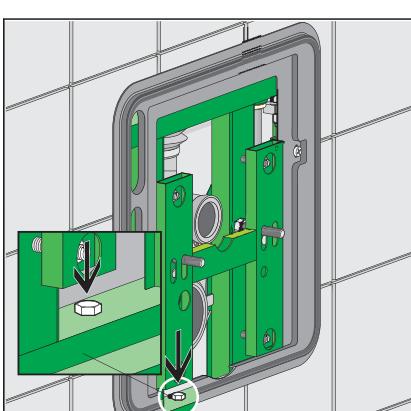
► Lead hydraulic actuation unit through the cover frame towards the front.



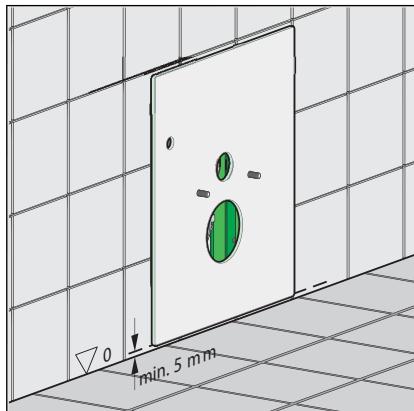
► The radius of the hydraulic actuation must be at least 50 mm.  
This prevents the hydraulic actuation from buckling.



► Align cover frame.  
Attach cover frame to the element with the recessed head screws supplied.



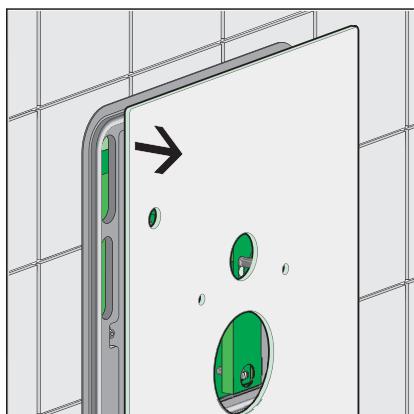
► Remove transport lock (size 10).  
Height-adjustment of the WC is only possible, if the transport lock is removed.



► Mount cover plate.

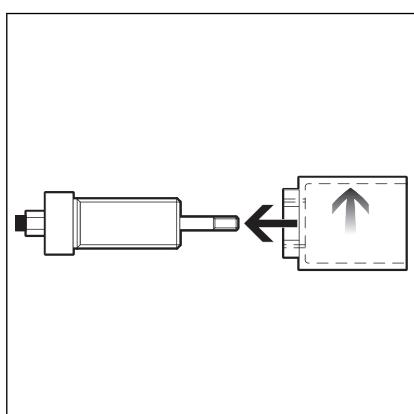
- ⇒ There must be an interval of at least 5 mm the upper edge of the finished floor and the lower edge of the cover plate.

### 3.2.8 Mounting actuating button

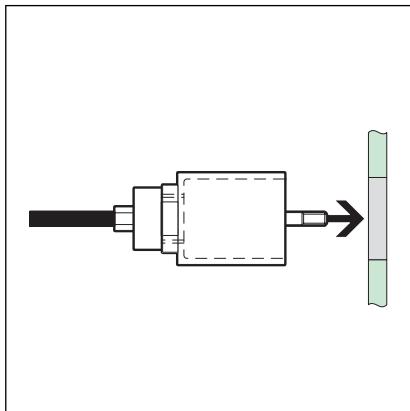


► Remove cover plate.

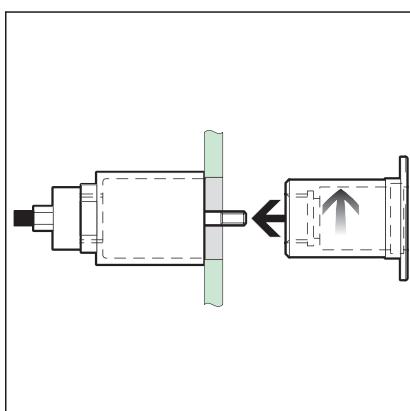
Protect with packaging corners.



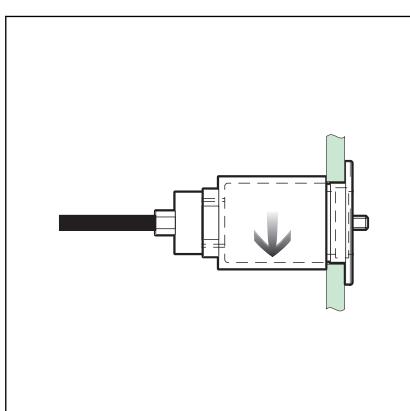
► Screw the sleeve onto the hydraulic cylinder as far as it will go.



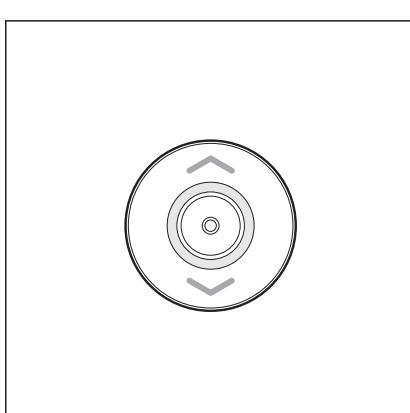
► Insert the hydraulic cylinder from the rear through the opening in the cover plate.



