



4 Drains and channels

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Bathroom / Shower drains Page **170 – 185**

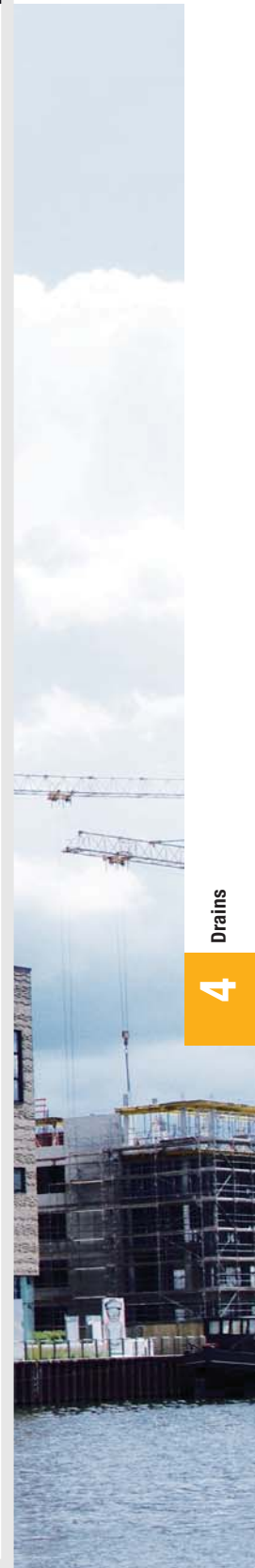
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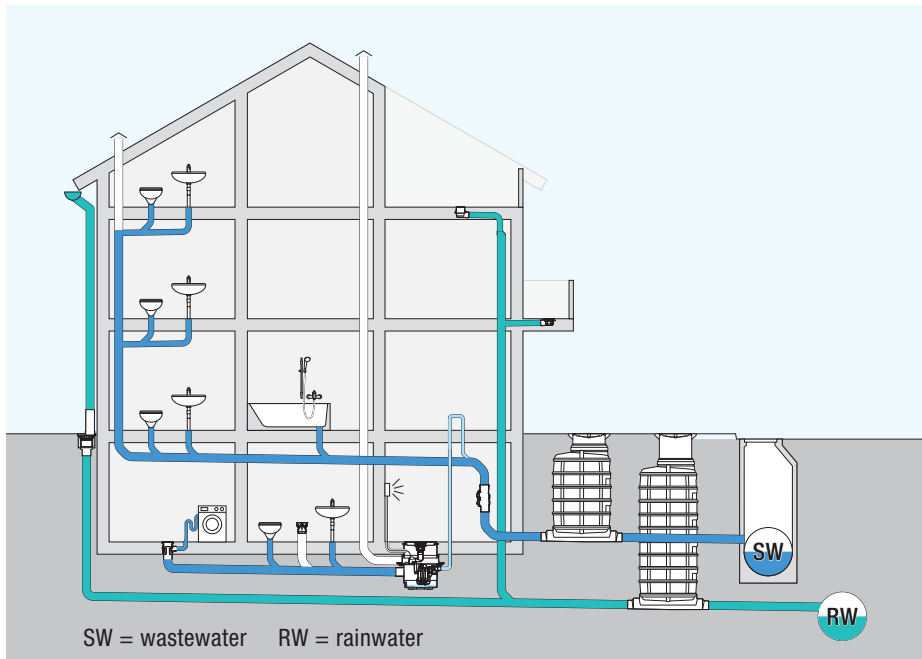
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Balcony / Roof /
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Drainage: how it works



Dimensioning

The outlet (Ø in mm) used for floor drains and drain pipes must be selected in such a way that the draining capacity corresponds to the occurrence of wastewater.

Connection values of drainage fixtures and diameters for individual connection pipes are summarised in DIN 1986-100. According to this, the following values can be taken as a basis for floor drains:

Floor drains

- Ø 50 = 1.0 l/sec.
- Ø 75 = 1.5 l/sec.
- Ø 110 = 2.0 l/sec.

Odour trap

Odour traps are used to stop foul-smelling gases from the sewage system finding their way inside buildings and must comply with the respective national standards. Generally speaking, the following heights must be observed:

- for sewage drains 50 mm
- for rainwater drains 100 mm

TIPP

With *Multistop*, KESSEL offers a practical alternative to odour traps with seal water. While standard odour traps in drains frequently dry out due to air conditioning units, underfloor heating or infrequent use, *Multistop* prevents bad odours coming up from the drain without the use of water. A tight sealing flap forms a reliable seal. It only opens up when water makes contact to allow it to flow away without being restricted. After the water has passed, the flap closes. Rodents, foam and bad odors are retained. The water-free odour trap can be integrated in all KESSEL floor drains.



How it works:

Drains are designed to receive, collect and convey wastewater. These can be bathroom, floor, ceiling, roof or special drains and also include balcony and yard drains. One important aspect is that usually only the outlet side needs to be considered, not the inlet side. The inlet fittings do dispense a certain amount of water, but this is only rarely or never decisive for the dimensioning of drains because the water is collected by most draining points and temporarily stored.

Accordingly, in compliance with EN 1253, section 6.1.4 or DIN 19541 drains must have the following odour trap heights:

- Drains with sealing water replacement - bathroom drains: 50 mm (Euro standard)
- Drains with rainwater - gutter drains: 100 mm

Larger trap heights are necessary for rooms with a slight vacuum or overpressure in order to avoid the water seal to escape and wastewater gases being siphoned into the room. If a sealing water height suitable for the pressures cannot be achieved, the route should pass via a connecting pipe with shut-off function.

When drains are installed outdoors they must be frost-free. The easily accessible cleaning opening required for drains must be achieved using removable odour traps.

KESSEL - Modular Systems

KESSEL offers a large selection of fully complete bathroom drains and shower channels ready for installation. In the case that you have not found the exact drain to meet your requirements KESSEL offers our modular component system. This system allows you to choose the individual drain body, cover and accessory that you like and 'build your own' bathroom drain or shower channel.

System 125



Individual parts System 125



Upper section in ABS
with design cover *Oval*
□ 120 mm
in stainless steel AISI 304
Art. # 48 202



Hair filter
Art. # 48 700



Pressure sealing flange
in stainless steel AISI 304
Art. # 48 402



Drain body *Practicus*
in PP
Art. # 45 210

= Complete article

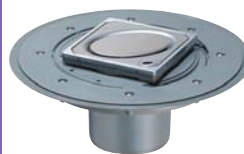
**Floor drain *Practicus*
with pressure sealing flange**



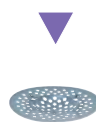
System 100



Individual parts System 100



Variofix
shallow bed upper section
in ABS
with design cover *Oval*
□ 120 mm
in stainless steel AISI 304
Art. # 47 905



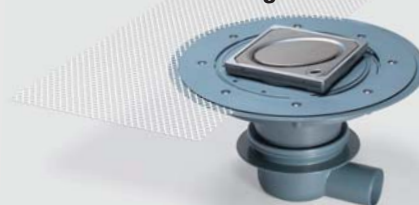
Hair filter
Art. # 43 700



Drain body *Classic*
in ABS
with removable odour trap
Art. # 40 150

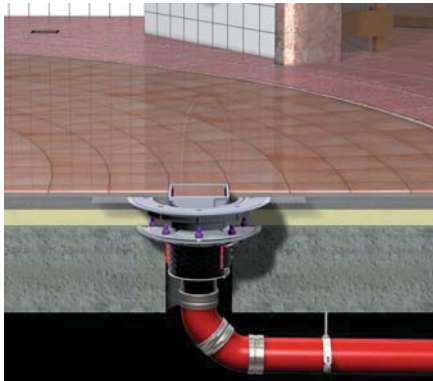
= Complete article

**Bathroom drain *Classic*
with shallow bed upper section
and design cover *Oval***



Different drains for different applications

Every drainage project makes different demands on materials. In the public sector in particular, technical features such as flow rate, fire and sound protection or resistance to aggressive media play a major role. In the private sector on the other hand, the focus is more on the optical appearance. KESSEL supplies drains for all requirements and installation situations.



Project drains

Project drains are often used in industrial and public buildings. In most cases, drains are routed through the floor slab and require increased fire and sound protection. The specially developed project drains *Ecoguss* and *Practicus* are ideally suited to meet these requirements.



Bathroom drains,
shower drains

Bathroom drains can be used in both, the private and commercial sector. Drains can be installed directly in a shower or in the general sanitary area. Surface water which occurs during cleaning work in toilets or changing rooms can be discharged easily via the drain.



Shower channels

Shower channels are installed in both private and commercial premises and reflect the desire for barrier-free bathroom design. Their wide intake area combined with high flow values guarantee that soiled water drains off well and evenly.

Drains for exterior installation

Wastewater which is collected outside also has to be discharged. There is a range of roof, balcony, parking deck, rain and yard drains available in different materials for this purpose. The load classes, which regulate the trafficability of the drain covers, must be taken into consideration.



Draining wastewater professionally - Everything the specialist needs to know



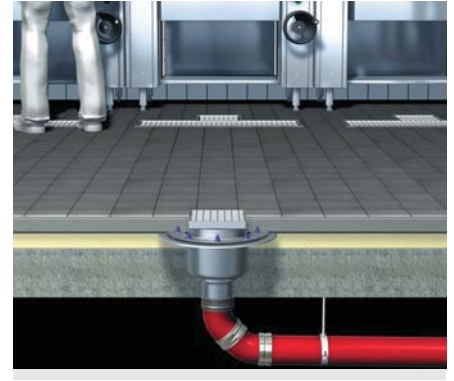
Wall drains

Wall drains are the latest trend in shower design. They are particularly suitable for barrier-free bathrooms since the unevenness which can occur through installation of a floor drain is no longer a problem. In addition, the *Scada* wall drain has four high quality drain covers made of stainless steel and optional LED lighting for a high degree of individual freedom in bathroom design.



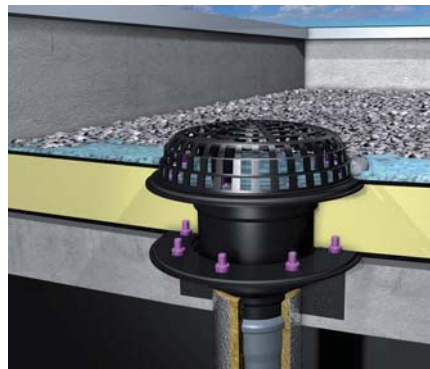
Basement Drains

Basement drains are used for draining lower level components. They collect surface water and discharge this. In addition, further fixtures that require drainage such as washing machines, sinks or showers can also be connected. Basement drains can be adapted to the requirements of your installation location and are available equipped with backwater valve, pump or volatile liquid trap.



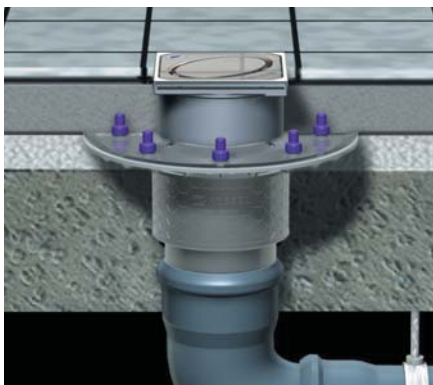
Stainless steel drains
and channels

Quality drains and channels in stainless steel for food processing operations or sanitary areas.



Waterproofing options

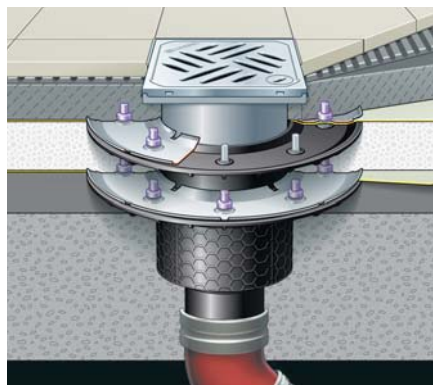
In rooms with a high moisture level, such as bathrooms, spas, washrooms or industrial kitchens in particular, high demands are made on waterproofing. The assumption that ceramic floors are watertight is often a mistake. The resulting decision to do without sealing measures frequently leads to unpredictable consequences such as, cracked joints, frost damage, mould formation or corrosion. For this reason, the EN 1253 standard requires a waterproofing seal to be installed under ceramic and natural stone floors in wet rooms.



Single waterproofing flange

Can be used as waterproofing in all wet and damp rooms.

The sealing strips used that are made of elastomer or synthetic materials and also bitumen sealing strips can be installed loosely, adhered with bitumen or attached using other hot polymer adhesive compounds.

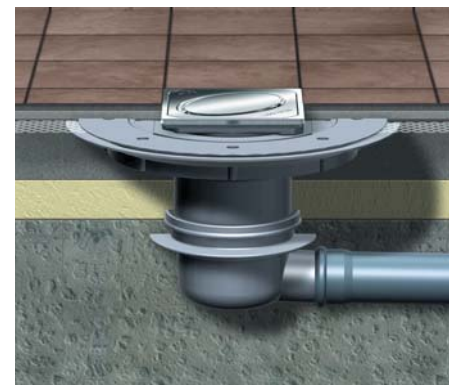


Double waterproofing flanges

This can be used to seal against moisture in all wet and damp rooms.

The elastomer or polymer sealing sheets and bituminous sheeting can be laid loosely, be bonded with bitumen or other polymer hot glue materials.

The upper sealing level serves as a waterproofing layer against seeping water, the lower waterproofing layer protects the floor from moisture rising from below.



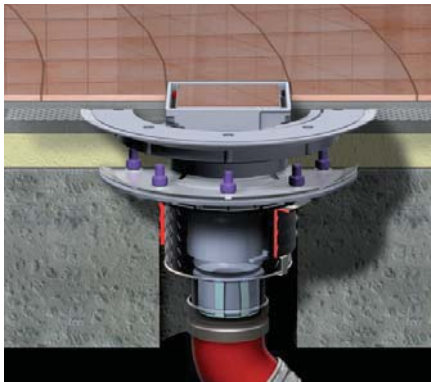
Shallow waterproofing flange

Can be used in wet rooms with non-pressurised water e.g. bathroom, shower, kitchen).

The manufacturers of chemical building products have come up with a safe and economic alternative to sub-screed seals - in the shape of special ready-to-use spreadable sealing materials. These sealing materials (e.g. PCI, Schomburg, Deitermann) form a flexible seal that is watertight and that can also bridge cracks. KESSEL supplies the *Variofix* shallow bed upper section as an optimum solution for very critical details when connecting drainage points in shallow bed constructions. Shallow bed upper section can also be used in combination with epoxy resin seals.



