

Basement drain

*Universale Plus*

**KESSEL**

# Simply simpler!

Simply installed, simply safe, simply affordable:

The new *Universale Plus* basement drain with backwater valve according EN 13564 – in the base plate rather than underneath, for the first time.

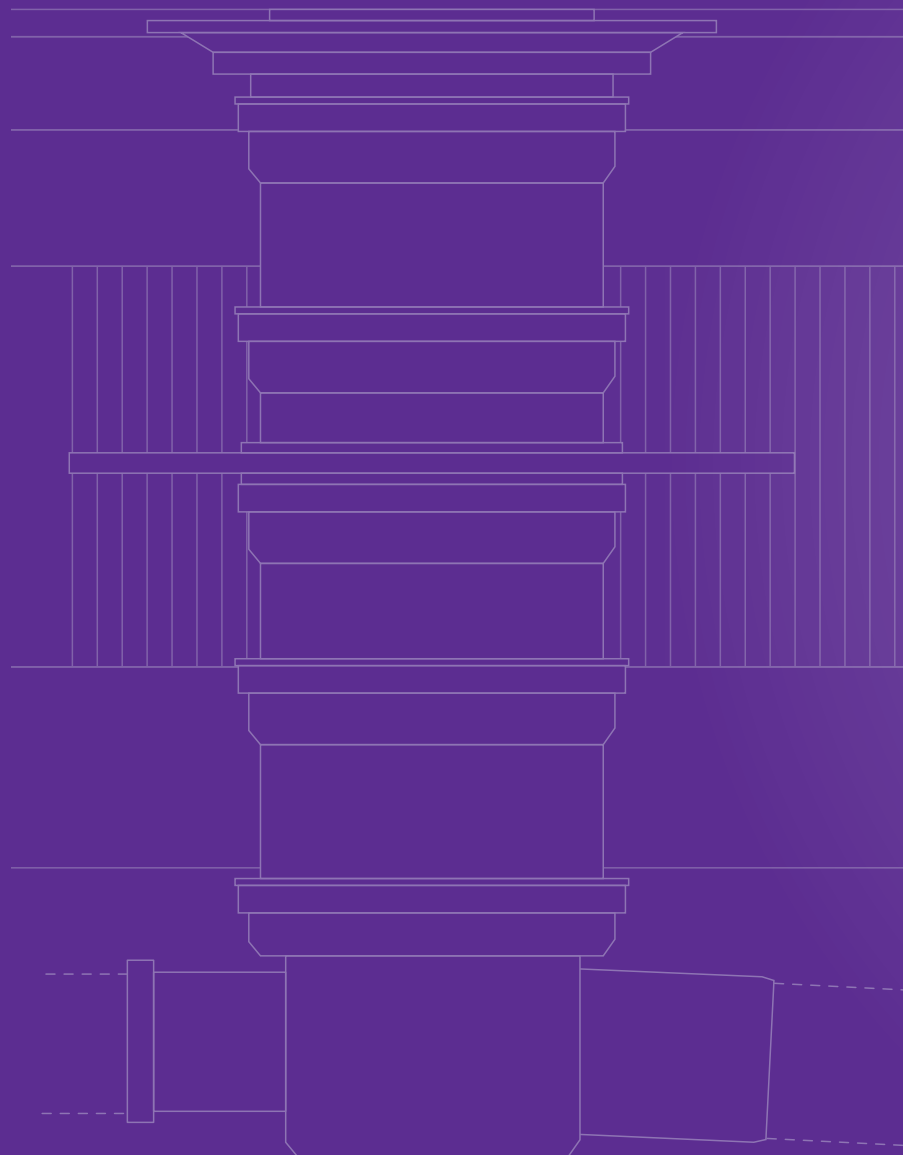
## Overview

# Simply versatile – simply advantageous

## The vertical drain with backwater valve according EN 13564

More advantages, less hassle with an extra measure of innovation: this plan works out! On the following pages you will find out how the *Universale Plus* basement drain with integrated backwater valve and odour trap makes it even easier for you to drain basement rooms in future.

But that's not all. Also discover why you not only save time but also save money with the *Universale Plus* – from the design to the installation through to maintenance.