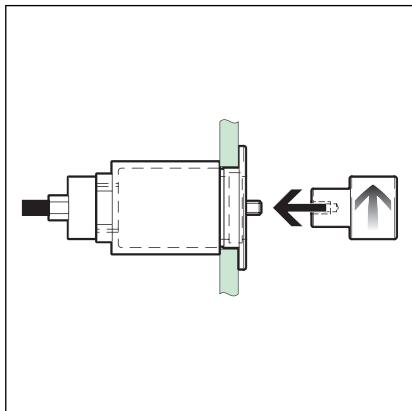
► Screw the rosette through the cover plate from the front onto the hydraulic cylinder.



► Counter screw the sleeve from the rear side.

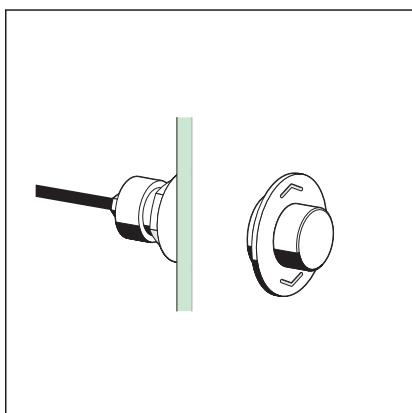


► Align the rosette with the help of the arrow symbols.

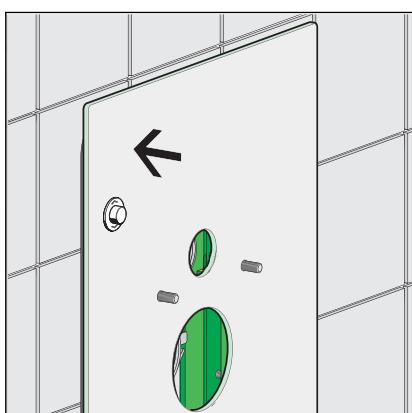


► Screw the actuating button hand-tight onto the hydraulic cylinder from the front.

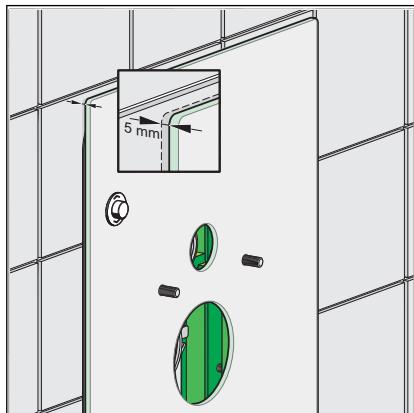
Do not use glue or the like to secure the button.



⇒ The actuating button has been mounted.



► Place the cover plate on the element.



► Check clearance between wall and cover plate (min. 5 mm).

### 3.2.9 Limiting the setting range

The length of the gas pressure spring, and therefore also the setting range of the WC, can be limited by max. 20 mm if the upper edge of the finished floor is higher than intended.

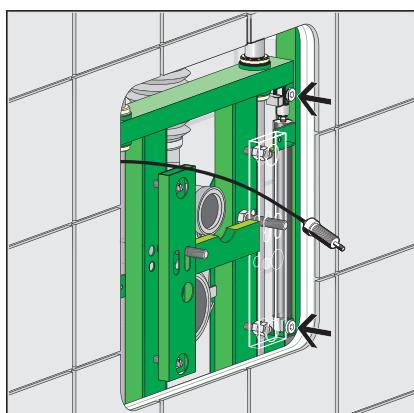
The cover plate can be prevented from touching by using spacer washers (4 mm each).

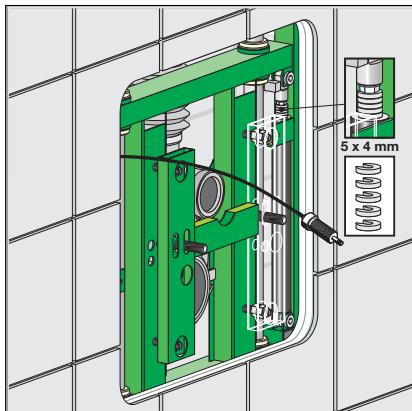
A maximum of five spacer washers may be used.

Requirements:

- WC ceramic is at the lowest position
- Following components are removed:
  - WC ceramic
  - Cover plate
  - Actuating button / hydraulic actuation
  - Cover frame

► Remove gas pressure spring by lowering the top and bottom 5 mm Allen screw.

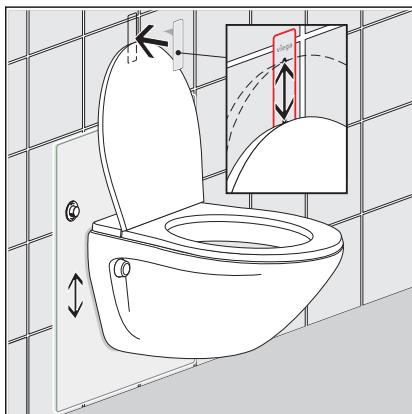




- Place the relevant number of spacer washers below the piston rod of the gas pressure spring.