SmartSelect makes planning quite simply quicker - visit smartselect.kessel.com for the configurator for alternative waterproofing options.



Shallow and lower waterproofing flange

Used for waterproofing in all wet and damp rooms with seepage water and non-pressurised water from below.

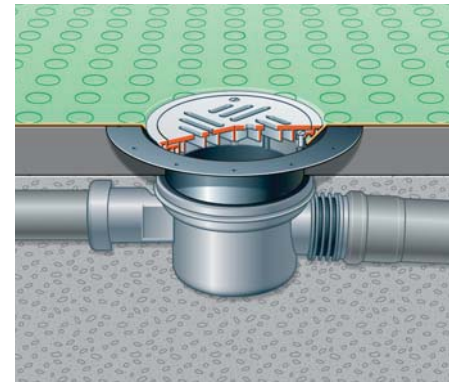
The shallow bed gasket used is applied above the screed with special ready-to-use and spreadable sealing materials in compliance with the ZDB information sheet. This is governed uniformly in the building regulations of all German states. The consequence of this is that structural works, such as bathrooms, need to be protected from moisture penetration. Parts exposed to moisture are usually covered with tiles and slabs. Ceramic materials are resistant to moisture and are water-repellent but they are not waterproof. In this case they are water-permeable which means they require additional sealing.

The second seal must be positioned e.g. on the concrete slab. In this case, a lip seal is used. The lower seal level prevents moisture from rising. Professional installation must comply with the standard DIN 18195-4.



Waterproofing flange for impermeable concrete

In accordance with EN 206-1 and DIN 1045-2 constructional elements made of impermeable concrete. Impermeable concrete constructional elements are structures which are prepared without an additional outer laminar waterproofing layer and prevent water penetration solely on account of the concrete used and design measures such as joint sealing and crack width restriction. Impermeable concrete construction elements belong to the group of rigid waterproofing layers and adopt both the load-bearing and sealing function in one. Floor slab and outer walls are cast as concrete tanking with a high water penetration resistance in accordance with EN 206-1 and DIN 1045-2.



Waterproof flooring

Since the floor covering takes over the function of the sealing level in this case, the drain must have a watertight connection to the floor covering using a clamping flange. The clamping flange upper section can be combined with all the drain bodies suitable for the respective system.

Fire protection

Fire protection

Floor drains and barrier-free shower systems with non-combustible and combustible drain pipes installed in ceilings present a fire hazard, since the fire can spread to adjacent fire zones through the pipes. Construction measures are required here in particular in order to minimise the risk of any fire spreading.

The German State Building Code defines the required fire resistance period in classes as follows:

Fire resistance class	F30	F60	F90	F120
Fire resistance period (minutes)	> 30	> 60	> 90	> 120

All KESSEL drain systems with a fire protection feature comply with fire resistance class F120. There is no need for preventative fire protection for floor drains:

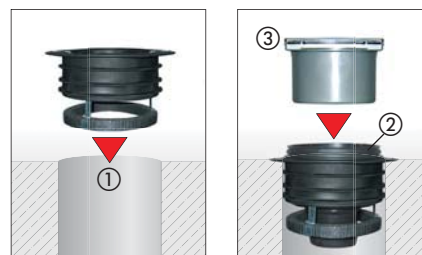
- in single- and two-family homes
- in basements
- with horizontal outlets (under certain conditions).

How it works

KESSEL offers *Quick-Fit* and *Fire-Kit* for System 125 and for System 200 floor drains with vertical outlets:

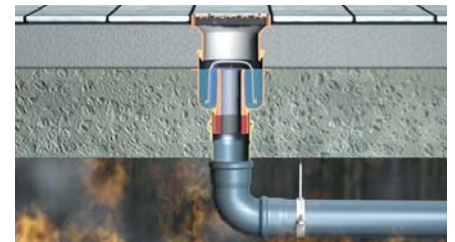
Quick-Fit passage seal including fire protection, with approval Z-19.17-1719

The fire-protection mass provides the necessary fire protection. This is attached by a metal hoop on the lower end of the installation aid. In the event of a fire, the fire protection mass swells up and closes the gap resulting from the melting seal. This guarantees a smoke-tight closure and stops the fire getting through.



- ① Insert **Quick-Fit** in core hole (Ø 160 mm).
- ② Lower the **Ecoguss** (2) drain body with vertical outlet into **Quick-Fit**.
- ③ Fit the upper section.

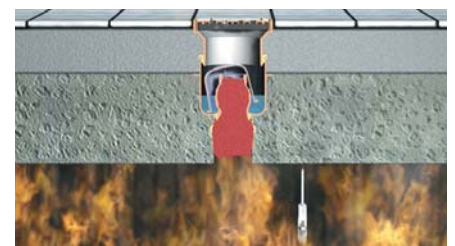
Fire-Kit fire protection insert (certification no. Z-19.17-1719)



Fire burns away all exposed plastic pipe. The flames then reach the outlet of the drain body.



The odour trap built into the drain body combines with sealing water to prevent smoke and gas reaching upper levels of the building.



The *Fire-Kit* fire protection insert expands due to the heat and completely seals off the openings in the concrete floor, preventing fire from spreading to the floor above.

Which standards must be taken into account?

EN
124

Load classes for upper sections and covers for traffic areas

EN
877

Cast iron pipes and fittings

EN
1253-1

Drains for buildings with volatile liquid traps

EN
1451-1

Plastics piping systems

EN
12056

Gravity drainage systems inside buildings

Sound protection / Maintenance and repairs

Sound protection

Oscillations are induced in a building structure via the contact points of a sanitary object with the building. The structure-borne sound is passed on and emitted from the ceilings and walls in the adjacent rooms as audible airborne sound. Particular care is taken during building planning to ensure noise annoyance caused by floor drains is kept to a minimum.

The Fraunhofer Institute in Stuttgart measured the following noise levels for KESSEL floor/ceiling drains:

Drains	DIN 4109	VDI 4100 SST III
Project drains <i>Ecoguss</i> <i>Practicus</i>	≥ 16 dB (A) ≥ 18 dB (A)	≥ 14 dB (A) ≥ 15 dB (A)
Bathroom drains <i>"The Ultraflat"</i>	≥ 12 dB (A)	≥ 10 dB (A)
Shower channels <i>Linearis Comfort</i> <i>Linearis Compact</i>	≥ 17 dB (A) ≥ 14 dB (A)	≥ 13 dB (A) ≥ 10 dB (A)
<i>Scada</i> wall drains	≥ 17 dB (A)	≥ 14 dB (A)

Maintenance and repairs in accordance with EN 12056

Installation is never the end of the story of course. Regular and thorough maintenance is a pre-condition for the permanent problem-free use of drains. This is one of the requirements in EN 12056 Part 1. During this test, the draining performance of the individual draining products also has to be observed. Malfunctions can be a sign of changes in the draining system which can then be diagnosed and eliminated in good time. The term malfunctions includes reduced draining performance, louder draining noises, odour traps being drained empty and odour pollution.

Drains with removable odour traps have proved their worth in practice. Removal of the unit provides good access, allowing all the functional parts to be checked easily by means of a visual inspection.

Tipp: Many KESSEL drains have the integrated locking system *Lock & Lift*. This allows the cover to be opened easily for maintenance, removed and locked again safely. The cleaning time required is reduced by about 70 % compared with covers which are locked in the conventional manner using two screws.



INFORMATION

Do you require more detailed information? Our Service Centre will be happy to help.

You can find your personal KESSEL contact on page 5 of this catalog!

Complete System Solution

In addition to individual stainless steel drains and channels for kitchens or the food processing industry, KESSEL also offers complete separator packages consisting of separator, properly matched lifting station and advantageous accessories. All from one source - KESSEL.

- Lifting and pumping stations for free standing and underground installation see chapter 3 "lifting stations".
- Grease separators for free standing and underground installation see chapter 5 "separators".

Individual Solutions

Thanks to its knowledge and possibilities, KESSEL is not only able to manufacture series products, but also special solutions in accordance with project-specific requirements.

References

Over the past decades, KESSEL products have proven themselves countless times in destinations all over the world. Scan the following QR code to directly view our list of references.



www.kessel.com/references

Material selection, drains made of PP and ABS

Overview of resistance values

Drains are offered in a range of different materials. Which material is used depends on the requirements set by the type of wastewater to be discharged. Drains made of polymer are generally characterised by their high impact resistance, light weight and simple design.

PP				ABS			
Medium	Concentration	Temperature in °C	Resistance	Medium	Concentration	Temperature in °C	Resistance
Acetone	100.00 %	23°	+	Acetone	technically pure	23°	-
Formic acid	98.00 %	23°	+	Formic acid	40.00 %	to 50°	+
Ammonium sulphate		to 100°	+	Ammonium sulphate	saturated	to 100°	+
Amyl alcohol		60°	+	Amyl alcohol		23°	+
Petrol/benzene mixture		23°	o	Petrol/benzene mixture	80 to 20	23°	-
Brake fluid		to 60°	+	Brake fluid		23°	-
Bromine		23°	-	Bromine, liquid		23°	-
Butane		to 60°	+	Butane		23°	o
Calcium hypochlorite	12.5 % active Cl	to 60°	+	Calcium hypochlorite	saturated	to 50°	+
Chlorine, liquid		23°	-	Chlorine, liquid		23°	-
Citric acid	saturated	to 100°	+	Citric acid	saturated	to 50°	+
Acetic acid	100.00 %	23°	+	Acetic acid	to 50.00 %	to 50°	+
Hydrofluoric acid	40.00 %	to 60°	+	Hydrofluoric acid	40.00 %	23°	+
Formaldehyde		to 60°	+	Formaldehyde	30.00 %	to 50°	+
Glycerine	100.00 %	to 60°	+	Glycerine		to 50°	+
Magnesium chloride	saturated	to 100°	+	Magnesium chloride	saturated	to 50°	+
Methanol	100.00 %	to 60°	+	Methanol	technically pure	to 20°	+
Lactic acid	10.00 %	to 60°	+	Lactic acid	10.00 %	to 50°	+
Motor oil		23°	+	Motor oil		to 50°	+
Sodium chloride	saturated	to 100°	+	Sodium chloride	saturated	to 50°	+
Sodium thiosulphate	saturated	to 60°	+	Sodium thiosulphate	saturated	to 50°	+
Nitrobenzene	100.00 %	60°	o	Nitrobenzene		23°	-
Perchloroethylene		23°	o	Perchloroethylene		23°	-
Phenol	saturated	to 60°	+	Phenol	10.00 %	50°	o
Propanol	100.00 %	to 60°	+	Propanol		to 50°	+
Nitric acid	50.00 %	23°	o	Nitric acid	30.00 %	23°	+
Hydrochloric acid		to 60°	+	Hydrochloric acid	37.00 %	23°	+
Sulphuric acid	to 10 %	to 100°	+	Sulphuric acid	to 50 %	to 50°	-
Detergent	ready to use	to 60°	+	Detergent	ready to use	23°	+
Nitrogen peroxide	3.00 %	to 100°	+	Nitrogen peroxide	3.00 %	to 50°	+

+ extremely resistant o moderately resistant - not for use

Drains made of *Ecoguss*

Overview of resistance values

Building drains made of the composite material *Ecoguss* are naturally hygienic and highly resistant to chemicals on account of their smooth and corrosion-free surface. Additional protective coatings are not necessary. Weight approx. 70 % lower than cast iron drains, no electrical grounding necessary and suitable for installation in hot bitumen thanks to high-temperature resistance properties.

<i>Ecoguss</i>			<i>Ecoguss</i>		
Medium	Temperature in °C	Resistance	Medium	Temperature in °C	Resistance
1,1,1-trichloroethane	RT	+	Methanol	RT	+
Acetone	RT	+	Methyl-tert.-butyl ether	RT	+
Formic acid 85 %	RT	+	Lactic acid 90 %	RT	+
Ammoniac 24.5 %	RT	+	Motor oil (150°)	150°	+
Petrol	RT	+	Sodium chloride, saturated	RT	+
Brake fluid (Toyota)	RT	+	Sodium hypochlorite (80°)	80°	o
Butyl alcohol, n-butanol	RT	+	Sodium base liquor 30 %	RT	+
Calcium chloride	RT	+	Sodium base liquor 50 %	RT	+
Calcium base liquor	RT	+	n-butyl acetate	RT	+
25 % chlorine solution	RT	+	n-hexane	RT	+
Diesel	RT	+	Phosphoric acid 40 %	RT	+
Diethyl ether	RT	+	Rapseed methyl ester	RT	+
Acetic acid 99 %	RT	+	Reference petrol C, ASTM D-471	RT	+
Ethanol	RT	+	Nitric acid 10 %	RT	+
Ethylene glycol	RT	+	Nitric acid 65 %	RT	+
FAM-DIN 51604-A	RT	+	Hydrochloric acid 10 %	RT	+
FAM-DIN 51604-B	RT	+	Hydrochloric acid 37 %	RT	+
FAM-DIN 51604-C	RT	+	Sulphuric acid 10 %	RT	+
Frigene 114 (tetrafluorodichloroethane)	RT	+	Sulphuric acid 37 % (battery acid)	RT	+
Frigene R134 + 5 % Aral Alur EE32	RT	+	Silicone oil	RT	+
Hydraulic fluid	RT	+	Toluol	RT	+
Isopropanol	RT	+	Water 90°C up to 1000 h	90°	+
Potassium chromate 30 %	RT	+	Water, cold	RT	+
Potassium base liquor 45 %	RT	+	Xylene	RT	+
Potassium permanganate 6 % (80°)	RT	o	Zinc chloride solution (50 wt.%)	RT	+
Kerosine	RT	+	Zinc chloride solution 10 %	RT	+
			Citric acid (50 wt.%)	RT	+

+ extremely resistant o moderately resistant RT = Room temperature

The right cover whatever the job

Load classes for drains, covers and upper sections

Drains, covers and upper sections must be properly selected so that they are able to handle the loads at the installation point. The two standards EN 1253-1 (building drains) and EN 124 (upper sections and covers for traffic areas) are applicable here. In cases of doubt, the higher class must always be chosen.

