

Advantix shower channel, base unit

Instructions for Use



for bonded sealing (tiled shower) with sealing mat

Model
4960.80

Year built:
from 01/2006

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
- Tilers
- Consumers

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.

Regulations from section: Sealing

Scope / Notice	Regulations applicable in Germany
Stress class of the underground, as well as suitable bonded sealing	ZDB-Merkblatt 8/2012
Stress class of the underground, as well as suitable bonded sealing	Leitfaden zur Abdichtung im Verbund (AlV)
Approved bonded sealings with proof of practicability in keeping with building law for stress classes A and AO	ETAG 022 T1
Approved bonded sealings with proof of practicability in keeping with building law for stress classes A, B and C	DIBt-Bauregelliste A, Teil 2 des DIBt und Prüfgrundsätze für Abdichtungen im Verbund (PG AlV-F)
Permitted bonded sealings	EN 14891

Regulations from section: Media

Scope / Notice	Regulations applicable in Germany
Typical domestic wastewater	DIN 1986-3

Regulations from section: Sound protection

Scope / Notice	Regulations applicable in Germany
Fulfilled noise protection requirements	DIN 4109
Fulfilled noise protection requirements	VDI 4100

Regulations from section: Important notes

Scope / Notice	Regulations applicable in Germany
Dimensions of slots and recesses	EN 1996

2.2 Intended use**2.2.1 Areas of use**

The shower channel is used in the bathroom as a drain for a floor-level shower. It is designed for small to medium volumes of water, which occur in e. g. residential building.

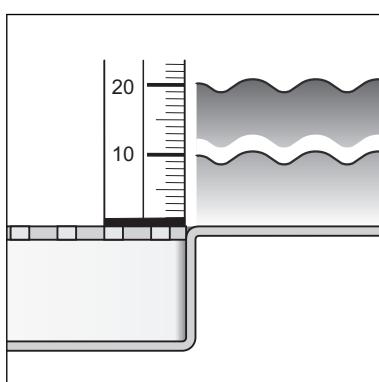
Technical information, see  *Chapter 2.3.2 „Technical data“ on page 9.*

2.2.2 Media

The shower channel is intended for draining of household-type wastewater in constant operation, see  „Regulations from section: Media“ on page 6.

- The short-term temperature of the wastewater may reach up to 95° C. The temperature must be considerably lower in constant operation.
- The pH value must be higher than 4 but lower than 10.

It is not permitted to introduce wastewater which would damage the product material.

2.2.3 Drainage capacity

The drainage capacity is dependent on the chosen installation height. The installation height is the distance from the drain to the flange.

Drainage capacity at an accumulation height of 10 mm above the grate: 0.65–0.85 l/s

Drainage capacity at an accumulation height of 20 mm above the grate: 0.8–1.0 l/s

2.3 Product description

2.3.1 Overview

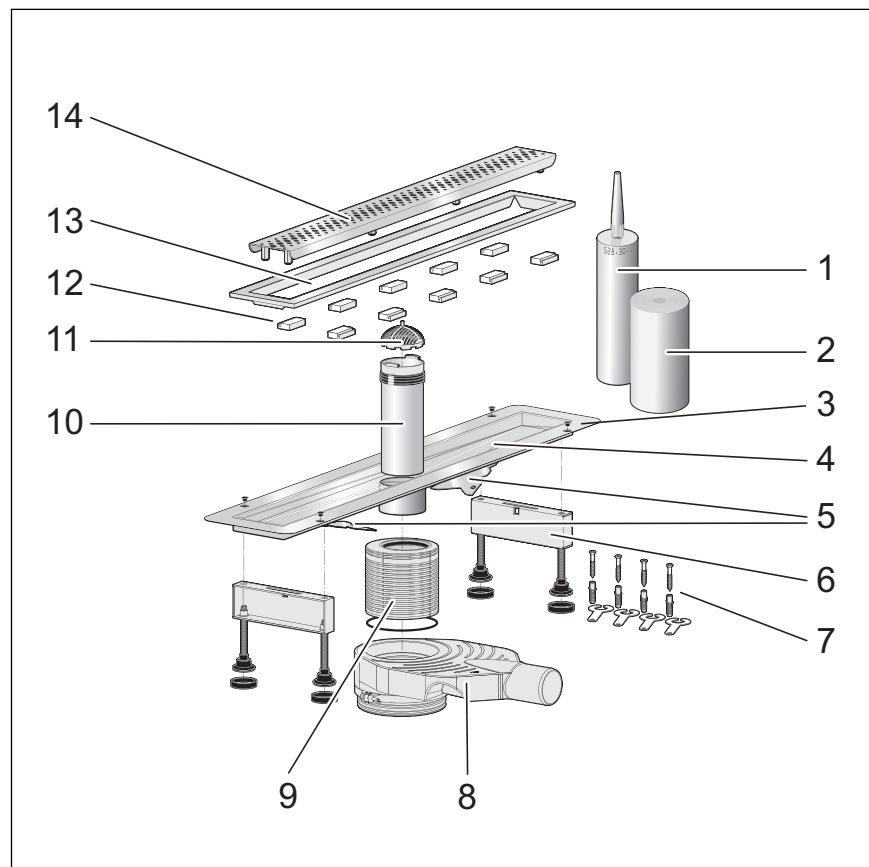


Fig. 1: Components and scope of delivery

- 1 - mounting adhesive
- 2 - sealing tape
- 3 - drain flange
- 4 - shower channel
- 5 - mortar anchor with connection for potential equalisation
- 6 - feet, height-adjustable
- 7 - fixing material for the feet
- 8 - odour trap, adjustable in two stages
- 9 - height adjustment piece, can be cut to length
- 10 - immersion pipe, removable
- 11 - sieve
- 12 - spacer
- 13 - height- and lateral adjustable grate frame
- 14 - grate*, height-adjustable

* Not included in scope of delivery

2.3.2 Technical data

Nominal width [DN]	50
Material	Stainless steel 1.4301
Drainage capacity	↳ <i>Chapter 2.2.3 „Drainage capacity“ on page 7</i>
Dimensions and installation height	↳ <i>Chapter 3.1.2 „Installation dimensions“ on page 12</i>
Water seal level	90–99 mm installation height: 35 mm 100–109 mm installation height: 40 mm 110–190 mm installation height: 50 mm
Load class	K = 300 kg

2.3.3 Sound protection

The measured sound level during water drainage is 19 dB(A). For information on sound protection requirements met, see ↳ *„Regulations from section: Sound protection“ on page 6*.