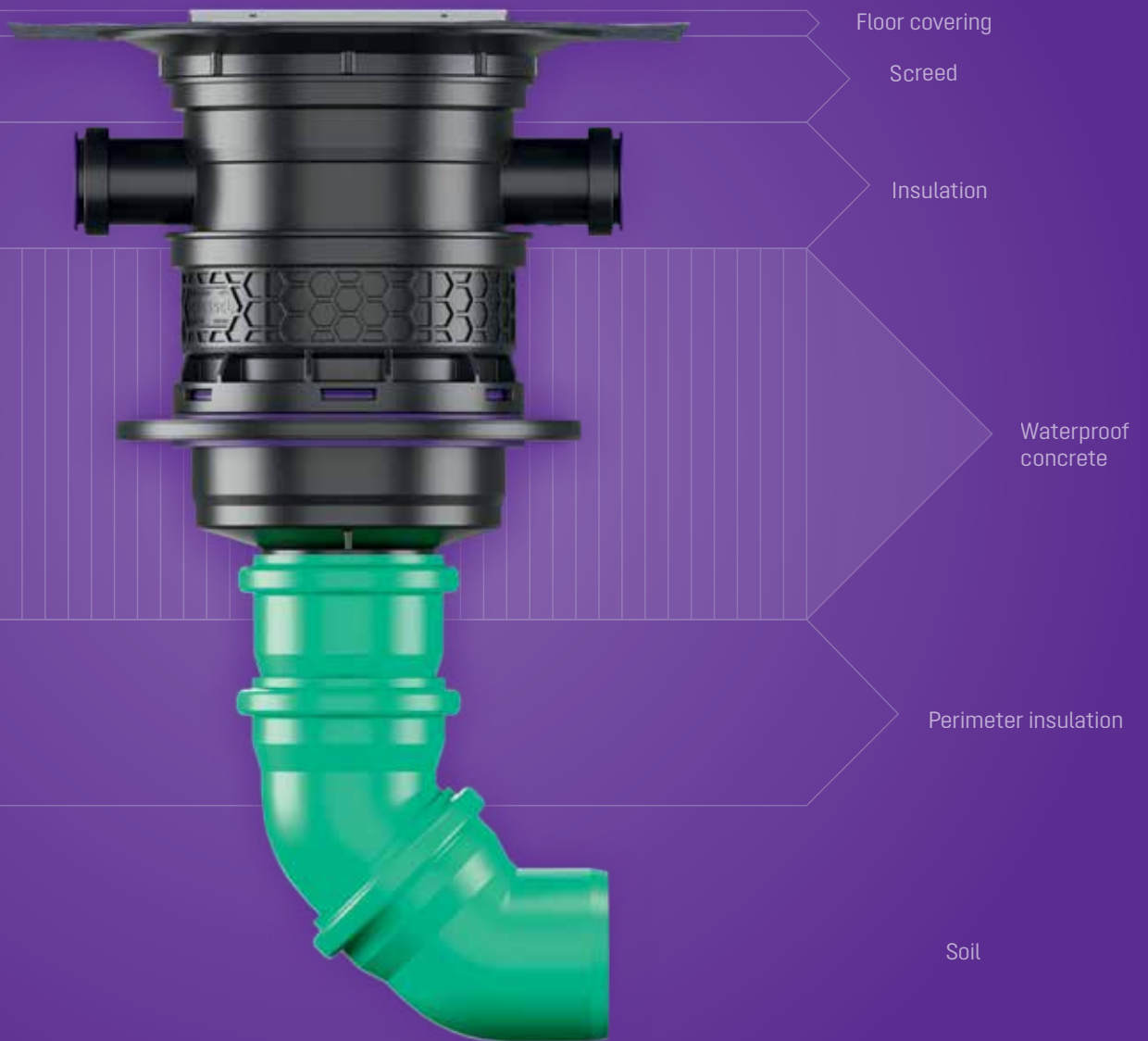


until now:

Drain body installed  
below the floor slab



discover online  
[www.universale-plus.com](http://www.universale-plus.com)



now new:  
Drain body installation  
in the floor slab

# Simply and systematically safe

You can select your *Universale Plus* basement drain as a complete item or assemble it individually using the modular system – from the waterproof sealing flange through to the variable upper section.



+ Variable upper sections  
➤ Page 10

Extension section  
➤ Page 8



+



+ Backwater unit or odour trap  
➤ Page 6

Universale Plus drain body  
➤ Page 6

+



+ Waterproof sealing flange  
➤ Page 6



Article overview  
➤ Page 18

## Drain body

# Simply thought out

The drain body of the *Universale Plus* basement drain has a vertical outlet and an integrated backwater valve. The advantage of this new design: Both the backwater unit and the inlet to the main drainage pipe are no longer installed deep under the floor slab and so remain easily and completely accessible. In combination with a clear pipe cross-section, maintenance and cleaning work on the main drainage pipe are made considerably easier.

The *Universale Plus* is to be installed in waterproof concrete? No problem. A waterproof sealing flange is installed in the factory or is available as an optional accessory in the modular system. Particularly practical: It can be clicked in without tools and is therefore always positioned correctly.