In accordance with EN 1253-1 – inside buildings		In accordance with EN 124 – outside buildings	
K 3	Class K 3 for max. load of 300 kg: Areas without traffic, such as in bathrooms at home, in nursing homes, hotels, schools, swimming baths, public washing and shower facilities, balconies, loggias, patios and green roofs.	A 15	Class A 15 for max. load of 1.5 tonnes: Areas that can only be used by pedestrians and cyclists.
L 15	Class L 15 for max. load of 1.5 tonnes: Areas driven over by light traffic, without forklift trucks, in industrial buildings.	B 125	Class B 125 for max. load of 12.5 tonnes: Pavements, pedestrian areas and comparable areas, parking lots or multi-storey car parks.
M 125	Class M 125 for max. load of 12.5 tonnes: Areas driven over by traffic, such as multi-storey car parks, factories and workshops.	C 250	Class C 250 for max. load of 25 tonnes: Upper sections in the gutter area which, measured from the edge of the kerb, extended up to max. 0.5 m into the road and max. 0.5 m onto the pavement.
		D 400	Class D 400 for max. load of 40 tonnes: Road surfaces (including pedestrian areas), hard shoulders and parking areas which are approved for use by all types of road vehicles.





Project drains

Floor / Roof drains *Ecoguss* Page 163 – 169

Drains made of *Ecoguss* guaranteeing the highest level of safety in the building.

Floor / Roof drains *Practicus* Page 166 – 169

Practicus heavy duty drains, designed for use in public, industrial and private buildings.

Bathroom / Shower drains

Bathroom drains System 125

“The Ultraflat” Page 172 – 177

Minimum installation height for renovation and construction

“The Vertical” Page 174 – 177

Compact drain body with vertical outlet makes it ideal for renovations

Giro Page 174 – 177

The ones with the special twist

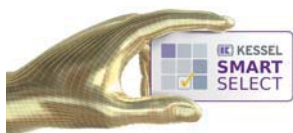
Bathroom drains System 100

“The Superflat” Page 180 – 185

Bathroom drain with flexible outlet and low installation height

Classic Page 182 – 185

Our classical products - compact with high performance



SmartSelect makes planning quite simply quicker - visit smartselect.kessel.com for the configurator for alternative waterproofing options.

Ecoguss is the future – the days of cast iron are over



Ecoguss* the new metallic composite material.** Drains made from ***Ecoguss combine all the advantages of polymer drains, such as low weight and no corrosion, with the advantages of cast iron drains such as sound insulation and heat resistance.



Floor drains ***Ecoguss*** The economic alternative to cast iron drains

FIRE PROTECTION

Fire and smoke protection insert *Fire-Kit* and *Quick-Fit* passage seal with fire protection with approval Z-19.17-1719: *Ecoguss* drains with a vertical outlet can be equipped with the fire protection insert *Fire-Kit*, which is compliant with the highest fire resistance class R 120. Only use *Fire-Kit* in combination with an odour trap.



SOUND PROTECTION

Measurements carried out by the Fraunhofer Institute in Stuttgart:
Ecoguss floor/ceiling drain
 - ≥ 16 dB(A) according to DIN 4109
 - ≥ 14 dB(A) according to VDI 4100 SST III

HYGIENE

Self-cleaning effect due to permanent non-corrosive and smooth surface.

ASSEMBLY

Ecoguss drains are three times lighter than cast iron despite being just as sturdy, thus making transport and installation much easier. There is no longer any need for complex electrical grounding. The drain body requires a core hole with a diameter of only 160 mm.



Floor drains **Practicus** in PP

Self-cleaning effect thanks to corrosion-free and smooth surface

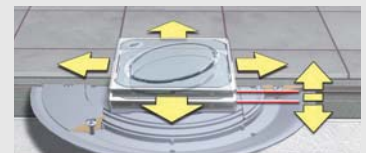
INSTALLATION AID

Cheaper and faster installation for drains with vertical outlet: *Quick-Fit* passage seal for core holes with a diameter of only 160 mm (around 2/3 cost saving). Additional sound decoupling and smoke-tight closure with the version with fire protection with approval Z-19.17-1719.



VARIABLE

Variable upper sections can be twisted, tilted, height-adjusted. In the case of shallow bed upper sections, the covers can also be moved for adaptation to the tile pattern.



PERFECT CONNECTION

Honeycomb structure for perfect integration and stability in concrete.

Ecoguss
Art. # 48 811.63

CONNECTION

Connection to SML pipe in \varnothing 58, 78, 110 and NEW: \varnothing 83.

MODULAR DESIGN

Individual drain composition using the KESSEL modular system.

INSTALLATION EXAMPLE *Ecoguss*



Design the drain you need yourself using our practical matrix order system.

- 1 Select the drain body, lateral or vertical outlet and the diameter...
- 2 Select the matching upper section ...
- 3 The Article # for the matching drain is stated in the respective section.

Drains System 125
Project drains *Ecoguss* with connection flange

Drain body

Ecoguss with connection flange
for connection to SML-pipe, with odour trap 50 mm

Ø	58	78	83	110
B	245	134	134	148
H	120	109	108	92

Upper sections

Shallow bed upper section in ABS, with mesh fabric

Shallow bed upper section in ABS, with mesh fabric

Upper section in ABS

With slotted cover 138 x 138 mm and rim in stainless steel AISI 304, class L 15, screwed
Art. # 48 963

With design cover Kessel 120 x 120 mm and rim in stainless steel AISI 304, class L 15, Lock & Lift System
Art. # 48 904

With design cover Kessel 120 x 120 mm, and rim in stainless steel AISI 304, class L 15, Lock & Lift System
Art. # 48 201

Complete drain comprising a combination of drain body and upper section

Ø 58	48 358.51	48 358.53	48 358.11
Lateral outlet Art. # 48 358	48 458.51	48 458.53	48 458.11
Vertical outlet Art. # 48 458	48 378.51	48 378.53	48 378.11
Ø 78	48 478.51	48 478.53	48 478.11
Lateral outlet Art. # 48 378	48 383.51	48 383.53	48 383.11
Vertical outlet Art. # 48 478	48 483.51	48 483.53	48 483.11
Ø 83	48 483.51	48 483.53	48 483.11
Lateral outlet Art. # 48 383	48 411.51	48 411.53	48 411.11
Vertical outlet Art. # 48 483	48 311.51	48 311.53	48 311.11
Ø 110	48 411.51	48 411.53	48 411.11
Lateral outlet Art. # 48 311	48 311.51	48 311.53	48 311.11
Vertical outlet Art. # 48 411	48 411.51	48 411.53	48 411.11

48 311.53

For other combinations and accessories see modular system page 168 - 169
* 20 mm threshold / 10 mm threshold

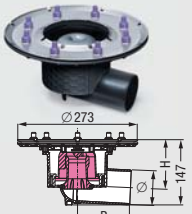
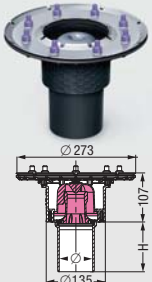

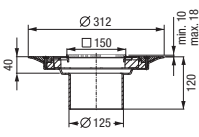

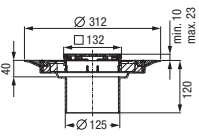

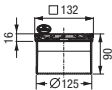

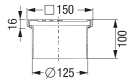
KESSEL

EN 1253-

For other product combinations and accessories, see the modular system at page 168 - 169

Project drains *Ecoguss* with pressure sealing flange

Matrix order system


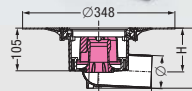

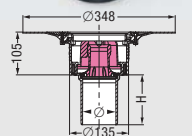
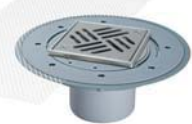
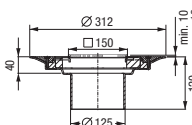

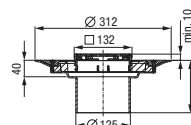

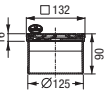

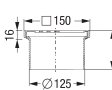
Drain body	Upper sections																												
<p>Ecoguss with pressure sealing flange for connection to SML-pipe, with odour trap 50 mm</p>  <table border="1"> <tr> <td>Ø</td> <td>58</td> <td>78</td> <td>83</td> <td>110</td> </tr> <tr> <td>B</td> <td>245</td> <td>134</td> <td>134</td> <td>148</td> </tr> <tr> <td>H</td> <td>120</td> <td>109</td> <td>108</td> <td>92</td> </tr> </table>  <table border="1"> <tr> <td>Ø</td> <td>58</td> <td>78</td> <td>83</td> <td>110</td> </tr> <tr> <td>H</td> <td>100</td> <td>110</td> <td>110</td> <td>110</td> </tr> </table>	Ø	58	78	83	110	B	245	134	134	148	H	120	109	108	92	Ø	58	78	83	110	H	100	110	110	110	<p>Shallow bed upper section in ABS, with mesh fabric</p>   <p>With slotted cover 138 x 138 mm and rim in stainless steel AISI 304, class L 15, screwed</p> <p>Art. # 48 963</p>	<p>Shallow bed upper section in ABS, with mesh fabric</p>   <p>With design cover Kessel 120 x 120 mm and rim in stainless steel AISI 304, class L 15, Lock & Lift System</p> <p>Art. # 48 904</p>	<p>Upper section in ABS</p>   <p>With design cover Kessel 120 x 120 mm, and rim in stainless steel AISI 304, class L 15, Lock & Lift System</p> <p>Art. # 48 201</p>	<p>Upper section in ABS</p>   <p>With slotted cover 138 x 138 mm in stainless steel AISI 304, class K 3, screwed</p> <p>Art. # 48 950</p>
	Ø	58	78	83	110																								
B	245	134	134	148																									
H	120	109	108	92																									
Ø	58	78	83	110																									
H	100	110	110	110																									
	<p>▼</p>																												
	<p>Complete drain comprising a combination of the drain body and upper section</p>																												
<p>Ø 58</p> <p>Lateral outlet Art. # 48 758</p> <p>Vertical outlet Art. # 48 858</p>	<p>48 758.51</p> <p>48 858.51</p>	<p>48 758.53</p> <p>48 858.53</p>	<p>48 758.63</p> <p>48 858.63</p>	<p>48 758.11</p> <p>48 858.11</p>																									
<p>Ø 78</p> <p>Lateral outlet Art. # 48 778</p> <p>Vertical outlet Art. # 48 878</p>	<p>48 778.51</p> <p>48 878.51</p>	<p>48 778.53</p> <p>48 878.53</p>	<p>48 778.63</p> <p>48 878.63</p>	<p>48 778.11</p> <p>48 878.11</p>																									
<p>Ø 83</p> <p>Lateral outlet Art. # 48 783</p> <p>Vertical outlet Art. # 48 883</p>	<p>48 783.51</p> <p>48 883.51</p>	<p>48 783.53</p> <p>48 883.53</p>	<p>48 783.63</p> <p>48 883.63</p>	<p>48 783.11</p> <p>48 883.11</p>																									
<p>Ø 110</p> <p>Lateral outlet Art. # 48 711</p> <p>Vertical outlet Art. # 48 811</p>	<p>48 711.51</p> <p>48 811.51</p>	<p>48 711.53</p> <p>48 811.53</p>	<p>48 711.63</p> <p>48 811.63</p>	<p>48 711.11</p> <p>48 811.11</p>																									

For other combinations and accessories see modular system page 168 - 169

* 20 mm threshold / 10 mm threshold

Project drains *Ecoguss* with glue flange


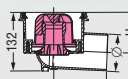

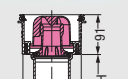

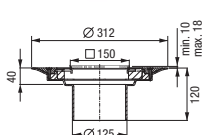

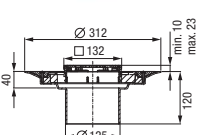

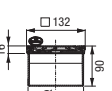

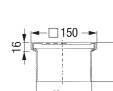
Matrix order system

Drain body	Upper sections																												
<p>Ecoguss with glue flange for connection to SML-pipe, with odour trap 50 mm</p>   <table border="1"> <tr><td>Ø</td><td>58</td><td>78</td><td>83</td><td>110</td></tr> <tr><td>B</td><td>245</td><td>134</td><td>134</td><td>148</td></tr> <tr><td>H</td><td>120</td><td>107</td><td>106</td><td>90</td></tr> </table>   <table border="1"> <tr><td>Ø</td><td>58</td><td>78</td><td>83</td><td>110</td></tr> <tr><td>H</td><td>100</td><td>110</td><td>110</td><td>110</td></tr> </table>	Ø	58	78	83	110	B	245	134	134	148	H	120	107	106	90	Ø	58	78	83	110	H	100	110	110	110	<p>Shallow bed upper section in ABS, with mesh fabric</p>   <p>With slotted cover 138 x 138 mm and rim in stainless steel AISI 304, class L 15, screwed</p> <p>Art. # 48 963</p>	<p>Shallow bed upper section in ABS, with mesh fabric</p>   <p>With design cover <i>Kessel</i> 120 x 120 mm and rim in stainless steel AISI 304, class L 15, Lock & Lift System</p> <p>Art. # 48 904</p>	<p>Upper section in ABS</p>   <p>With design cover <i>Kessel</i> 120 x 120 mm, and rim in stainless steel AISI 304, class L 15, Lock & Lift System</p> <p>Art. # 48 201</p>	<p>Upper section in ABS</p>   <p>With slotted cover 138 x 138 mm in stainless steel AISI 304, class K 3, screwed</p> <p>Art. # 48 950</p>
Ø	58	78	83	110																									
B	245	134	134	148																									
H	120	107	106	90																									
Ø	58	78	83	110																									
H	100	110	110	110																									
<p>Ø 58</p>	<p>Complete drain comprising a combination of the drain body and upper section</p>																												
<p>Lateral outlet Art. # 48 558</p>	<p>48 558.51</p>	<p>48 558.53</p>	<p>48 558.63</p>	<p>48 558.11</p>																									
<p>Vertical outlet Art. # 48 658</p>	<p>48 658.51</p>	<p>48 658.53</p>	<p>48 658.63</p>	<p>48 658.11</p>																									
<p>Ø 78</p>																													
<p>Lateral outlet Art. # 48 578</p>	<p>48 578.51</p>	<p>48 578.53</p>	<p>48 578.63</p>	<p>48 578.11</p>																									
<p>Vertical outlet Art. # 48 678</p>	<p>48 678.51</p>	<p>48 678.53</p>	<p>48 678.63</p>	<p>48 678.11</p>																									
<p>Ø 83</p>																													
<p>Lateral outlet Art. # 48 583</p>	<p>48 583.51</p>	<p>48 583.53</p>	<p>48 583.63</p>	<p>48 583.11</p>																									
<p>Vertical outlet Art. # 48 683</p>	<p>48 683.51</p>	<p>48 683.53</p>	<p>48 683.63</p>	<p>48 683.11</p>																									
<p>Ø 110</p>																													
<p>Lateral outlet Art. # 48 511</p>	<p>48 511.51</p>	<p>48 511.53</p>	<p>48 511.63</p>	<p>48 511.11</p>																									
<p>Vertical outlet Art. # 48 611</p>	<p>48 611.51</p>	<p>48 611.53</p>	<p>48 611.63</p>	<p>48 611.11</p>																									

