

# Viega Eco Plus WC element

## Instructions for Use



for flush plates Visign

**Model**  
8164.6

**Year built:**  
from 06/2007

en\_INT

**viega**



# Table of contents

<b>1</b>	<b>About these instructions for use</b>	<b>4</b>
1.1	Target groups	4
1.2	Labelling of notes	4
1.3	About this translated version	5
<b>2</b>	<b>Product information</b>	<b>6</b>
2.1	Standards and regulations	6
2.2	Intended use	6
2.2.1	Areas of use	6
2.3	Product description	7
2.3.1	Overview	7
2.3.2	Compatible components	7
2.3.3	Sound protection	9
2.3.4	Technical data	9
<b>3</b>	<b>Handling</b>	<b>10</b>
3.1	Assembly information	10
3.1.1	Mounting conditions	10
3.1.2	Installation dimensions	11
3.1.3	Required tools	11
3.2	Assembly	12
3.2.1	Connecting concealed cistern	12
3.2.2	Mounting WC element	14
3.2.3	Setting the flush volume	19
3.3	Cleaning and maintenance	20
3.4	Disposal	20

# 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

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.

**DANGER!**

This symbol warns against possible life-threatening injury.

**WARNING!**

This symbol warns against possible serious injury.

**CAUTION!**

This symbol warns against possible injury.

**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.

## 2.3 Product description

### 2.3.1 Overview

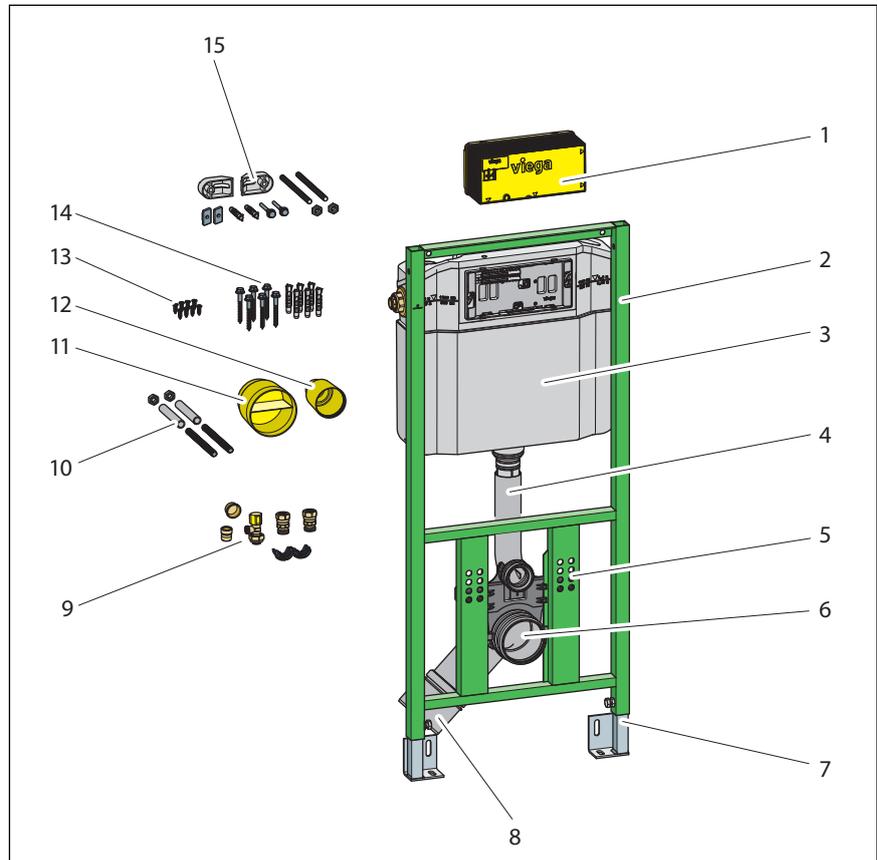


Fig. 1: Scope of delivery

- 1 - flush actuation site protection
- 2 - Viega Eco Plus WC element
- 3 - Viega concealed cistern 2H
- 4 - flushing pipe
- 5 - Four fixing heights for the WC ceramic: 330 mm / 350 mm / 370 mm / 390 mm
- 6 - drain
- 7 - adjustable feet
- 8 - drain elbow with reducer
- 9 - cistern lead-in
- 10 - threaded rods for fixing sanitary objects (gauges for bore hole 180 or 230 mm)
- 11 - protective plug for drain
- 12 - protective plug for flushing pipe
- 13 - screws for fixing onto support profile
- 14 - fixing material for floor fixing
- 15 - fixing set

### 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 and 8169.2)
- odour extraction via flushing pipe (model 8310.26)
- connection installation set (model 8350.14)

Mount the components in accordance with the instructions for use of the components.