***Universale Plus* drain body**  
Versions with backwater valve  
including odour trap or only  
odour trap

**Waterproof sealing flange  
(MFPA Leipzig tested)**  
factory-mounted  
or available as optional accessory





Backwater unit or odour trap  
for tool-free installation



## Advantages

- + vertical outlet
- + easily accessible backwater valve
- + pipe cross-section completely accessible
- + water pressure-tight sealing flange
- + tool-free maintenance

## Advantages

- + extension section with three inlets  $\varnothing$  50
- + installation above the floor slab
- + separation of building shell/sanitary trades
- + rotatable



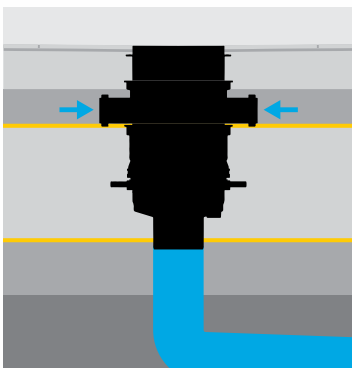




Extension section

## Simply practical

Another new feature of the *Universale Plus* is its innovative extension section, in which three inlets are integrated. Using this method, for the first time, the inlets are above the floor slab. Thus two advantages go hand-in-hand: On the one hand, the floor slab now only has to be penetrated once – on the other hand, clear separation of the building shell and interior finishes trades is possible.



inlets above the floor slab

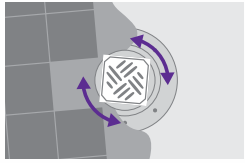
Upper section

## Simply flexible

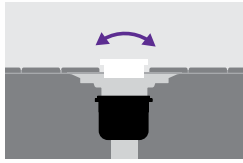
Attractive stainless steel look, tried and tested polymer or durable *Ecoguss*: The variety of the upper sections is as different as the possible uses of the *Universale Plus*. Regardless of the material, all versions have one thing in common: All are rotatable, tiltable and can be adjusted vertically – always suitable for the individual installation situation.



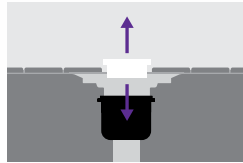
Upper section made of polymer



rotatable



tiltable



vertically adjustable

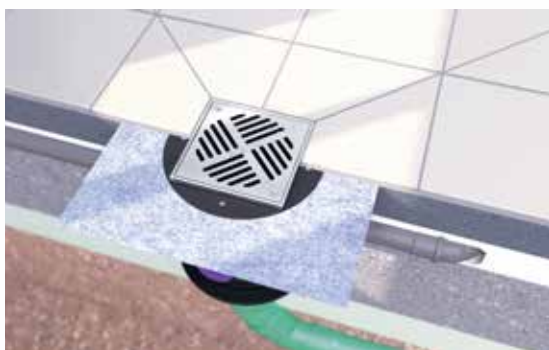


Upper section made of Ecoguss  
Load class B 125

Variofix upper section  
for combined waterproofing

## Advantages

- + can be rotatable, tilted and adjusted vertically
- + Polymer, stainless steel or *Ecoguss*
- + Class K 3 to B 125



Attractive appearance

# Simply dry in housing

Basement rooms in the house must be drained reliably and protected against backwater – in private households this applies to laundry rooms particularly frequently. The three inlets of the *Universale Plus* are eminently suitable to discharge the wastewater produced by the washing machine, washbasin, etc. As the inlets are above the floor slab, only a single penetration of the floor slab is necessary: That reduces the risk of moisture penetrating from below, which can cause serious structural damage in the long term. The *Universale Plus* therefore protects private households even more reliably.



The installation is also possible without waterproofing where high groundwater is not an issue



Installation with waterproofing against groundwater



With *Ecoguss* upper section for up to 12.5 tonne loads

## Simply stable in non-housing areas

Whether underground car park, storage room or workshop: Safe drainage of basement rooms is also necessary in non-housing applications. Here the *Universale Plus* can be relied upon – with the *Ecoguss* upper section even up to load class B 125. This means that it can also be driven on by pallet trucks or forklift trucks. Thanks to its corrosion resistance, stability and maintenance friendliness, the *Universale Plus* will be your reliable partner for many years to come.

# Simply affordable

Cost efficient, from the planning through to the maintenance: The *Universale Plus* is the drainage solution for basements with which you can save time and money during its entire product life cycle. Where precisely are the potential savings? We show this using a specific example.



**The situation:** Installation of a basement drain in housing in conjunction with a floor slab made of waterproof concrete and three inlets for connecting a shower, washbasin and washing machine. From the main drainage pipe to the combined waterproofing. Thickness of the floor slab including perimeter insulation 500 mm.