For other combinations and accessories see modular system page 168 - 169

* 20 mm threshold / 10 mm threshold

Project drains Ecoguss with connection flange **Matrix order system**

Drain body	Upper sections																												
<p>Ecoguss with connection flange for connection to SML-pipe, with odour trap 50 mm</p>   <table border="1" style="width: 100%; text-align: center;"> <tr><td>Ø</td><td>58</td><td>78</td><td>83</td><td>110</td></tr> <tr><td>B</td><td>245</td><td>134</td><td>134</td><td>148</td></tr> <tr><td>H</td><td>120</td><td>109</td><td>108</td><td>92</td></tr> </table>   <table border="1" style="width: 100%; text-align: center;"> <tr><td>Ø</td><td>58</td><td>78</td><td>83</td><td>110</td></tr> <tr><td>H</td><td>100</td><td>110</td><td>110</td><td>110</td></tr> </table>	Ø	58	78	83	110	B	245	134	134	148	H	120	109	108	92	Ø	58	78	83	110	H	100	110	110	110	<p>Shallow bed upper section in ABS, with mesh fabric</p>   <p>With slotted cover 138 x 138 mm and rim in stainless steel AISI 304, class L 15, screwed</p> <p>Art. # 48 963</p>	<p>Shallow bed upper section in ABS, with mesh fabric</p>   <p>With design cover Kessel 120 x 120 mm and rim in stainless steel AISI 304, class L 15, Lock & Lift System</p> <p>Art. # 48 904</p>	<p>Upper section in ABS</p>   <p>With design cover Kessel 120 x 120 mm, and rim in stainless steel AISI 304, class L 15, Lock & Lift System</p> <p>Art. # 48 201</p>	<p>Upper section in ABS</p>   <p>With slotted cover 138 x 138 mm in stainless steel AISI 304, class K 3, screwed</p> <p>Art. # 48 950</p>
Ø	58	78	83	110																									
B	245	134	134	148																									
H	120	109	108	92																									
Ø	58	78	83	110																									
H	100	110	110	110																									
▼	▼	▼	▼	▼																									
Ø 58	Complete drain comprising a combination of the drain body and upper section																												
Lateral outlet Art. # 48 358	48 358.51	48 358.53	48 358.63	48 358.11																									
Vertical outlet Art. # 48 458	48 458.51	48 458.53	48 458.63	48 458.11																									
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Lateral outlet Art. # 48 378	48 378.51	48 378.53	48 378.63	48 378.11																									
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Ø 83																													
Lateral outlet Art. # 48 383	48 383.51	48 383.53	48 383.63	48 383.11																									
Vertical outlet Art. # 48 483	48 483.51	48 483.53	48 483.63	48 483.11																									
Ø 110																													
Lateral outlet Art. # 48 311	48 311.51	48 311.53	48 311.63	48 311.11																									
Vertical outlet Art. # 48 411	48 411.51	48 411.53	48 411.63	48 411.11																									

For other combinations and accessories see modular system page 168 - 169

* 20 mm threshold / 10 mm threshold



Project drains *Practicus* with pressure sealing flange

Matrix order system

Drain body	Upper sections																							
<p><i>Practicus</i>, in PP with pressure sealing flange with odour trap</p> <table border="1"> <tr><td>Ø</td><td>50</td><td>75</td><td>110</td></tr> <tr><td>B</td><td>245</td><td>134</td><td>148</td></tr> <tr><td>H</td><td>120</td><td>107</td><td>90</td></tr> </table> <table border="1"> <tr><td>Ø</td><td>50</td><td>75</td><td>110</td></tr> <tr><td>H</td><td>100</td><td>110</td><td>110</td></tr> </table>	Ø	50	75	110	B	245	134	148	H	120	107	90	Ø	50	75	110	H	100	110	110	<p>Shallow bed upper section in ABS, with mesh fabric</p> <p>With slotted cover 138 x 138 mm and rim in stainless steel AISI 304, class L 15, screwed Art. # 48 963</p>	<p>Shallow bed upper section in ABS, with mesh fabric</p> <p>With design cover <i>Kessel</i> 120 x 120 mm and rim in stainless steel AISI 304, class L 15, <i>Lock & Lift</i> System Art. # 48 904</p>	<p>Upper section in ABS</p> <p>With design cover <i>Kessel</i> 120 x 120 mm, and rim in stainless steel AISI 304, class L 15, <i>Lock & Lift</i> System Art. # 48 201</p>	<p>Upper section in ABS</p> <p>With slotted cover 138 x 138 mm in stainless steel AISI 304, class K 3, screwed Art. # 48 950</p>
Ø	50	75	110																					
B	245	134	148																					
H	120	107	90																					
Ø	50	75	110																					
H	100	110	110																					
<p>Ø 50</p>	<p>Complete drain comprising a combination of the drain body and upper section</p>																							
<p>Lateral outlet Art. # 45 159</p>	<p>45 159.51</p>	<p>45 159.53</p>	<p>45 159.63</p>	<p>45 159.11</p>																				
<p>Vertical outlet Art. # 45 259</p>	<p>45 259.51</p>	<p>45 259.53</p>	<p>45 259.63</p>	<p>45 259.11</p>																				
<p>Ø 75</p>																								
<p>Lateral outlet Art. # 45 179</p>	<p>45 179.51</p>	<p>45 179.53</p>	<p>45 179.63</p>	<p>45 179.11</p>																				
<p>Vertical outlet Art. # 45 279</p>	<p>45 279.51</p>	<p>45 279.53</p>	<p>45 279.63</p>	<p>45 279.11</p>																				
<p>Ø 110</p>																								
<p>Lateral outlet Art. # 45 119</p>	<p>45 119.51</p>	<p>45 119.53</p>	<p>45 119.63</p>	<p>45 119.11</p>																				
<p>Vertical outlet Art. # 45 219</p>	<p>45 219.51</p>	<p>45 219.53</p>	<p>45 219.63</p>	<p>45 219.11</p>																				


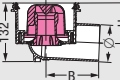

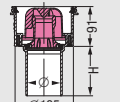

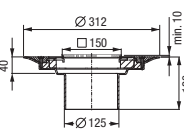

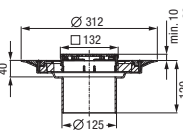

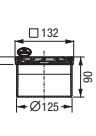

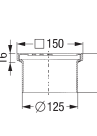
For other combinations and accessories see modular system page 168 - 169



* 20 mm threshold / 10 mm threshold

Project drains *Practicus* with connection flange

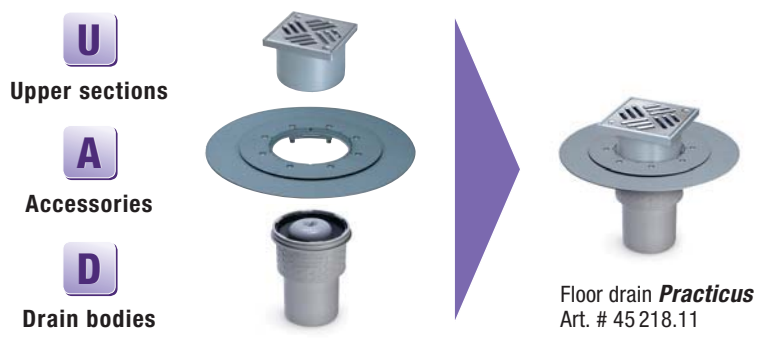
Matrix order system

Drain body	Upper sections																							
<p><i>Practicus</i>, in PP with connection flange with odour trap</p>   <table border="1"> <tr><td>Ø</td><td>50</td><td>75</td><td>110</td></tr> <tr><td>B</td><td>245</td><td>134</td><td>148</td></tr> <tr><td>H</td><td>120</td><td>109</td><td>92</td></tr> </table>   <table border="1"> <tr><td>Ø</td><td>50</td><td>75</td><td>110</td></tr> <tr><td>H</td><td>100</td><td>110</td><td>110</td></tr> </table>	Ø	50	75	110	B	245	134	148	H	120	109	92	Ø	50	75	110	H	100	110	110	<p>Shallow bed upper section in ABS, with mesh fabric</p>   <p>With slotted cover 138 x 138 mm and rim in stainless steel AISI 304, class L 15, screwed</p> <p>Art. # 48 963</p>	<p>Shallow bed upper section in ABS, with mesh fabric</p>   <p>With design cover <i>Kessel</i> 120 x 120 mm and rim in stainless steel AISI 304, class L 15, <i>Lock & Lift System</i></p> <p>Art. # 48 904</p>	<p>Upper section in ABS</p>   <p>With design cover <i>Kessel</i> 120 x 120 mm, and rim in stainless steel AISI 304, class L 15, <i>Lock & Lift System</i></p> <p>Art. # 48 201</p>	<p>Upper section in ABS</p>   <p>With slotted cover 138 x 138 mm in stainless steel AISI 304, class K 3, screwed</p> <p>Art. # 48 950</p>
Ø	50	75	110																					
B	245	134	148																					
H	120	109	92																					
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H	100	110	110																					
<p>Ø 50</p>	<p>Complete drain comprising a combination of the drain body and upper section</p>																							
<p>Lateral outlet Art. # 45 150</p>	<p>45 150.51</p>	<p>45 150.53</p>	<p>45 150.63</p>	<p>45 150.11</p>																				
<p>Vertical outlet Art. # 45 250</p>	<p>45 250.51</p>	<p>45 250.53</p>	<p>45 250.63</p>	<p>45 250.11</p>																				
<p>Ø 75</p>																								
<p>Lateral outlet Art. # 45 170</p>	<p>45 170.51</p>	<p>45 170.53</p>	<p>45 170.63</p>	<p>45 170.11</p>																				
<p>Vertical outlet Art. # 45 270</p>	<p>45 270.51</p>	<p>45 270.53</p>	<p>45 270.63</p>	<p>45 270.11</p>																				
<p>Ø 110</p>																								
<p>Lateral outlet Art. # 45 110</p>	<p>45 110.51</p>	<p>45 110.53</p>	<p>45 110.63</p>	<p>45 110.11</p>																				
<p>Vertical outlet Art. # 45 210</p>	<p>45 210.51</p>	<p>45 210.53</p>	<p>45 210.63</p>	<p>45 210.11</p>																				



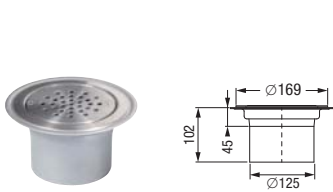
For other combinations and accessories see modular system page 168 - 169

* 20 mm threshold / 10 mm threshold



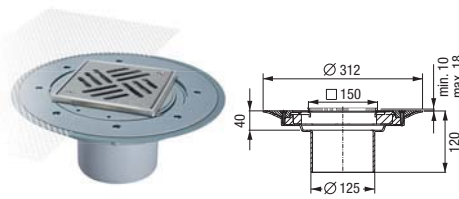
Upper section for PVC floorings

Variofix shallow bed upper sections



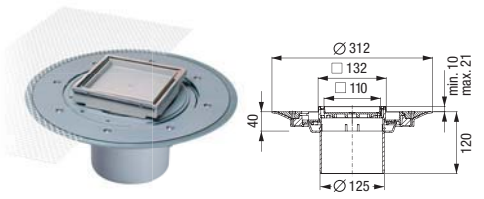
in stainless steel AISI 304

with cover \varnothing 133 mm
in stainless steel AISI 304,
class L 15, screwed.
For use with 1-4 mm PVC / vinyl flooring.
Art. # 59 192
Custom made product (delivery time on request)



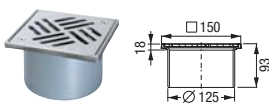
in ABS, incl. mesh fabric

with slotted cover/rim \square 138 mm
in stainless steel,
class L 15, screwed.
For tile thickness of 8-16 mm.
AISI 304 Art. # 48 963
AISI 316L Art. # 48 206



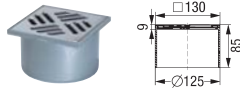
with recessed polymer cover
for on-site tiling \square 110 mm
rim in stainless steel,
class K 3, with locking system
AISI 304 Art. # 48 906
AISI 316L Art. # 48 208

Upper sections



in ABS...

with slotted cover/rim
 \square 138 mm
in stainless steel
screwed, class L 15
AISI 304 Art. # 48 951
AISI 316L Art. # 48 205



in ABS...

with slotted cover
 \square 120 mm
in stainless steel AISI 304
class K 3
Art. # 48 165



in ABS...

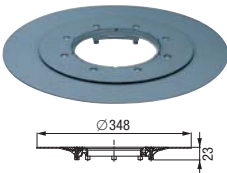
with slotted cover \square 138 mm, class K 3,
in stainless steel,
screwed
in ABS,
black
AISI 304 Art. # 48 950
AISI 316L Art. # 48 209
Art. # 48 193



in ABS, tileable...