### 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

Product	Name	Model
	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
	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

# 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 can be between 130 mm and 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), as well as by sensitive flush plates (model 8352.21, 8352.11 and 8355.11). 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

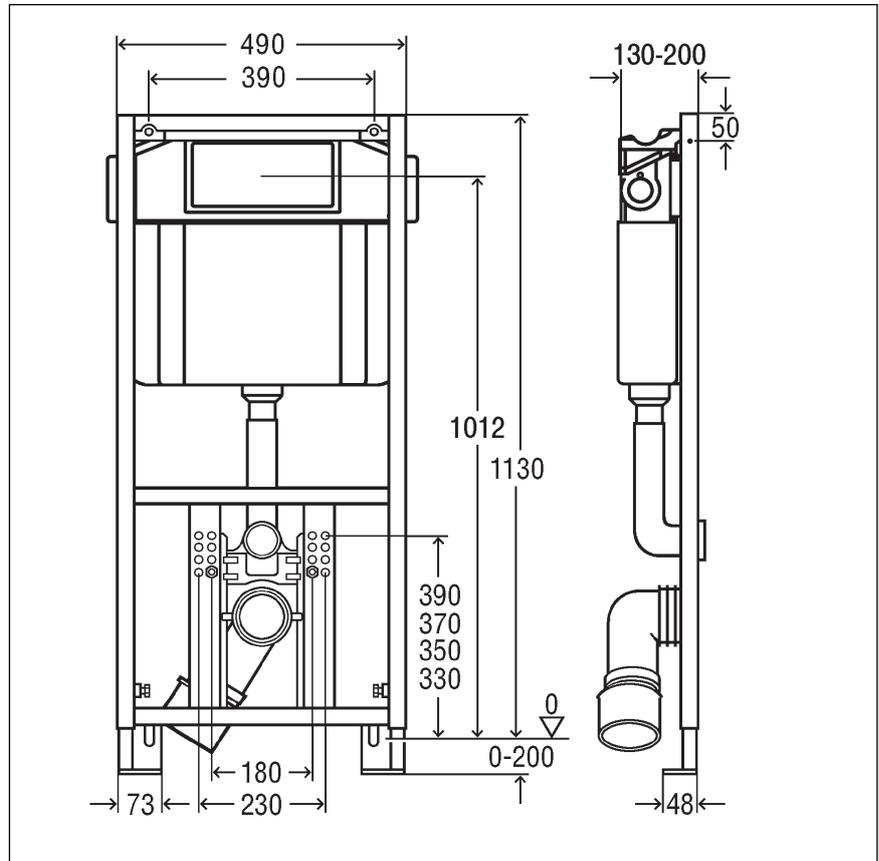


Fig. 2: Viega Eco Plus WC element 8164.6 dimensions

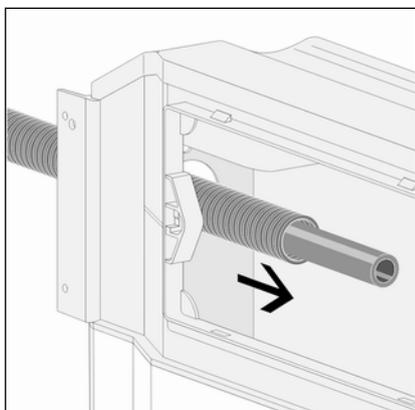
### 3.1.3 Required tools

The following tools are required for mounting the WC element:

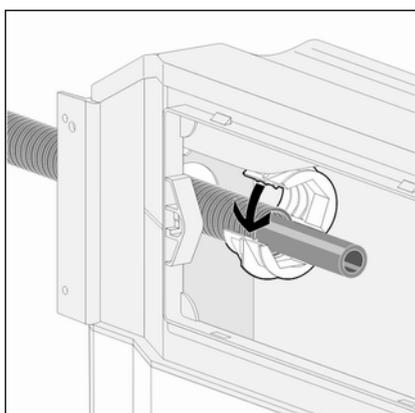
- drill with 10 mm drill bit
- ratchet with sockets: 13 mm / 17 mm
- fork or ring spanner: 27 mm

## 3.2 Assembly

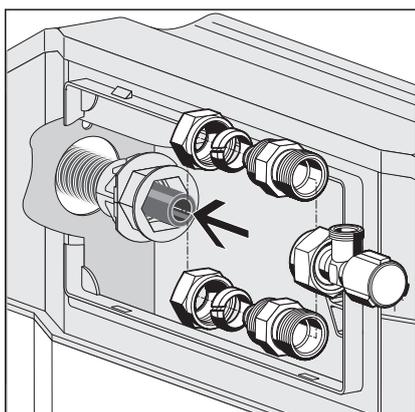
### 3.2.1 Connecting concealed cistern



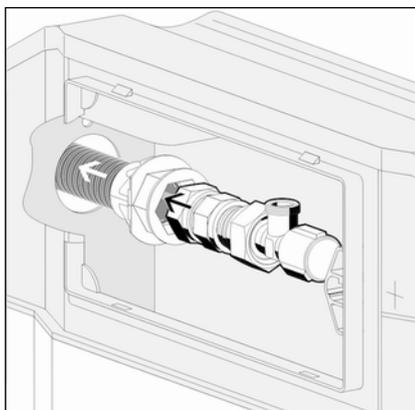
- Pull the water supply pipe with the protective pipe into the cistern through the hole on the left.



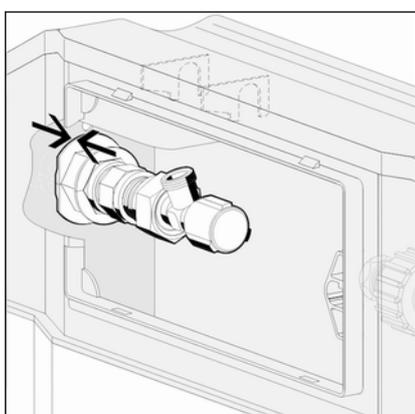
- Insert the cistern lead-in around the water supply pipe. Insert the protective pipe into the cistern lead-in only up to the middle of the pipe.
- Compress the cistern lead-in.



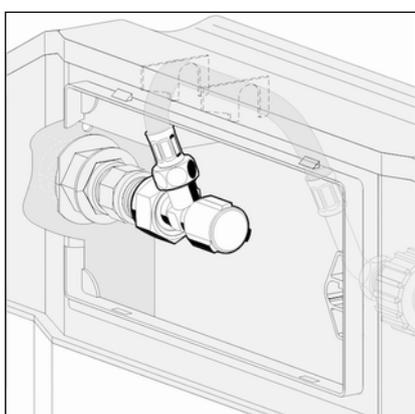
- Mount the matching screw fitting for the respective pipe system.
- Screw the corner valve tight.



- Push the cistern lead-in with the mounted Viega corner valve into the cistern wall.



- Insert the Viega screw fitting comprised in the delivery into the cistern lead-in.



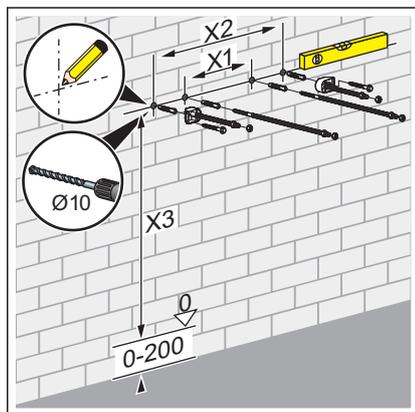
- Guide the filling hose through the lugs in the top of the cistern.
- Mount the filling valve hose to the corner valve.



