

Viega Eco Plus WC element, height-adjustable after installation

Instructions for Use



Viega Eco Plus

Model
8161.21

Year built:
from 10/2012

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.

1.1 Target groups

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

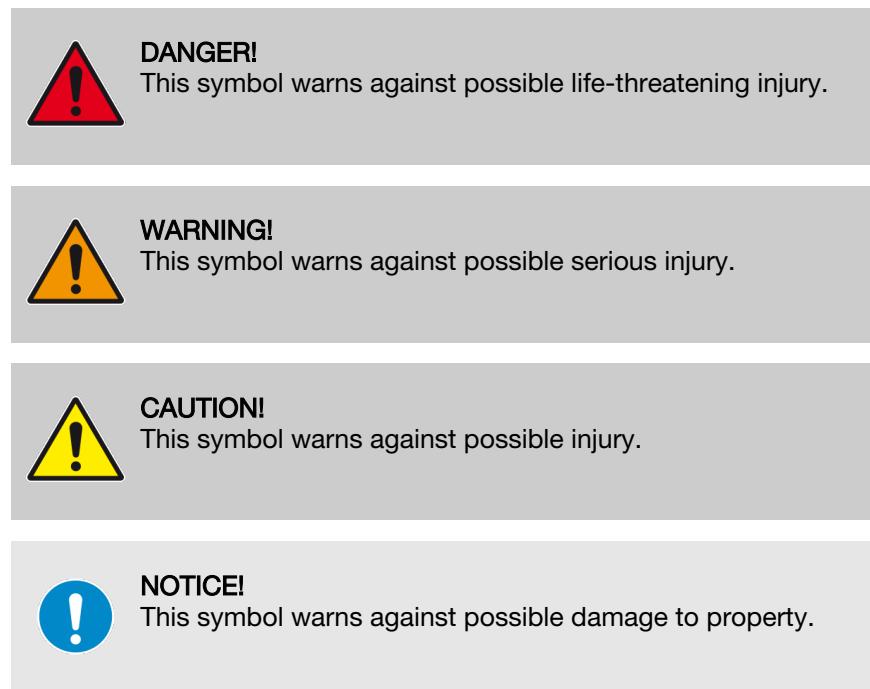
- Heating and sanitary professionals and trained personnel
- Operators
- Consumers
- Drywall builder

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.

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.





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.

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

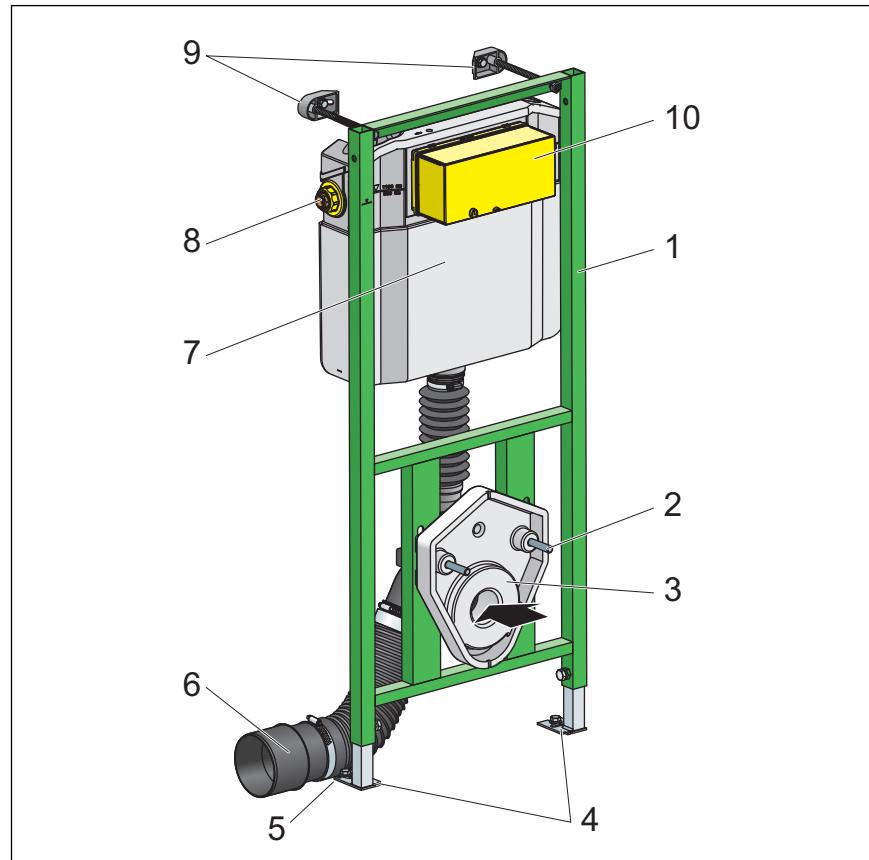
The Viega Eco Plus WC element is suitable for mounting on masonry wall constructions and support profiles pursuant to the regulations in section  „Regulations from section: Fields of application / Mounting conditions“ on page 6.

The individual seat height can be subsequently adjusted within a range of 80 mm.

2.3 Product description

2.3.1 Overview

The WC element is equipped as follows:



- 1 - Viega Eco Plus WC element
- 2 - threaded rods for wall-mounted WC (gauges for bore hole 180 or 230 mm)
- 3 - hard foam block
- 4 - adjustable feet
- 5 - screw clamp
- 6 - drain elbow
- 7 - Viega concealed cistern 2H
- 8 - water connection
- 9 - fixing set (not included in the scope of delivery, Modell 8173)
- 10 - flush actuation site protection

2.3.2 Compatible components

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

The WC element can be extended by the following compatible components:

- fixing element (model 8169.2)
- connection installation set (model 8350.14)

Installation of the WC element into the modular Viegaswift pre-wall installation system (model 8110.5) is possible.

Observe the instructions for use of the components when mounting.

Fixing element

The fixing element is suitable for barrier-free installation. Supports and handles can be mounted on the fixing element. The construction height of the fixing element is 1130 mm.

Connection installation set

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

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

Product	Name	Model
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
	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

2.3.3 Sound protection

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

2.3.4 Technical data

Flush volume

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

2.4 Accessories

Optional accessories

Cover plate (model 8040.21) made of stainless steel, brushed.