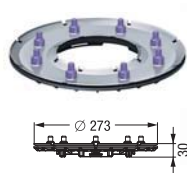
\square 110 mm, made of polymer, class K 3
with rim
in stainless steel
with rim
in polymer
AISI 304 Art. # 48 211
AISI 316L Art. # 48 207
Art. # 48 210

Accessories



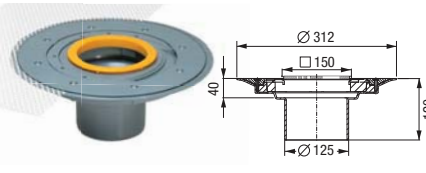
Waterproofing flange

with counter flange, in ABS,
 \varnothing 348 mm (also for compound seal)
Art.Nr. 48 410
can be combined with drain bodies
and extension sections



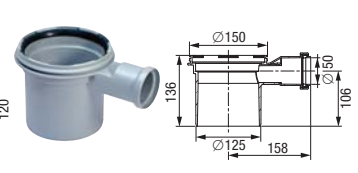
Pressure sealing flange

in stainless steel AISI 304, \varnothing 273 mm,
with seeping water opening
Art. # 48 402
can be combined with drain bodies
and extension sections



Intermediate section with glue flange

in ABS, for shallow bed gasket
incl. mesh fabric
Art. # 48 900



Extension section

in PP, with lip seal
without lateral inlet
Art. # 48 987
with lateral inlet \varnothing 50
Art. # 48 989

Mesh fabric
for Art. # 48 410
Art. # 680 351

Elastomer waterproof membrane in NBR
for Art. # 48 402
Art. # 48 981

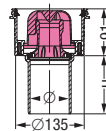
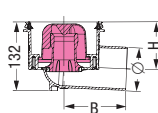
Drain bodies *Ecoguss* and *Practicus*

All drain bodies:
1.8 l/sec / 1.1 l/sec* flow rate
Sealing water height 50 mm



Ecoguss

with removable odour trap



Lateral outlet			
\varnothing	B	H	Article #
58	245	120	48 358
78	134	109	48 378
83	134	108	48 383
110	148	92	48 311
Vertical outlet			
58	100		48 458
78	110		48 478
83	110		48 483
110	110		48 411

* 20 mm threshold / 10 mm threshold

Modular system with covers in stainless steel AISI 304 / AISI 316L

Variofix shallow bed upper sections with design cover



in ABS, incl. mesh fabric

design covers □ 120 mm and rim in stainless steel, class K 3 / L 15. For tile thickness of 8-21 mm, with or without Lock & Lift System

			Kessel (Cl. L 15)	Oval (Cl. L 15)	Spot (Cl. K 3)	Cross (Cl. K 3)	Festival (Cl. K 3)	Parade (Cl. K 3)	Slot (Cl. K 3)	Sticks (Cl. K 3)
with Lock & Lift...	AISI 304	Art. #	48 904	48 905	48 621	48 613	48 615	48 624	48 619	48 617
	AISI 316L	Art. #	48 204	-	-	-	-	-	-	-
without Lock & Lift...	AISI 304	Art. #	48 625	48 626	48 620	48 612	48 614	48 623	48 618	48 616

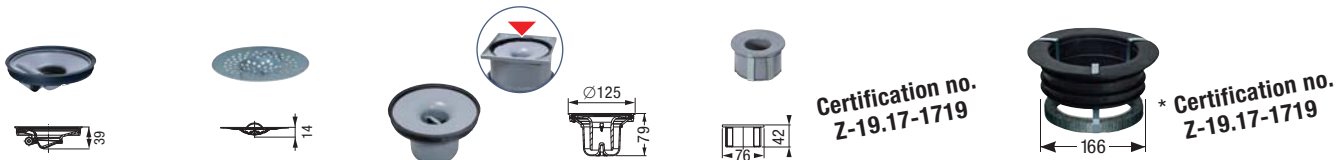
Upper section with design cover



in ABS

design covers □ 120 mm and rim in stainless steel, class K 3 / L 15 with or without Lock & Lift System

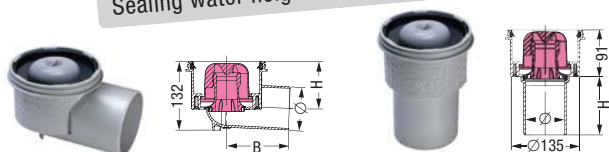
			Kessel (Cl. L 15)	Oval (Cl. L 15)	Spot (Cl. K 3)	Cross (Cl. K 3)	Festival (Cl. K 3)	Parade (Cl. K 3)	Slot (Cl. K 3)	Sticks (Cl. K 3)
with Lock & Lift...	AISI 304	Art. #	48 201	48 202	48 221	48 213	48 215	48 224	48 219	48 217
	AISI 316L	Art. #	48 203	-	-	-	-	-	-	-
without Lock & Lift...	AISI 304	Art. #	48 225	48 226	48 220	48 212	48 214	48 223	48 218	48 216



Multistop	Hair filter	Odour trap	Fire-Kit Fire protection insert	Quick-Fit the passage seal
odour, foam, rodent and insect stop Art. # 48 500	made of polymer Art. # 48 700	for all upper sections System 125, sealing water height 50 mm according to norm Art. # 48 600 Not in combination with tilable upper sections	Only for <i>Ecoguss / Practicus</i> drains with vertical outlet and odour trap Ø 58/78/83 Art. # 48 099 Ø 50/75 Art. # 48 099 Ø 110 Art. # 48 100	for core drillings for drain bodies with vertical outlet *with fire protection Art. # 48 990 (only in combination with <i>Fire-Kit</i> protection insert) without fire protection Art. # 48 991

Sludge trap
Art. # **48 168** see page 177

All drain bodies:
1.8 l/sec / 1.1 l/sec* flow rate
Sealing water height 50 mm

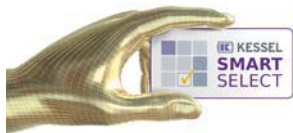


Practicus in PP
with removable odour trap
* 20 mm threshold / 10 mm threshold

Lateral outlet			
Ø	B	H	Article #
50	245	120	45 150
75	134	109	45 170
110	148	92	45 110
Vertical outlet			
50	100	45 250	
75	110	45 270	
110	110	45 210	



Insulating body
fits all *Ecoguss / Practicus* drain bodies with vertical outlet
Art. # **48 952**



SmartSelect makes planning quite simply quicker - visit smartselect.kessel.com for the configurator for alternative waterproofing options.

The bathroom drain collection System 125



The bathroom drains **“The Vertical”** and **“The Ultraflat”** are ideal for renovating existing buildings and have numerous advantages thanks to the range of waterproofing layer types for all floor structures.

New: drains with shallow bed upper sections and upper sections with covers made of AISI 316L stainless steel for aggressive media.



Bathroom drain **“The Vertical”**
 compact drain body with vertical outlet makes it ideal for renovations

INSTALLATION of “The Ultraflat” bathroom drain

EXTREMELY LOW HEIGHT

Overall installation height with flange including cover 69 mm, up to top edge of flange only 54 mm.



CAN BE SHORTENED

Upper sections can be shortened up to a minimum installation height.

SHALLOW BED WATERPROOFING LAYER

Including mesh fabric for shallow bed waterproofing layer on site.



...for shallow bed sealing



...with connection flange



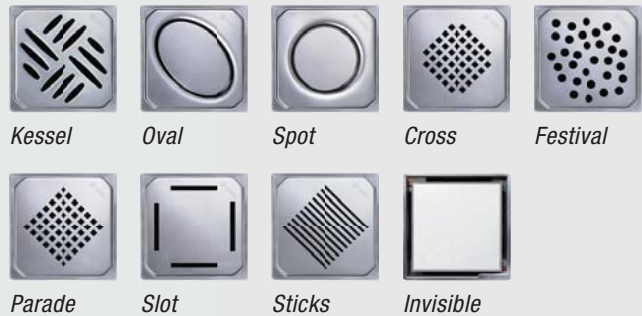
...with glue flange

Bathroom drains *"The Ultraflat"*

minimum installation height, ideal for renovation work and new constructions

DESIGN COVERS FOR BATHROOM DRAINS

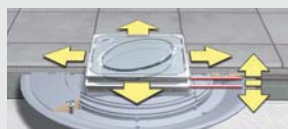
Eight different covers made of stainless steel and one tilable version. Each with or without *Lock & Lift* system.



"The Ultraflat"
Art. # 45 750.20

VARIABLE

Variable upper sections can be twisted, tilted, height-adjusted. In the case of shallow bed upper sections, the covers can also be moved for matching to the tile pattern.



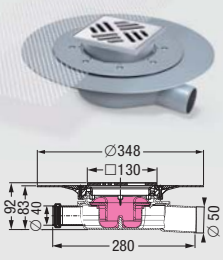
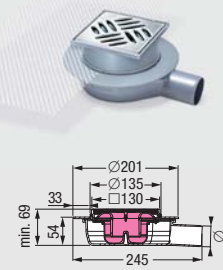
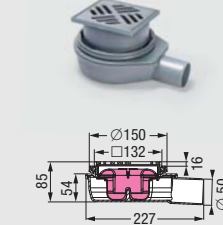
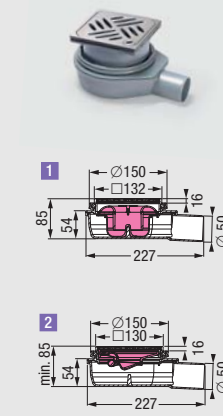
SEEPAGE WATER OPENING

For discharging water that has seeped into the floor structure.

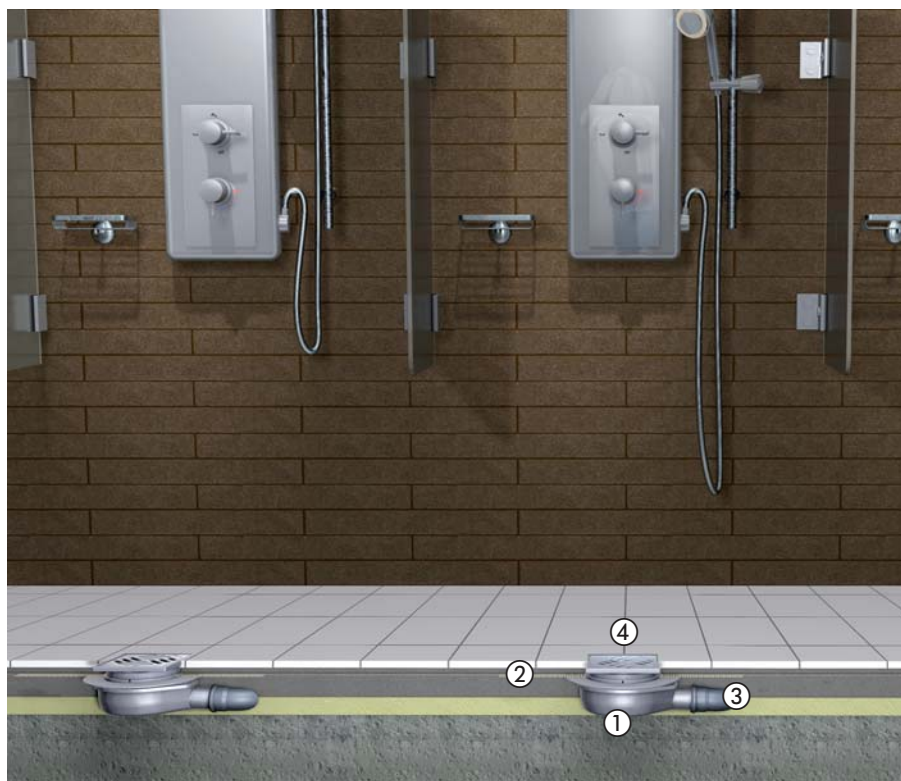
Multistop

Ideal odour trap for drains that dry out frequently. Can be retrofitted to installed drains.

"The Ultraflat"

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
 <p>1.0 l/sec flow rate Installation area 350 x 350 mm</p>	<p>Bathroom drain "The Ultraflat" in ABS With lateral outlet and one lateral inlet Ø 40, with removable odour trap, glue flange and mesh fabric for shallow bed seal With upper section in ABS</p> <p><input type="checkbox"/> with slotted cover 120 x 120 mm in stainless steel AISI 304, screwed, class K 3 (able to withstand loads up to max. 300 kg).</p> <p>Upper sections can be shortened up to a minimum installation height of 92 mm.</p>	<p>Ø 50</p>	<p>45 700.91</p>
 <p>Flow rate 1 Ø 40: 0.6 l/sec 2 Ø 50: 1 l/sec Installation area 300 x 300 mm</p>	<p>Bathroom drain "The Ultraflat" in ABS for shallow bed gasket with lowest installation height sound-absorbing, Ø ... lateral outlet 2.5°</p> <p>with removable odour trap, flange and mesh fabric for shallow bed seal With upper section in ABS</p> <p><input type="checkbox"/> with slotted cover 120 x 120 mm in stainless steel AISI 304, class K 3 (able to withstand loads up to max. 300 kg).</p> <p>Upper sections can be shortened up to a minimum installation height of 69 mm.</p>	<p>1 Ø 40 2 Ø 50</p>	<p>45 740.20 45 750.20</p>
 <p>1.0 l/sec flow rate Installation area 250 x 300 mm</p>	<p>Bathroom drain "The Ultraflat" in ABS sound-absorbing, Ø 50 lateral outlet 2.5°</p> <p>with odour trap and lip seal. With upper section in ABS</p> <p><input type="checkbox"/> with slotted cover 120 x 120 mm in stainless steel AISI 304, class K 3 (able to withstand loads up to max. 300 kg).</p> <p>Upper sections can be shortened up to a minimum installation height of 69 mm.</p>	<p>Ø 50</p>	<p>45 700.20</p>
 <p>Flow rate 1 Ø 50: 1.0 l/sec 2 Ø 50: 0.9 l/sec Installation area 250 x 300 mm</p>	<p>Bathroom drain "The Ultraflat" in ABS sound-absorbing, Ø 50 lateral outlet 2.5°</p> <p>With upper section in ABS</p> <p>1 with odour trap, with lip seal. with design cover Kessel 120 x 120 mm and rim in stainless steel AISI 304, with Lock & Lift System, class L 15 (able to withstand loads up to max. 1.5 tons).</p> <p>Additional design covers see page 133</p> <p>2 with Multistop: Odour, foam, rodent and insect stop with cover in stainless steel AISI 304 120 x 120 mm Class K 3 (able to withstand loads up to max. 300 kg).</p> <p>Upper sections can be shortened up to a minimum installation height of 85 mm.</p>	<p>1 Ø 50 2 Ø 50</p>	<p>45 700.63 45 700.71</p>

Installation example *"The Ultraflat"*



- ① "The Ultraflat" bathroom drain
- ② Mesh fabric
- ③ Drain pipe
- ④ Cover

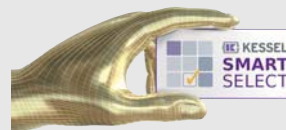
Thanks to its minimum overall installation height, *"The Ultraflat"* bathroom drain is particularly suitable for flush-to-floor showers, which are one of the latest trends. Body and upper section together are only 69 millimetres high and are thus also suitable for retrofitting. Connection to the shallow bed waterproofing layer is by means of a mesh fabric on the drain flange. The wastewater collected is routed to the drain pipe via the Ø 40 or 50 outlets. The drain looks impressive too: *"The Ultraflat"* can be combined with any of the System 125 upper sections - tilable, slotted cover or one of the award-winning design covers.