2.4 Information for use

2.4.1 Sealing

Bonded sealing

To protect against moisture penetration, apply sealing foils, which are to be processed in liquid state, directly below the tiles on screed and walls. The determination of the stress class and the underground as well as the selection of the suitable bonded sealing must be carried out in compliance with the valid standards and regulations, see: ↳ *„Regulations from section: Sealing“ on page 6*.

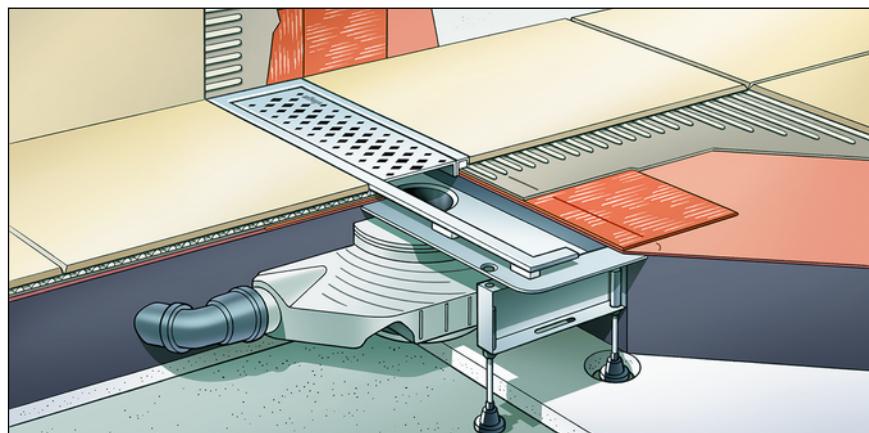


Fig. 2: Diagram of a bonded seal

Important note

Careful planning is required for professional sealing. In addition, depending on the individual dampness wear class and the type of foundation, a suitable BS system with a building regulations certificate of suitability must be chosen.

Furthermore, the following factors should be taken into account:

- Drain or shower channel must be equipped with a special flange, which has an adhesive surface and a width of at least 30 mm.
- For bridging the material change from drain to screed, either a suitable sealing collar or sealing tape designed for overlapping with the BS over a width of at least 50 mm must be used.
- The screed must be laid at a minimum incline of 1–2 %.
- The installation must be carried out properly in acc. with the mounting instructions and the manufacturer's information.

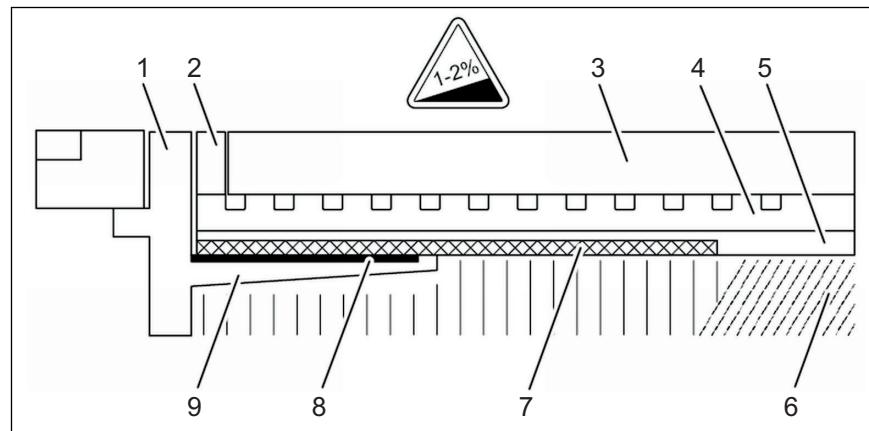


Fig. 3: Construction diagram of the bonded seal - min. screed incline 1–2 %

- 1 - Grate
- 2 - Top piece with adhesive flange
- 3 - Tile
- 4 - Tile cement
- 5 - Bonded sealing
- 6 - Screed
- 7 - Sealing collar
- 8 - Mat
- 9 - Adhesive flange

Permitted bonded seals

In connection with suitable drains, only approved bonded sealings with proof of practicability in keeping with building law may be used. See  „Regulations from section: Sealing“ on page 6.

Information regarding the procedure can be found in the instructions for use of the corresponding product.

2.4.2 Fire protection

Advantix shower channels and drains can both be fitted to be fire proof. The R120 pipe lead-in can be used for this purpose in the floor construction. In this way, a fire resistance time of up to 120 minutes can be achieved.

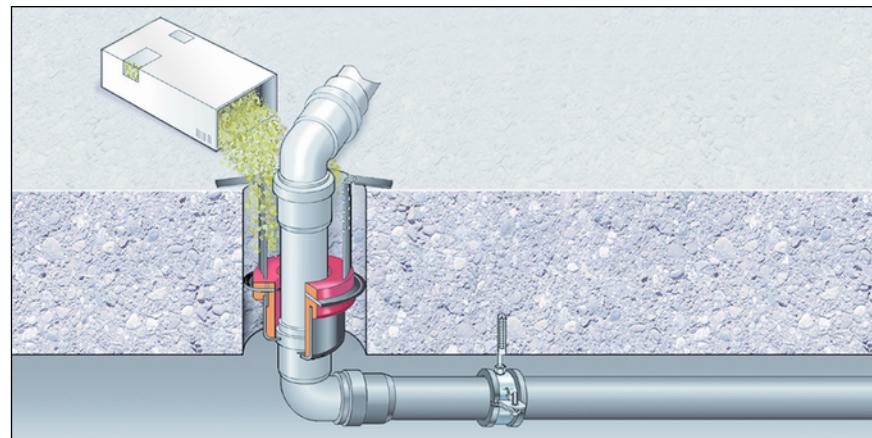
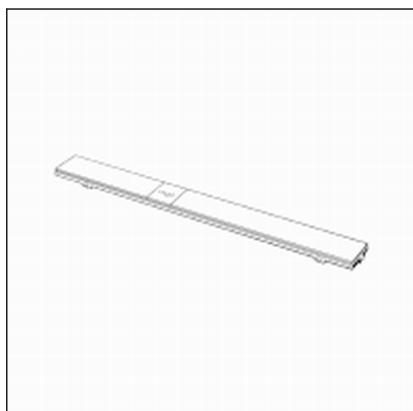


Fig. 4: Example: fire protection pipe lead-in

Mounting instruction of the R120 pipe lead-in see model 4923.5, Art.-No. 491 673.

2.5 Required accessories



The grate is not included in the scope of delivery and can be ordered separately (see catalogue).