Depending on the WC ceramic to be used, this cover plate may have to be used to be able to fully cover the opening in the wall.

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.

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 or 230 mm).

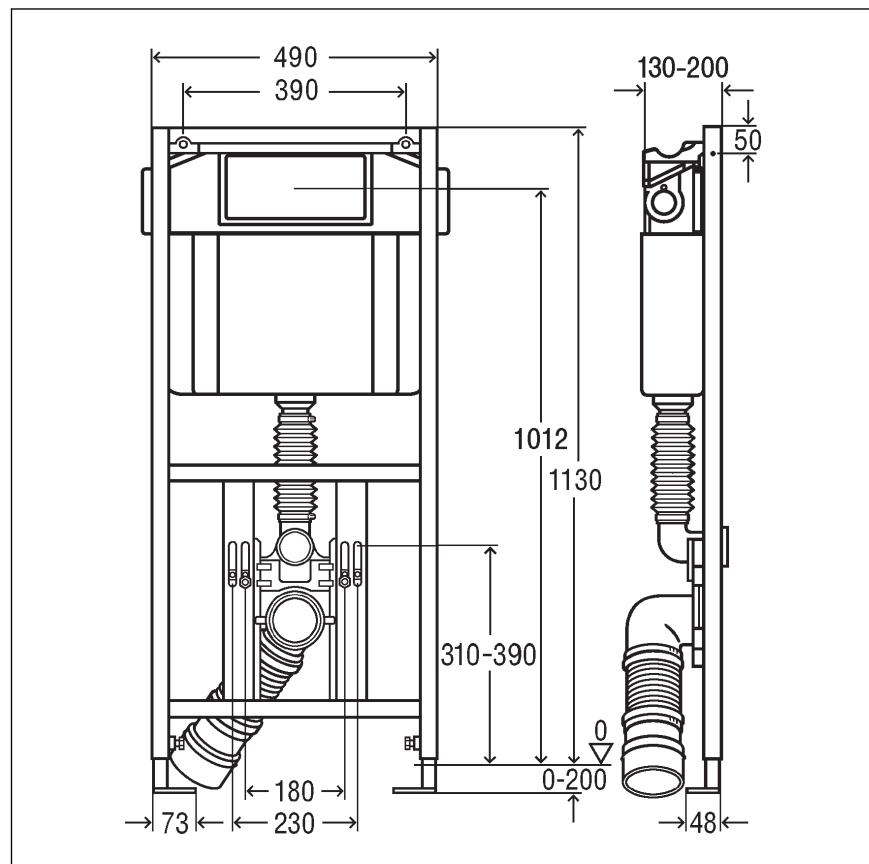
Actuation

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

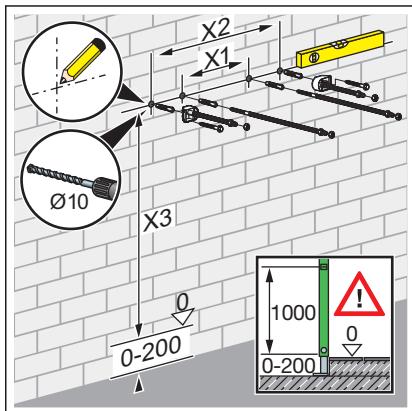
3.2 Assembly

3.2.1 Mounting WC element



Masonry and concreted walls

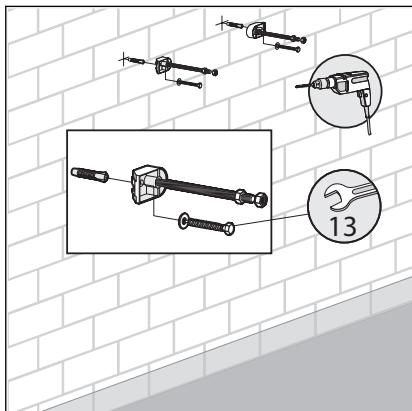
You should use a support bracket (model 8165) when mounting multiple WC elements with an interval of > 490 mm. Observe the instructions for use of the support bracket when mounting.

Masonry wall

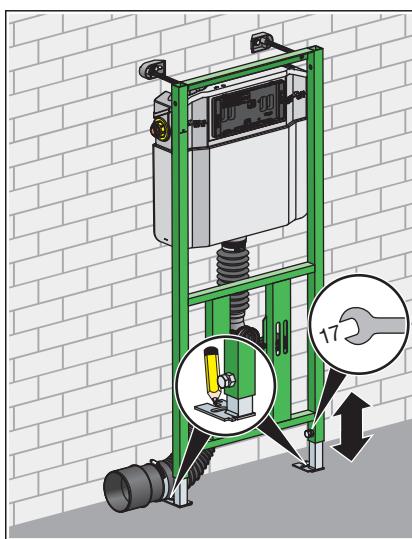
► Determine and mark fixing points.

- X1: 390 mm (model 8180.73)
- X2: 440 mm (model 8173)
- X3: 1110 mm

► Drill holes.

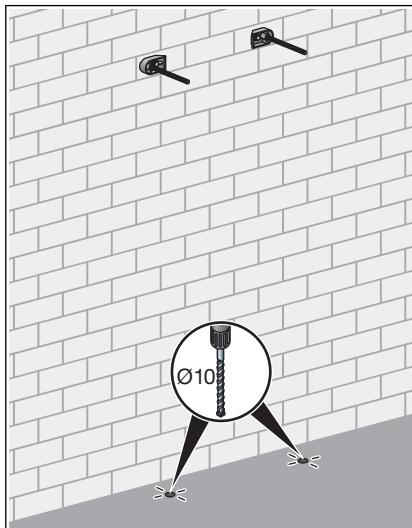


► Attach fixing set with the fork spanner (size 13).

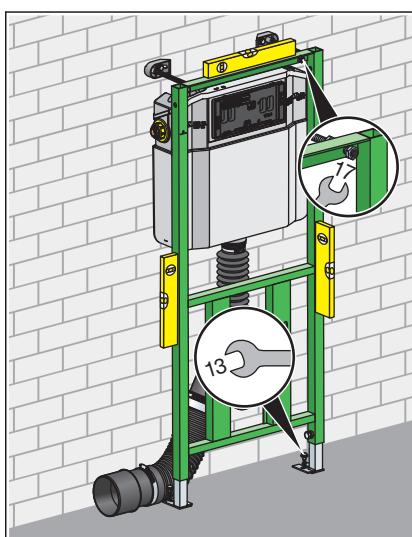


► Align the height of the feet with a fork spanner (size 17).