## Work it out for yourself!

### Classic installation below the floor slab

Drain bodies
+ 3x inlet sockets Ø 50
+ 3x 0.5m pipe Ø 50 to EN 1610
+ 3x puddle flanges Ø 50
+ 1x extension for drain body 0.5m Ø 200
+ 1x puddle flange Ø 200
-
+ Horizontal pipes to discharge points
+ upper section for combined waterproofing with stainless steel cover
+ Time needed to attach the inlet sockets, lay the inlet pipes below the floor slab to EN 1610, waterproofing and fixing work for inlet pipes

### Installation with *Universale Plus*

*Universale Plus* with *Variofix* upper section  
(Art. no. 27 651)

-
-
-
-
-
+ Extension with 3 inlets Ø 50 (Art. no. 48 966)
+ Horizontal pipes to discharge points
-
-

# *Universale Plus*

## Article overview

Find the suitable product for your individual installation situation in the article overview on the following pages.



## Universale Plus basement drain

with backwater valve

**CE** EN 13564 Type 5

The polymer *Universale Plus* basement drain is equipped with a removable backwater valve with two backwater flaps, one hand-lockable emergency closure and a sludge bucket.

**Material:** PP

**Version includes:**

- vertical outlet, Ø 110
- with backwater valve
- odour trap
- sludge bucket

**Cover:**

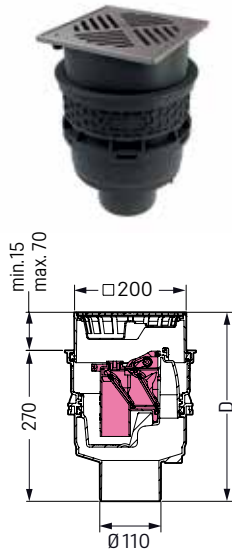
- Slotted cover 187×187 mm and frame made of 304 stainless steel, screwed, class K 3

**Sealing water height:** 60 mm

**Drainage capacity with backwater valve:** 1.7 L/s

**Cut-out dimensions:** 310×310 mm

**Accessories:** see pages 22 – 23



### With twin flap backwater valve

Outer diameter Ø (mm)	Installation depth D in mm	Art. no.
With stainless steel cover		
Ø 110	293 - 350	27 671

## Universale Plus basement drain

with water pressure-tight sealing flange, with / without backwater valve

**CE** EN 13564 Type 5

The polymer *Universale Plus* is equipped with/ without a removable backwater valve with two backwater flaps, one hand-lockable emergency closure and a sludge bucket.

**Material:** PP

**Version includes:**

- vertical outlet, Ø 110
- factory-mounted flange for installation in waterproof concrete
- with/without backwater valve
- odour trap
- sludge bucket

**Cover:**

- Slotted cover 188×188 mm made of polymer, black, Class K 3
- Slotted cover 187×187 mm and frame made of 304 stainless steel, screwed, class K 3

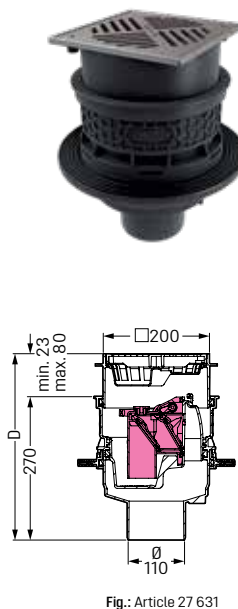
**Sealing water height:** 60 mm

**Drainage capacity with backwater valve:** 1.9 L/s

**Drainage capacity without backwater valve:** 2.5 L/s

**Cut-out dimensions:** 310×310 mm

**Accessories:** see pages 22 – 23

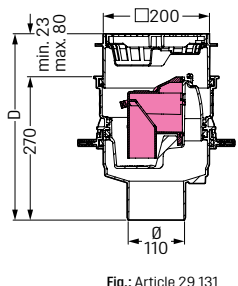


### With twin flap backwater valve

Outer diameter Ø (mm)	Installation depth D in mm	Art. no.
With black cover		
Ø 110	293 - 350	27 631
With stainless steel cover		
Ø 110	293 - 340	27 641

### Without twin flap backwater valve

Outer diameter Ø (mm)	Installation depth D in mm	Art. no.
With black cover		
Ø 110	293 - 350	29 131
With stainless steel cover		
Ø 110	293 - 340	29 141





## Universale Plus basement drain

with water pressure-tight sealing flange, with / without backwater valve

CE EN 13564 Type 5

The polymer *Universale Plus* basement drain is used for drainage of non-faecal wastewater and is equipped with/without a removable backwater valve with two backwater flaps and a hand-lockable emergency closure. Including temporary protective cover.