3 Handling

3.1 Assembly information

3.1.1 Important note

Before assembly:

- Check if the drainage capacity of the model chosen is sufficient for the arising water volume  *Chapter 2.2.3 „Drainage capacity“ on page 7.*
- An adequate level of floor covering stability must be guaranteed  *Chapter 2.3.2 „Technical data“ on page 9.* This can be achieved either through an adequate covering of screed or another alternative solution. Relevant measures must be considered before mounting.
- The dimensions of slots and recesses must be in compliance with the regulations from section  *„Regulations from section: Important notes“ on page 7.*

During assembly:

- Observe installation dimensions.
- Do not use mounting adhesive older than 18 months.
- Position the shower channel in such a way that the grate is removable.

After assembly:

- The shower channel must be fully lined with mortar.
- The sealing accessories should be given to the person responsible for the bonded sealing (e. g. tiler).
- Coordinate all relevant installation details, especially regarding the bonded sealing, with those responsible for the subsequent work.

3.1.2 Installation dimensions

When fitting a shower channel in a niche, to be able to remove the grate and to avoid a strip of tiles next to the channel, the correct size of niche is of importance.

- Dimension A = Channel length
- Dimension B = Minimum width of the niche from plaster inside edge to plaster inside edge
- Dimension C = Minimum width of the niche from tile inside edge to tile inside edge

Dimension "B" is important so that the flange does not need to be mortised and the sealing on the flange and wall can be completed properly.

Dimension "C" is important so that the grate remains removable.

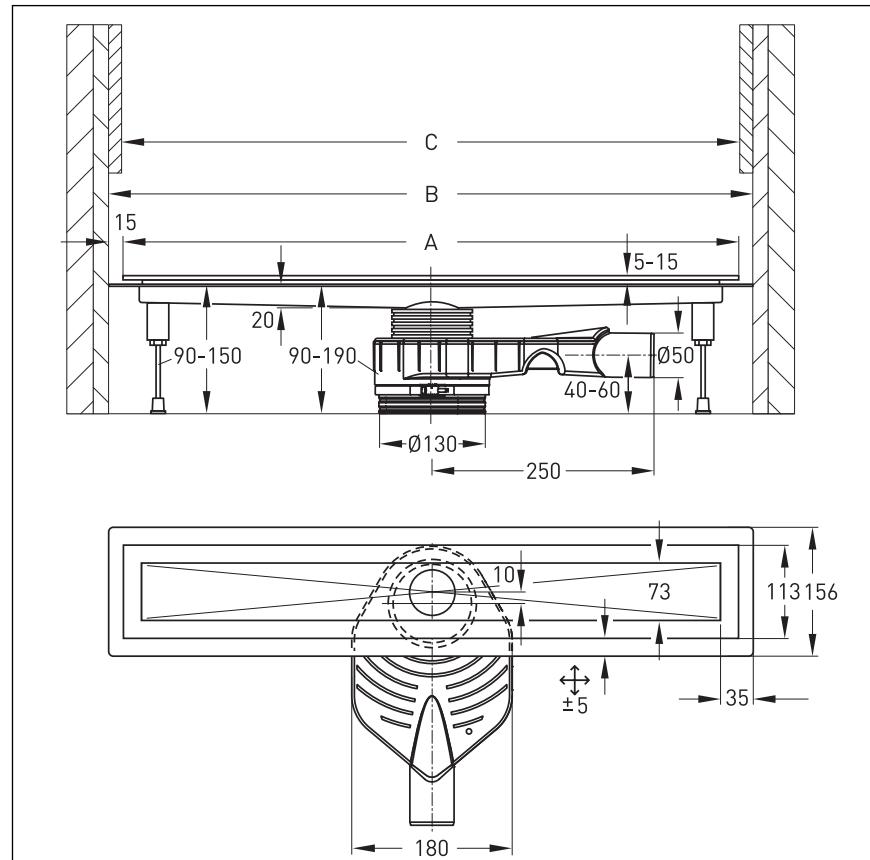


Fig. 5: Niche dimensions

Art. no.	A	B	C	Standard dimension of shower door
571 160	750	795	720	750
619 541				
571 177	800	845	770	800
619 756				
571 184	900	945	870	900
619 763				
571 191	1000	1045	970	1000
619 770				
571 207	1200	1245	1170	1200
619 787				

3.1.3 Tools and materials

Special tools

- Spanner size 8 for mounting grate
- Drill, 6 mm
- Tool for the removal of the grate (e. g. model 4965.90, art. no. 689 704)

Mounting adhesive

Mounting adhesive can be used for a maximum of 18 months.

The filling date is found on the top edge of the cartridge. The first two numbers represent the month, the following number the year.

Example

085...

Filling date = August (08) 2015 (5)

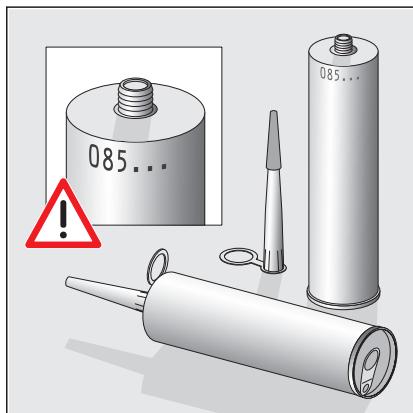
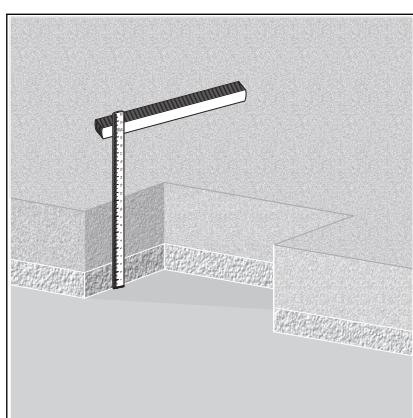


Fig. 6: Filling date of the mounting adhesive

3.2 Assembly

3.2.1 Determine height

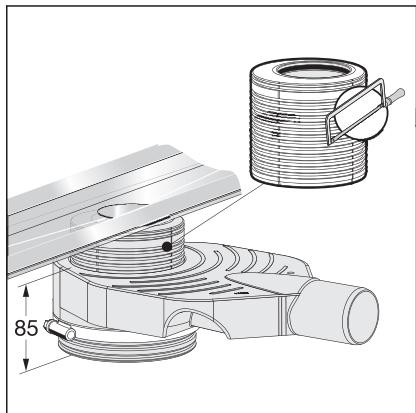


► Determine screed height.