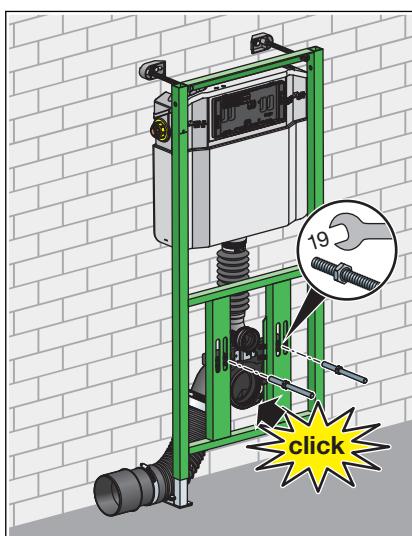
► Mark fixing points on the floor.



- Remove WC element and drill holes.



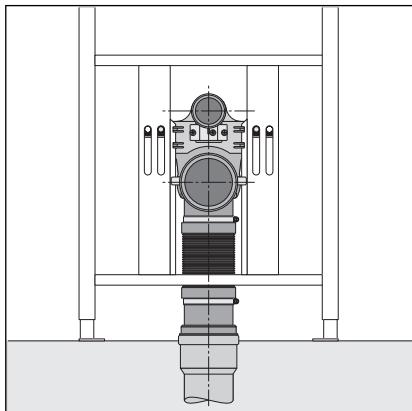
- Align the WC element in accordance with the cutting check.
- Attach WC element to the floor using the fork spanner (size 13) and the screws and dowels supplied.
- Set the installation depth of the WC element (130–200 mm) with the fork spanner (size 17).
- Attach WC element to the wall.



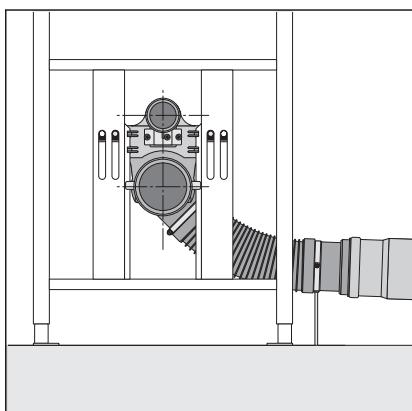
- Screw in the threaded rods for WC ceramic at 350 mm aligned with the finished floor.

INFO! Do not counter the threaded rods. All that needs to be done during subsequent height adjustment is to loosen the fixing nuts of the WC ceramic.

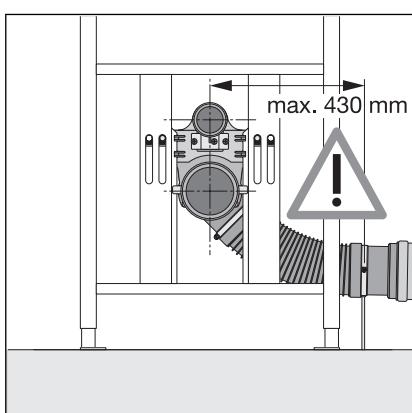
- Clip in drain elbow.



► Vertical connection: Do not lay the drain elbow in a concrete floor so that the flexibility of the connecting pipe is retained.

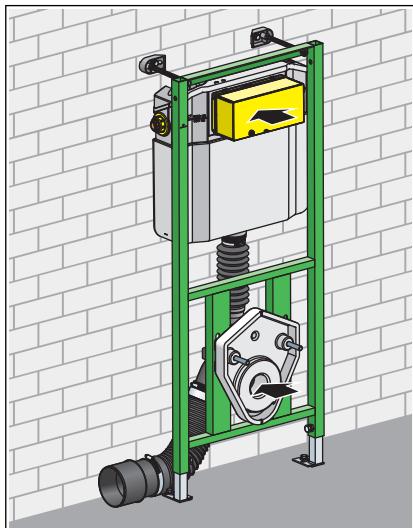


► Horizontal connection: secure the drain elbow directly next to the WC element on floor or wall with the screwing clamp.

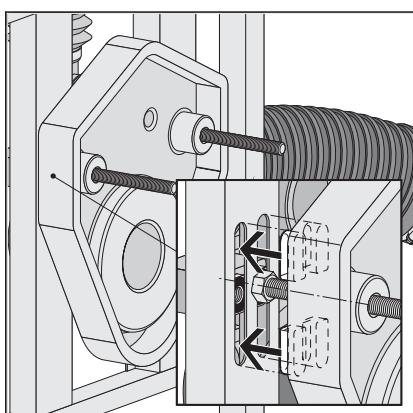


► Observe interval between the WC connection and screwing clamp, maximum 430 mm.

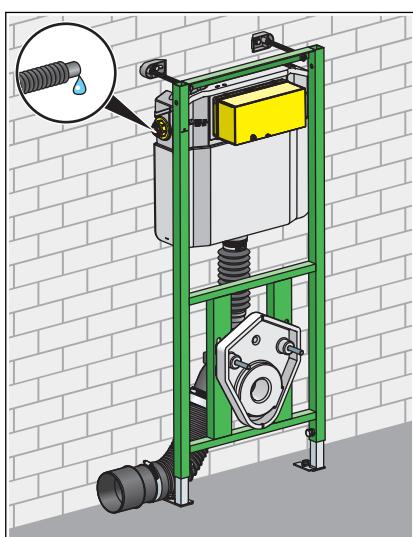
INFO! Do not lay the connection pipe with a reverse incline.



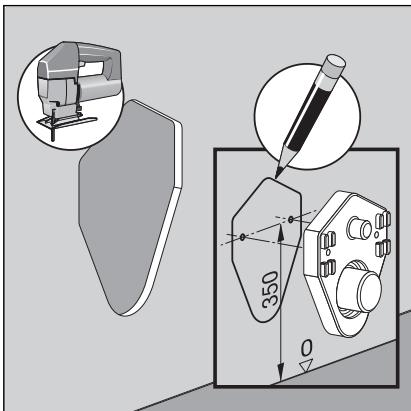
- ▶ Install site protection of the flush actuation.
- ▶ Push the hard foam block over the threaded rods on the drainpipe.