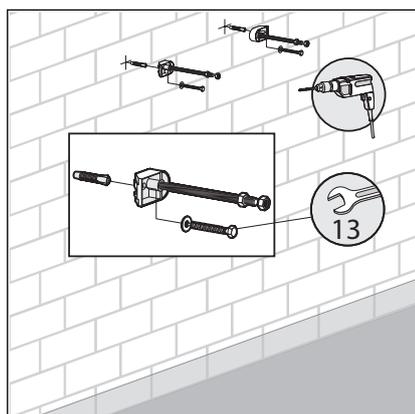
*Before commissioning the cistern, flush the water supply pipe.*

### 3.2.2 Mounting WC element

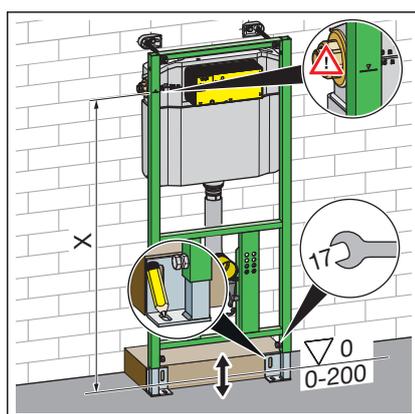
#### Masonry wall



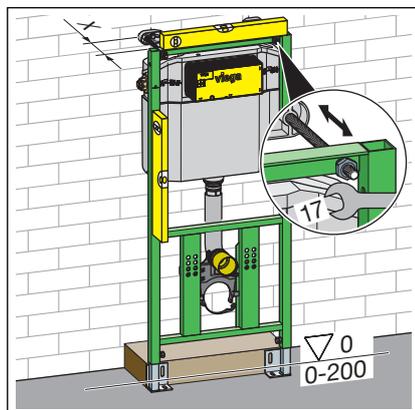
- Determine and mark fixing points.
  - X1: 390 mm (model 8180.73)
  - X2: 440 mm (model 8173)
  - X3: At a construction height of 1130 mm, the size is 1110 mm.
- Drill holes.



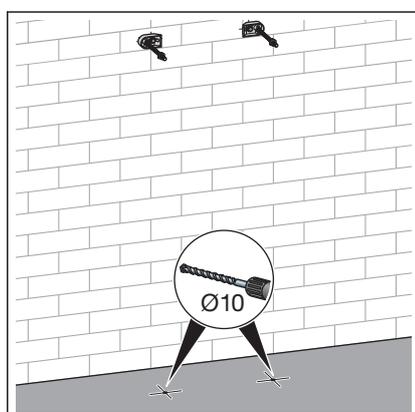
- Fill drill holes and dowels with silicone.
- Mount the fixing set with the fork spanner (size 13).



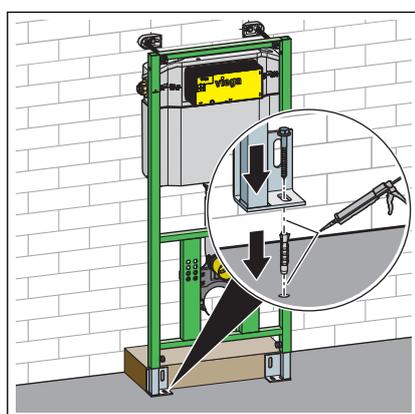
- Align the height of the feet.
- Check WC element on cutting check.
- Mark fixing points on the floor.



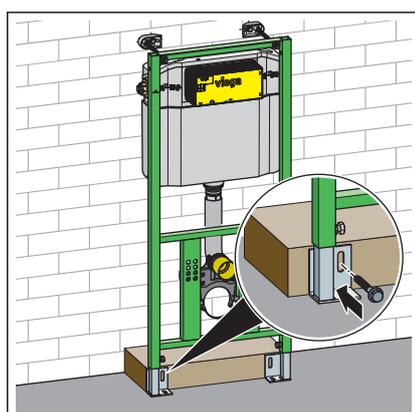
- Align WC element.
- Set the installation depth of the pre-wall element (130–200 mm) with the fork spanner (size 17).