There are three different installation heights:

- 110–190 mm ↗ „*Installation height 110–190 mm*“ on page 15
- 100–109 mm ↗ „*Installation height 100–109 mm*“ on page 16
- 90–99 mm ↗ „*Installation height 90–99 mm*“ on page 17

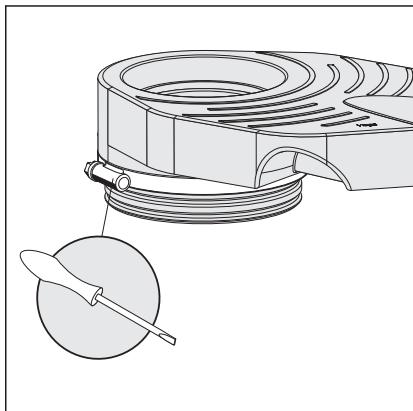
In its delivery condition, the height of the base unit is 190 mm.

Installation height 110–190 mm

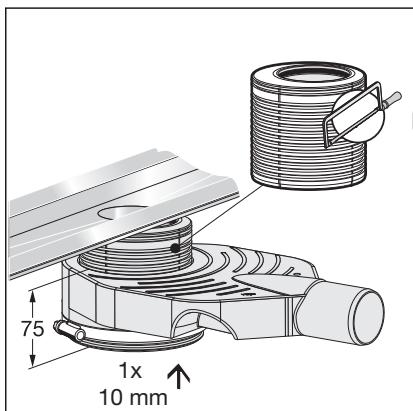
► Shorten height adjustment piece accordingly.

The water seal level remains 50 mm.

Further:  *Chapter 3.2.2 „Mount base unit“ on page 19.*

Installation height 100–109 mm

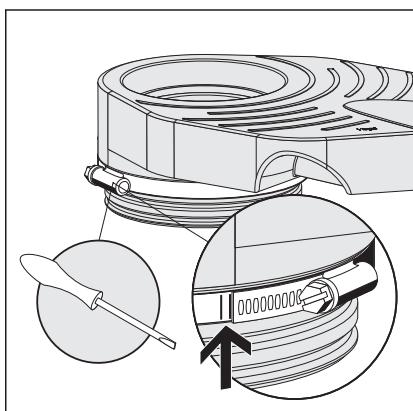
► Loosen fastening ring with screwdriver.



► Push the floor piece in by one ring (1 x 10 mm).

The fine tuning within these dimensions takes place using the height adjustment piece.

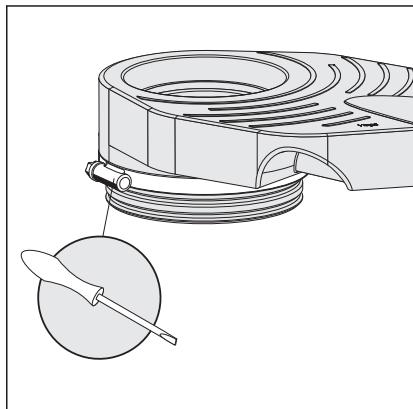
The water seal level reduces to 40 mm.



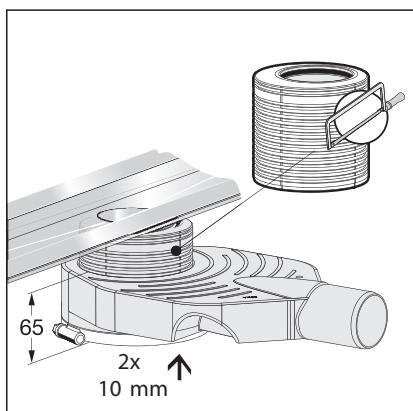
► Fit the mounting ring and tighten to a maximum $2.5 \text{ Nm} \pm 0.2 \text{ Nm}$ using a screwdriver.

► Alternatively, the screw can be tightened until the markings on the mounting ring match up.

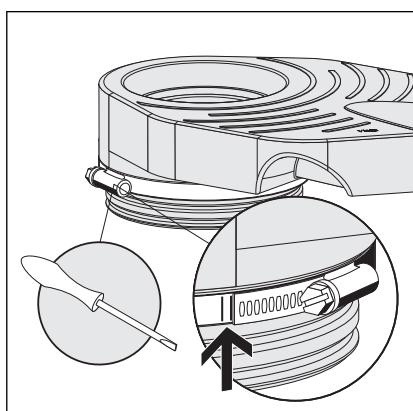
Further:  *Chapter 3.2.2 „Mount base unit“ on page 19.*

Installation height 90–99 mm

- ▶ Loosen fastening ring with screwdriver.

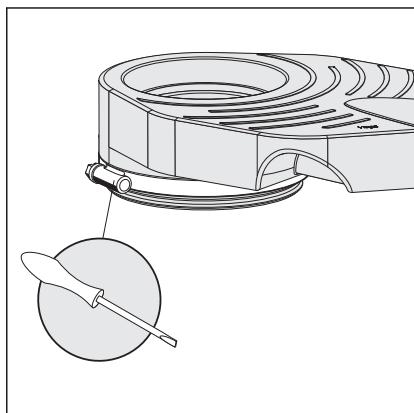


- ▶ Push in the floor piece around 2 rings (2 x 10 mm).
The fine tuning within these dimensions takes place using the height adjustment piece.
The water seal level reduces to 35 mm.

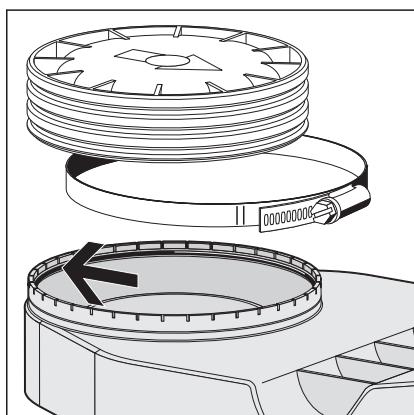


- ▶ Fit the mounting ring and tighten to a maximum $2.5 \text{ Nm} \pm 0.2 \text{ Nm}$ using a screwdriver.
- ▶ Alternatively, the screw can be tightened until the markings on the mounting ring match up.