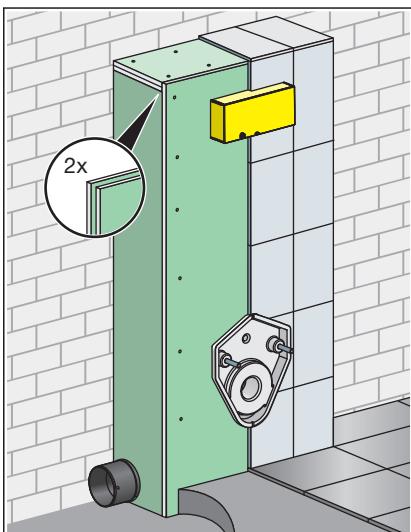
- ▶ When pushing on, place the four retaining points in the adjusting range of the WC fixing.



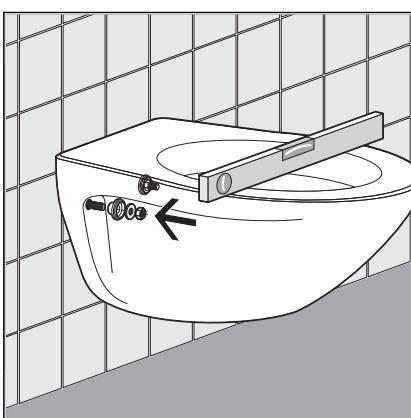
- ▶ Carry out water connection.



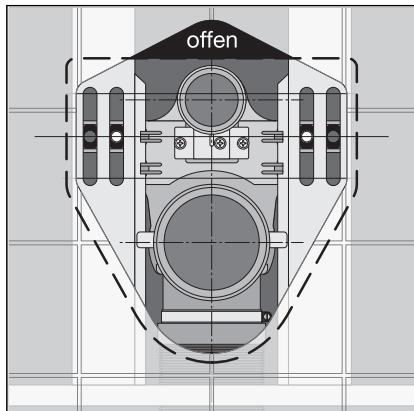
- Double-clad WC element with IFGP cladding panels (model 8055.10) (2 x 12.5 mm).
- Mark the contour of the hard foam block onto the IFGP panel.
- Remove hard foam block and cut out contour (finished floor to middle of threaded rods 350 mm).
- Re-position hard foam block.



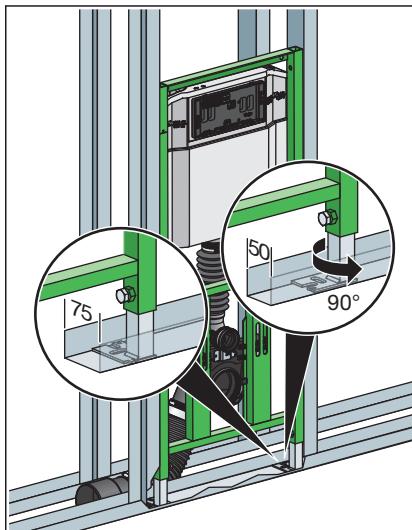
- Tile WC element.



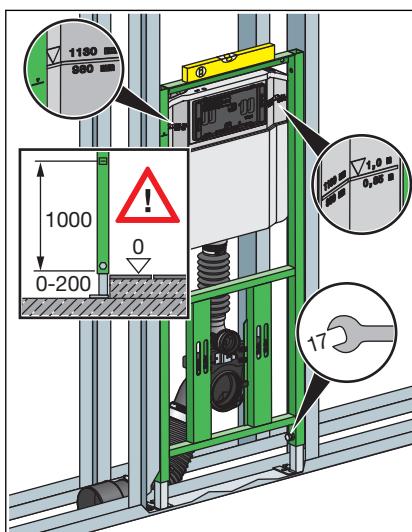
- Remove hard foam block.
- Mount WC connection fitting and push on WC ceramic.
- Align WC ceramic horizontally and secure using the fixing screws supplied.



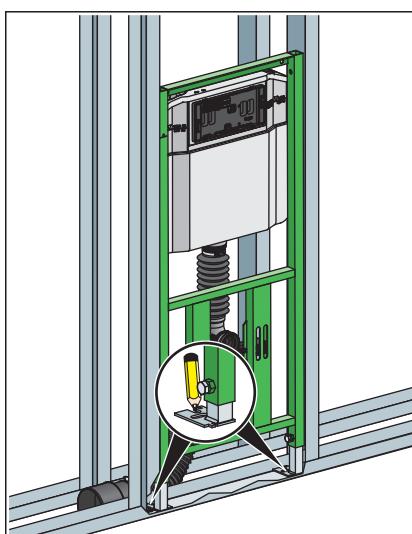
- Check if the wall opening is fully covered by the WC ceramic. If not, use cover plate 8040.21, ↗ „Optional accessories“ on page 9.

On-site support profile

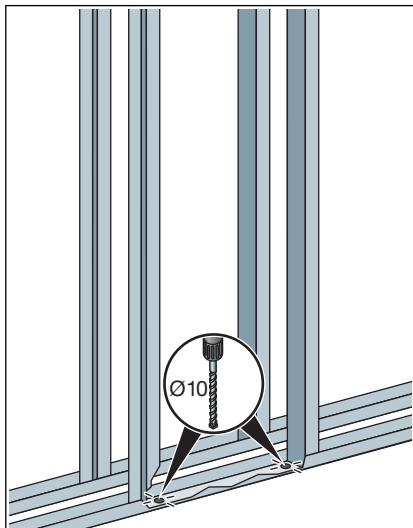
- If necessary, adjust (pre-mounted) foot depth from 75 mm to 50 mm.
- Pull the foot out and turn by 90°.



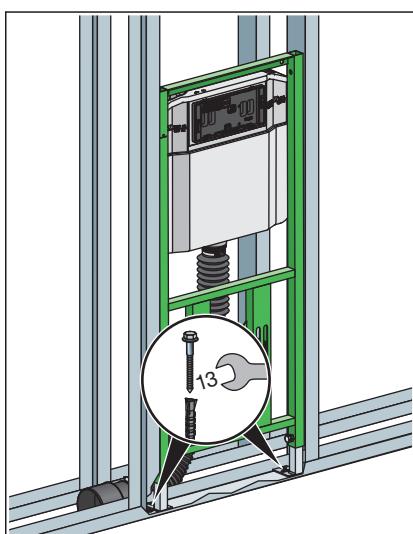
- Determine construction height in accordance with the on-site marking of the upper edge of the finished floor.
- Pull WC element up (cutting check) and align.
- Tighten feet with the fork spanner (size 17).