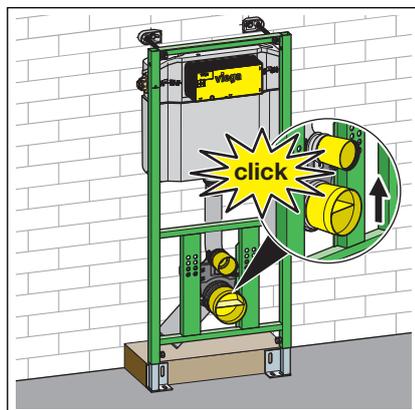
- Remove WC element and drill floor holes.



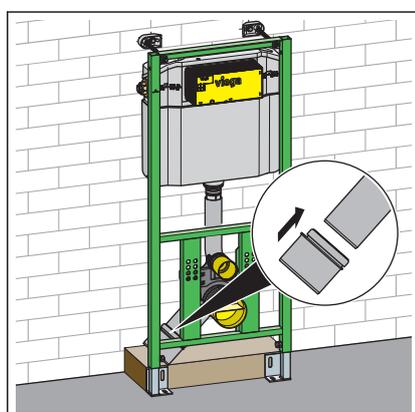
- Fill drill holes with silicone.
- Insert dowels.
- Fill dowels with silicone.
- Attach the element.



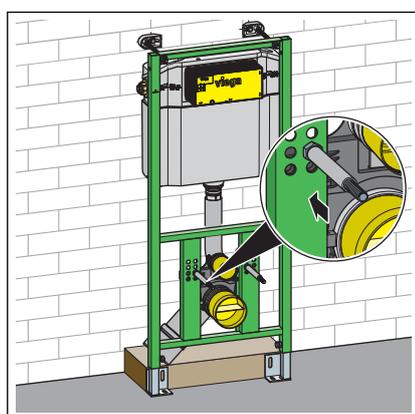
- Optionally, screw feet onto wooden beams.



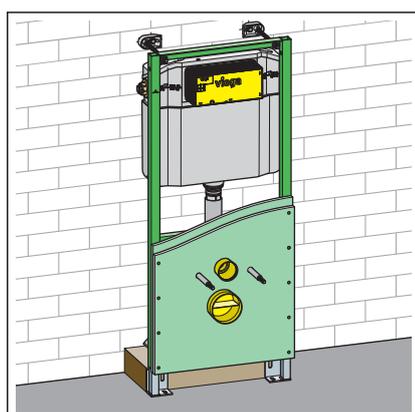
- Clip in drain elbow.
- Insert protective plug.



- If necessary, mount a reducer.

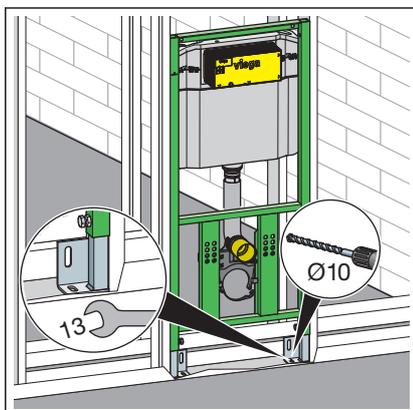


- Screw in the threaded rods for WC ceramic to the desired height.
- Pull the plastic protective sleeves for the threaded rods over the WC ceramic.

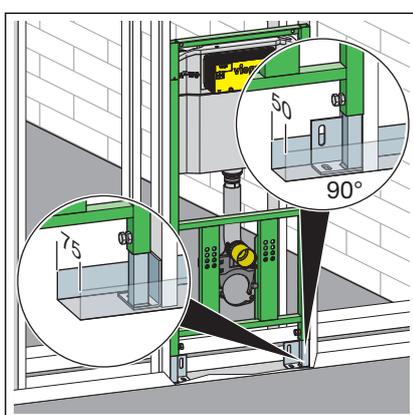


- Double-clad WC element with IFGP cladding panels (model 8055.10) (2 x 12.5 mm).