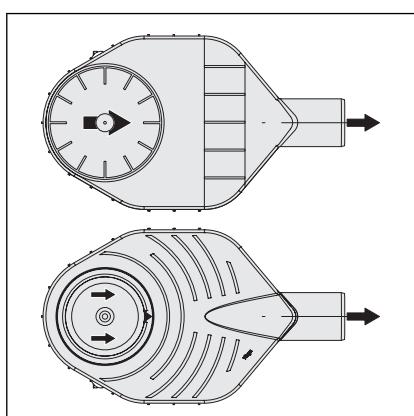
Further:  *Chapter 3.2.2 „Mount base unit“ on page 19*

Correct height adjustment

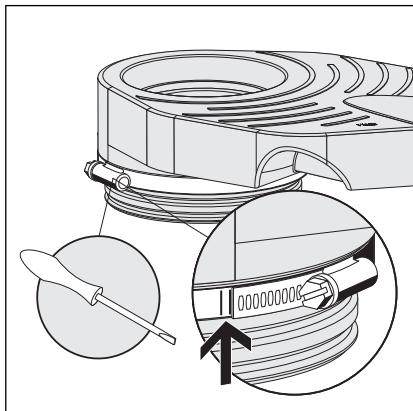
- Loosen fastening ring with screwdriver.



- Remove the floor piece or push it into the drain.
- Remove the floor piece.
- Lay the greased O-Ring into the casing (see arrow).

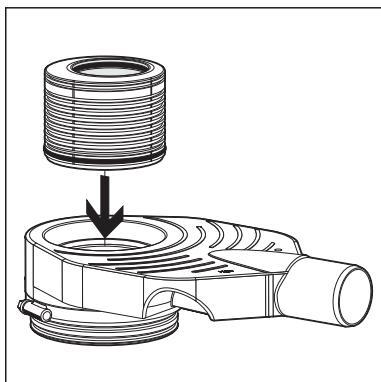


- Push the floor piece straight into the required position in the drain.
- The arrow on the base of the odour trap must be pointed towards the drain.

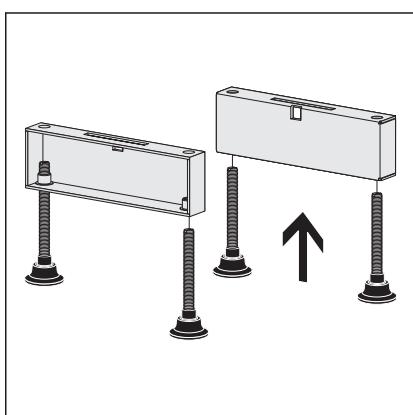


- Fit the mounting ring and tighten to a maximum $2.5 \text{ Nm} \pm 0.2 \text{ Nm}$ using a screwdriver.
- Alternatively, the screw can be tightened until the markings on the mounting ring match up.

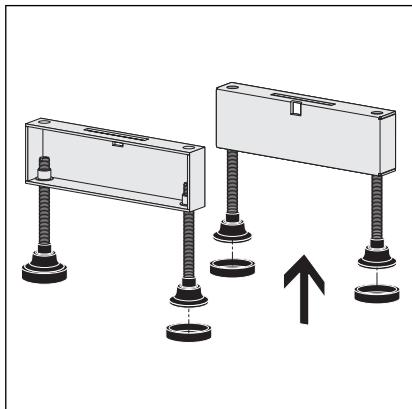
3.2.2 Mount base unit



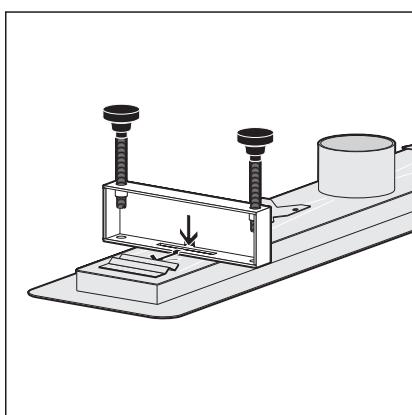
- Insert height adjustment piece with O-ring.



- Screw the height adjustment into the foot.

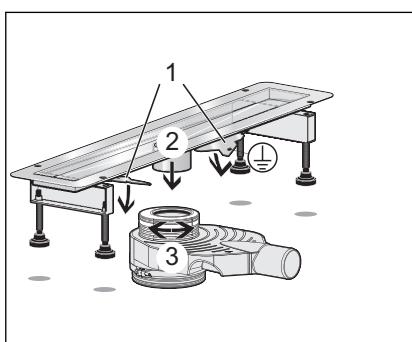


► Insert rubber caps.



► Push feet into the retaining brackets.

3.2.3 Align shower channel

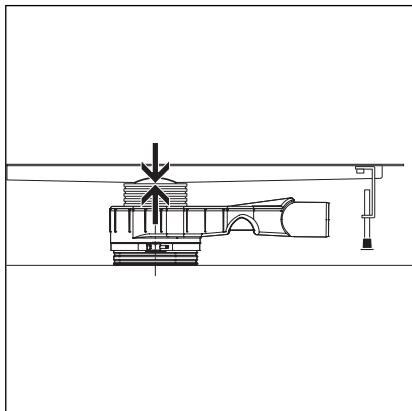


► Bend open the mortar anchor (1).

► Press the drain support into the height adjustment piece as far as it will go (2).

► Correct drain position, if necessary. Turn the height adjustment piece to do so (3).

If required, earth the shower channel in accordance with the local national electrical regulations.



- ▶ Check whether the shower channel is inserted into the height adjustment piece as far as it will go.

3.2.4 Connect shower channel

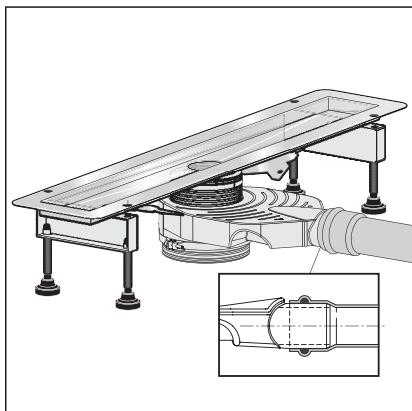
The connection to the wastewater system must be completed before the drain can be installed in the floor construction.

Requirements:

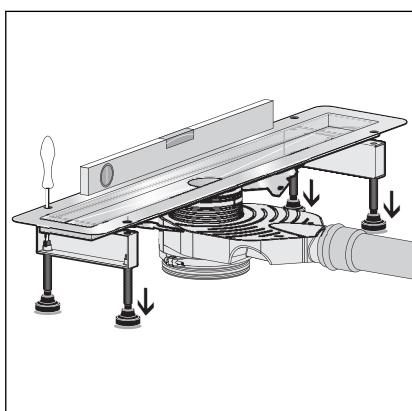
- A pipe to the planned drainage position is already in place for the connection to the wastewater system.
- The drainpipe has an internal profile seal.