**Material:** PP

**Version includes:**

- vertical outlet, Ø 110
- with *Variofix* upper section for combined waterproofing and enclosed waterproofing membrane to DIN 18534-1-W3-I
- factory-mounted flange for installation in waterproof concrete
- with/without backwater valve
- odour trap

**Cover:**

- Slotted cover 187 × 187 mm and frame made of 304 stainless steel, screwed, class K 3

**Sealing water height:** 60 mm

**Drainage capacity with backwater valve:** 1.7 L/s

**Drainage capacity without backwater valve:** 2.3 L/s

**Cut-out dimensions:** 310 × 310 mm

➤ **Accessories:** see pages 22 – 23



### With twin flap backwater valve

Outer diameter Ø (mm)	Installation depth D in mm	Art. no.
Ø 110	309 – 408	27 651

### Without twin flap backwater valve

Outer diameter Ø (mm)	Installation depth D in mm	Art. no.
Ø 110	309 – 408	29 151

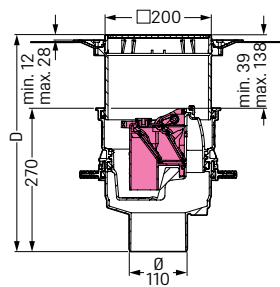


Fig.: Article 27 651

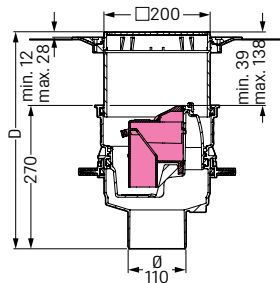


Fig.: Article 29 151

## Backwater valve *The Universal*

### The basement drain with horizontal outlet

It couldn't be more flexible. *The Universal* is a versatile basement drain for sewage free wastewater. It is equipped with a backwater valve and a manually lockable emergency closure. *The Universal* has three inlets as a standard feature (two in Ø 50 and one in Ø 75 mm), the telescopic upper section is also rotatable, tiltable and height-adjustable. This ensures it provides maximum flexibility for the design and installation. *The Universal* is optionally available with a slotted cover made of polymer or stainless steel.



1 Drain 2 Inlet 3 Steel cover

## Backwater valve *The Universal*

For installation in a concrete floor/slab



### CE EN 13564 Type 5

Made in PP. With lateral outlet 2.5°, 2 inlets Ø 50, 1 inlet Ø 75 mm with blind plug, odour trap and sludge trap.

With/without twin flap backwater valve.

Drainage capacity 1.8 l/sec flow rate.

Sealing water height 60 mm.

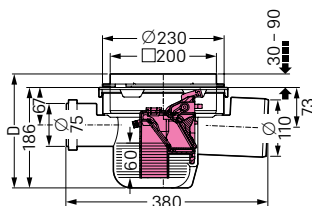
Installation area 400 × 320 mm

#### Cover:

Slotted cover 188 × 188 mm made of polymer, black, class K 3;

slotted cover 187 × 187 mm and rim made of 304 stainless steel, screwed, class L 15

↗ **Accessories:** see pages 22 – 23



### With twin flap backwater valve

Outer diameter Ø (mm)	Installation depth D in mm	Art. no.
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#### With black cover

Ø 110	216 - 276	27 611
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#### With stainless steel cover

Ø 110	216 - 266	27 621
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### Without twin flap backwater valve

Outer diameter Ø (mm)	Installation depth D in mm	Art. no.
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#### With black cover

Ø 110	216 - 276	29 111
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#### With stainless steel cover

Ø 110	216 - 266	29 121
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## Modular system

Universale Plus / The Universal / Basement drains without backwater valve

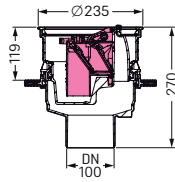
### Drain body



Art. no.  
**27 650**

**Universale Plus**  
with backwater valve and  
waterproof flange

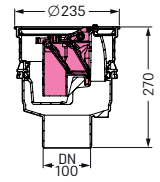
Material: PP



Art. no.  
**27 660**

**Universale Plus**  
with backwater valve without  
waterproof flange

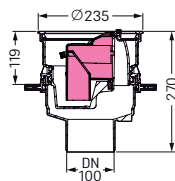
Material: PP



Art. no.  
**29 102**

**Universale Plus**  
with odour trap and  
waterproof flange

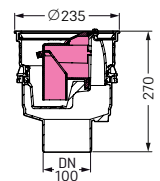
Material: PP



Art. no.  
**29 103**

**Universale Plus**  
with odour trap without  
waterproof flange

Material: PP



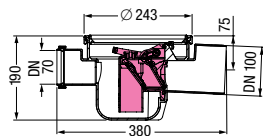
Nominal size	Art. no.
DN 100	<b>27 600</b>

**The Universal**  
with backwater valve

Material: PP

Version includes:

two inlets DN 50, one inlet DN 70 with  
blind plug



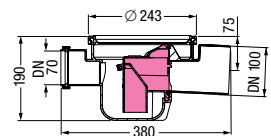
Nominal size	Art. no.
DN 100	<b>29 101</b>

**Basement drain**  
with odour trap

Material: PP

Version includes:

two inlets DN 50, one inlet DN 70 with  
blind plug



## Modular system

Universale Plus / The Universal / Basement drains without backwater valve

### Upper sections with slotted cover



Art. no.