Professional advantages

- **Minimum installation height 69 mm**
- ideal for renovation work in existing buildings
- Also suitable for flush-to-floor showers thanks to the **high draining** capacity of up to 1 litre per second.
- With **removable odour trap** - full access for maintenance and cleaning
- With slotted cover made of AISI 304 stainless steel - timeless design combined with durable material.
- **Flexible modular system** with a large number of design covers (see page 176 - 177).
- *Multistop* accessory - ideal odour, foam and rodent protection for drains that dry out frequently.
- **Variable upper section** rotatable, tiltable and height adjustable
- Select, plan and visualize your own personalized KESSEL Design shower drainage system using the KESSEL Shower Drain Configurator at



www.kessel-design.com

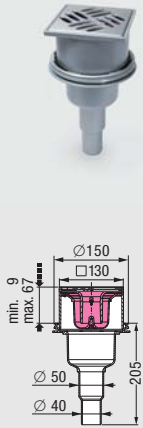




SmartSelect makes planning quite simply quicker - visit smartselect.kessel.com for the configurator for alternative waterproofing options.



Bathroom drains

System 125

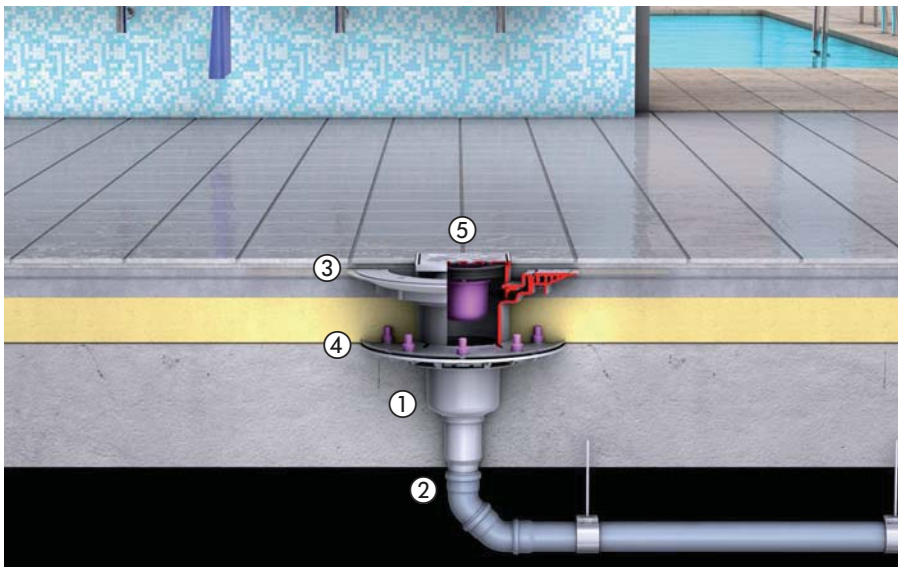
"The Vertical"

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
 <p data-bbox="177 1072 475 1126">1.2 l/sec flow rate Installation area 160 x 160 mm</p>   <p data-bbox="683 1099 788 1126">EN 1253-1</p>	<p data-bbox="560 315 938 432">Bathroom drain "The Vertical" in ABS With vertical outlet Ø 40/50, with removable odour trap With upper section in ABS</p> <p data-bbox="560 443 948 546"><input type="checkbox"/> with slotted cover 120 x 120 mm in stainless steel AISI 304, class K 3 (able to withstand loads up to max. 300 kg).</p> <p data-bbox="560 568 927 622">Upper sections can be shortened up to a minimum installation height.</p>	<p data-bbox="1123 315 1209 342">Ø 40/50</p>	<p data-bbox="1347 315 1445 342">45 254.20</p>

Giro

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
 <p data-bbox="177 2067 475 2121">1.3 l/sec flow rate Installation area 350 x 250 mm</p>  <p data-bbox="624 2094 708 2121">EN 1253</p>	<p data-bbox="560 1310 948 1464">Bathroom drain Giro in PP sound-absorbing, Ø 50, flexible outlet, with rotatable lateral inlet Ø 50, with removable odour trap, fixed lip seal</p> <p data-bbox="560 1476 826 1503">With upper section in ABS</p> <p data-bbox="560 1514 948 1594"><input type="checkbox"/> with slotted cover 120 x 120 mm class K 3 (able to withstand loads up to max. 300 kg).</p> <p data-bbox="560 1617 927 1671">Upper sections can be shortened up to a minimum installation height.</p>	<p data-bbox="1139 1310 1209 1337">Ø 50</p>	<p data-bbox="1347 1310 1445 1337">45 101.20</p>

Installation example "The Vertical"

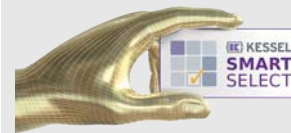


- ① "The Vertical" bathroom drain
- ② Outlet
- ③ Adhesive flange
- ④ Pressure sealing flange
- ⑤ Cover

Thanks to its compact body, "The Vertical" bathroom drain is particularly suitable for renovation work. It has a vertical outlet \varnothing 40 mm which can be cut off and widened to \varnothing 50 mm. The upper sealing level serves as a waterproofing layer against seeping water and is connected by means of an adhesive flange for example. The lower waterproofing layer against water load is connected by means of a pressure sealing flange. The cover is a slotted stainless steel cover - but "The Vertical" drain can also be combined with any other upper section from the System 125 range.

Professional advantages

- **Compact drain body** - ideal for renovation work.
- Also suitable for flush-to-floor showers thanks to the **high draining** capacity of up to 1 litre per second.
- With **removable odour trap** - full access for maintenance and cleaning
- With slotted cover made of AISI 304 stainless steel - timeless design combined with durable material.
- *Multistop* accessory - ideal odour, foam and rodent protection for drains that dry out frequently.
- **Flexible modular system** with a large number of design covers (see page 176 - 177).



SmartSelect makes planning quite simply quicker - visit smartselect.kessel.com for the configurator for alternative waterproofing options.

Installation example Giro



- ① Giro bathroom drain
- ② Inlet
- ③ Outlet

The *Giro* bathroom drain has an inlet at the side which can be turned through 360 degrees and can thus be used flexibly during drainage planning. It also has a flexible outlet with sound decoupling which has a diameter of 50 mm.

Professional advantages

- **Variable upper section**
rotatable, tiltable and height adjustable
- **Flexible outlet** with sound absorption
- **Sound-absorbing**
- With **removable odour trap** - full access for maintenance and cleaning
- **Sealing system safe to install**
The fixed lip seal reliably prevents the upper section from slipping
- Select, plan and visualize your own personalized KESSEL Design shower drainage system using the KESSEL Shower Drain Configurator at

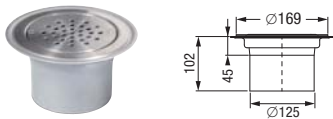


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Bathroom drains "The Ultraflat" and "The Vertical" System 125

Upper section for PVC floorings

Variofix shallow bed upper sections

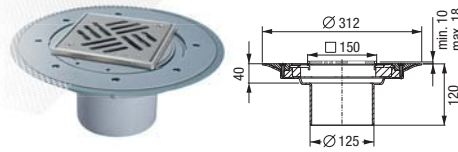


in stainless steel AISI 304

with cover \varnothing 133 mm
in stainless steel AISI 304,
class L 15, screwed.
For use with 1-4 mm PVC / vinyl flooring.

Art. # 59 192

not in combination with drain body "The Ultraflat"
Custom made product (delivery time on request)

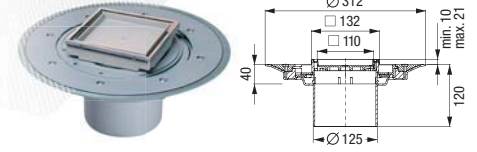


in ABS, incl. mesh fabric

with slotted cover/rim \square 138 mm
in stainless steel,
class L 15, screwed.
For tile thickness of 8-16 mm.

AISI 304 Art. # 48 963

AISI 316L Art. # 48 206

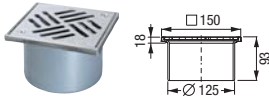


with recessed polymer cover
for on-site tiling \square 110 mm
rim in stainless steel,
class K 3, with locking system

AISI 304 Art. # 48 906

AISI 316L Art. # 48 208

Upper sections

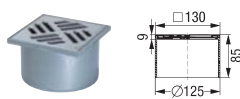


in ABS...

with slotted cover/rim
 \square 138 mm
in stainless steel
screwed, class L 15

AISI 304 Art. # 48 951

AISI 316L Art. # 48 205



in ABS...

with slotted cover
 \square 120 mm
in stainless steel AISI 304
class K 3

Art. # 48 165



in ABS...

with slotted cover \square 138 mm, class K 3,
in stainless steel,
screwed

AISI 304 Art. # 48 950

AISI 316L Art. # 48 209

**in ABS,
black**

Art. # 48 193



in ABS, tileable...

\square 110 mm, made of polymer, class K 3

with rim
in stainless steel

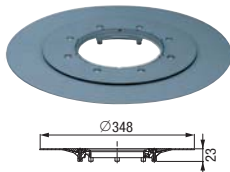
AISI 304 Art. # 48 211

AISI 316L Art. # 48 207

with rim
in polymer

Art. # 48 210

Accessories

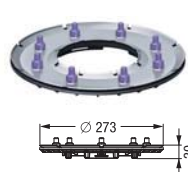


Waterproofing flange with counter flange

in ABS, \varnothing 348 mm (also for compound seal)

Art.Nr. 48 410

can be combined with drain bodies and extension sections

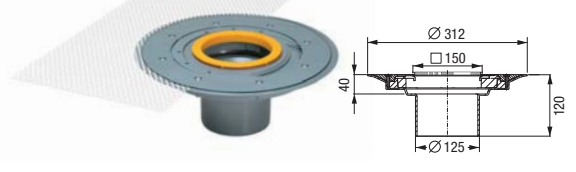


Pressure sealing flange

in stainless steel AISI 304, \varnothing 273 mm,
with seeping water opening

Art. # 48 402

can be combined with drain bodies and extension sections



Intermediate section with glue flange

in ABS, for shallow bed gasket
incl. mesh fabric

Art. # 48 900

Mesh fabric for Art. # 48 410

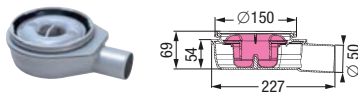
Art. # 680 351

Elastomer waterproof membrane in NBR for Art. # 48 402

Art. # 48 981

Drain bodies

1.0 l/sec flow rate *)
Sealing water height 30 mm



"The Ultraflat" in ABS

with removable odour trap

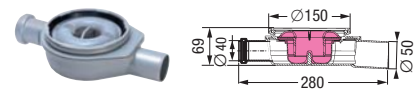
Lateral outlet \varnothing 50

Art. # 45 700

Lateral outlet \varnothing 75

Art. # 45 770

1.0 l/sec flow rate *)
Sealing water height 30 mm



"The Ultraflat" in ABS

with removable odour trap

with lateral inlet \varnothing 40,
lateral outlet \varnothing 50

Art. # 45 701

Modular system with covers in stainless steel AISI 304 / AISI 316L

Variofix shallow bed upper sections with design cover



in ABS, incl. mesh fabric

design covers □ 120 mm and rim in stainless steel, class K 3 / L 15. For tile thickness of 8-21 mm, with or without Lock & Lift System

			Kessel (Cl. L 15)	Oval (Cl. L 15)	Spot (Cl. K 3)	Cross (Cl. K 3)	Festival (Cl. K 3)	Parade (Cl. K 3)	Slot (Cl. K 3)	Sticks (Cl. K 3)
with Lock & Lift...	AISI 304	Art. #	48 904	48 905	48 621	48 613	48 615	48 624	48 619	48 617
	AISI 316L	Art. #	48 204	-	-	-	-	-	-	-
without Lock & Lift...	AISI 304	Art. #	48 625	48 626	48 620	48 612	48 614	48 623	48 618	48 616

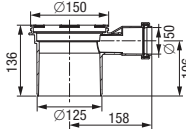
Upper section with design cover



in ABS

design covers □ 120 mm and rim in stainless steel, class K 3 / L 15 with or without Lock & Lift System

			Kessel (Cl. L 15)	Oval (Cl. L 15)	Spot (Cl. K 3)	Cross (Cl. K 3)	Festival (Cl. K 3)	Parade (Cl. K 3)	Slot (Cl. K 3)	Sticks (Cl. K 3)
with Lock & Lift...	AISI 304	Art. #	48 201	48 202	48 221	48 213	48 215	48 224	48 219	48 217
	AISI 316L	Art. #	48 203	-	-	-	-	-	-	-
without Lock & Lift...	AISI 304	Art. #	48 225	48 226	48 220	48 212	48 214	48 223	48 218	48 216



Extension section

in PP, with lip seal
without lateral inlet
Art. # 48 987
with lateral inlet \varnothing 50
Art. # 48 989

Multistop

odour, foam, rodent
and insect stop
Art. # 48 500

Hair filter

made of polymer
Art. # 48 700

Sludge trap

made of polymer
Art. # 48 168

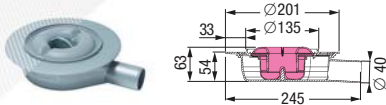
Odour trap

for all upper sections System 125,
sealing water height 50 mm
according to norm
Art. # 48 600
Not in combination
with tilable upper sections

0.6 l/sec flow rate *)
Sealing water height 30 mm

1.0 l/sec flow rate *)
Sealing water height 30 mm

*) according to EN 1253-1 - 20 mm threshold



"The Ultraflat" in ABS

with sealing flange for shallow bed gasket,
with removable odour trap
Lateral outlet \varnothing 40,
Art. # 45 740

Lateral outlet \varnothing 50,
Art. # 45 750

1.2 l/sec flow rate *)
Sealing water height 50 mm



"The Vertical" in ABS

Vertical outlet \varnothing 50/40
with removable odour trap*
fits all upper sections System 125
Art. # 45 254

* Not in combination with tilable upper sections



SmartSelect makes planning quite simply quicker - visit smartselect.kessel.com for the configurator for alternative waterproofing options.