Proceed as follows:

- ▶ Insert the drain socket into the drainpipe as far as it will go.



Fine tuning



- ▶ Break through the protective foil around the drill hole.

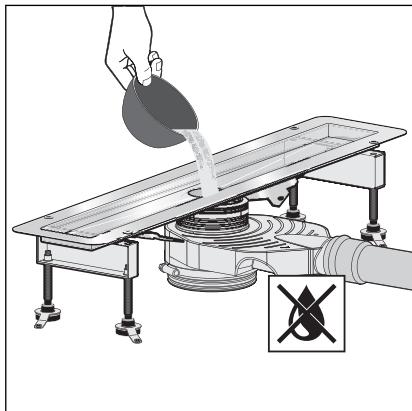
- ▶ Align the shower channel horizontally by adjusting the height of the feet.

- Secure the feet in place with fixing material if necessary.

3.2.5 Preparing for further work

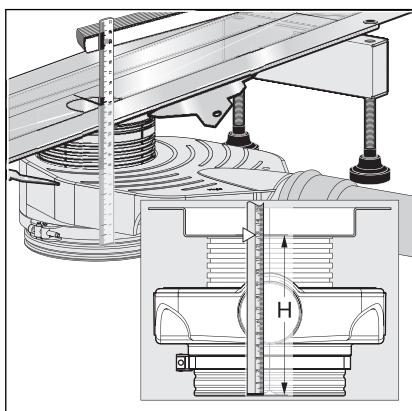
- Remove the protective foil around the drain.

INFO! The protective foil must not become dirty. It will be required later.

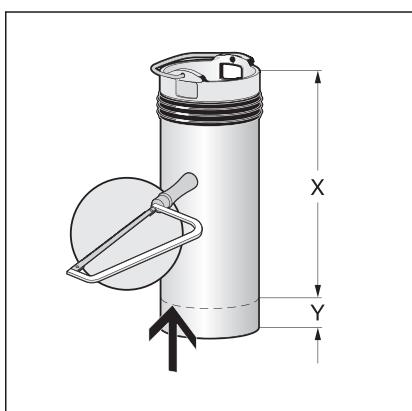


- Fill the shower channel with water.

- Check the drain casing and pipeline for leak tightness.



- Determine the required height (see fig., dimension H).



- Measure dimension X from the upper edge of the immersion pipe and cut ($X = H - Y$):

110-190

water seal level 50 mm

$Y = 18 \text{ mm}$

100-109

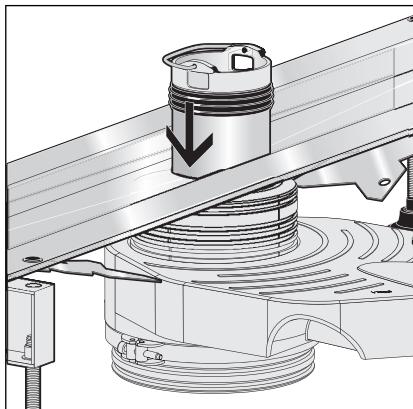
water seal level 40 mm

$Y = 18 \text{ mm}$

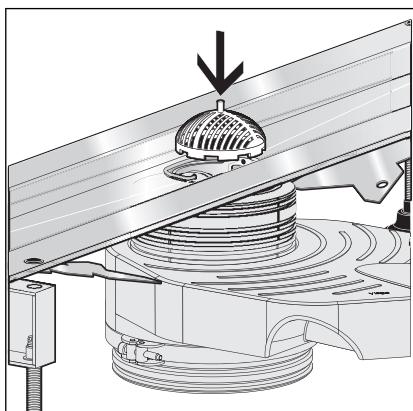
90-99

water seal level 35 mm

$Y = 13 \text{ mm}$



► Insert immersion pipe.



► Optionally, insert the sieve.

The drainage capacity increases without a sieve.

► Stick the protective foil back on.

⇒ The shower channel has been mounted.

Lining with screed

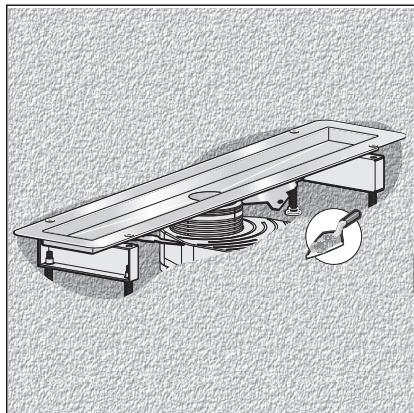


NOTICE!

Product damage due to improper installation

If hollow spaces occur during the lining of the shower channel, leaks may occur when pressure is applied.

Inform the subsequent workers that the shower channel must be fully lined and that there must be no hollow spaces.



INFO! Screed and floor tiles must be laid at an incline of 1–2 % in the direction of the shower channel.

- ▶ Line the shower channel up to the upper edge of the flange with screed.

3.2.6 Sealing the shower channel

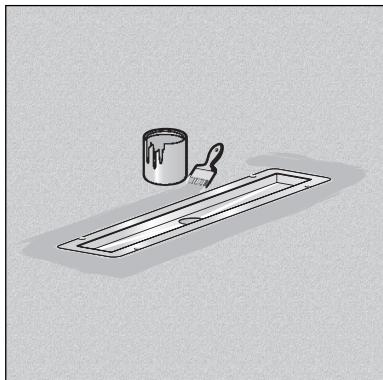
Requirements

- The flange must be clean and free from material residue. If necessary, clean the flange.
- The flange must be coated with protective foil.

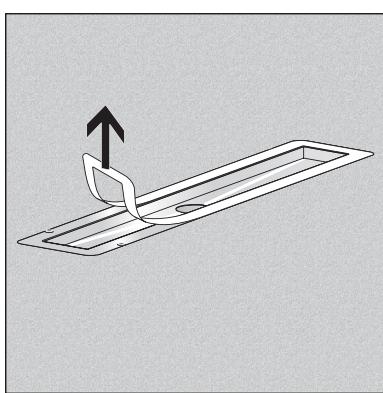
- ▶ Cut the sealing tape generously.

The strips should overlap when stuck on.