48 968

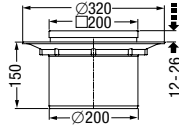
#### Variofix upper section for combined waterproofing

made of polymer

**Cover:** slotted cover and frame made of 304 stainless steel, screwed, class K 3

**Compatibility:** System 200

**Including:** Waterproofing membrane



Art. no.

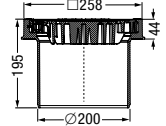
67 985

#### made of Ecoguss

**Version includes:** Upper section with support frame 250 x 250 mm, continuously height-adjustable

**Cover:** Slotted cover, round Ø 235 mm made of Ecoguss, Class B 125, Lock & Lift locking system

**Compatibility:** System 200



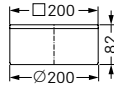
Art. no.

48 954

#### made of polymer

**Cover:** slotted cover and frame made of 304 stainless steel, screwed, class K 3

**Compatibility:** System 200



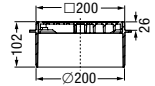
Art. no.

48 964

#### made of polymer

**Cover:** Slotted cover made of polymer, black, class K 3

**Compatibility:** System 200



## Accessories

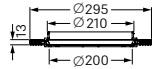
Universale Plus / The Universal / Basement drains without backwater valve

### Waterproof flange

Art. no.

Material: PP

Compatibility: Article 27 660, 29 103



48 967

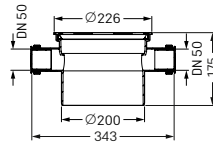
### Extension section

Art. no.

Material: PP

Compatibility: System 200

with 3 inlets



48 966

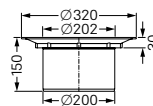
Material: Polymer

Version:

- H = 150 mm
- Waterproofing layer against ground moisture

Compatibility: System 200

with pressure sealing flange and mating flange



27 298

### Waterproofing membrane

Art. no.

Compatibility: Article 27 298

Waterproofing membrane

48 651



Installation adhesive for waterproofing membranes 2C installation mortar

48 650



### Extension section

Art. no.

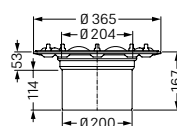
Material: Ecoguss

Version:

- for installation in waterproof concrete
- H = 166 mm

Compatibility: System 200

with pressure sealing flange and mating flange



48 958

## Accessories

*Universale Plus / The Universal / Basement drains without backwater valve*

### Elastomer waterproofing sheet

Art. no.

Material: Polymer  
 Compatibility: Article 48 958

48 982

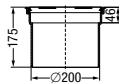


### Extension section

Art. no.

Material: Polymer  
 Version: H = 175 mm  
 Compatibility: System 200  
 Including: Lip seal

48 988



### Adaptor

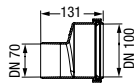
Nominal size

Art. no.

Material: Polymer  
 Compatibility: Article 27 611, 27 621,  
 27 301, 29 111, 29 121, 33 101, 36 101  
 Including: Ø 110 socket / Ø 70 spigot  
 usable as connector, seal

DN 70/100

27 602



### Backwater valve

Art. no.

Material: Polymer  
 Version includes: Module with two flaps,  
 odour trap (62 mm)  
 Compatibility: suitable for *The Universal*,  
*Universale Plus*