The bathroom drain collection System 100



"The Superflat" and *Classic* bathroom drains are designed for bathrooms, showers, spa and wellness oases for private, commercial and public use installed in new, converted or renovated buildings.

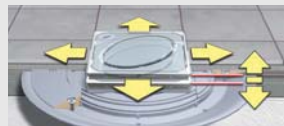


...with shallow bed gasket

Bathroom drains *"The Superflat"*
for low installation heights - 95 mm

ADJUSTABLE

Adjustable upper sections can be twisted, tilted and height-adjusted. In the case of shallow bed upper sections, the covers can also be moved for adaptation to the tile pattern.



CAN BE SHORTENED

Upper sections can be shortened down to the minimum installation height.

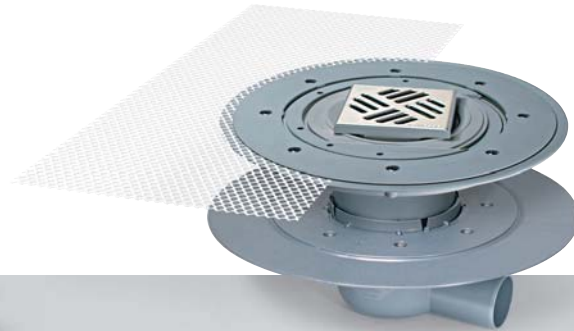


SAFE INSTALLATION

The fixed lip seal reliably prevents the upper section from slipping.



...with connection flange



...with twin sealing flanges

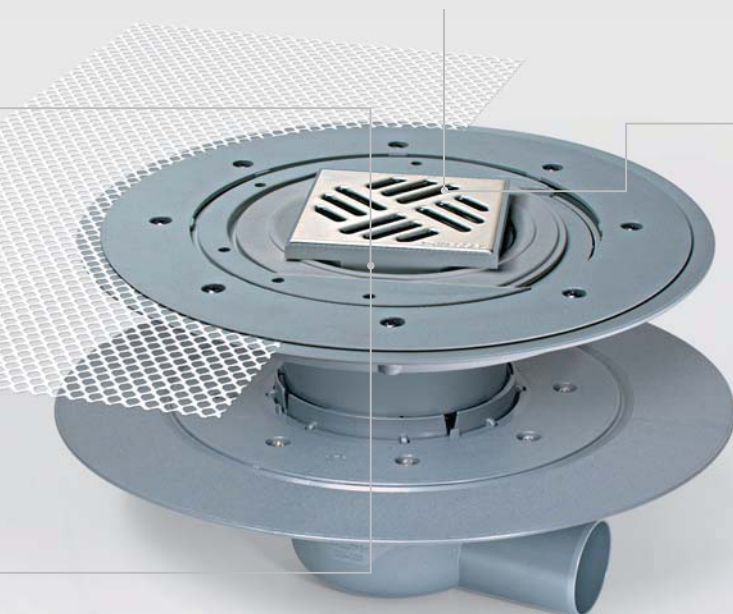
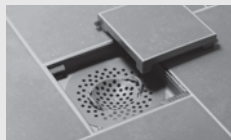


...with glue flange

Bathroom drains **"The Superflat"**
with additional inlet

Bathroom drains **Classic**
compact and high performance

HAIR FILTER
To prevent blockages



Classic
Art. # 40 159.50

DESIGN COVERS FOR BATHROOM DRAINS

Eight different covers made of stainless steel and one tileable version. Each with or without Lock & Lift system.



Kessel



Oval



Spot



Cross



Festival



Parade



Slot



Sticks



Invisible

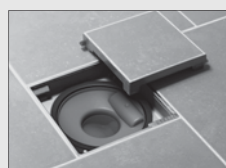
AWARD-WINNING

The award-winning design covers combine aesthetics and technology at the highest level.

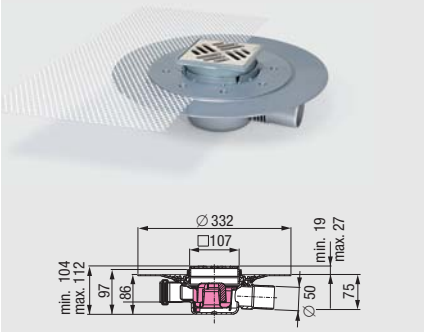
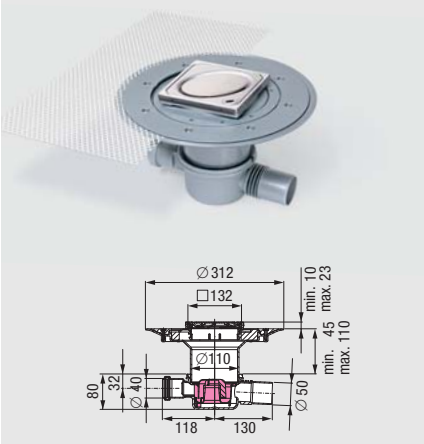
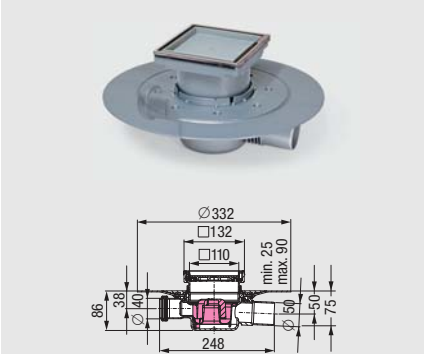
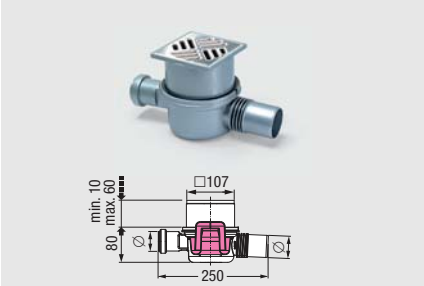


MULTISTOP

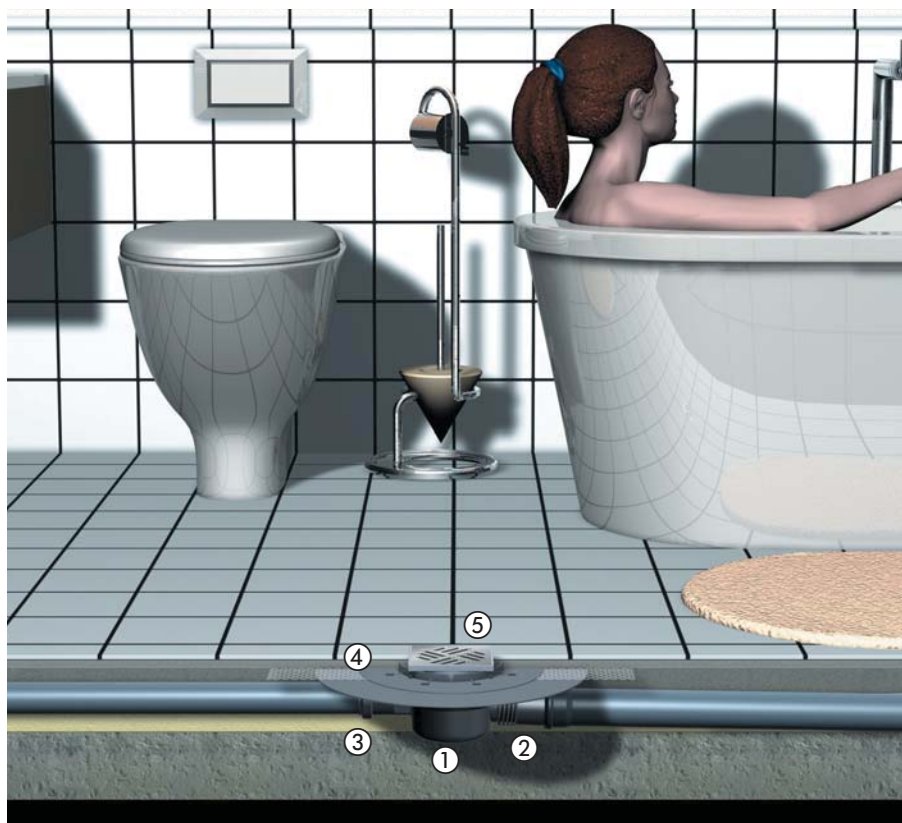
Ideal odour trap for drains that dry out frequently. Can be retrofitted to installed drains.



"The Superflat"

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
 <p>0.8 l/sec flow rate Installation area 260 x 180 mm</p>	<p>Bathroom drain "The Superflat" in PP for shallow bed gasket with lowest installation height sound-absorbing, Ø 50 flexible lateral outlet 2.5°, with lateral inlet Ø 40 and fixed lip seal. With removable odour trap, glue flange with mesh fabric for shallow bed sealing With upper section in ABS</p> <p><input type="checkbox"/> with slotted cover 100 x 100 mm in stainless steel AISI 304, class K 3 (able to withstand loads up to max. 300 kg).</p>	<p>Ø 50</p>	<p>42 701.91</p>
 <p>Illustration shows design cover Oval</p> <p>0.8 l/sec flow rate Installation area 260 x 180 mm</p>	<p>Bathroom drain "The Superflat" in PP sound-absorbing, Ø 50 flexible lateral outlet 2.5°, with lateral inlet Ø 40 and fixed lip seal. With Variofix shallow bed upper section in ABS, with removable odour trap, with mesh fabric for shallow bed sealing</p> <p>1 with design cover Oval 120 x 120 mm and rim in stainless steel AISI 304, for tile thicknesses of 8-21 mm, class L 15 (able to withstand loads up to max. 1.5 to), with <i>Lock & Lift</i> System.</p> <p>2 with standard slotted cover 95 x 95 mm in stainless steel AISI 304, for tile thicknesses of 6-14 mm, class K 3 (able to withstand loads up to max. 300 kg).</p>	<p>Ø 50</p> <p>Ø 50</p>	<p>42 701.54</p> <p>42 701.50</p>
 <p>0.8 l/sec flow rate Installation area 260 x 180 mm</p>	<p>Bathroom drain "The Superflat" in PP sound-absorbing, Ø 50 flexible lateral outlet 2.5°, with lateral inlet Ø 40 and fixed lip seal. With removable odour trap, with glue flange and counter flange</p> <p>With upper section in ABS</p> <p><input type="checkbox"/> with recessed polymer drain cover for on-site tiling 110 x 110 mm and rim in stainless steel AISI 304, class K 3 (able to withstand loads up to max. 300 kg), with locking system, for tile thickness up to 10 mm.</p>	<p>Ø 50</p>	<p>42 701.95</p>
 <p>0.8 l/sec flow rate Installation area 260 x 180 mm</p>	<p>Bathroom drain "The Superflat" in PP sound-absorbing, Ø 50 flexible lateral outlet 2.5°, with lateral inlet Ø 40 and fixed lip seal. With removable odour trap</p> <p>With upper section in ABS</p> <p><input type="checkbox"/> with slotted cover 100 x 100 mm in stainless steel AISI 304, min. installation height 90 mm, class K 3 (able to withstand loads up to max. 300 kg).</p>	<p>Ø 50</p>	<p>42 701.20</p>

Installation example *"The Superflat"*



- | | |
|----------------------------------|-------------------|
| ① "The Superflat" bathroom drain | ④ Adhesive flange |
| ② Outlet | ⑤ Cover |
| ③ Inlet | |

With its installation height of only 95 mm *"The Superflat"* bathroom drain is ideally suitable for both new buildings and renovation work. It has a flexible horizontal outlet \varnothing 50 mm with sound decoupling and a lateral inlet \varnothing 40 mm for the connection of other drainage fixtures. There is an adhesive flange available as an option for humidity sealing. The cover is a slotted stainless steel cover - but *"The Superflat"* drain can also be combined with any other upper section from the System 100 range.

Professional advantages

- **Variable upper section**
rotatable, tiltable and height adjustable
- **Minimum installation height**
- **Flexible outlet** with sound absorption
- With **removable odour** trap - full access for maintenance and cleaning
- Versions with single or triple inlets.
- **Flexible modular system** with a large number of design covers (see page 184 - 185).
- **Sealing system safe to install**
The fixed lip seal reliably prevents the upper section from slipping
- Select, plan and visualize your own personalized KESSEL Design shower drainage system using the KESSEL Shower Drain Configurator at

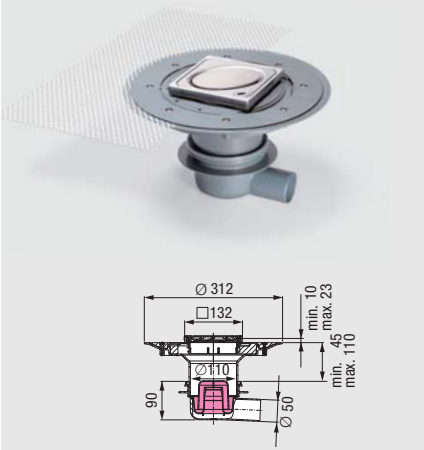

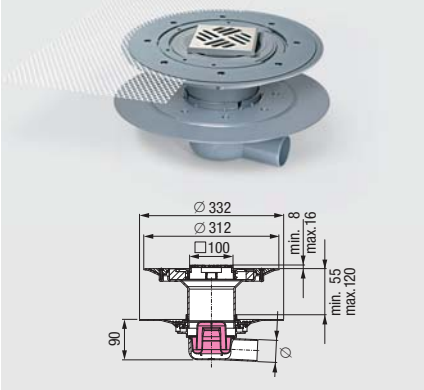

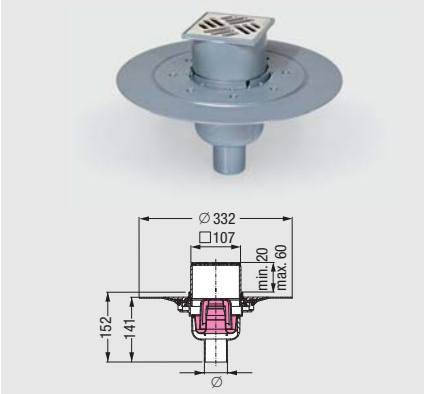



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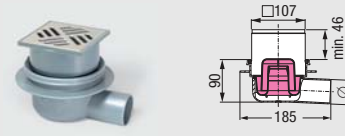

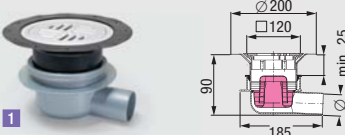
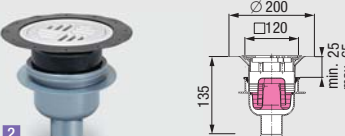