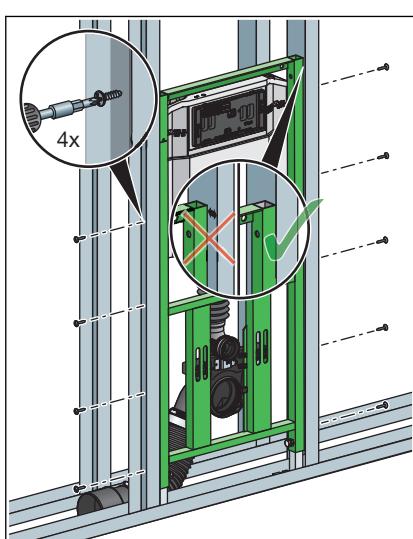
- Mark holes for floor supports.



► Drill holes.

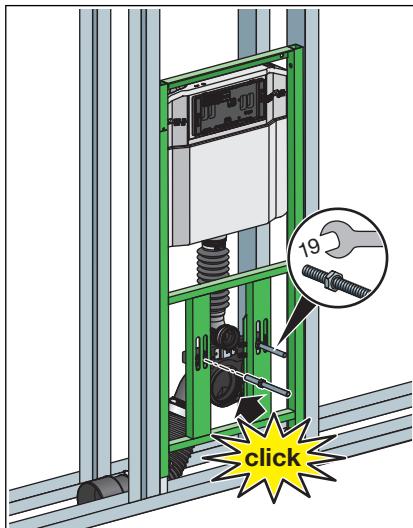


► Attach WC element to the floor using the fork spanner (size 13).



► Attach WC element to the support profiles using the screws supplied.

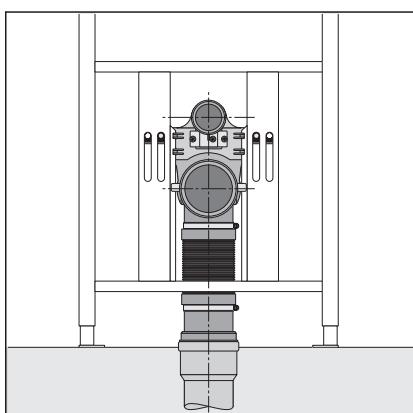
Connect the WC element flush with the support profiles.



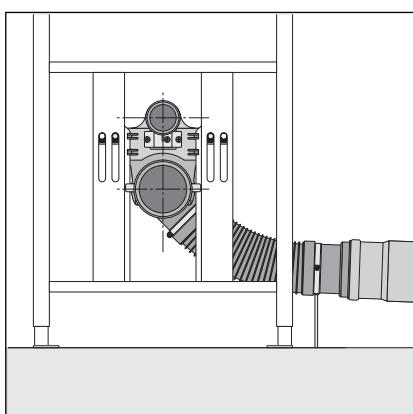
- ▶ Screw in the threaded rods for WC ceramic at 350 mm aligned with the finished floor.

INFO! Do not counter the threaded rods. All that needs to be done during subsequent height adjustment is to loosen the fixing nuts of the WC ceramic.

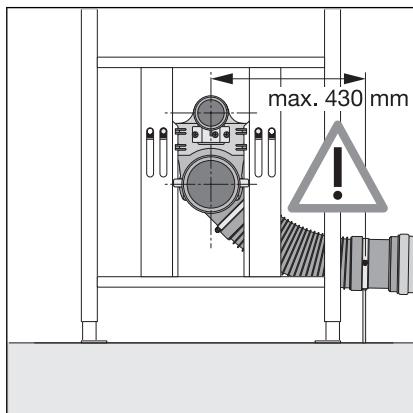
- ▶ Clip in drain elbow.



- ▶ Vertical connection: Do not lay the drain elbow in a concrete floor so that the flexibility of the connecting pipe is retained.

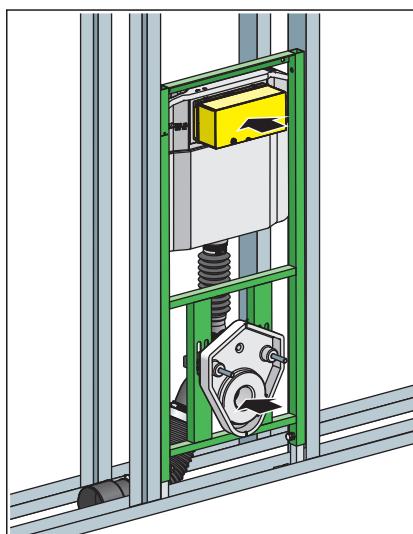


- ▶ Horizontal connection: secure the drain elbow directly next to the WC element on floor or wall with the screwing clamp.

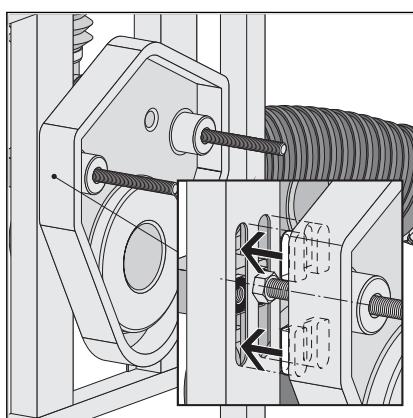


- ▶ Observe interval between the WC connection and screwing clamp, maximum 430 mm.

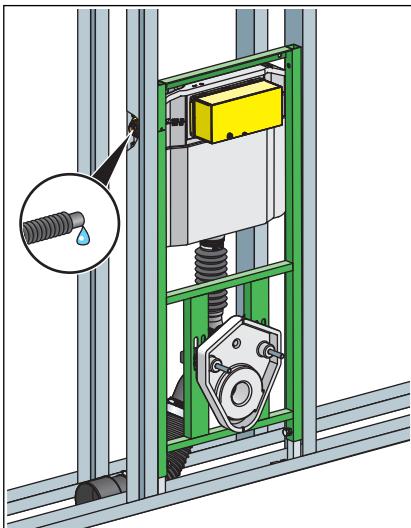
INFO! Do not lay the connection pipe with a reverse incline.