with integrated  
 odour trap

27 603



### Rat protection

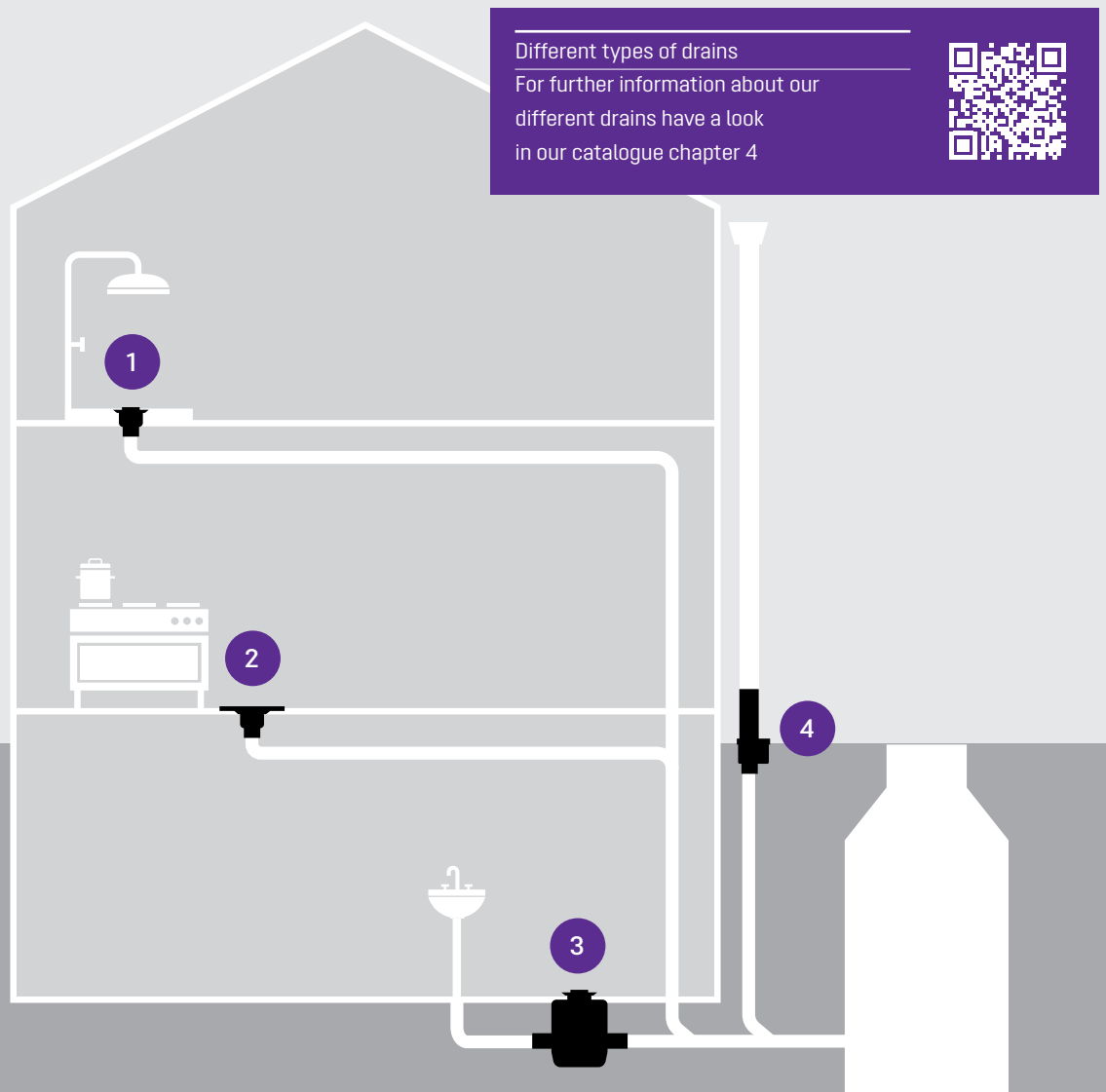
Art. no.

Material: Stainless steel  
 Compatibility: Article 27 611,  
 27 621, 27 301, 29 111, 29 121,  
 33 101, 51 101, 52 101