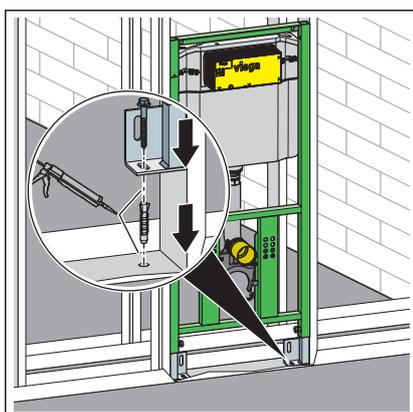
## On-site support profile



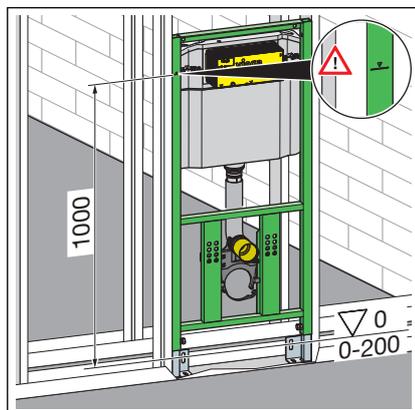
- Align WC element and secure the height of the feet with a fork spanner (size 13).
- Determine the fixing points.
- Drill holes.



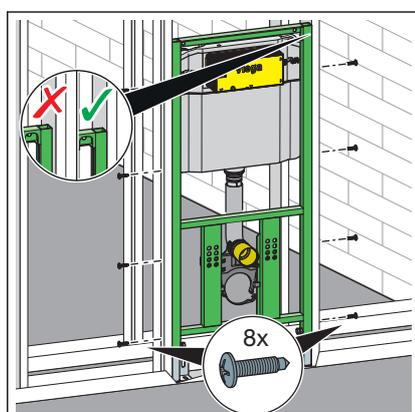
- Pull out the foot and if necessary, adjust (pre-mounted) foot depth from 75 mm to 50 mm.



- Fill drill holes with silicone.
- Insert dowels.
- Fill dowels with silicone.
- Attach the element.



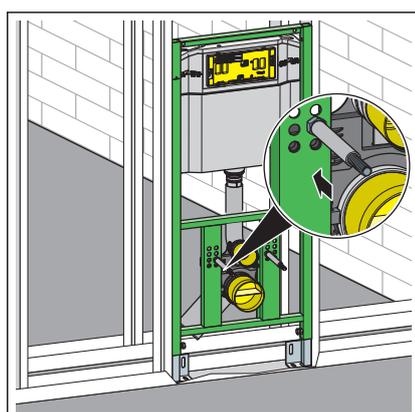
- Determine construction height in accordance with the on-site marking of the upper edge of the finished floor.



- Attach WC element to the support profiles.



- Clip in drain elbow.
- Insert protective plug.



- Screw in the threaded rods for WC ceramic to the desired height.



- Double-clad WC element with IFGP cladding panels (model 8055.10) (2 x 12.5 mm).

### 3.2.3 Setting the flush volume



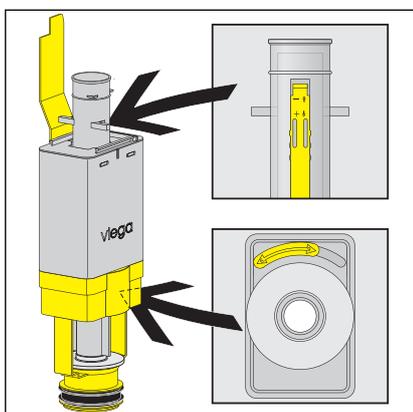
*Immediate re-flushing of the flush volume is possible at the factory settings.*

#### Small flush volume

The WC element is factory-set at a small flush of approx. 3 l. The small flush volume can be set at three levels: approx. 3 l / 3.5 l / 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
  - Middle position: approx. 3.5 l
  - Bottom position: approx. 4 l

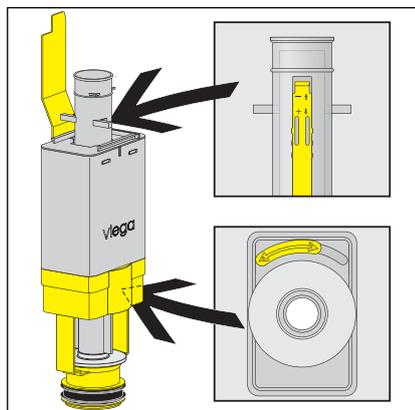
The positions can be identified by the notches.



#### 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 Cleaning and maintenance

#### 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.

### 3.4 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.