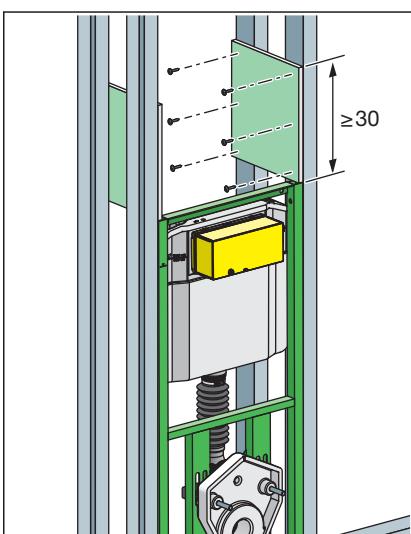
- ▶ Install site protection of the flush actuation.
- ▶ Push hard foam block over the threaded rods.



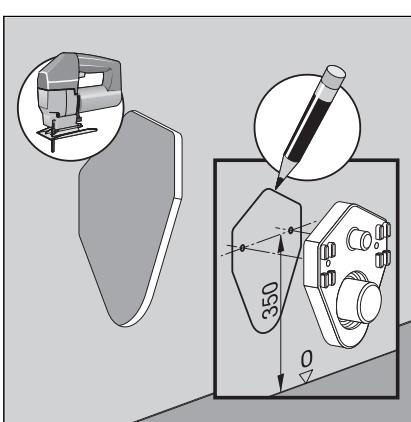
- ▶ When pushing on, place the four retaining points in the adjusting range of the WC fixing.



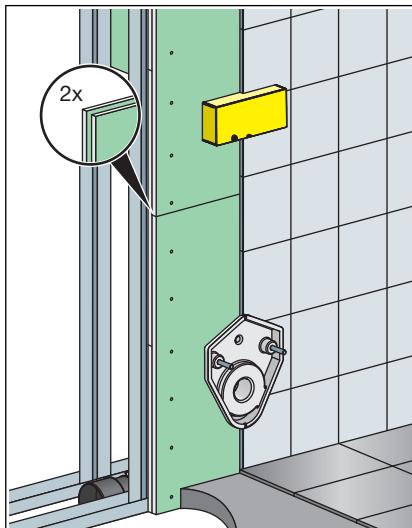
► Carry out water connection.



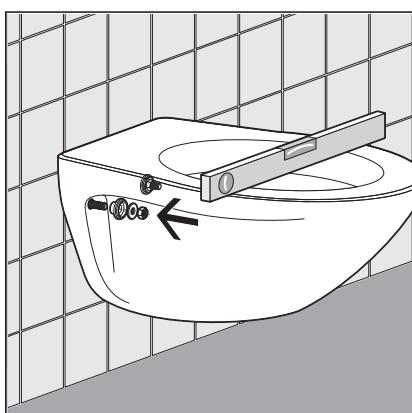
► Strap the support profiles with panel strips (≥ 30 cm).



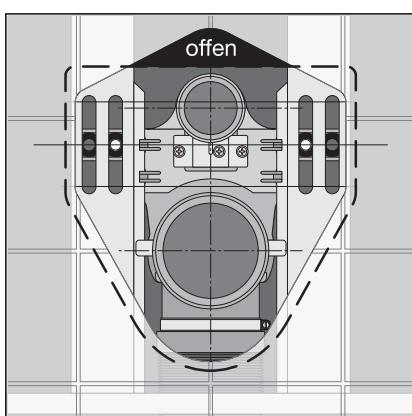
- Double-clad WC element with IFGP cladding panels (model 8055.10) (2 x 12.5 mm).
- Mark the contour of the hard foam block onto the IFGP panel.
- Remove hard foam block and cut out contour (finished floor to middle of threaded rods 350 mm).
- Re-position hard foam block.



► Tile WC element.



- Remove hard foam block.
- Mount WC connection fitting and push on WC ceramic.
- Align WC ceramic horizontally and secure using the fixing screws supplied.



► Check if the wall opening is fully covered by the WC ceramic. If not, use cover plate 8040.21, *„Optional accessories“ on page 9*.

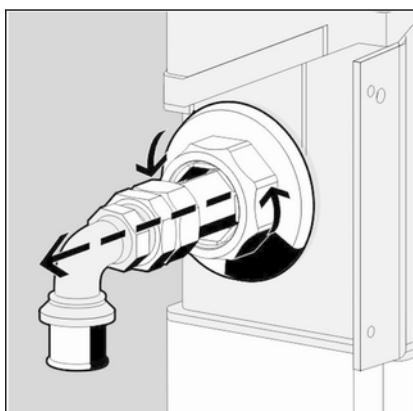
3.2.2 Connecting concealed cistern

Laterally extricable water connection

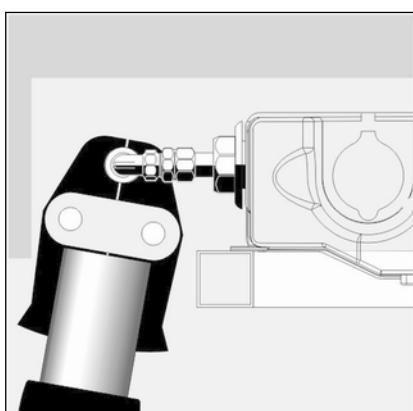
If there is not enough space when pressing the water connection, the water connection can be pulled out to the side.



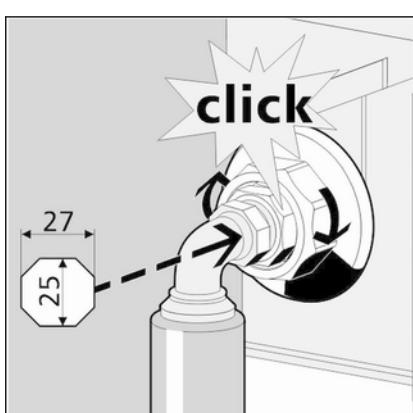
- Screw the $\frac{1}{2}$ inch connector into the wall lead-in.
Counter with a fork spanner (SW 27).