27 609



# KESSEL offers a big range of different types of drains



**1 Bathroom drains**  
Bathroom drainage tailored to requirements

**2 Floor drains**  
Floor drains with versatile properties

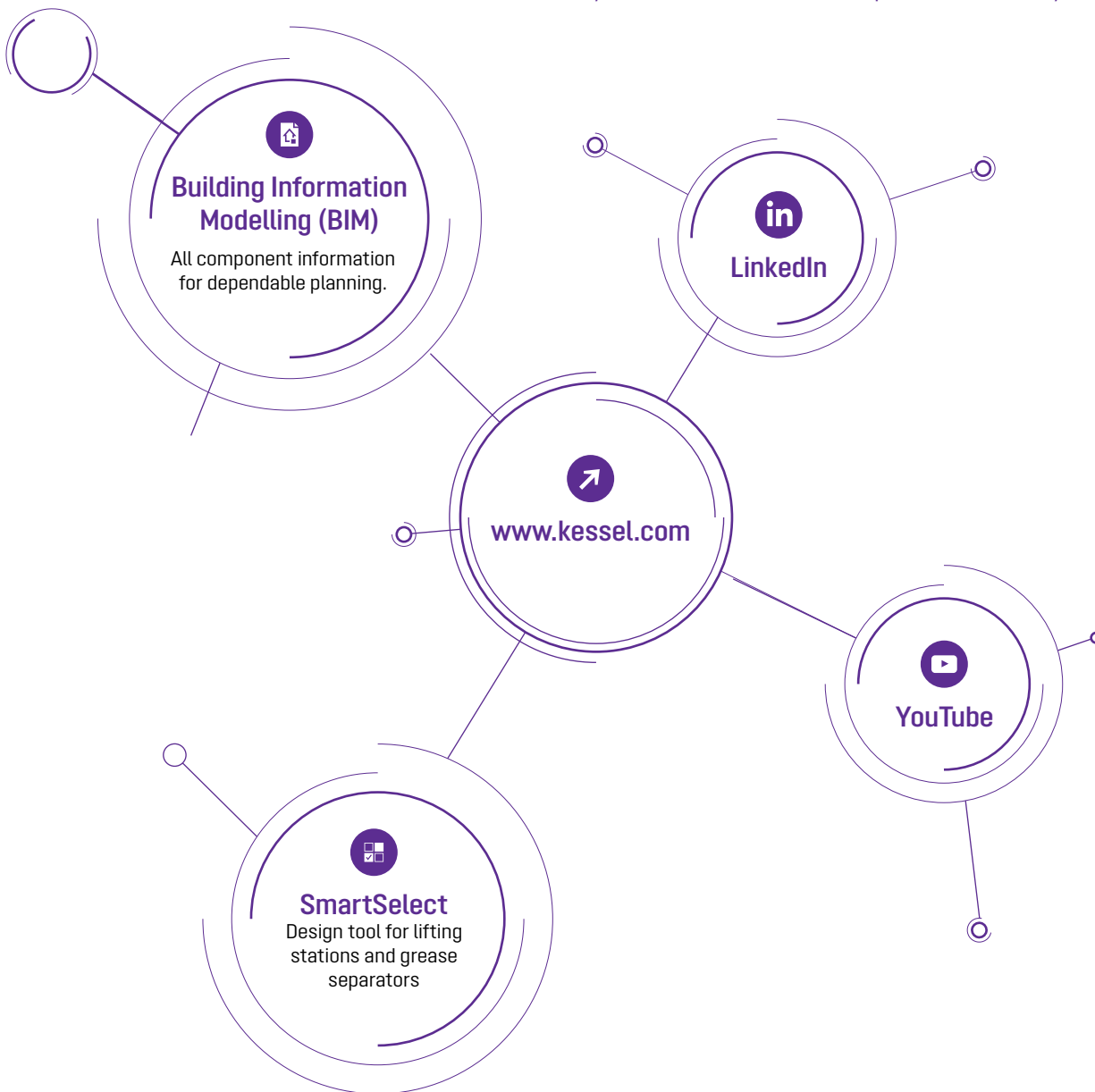
**3 Basement drains**  
For dry floors in basement rooms

**4 Outdoor drains**  
Robust solutions for particular loads



# Our digital services offer

With KESSEL SmartServices the future has already arrived for each of our drainage products. For you as a customer, this not only means extensive digital support for design, installation and operation – but also the certainty that we continue to develop our services for your benefit.



Stay up to date:  
get always the newest information  
about KESSEL and our products



BIM



LinkedIn



SmartSelect



YouTube

# This is KESSEL.

Since 1963, KESSEL has stood like no other company for innovative and reliable drainage technology. We have established ourselves as the impulse generator in the industry and are now a worldwide premium supplier.



Competent partner  
**since 1963**



International player  
**60+  
countries**



Innovative premium supplier  
**3.000+  
products**



Safe employer  
**550+  
employees**



Sustainable company  
**110+ mio. €  
in sales**

During the production of our products as well as their operation on-site, we keep quality assurance, environmental protection and worker's safety at the top of our list.

We also place great value in the relationship with our customer, providing consultation, installation support, commissioning and after-sales service.

One thing is certain, our innovation, quality, reliability and service is number one in the industry.

KESSEL – Leading in drainage



**Made in Germany**





KESSEL Headquarters Lenting, Germany

## Leading in drainage.

No matter whether the task involves discharging water, wastewater treatment or backwater protection: if the best solution is required, there is no option but KESSEL.



### Backwater protection

Backwater valves  
Backwater chambers



### Pump technology

Backwater pumping station  
Hybrid lifting station  
Lifting stations  
Pumping stations  
Submersible pumps,  
conversions and control units



### Drains & channels

Bathroom drains  
Floor drains  
Basement drains  
Outdoor drains



### Separators

Grease separators  
Coalescence / Oil /  
Fuel separators  
Sediment separators  
Starch separators



For further  
information visit  
[www.universale-plus.com](http://www.universale-plus.com)



Subject to technical modifications.

**KESSEL AG**

Bahnhofstraße 31 • 85101 Lenting • Germany

[www.kessel.com](http://www.kessel.com)

016-848 P24/CK 08/22