### 3.2.10 Attaching protective sticker

Depending on the version of the WC lid, it may be that there is contact with the wall during the height adjustment of the WC. Attaching the protective sticker prevents damage to the surface in the possible contact area on the wall and on the WC lid.



- Determine possible area of contact between the wall and the WC lid on the wall.
- Clean possible contact area on the wall.
- Remove the protective foil from the protective sticker and attach in the possible contact area.



*The protective sticker should remain on the wall to protect the wall and the WC lid from damage to the surface in the case of further height adjustments.*

### 3.2.11 Preparing mounting for required accessories

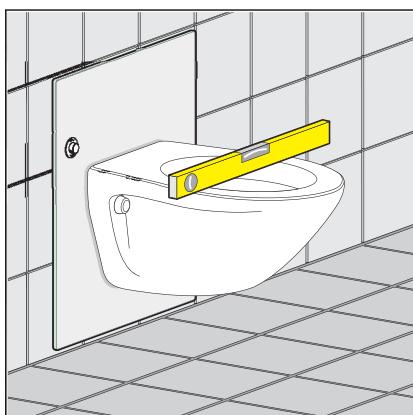
#### Mounting the connection set for WC ceramic



- Adapt the length of the flushing pipe and drainpipe.



► Cut the sound insulation panel to size.



- Install the WC ceramic and sound insulation panel.
- Align and secure the WC ceramic.
- Seal the gap between WC ceramic and cover plate with silicone.

### 3.3 Use

**CAUTION!**  
**Risk of crushing**

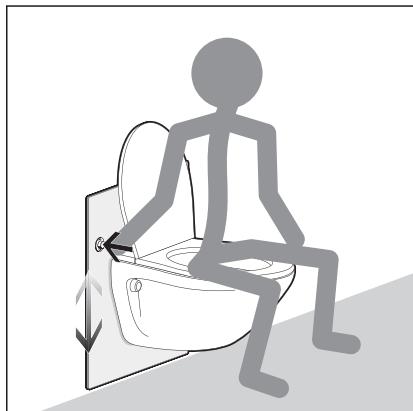
The cover plate shifts in parallel with the wall surface during the height adjustment. Due to this, there is the risk of crushing in the areas above and below the cover plate.

- Keep hands and feet away from the dangerous areas.

## Lowering WC

Requirements:

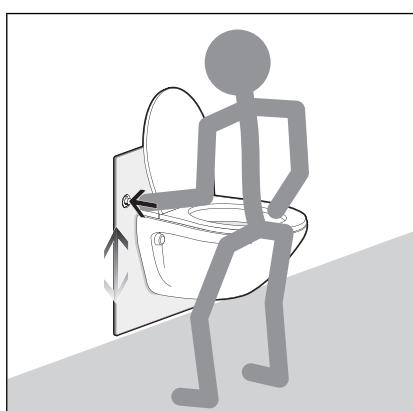
- Total weight of min. 60 kg (body weight and WC ceramic)
- WC ceramic's own weight max. 28 kg
- open WC lid
- Sit on the toilet seat.
- Press the actuating button and continue to hold until the desired height is reached.



## Lifting WC

Requirements:

- unladen toilet seat
- WC ceramic's own weight max. 28 kg
- Press the actuating button and continue to hold until the desired height is reached.



## 3.4 Cleaning and maintenance

Maintenance and cleaning work may only be carried out by specialist trade professionals or qualified experts.

### Cleaning

The cover plate may only be cleaned using mild cleaning agents containing soap.

Scouring milk and cleaning agents or disinfectants containing the following ingredients may **not** be used:

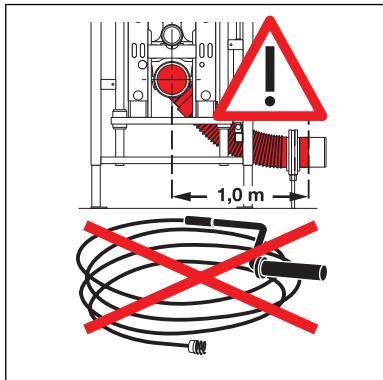
- alcohol
- ammoniac

- hydrochloric acid
- phosphoric acid
- acetic acid



**NOTICE!**  
**Pipe damage**

Do not use a cleaning spiral around the area of the flexible drain elbow on the WC connection.



## Maintenance

The mechanism of the WC element is maintenance-free.

### Cleaning and maintenance of the concealed cistern

In consideration of the mechanical, chemical and physical conditions, the concealed cistern is constantly laden.

For this reason, the components must be cleaned, as required, and the drain and filling valve seals renewed.

In areas or regions with hard water due to calcium or magnesium salts, there is the risk of limescale deposits developing on the inlet and drain valves.

The valves may have to be replaced, depending on the extent of deposits.

## 3.5 Disposal

Separate the product and packaging materials (e. g. paper, metal, plastic or non-ferrous metals) and dispose of in accordance with valid national legal requirements.