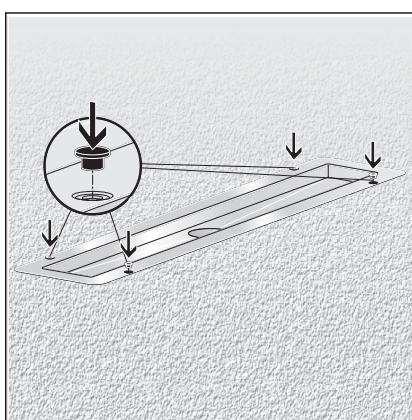




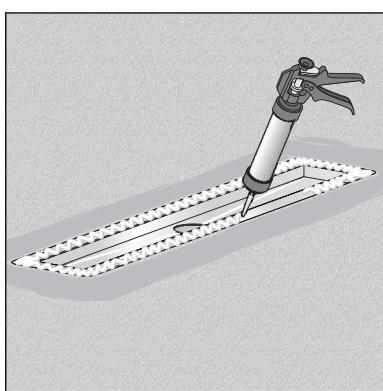
► Apply the first layer of bonded sealing generously onto the screed. Observe the instructions for use of the manufacturer of the bonded sealing.



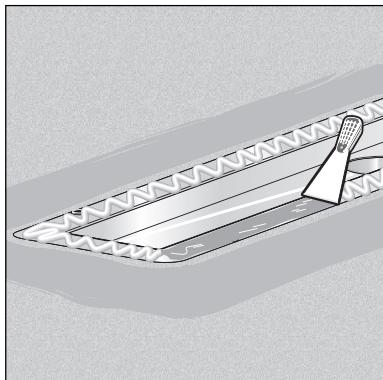
► Remove protective foil.
The protective foil is no longer required and can be discarded.



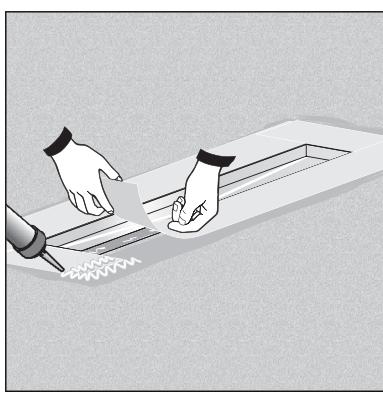
► Close the holes in the flange using plugs included with delivery.



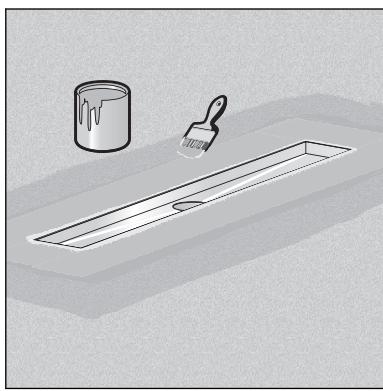
► Apply the mounting adhesive to the flange.
Observe the expiry date of the mounting adhesive,  „Mounting adhesive“ on page 14.



- ▶ Use a palette-knife to spread the mounting adhesive evenly.

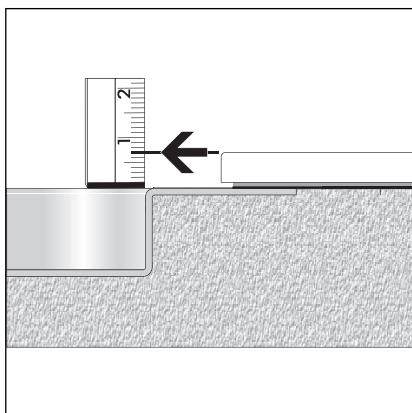


- ▶ Place the sealing tape on the flange in such a way that flange and screed are evenly covered.
- ▶ Press the sealing tape firmly onto the mounting adhesive and bonded sealing. Overlap the corners in the process.
- ▶ Stick the overlapping strips together at the corners with mounting adhesive.

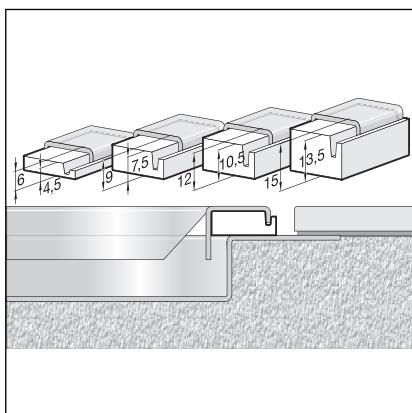


- ▶ Thoroughly press the adhesive joints together with a roller.
- ▶ Apply the second layer of bonded sealing generously onto the sealing tape and floor screed.

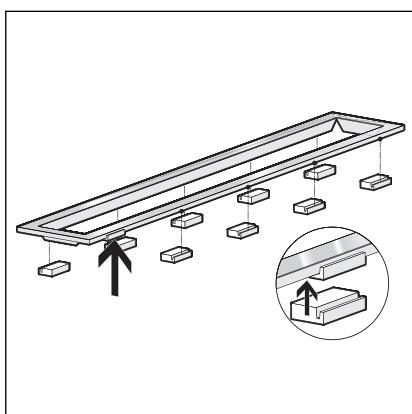
3.2.7 Insert grate frame



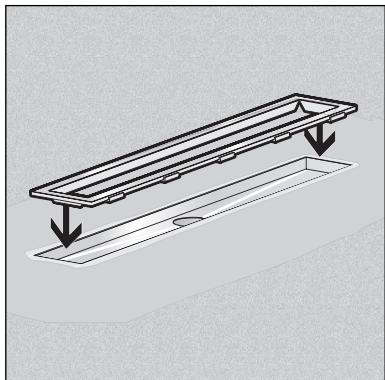
► Calculate upper edge of tiles.



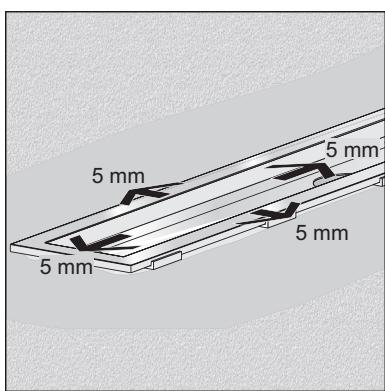
► Select the required size from the spacers supplied.



► Distribute and mount the spacers on the grate frame evenly.



► Insert grate frame.