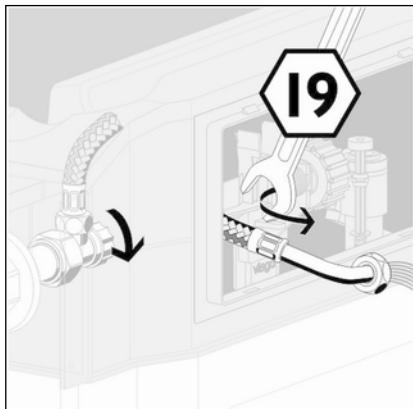
- Loosen plastic union nut.
- Pull out wall lead-in.



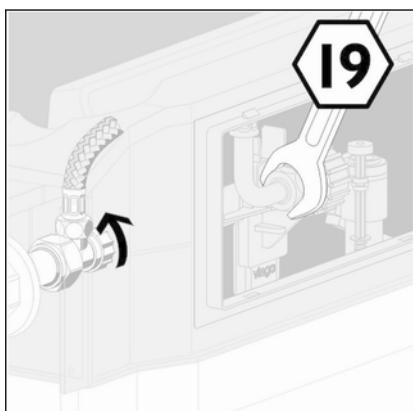
- Press connection.



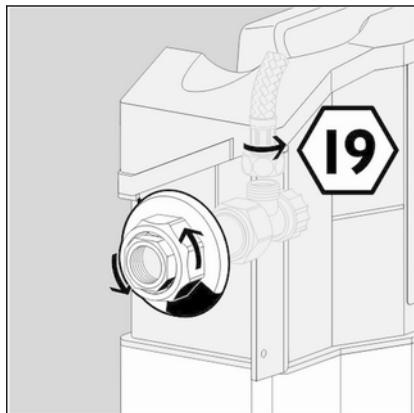
- Push wall lead-in back into the plastic clamp.
The position of the key surface (SW 25) must be up or down.
The clicking into the groove signals the correct position.
- Re-tighten the union nut.



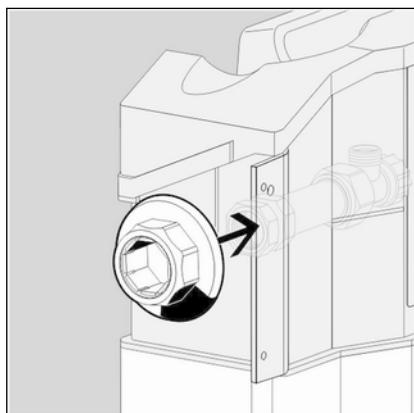
- Loosen (SW 19) flexible hose onto the filling valve.
- Open corner valve.
- Flush pipeline.



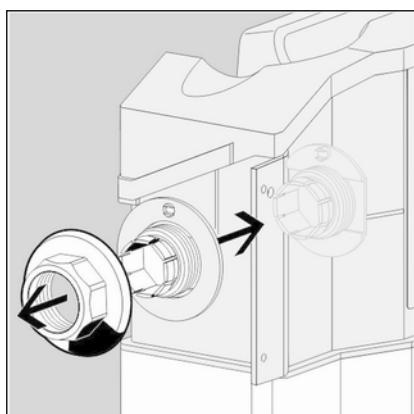
- Close corner valve.
- Re-mount (SW 19) the flexible hose onto the filling valve.

Conversion water connection upwards (optional)

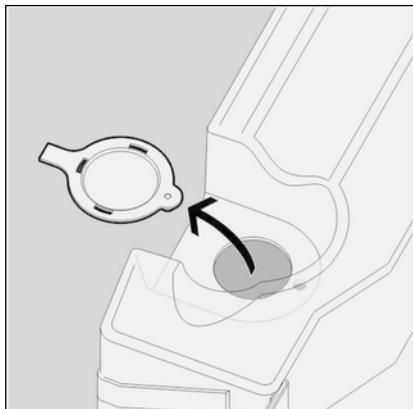
- Loosen (SW 19) flexible hose onto the corner valve.
- Unscrew plastic union nut.



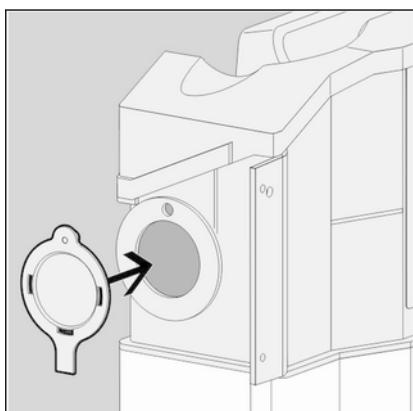
- Pull the corner valve inwards out of the wall lead-in.



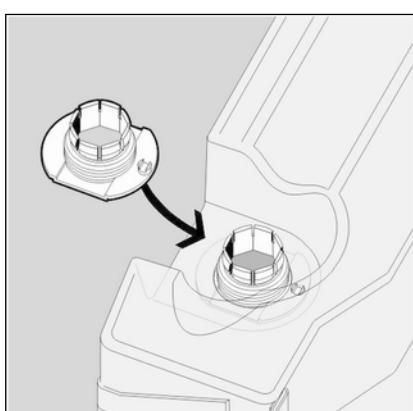
- Remove plastic union nut.
- Remove the wall lead-in inwards.



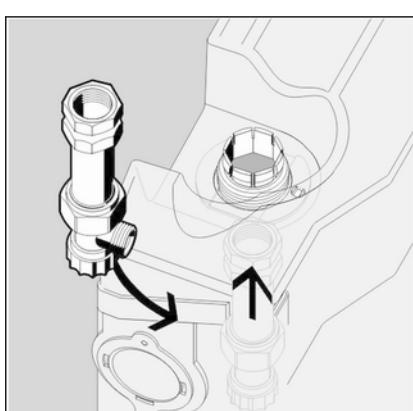
► Loosen the closing cap on the left-hand upper side of the concealed cistern.



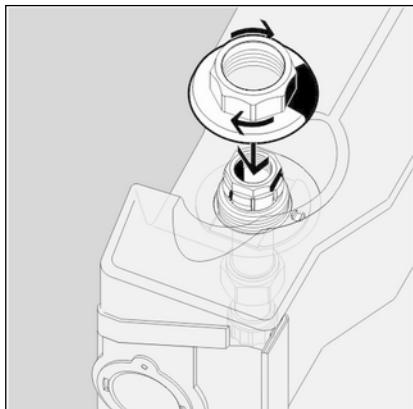
► Close opening on the side with the closing cap.