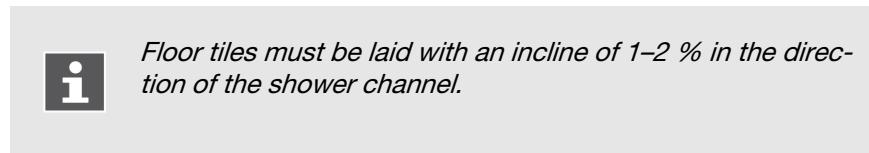
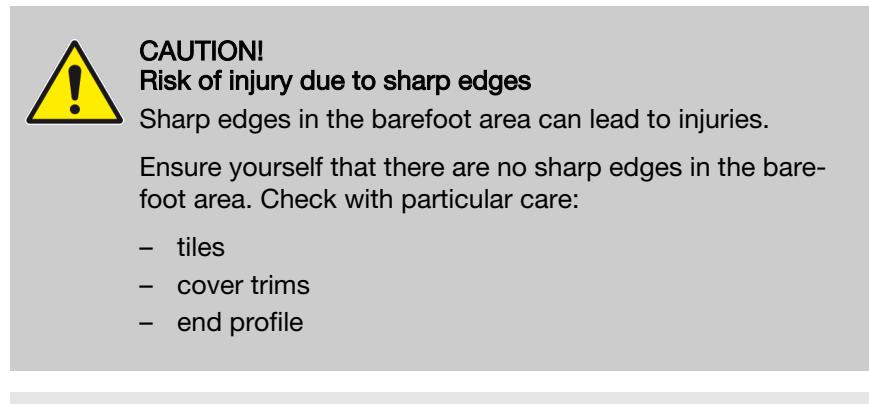
► Shift the grate frame as required.

Tolerance to all sides = 5 mm

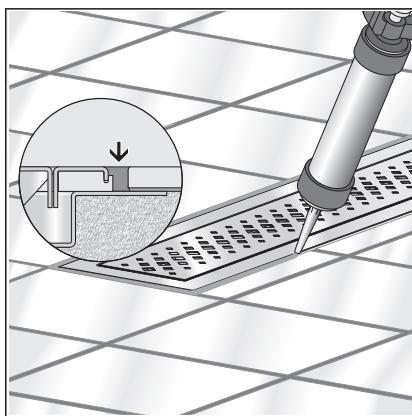
⇒ The shower channel installed.

The floor can now be tiled.

Lay tiles



- Lay tiles.
- Polish tile edges.
- Insert sieve.
- Finally, a grate must be mounted. You will find suitable grates in the catalogue.
Mounting, see grate's instruction for use.
- Seal the joint between the grate frame and the tiles with silicone.



3.3 Care

3.3.1 Care tips

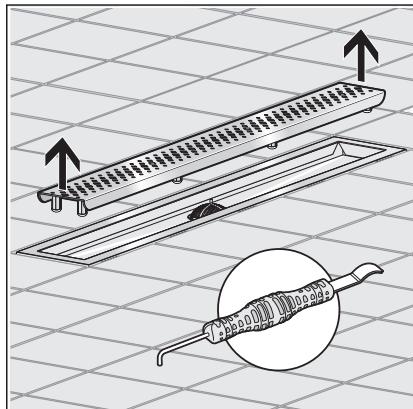
Normal soap or a mild cleaning agent can be used for regular care and prevention of lime scale on the grate and frame. Under no circumstances should scouring agent or scratching objects be used.

Strong stains, even around the drain unit and the siphon, can be removed using typical household cleaner. It should be noted that the cleaning agent should be rinsed off after the prescribed soaking time. There should be no residue on the components.

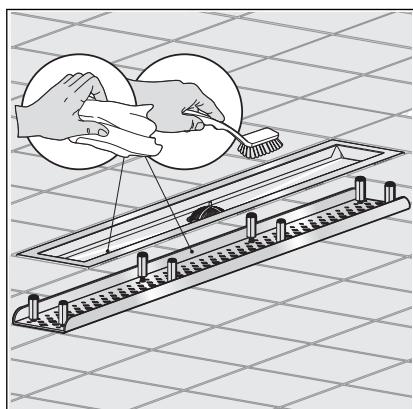
3.3.2 Cleaning

We recommend using a mild cleaning agent, a cloth and a washing-up brush for cleaning.

Clean shower channel



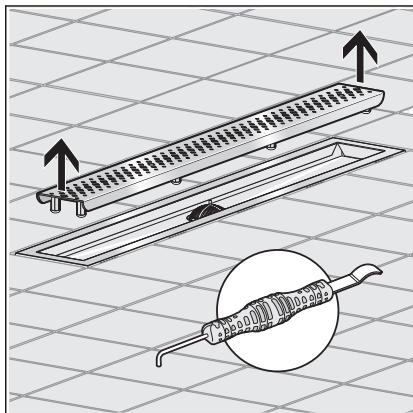
- Remove grate, e. g. 4965.90 with removal tool model , art. no. 689 704.



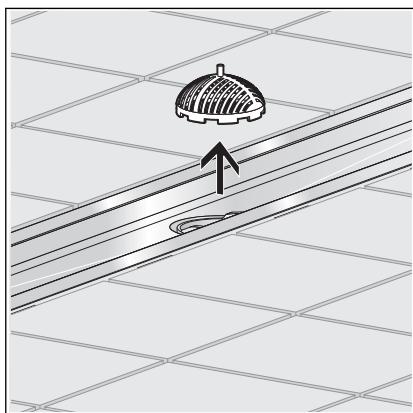
- Clean grate and shower channel.

- Rinse with clean water.

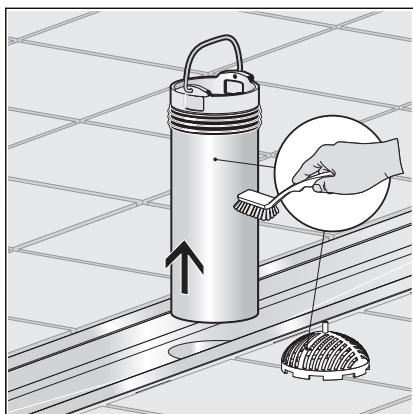
- Replace the grate into the shower channel.

Cleaning the drain

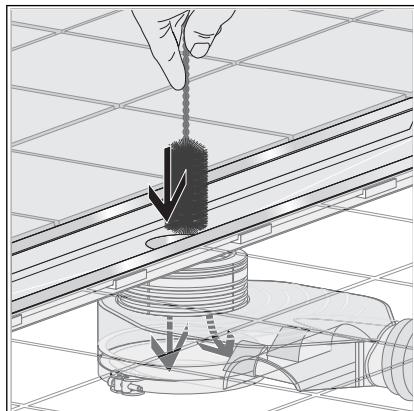
► Remove grate, e. g. 4965.90 with removal tool model , art. no. 689 704.



► Remove sieve.



► Remove immersion pipe.
► Clean sieve and immersion pipe.



- ▶ Clean drain.
- ▶ Replace immersion pipe.
- ▶ Replace sieve.
- ▶ Re-insert grate.

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.