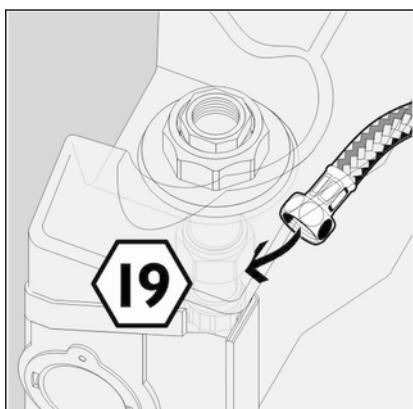
► Push wall lead-in from inside into the upper opening.



► 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 Preparing optional actuation versions

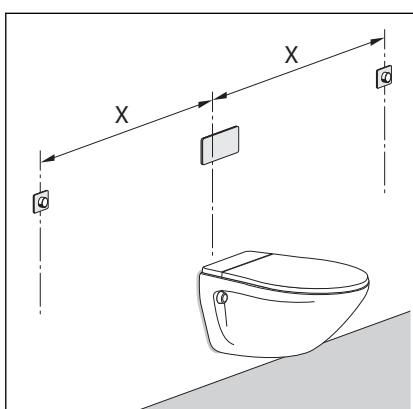
Prepare remote actuation

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.

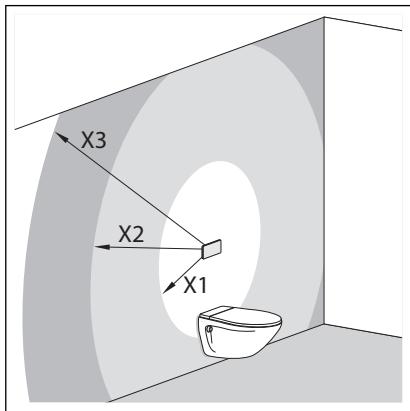
Distance from the remote actuation to the cistern (x)

- 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

3.2.4 Setting the flush volume

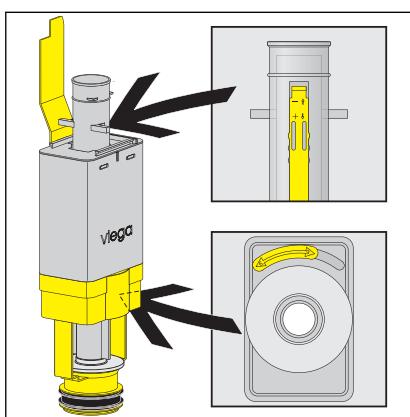


Immediate re-flushing of the flush volume is possible at the factory settings.

Small flush volume

The WC element is factory-set at a small flush of approx. 3 l. The small flush volume can be set continuously from approx. 3 l up to approx. 4 l.

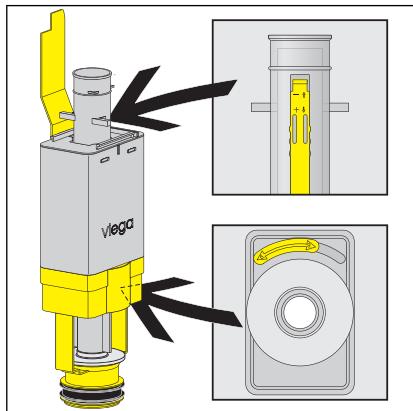
- ▶ Remove the drain valve from the concealed cistern.
- ▶ Push the slide control on the side of the overflow pipe to the desired small flush volume:
 - Top position: approx. 3 l
 - Bottom position: approx. 4 l



Large flush volume

The WC element is factory-set at a large flush volume of approx. 6 l. The large flush volume can be set continuously from approx. 6 l up to approx. 9 l.

- ▶ Remove the drain valve from the concealed cistern.

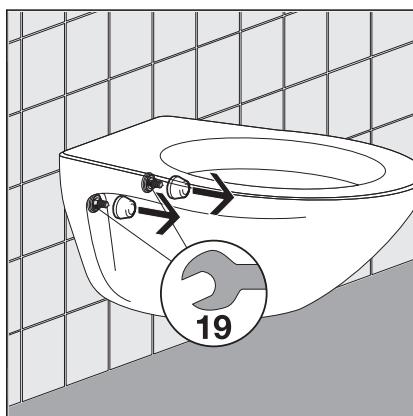


► Push the slide control below the drain valve to the desired large flush volume:

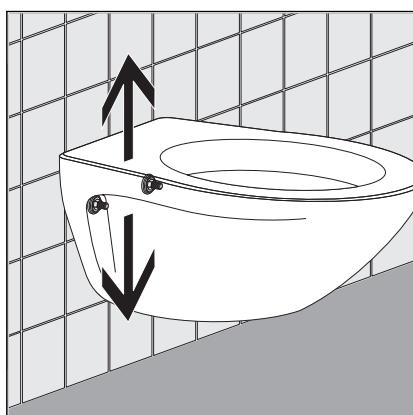
- left: approx. 6 l
- right: approx. 9 l

3.3 Use

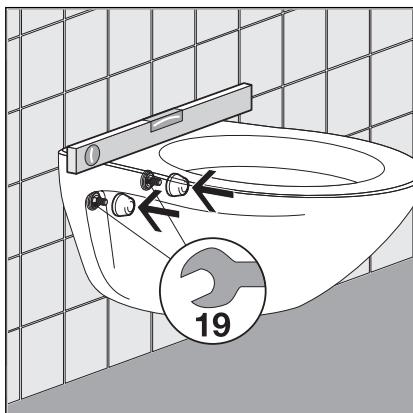
Adjusting WC height



► Loosen (do not remove) fixing screws with fork spanner (size 19).



► Adjust the WC ceramic's height.



► Align WC ceramic and re-tighten fixing screws.

3.4 Cleaning and maintenance

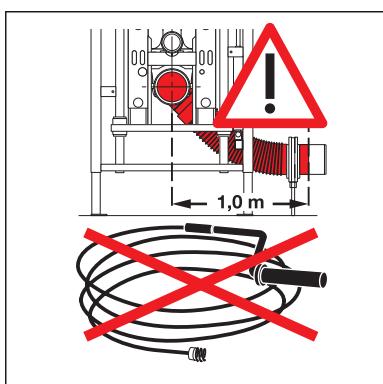
Cleaning

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.



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.