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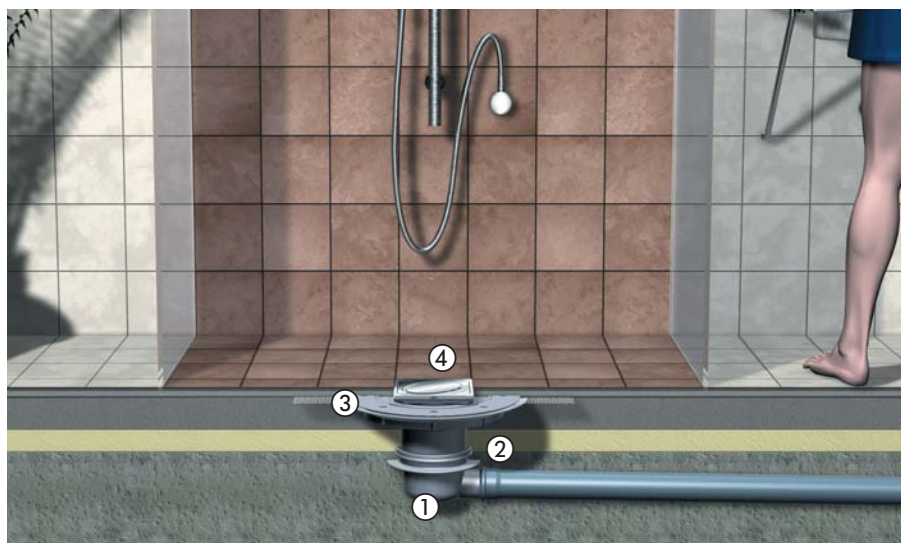
Classic

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
 <p>Illustration shows design cover <i>Oval</i></p> <p>0.8 l/sec flow rate Installation area 220 x 180 mm</p>	<p>Bathroom drain <i>Classic</i> in ABS with removable odour trap, sealing water height 50 mm, with fixed lip seal, With <i>Variofix</i> shallow bed upper section in ABS, with mesh fabric for shallow bed sealing</p> <p>Lateral outlet</p> <p>1 with design cover <i>Oval</i> 120 x 120 mm and rim in stainless steel AISI 304, for tile thicknesses 8-21 mm, with <i>Lock & Lift</i> System, class L 15</p> <p>2 with standard slotted cover 95 x 95 mm in stainless steel AISI 304, for tile thicknesses 6-14 mm, class K 3</p> <p>3 with slotted cover 138 x 138 mm and rim in stainless steel AISI 304, for tile thicknesses 8-16 mm, class L 15</p> <p>Vertical outlet</p> <p>4 with design cover <i>Oval</i> 120 x 120 mm and rim in stainless steel AISI 304, for tile thicknesses 8-21 mm, with <i>Lock & Lift</i> System, class L 15</p> <p>5 with standard slotted cover 95 x 95 mm in stainless steel AISI 304, for tile thicknesses 6-14 mm, class K 3</p> <p>6 with slotted cover 138 x 138 mm and rim in stainless steel AISI 304, for tile thicknesses 8-16 mm, class L 15</p> <p> EN 1253-1</p>	<p>1 Ø 50 Ø 75</p> <p>2 Ø 50 Ø 75</p> <p>3 Ø 50 Ø 75</p> <p>4 Ø 50 Ø 75</p> <p>5 Ø 50 Ø 75</p> <p>6 Ø 50 Ø 75</p>	<p>40 150.54 40 170.54</p> <p>40 150.50 40 170.50</p> <p>40 150.51 40 170.51</p> <p>40 250.54 40 270.54</p> <p>40 250.50 40 270.50</p> <p>40 250.51 40 270.51</p>
 <p>0.8 l/sec flow rate Installation area 260 x 180 mm</p>	<p>Bathroom drain <i>Classic</i> in ABS with removable odour trap, sealing water height 50 mm, with fixed lip seal, With <i>Variofix</i> shallow bed upper section in ABS with glue flange and counter flange, with mesh fabric, with two sealing strips</p> <p>Lateral outlet</p> <p>1 with slotted cover 95 x 95 mm in stainless steel AISI 304, for tile thickness 6-14 mm, class K 3</p> <p>Vertical outlet</p> <p>2 with slotted cover 95 x 95 mm in stainless steel AISI 304, for tile thickness 6-14 mm, class K 3</p> <p> EN 1253-1</p>	<p>1 Ø 50 Ø 75</p> <p>2 Ø 50 Ø 75</p>	<p>40 159.50 40 179.50</p> <p>40 259.50 40 279.50</p>
 <p>0.8 l/sec flow rate Installation area 180 x 180 mm</p>	<p>Bathroom drain <i>Classic</i> in ABS with removable odour trap, sealing water height 50 mm, with fixed lip seal, with upper section in ABS with glue flange and counter flange</p> <p>Lateral outlet</p> <p>1 with slotted cover 100 x 100 mm in stainless steel AISI 304, class K 3</p> <p>Vertical outlet</p> <p>2 with slotted cover 100 x 100 mm in stainless steel AISI 304, class K 3</p> <p> EN 1253-1</p>	<p>1 Ø 50 Ø 75</p> <p>2 Ø 50 Ø 75</p>	<p>40 150.90 40 170.90</p> <p>40 250.90 40 270.90</p>

Classic

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
  <p>0.8 l/sec flow rate Installation area 220 x 180 mm</p>	<p>Bathroom drain <i>Classic</i> in ABS with removable odour trap, sealing water height 50 mm, with fixed lip seal</p> <p>With upper section in ABS</p> <p>Lateral outlet</p> <p>1 with recessed polymer drain cover for on-site tiling 110 x 110 mm, class K 3</p> <p>2 with slotted cover 100 x 100 mm in stainless steel AISI 304, class K 3</p> <p>Vertical outlet</p> <p>3 with recessed polymer drain cover for on-site tiling 110 x 110 mm, class K 3</p> <p>4 with slotted cover 100 x 100 mm in stainless steel AISI 304, class K 3</p> <p> EN 1253-1</p>	<p>1 Ø 50 Ø 75</p> <p>2 Ø 50 Ø 75</p> <p>3 Ø 50 Ø 75</p> <p>4 Ø 50 Ø 75</p>	<p>40 150.66 40 170.66</p> <p>40 150.20 40 170.20</p> <p>40 250.66 40 270.66</p> <p>40 250.20 40 270.20</p>
  <p>0.8 l/sec flow rate Installation area 220 x 180 mm</p> <p>0.8 l/sec flow rate Installation area 180 x 180 mm</p>	<p>Bathroom drain <i>Classic</i> in ABS lateral outlet 2.5°/vertical outlet, with removable odour trap, sealing water height 50 mm, with fixed lip seal</p> <p>1 Lateral outlet</p> <p>2 Vertical outlet</p> <p>Upper section with sealing flange for use with 1 - 4 mm vinyl / synthetic flooring</p> <p><input type="checkbox"/> with slotted cover made of polymer, grey, class K 3 (able to withstand loads up to max. 300 kg).</p> <p> EN 1253-1</p>	<p>1 Ø 50 Ø 75</p> <p>2 Ø 50 Ø 75</p>	<p>40 150.30 40 170.30</p> <p>40 250.30 40 270.30</p>

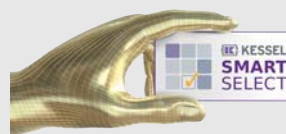
Installation example *Classic*



The *Classic* bathroom drain ① is a compact bathroom drain which is available in many versions. It is available both with a vertical and a horizontal outlet ② in the sizes Ø 50 and Ø 75 mm. There is an adhesive flange ③ available as an option for moisture sealing. The cover is a stainless steel cover in an oval design ④ - but *Classic* bathroom drain can also be combined with any other upper section from the System 100 range.

Professional advantages

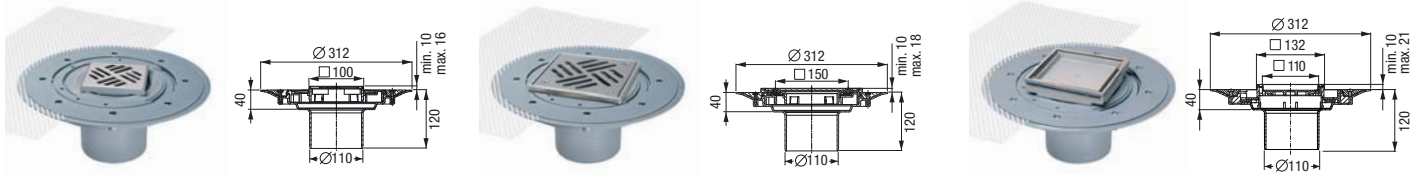
- **Variable upper section**
rotatable, tiltable and height adjustable
- **Sealing system safe to install**
The fixed lip seal reliably prevents the upper section from slipping
- With **removable odour trap** - full access for maintenance and cleaning
- **Flexible modular system** with a large number of design covers.



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Bathroom drains *Classic* and *"The Superflat"* System 100

Variofix shallow bed upper sections



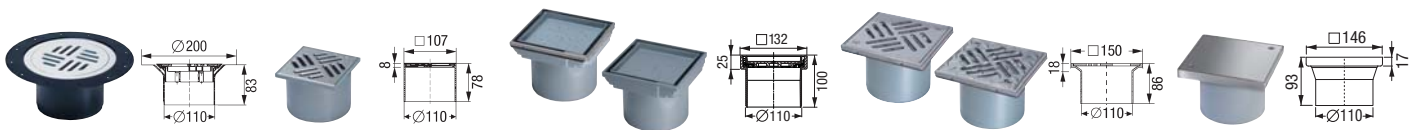
in ABS, vertical and lateral adjustable, incl. mesh fabric

with standard slotted cover □ 95 mm
in stainless steel AISI 304,
class K 3.
For tile thickness of 6-14 mm
Art. # 47 901

with slotted cover/rim □ 138 mm
in stainless steel AISI 304,
class L 15, screwed.
For tile thickness of 8-16 mm
Art. # 47 902

with recessed polymer cover
for on-site tiling □ 110 mm
and rim in stainless steel AISI 304,
class K 3, with locking system
Art. # 47 906

Upper sections



in PP...

with sealing flange
for use with 1 - 4 mm
vinyl / synthetic flooring,
slotted cover
made of polymer,
Ø 120 mm, class K 3
Art. # 27 192

in ABS...

with slotted cover
□ 100 mm
in stainless steel
AISI 304, class K 3
Art. # 27 165

in ABS, tileable...

□ 110 mm, made of polymer,
class K 3
with rim
in stainless steel
AISI 304
Art. # 27 211

with rim
in polymer
Art. # 27 210

in ABS...

with slotted cover □ 138 mm
and rim
in stainless steel AISI 304
Class L 15
Art. # 27 176, non-slip
Class K 3
Art. # 27 196

in ABS...

with rim and a closed
cover □ 150 mm
in stainless steel
AISI 304, screwed,
with gasket, class L 15
Art. # 27 196G

Accessories



Waterproofing flange

with counter flange
(also for compound seal)
Art. # 43 401

Extension section

in PP, with pressure sealing flange
in stainless steel AISI 304,
flange width 63 mm
Art. # 27 198

Extension section

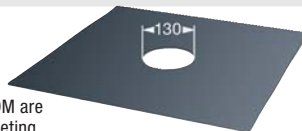
in ABS, with glue flange and
counter flange
Art. # 27 199

With waterproofing flange and
waterproof membrane

pre-mounted in PVC
1200 x 1200 mm Art. # 43 401.91
1800 x 2000 mm Art. # 43 401.93

Elastomer waterproof membrane □ 500 mm

in PVC Art. # 43 710
in EPDM Art. # 43 730



Mesh fabric

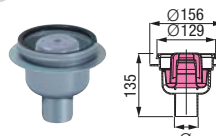
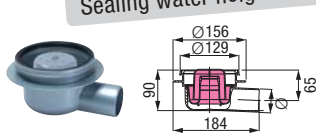
for Art. # 43 401
Art. # 219-153A

Waterproof membrane in PVC
without punched-out hole
1800 x 2000 mm Art. # 43 711

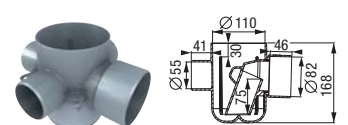
The waterproof membrane in PVC and EPDM are
not suitable for connections to asphalt sheeting.

Drain bodies

0.8 l/sec flow rate *)
Sealing water height 50 mm



1.8 l/sec flow rate *)



Bathroom drain *Classic* in ABS

with removable odour trap		
Ø	Lateral outlet	Vertical outlet
50	Art. # 40 150	Art. # 40 250
75	Art. # 40 170	Art. # 40 270

without removable odour trap

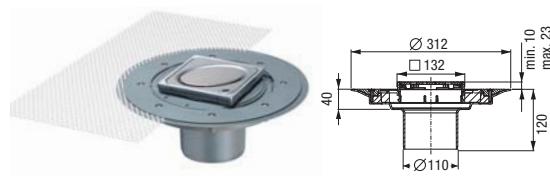
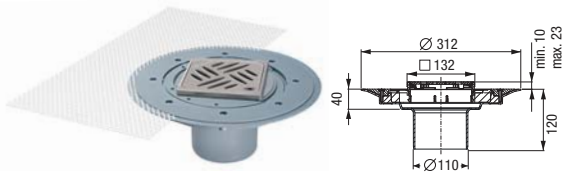
Ø	Lateral outlet	Vertical outlet
50	Art. # 40 151	Art. # 40 251
75	Art. # 40 171	Art. # 40 271

Floordrain ME in ABS

Three lateral inlets Ø 55,
one lateral outlet Ø 82,
with removable odour trap

Glue connection
according to BS 5255
Art. # 37 3001

Modular system with covers in stainless steel AISI 304



in ABS, vertical and lateral adjustable, incl. mesh fabric

with design cover *Kessel* □ 120 mm
and rim in stainless steel AISI 304, class L 15.
For tile thickness of 8-21 mm, *Lock & Lift* System
Art. # 47 904

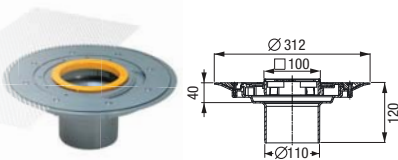
with design cover *Oval* □ 120 mm
and rim in stainless steel AISI 304, class L 15.
For tile thickness of 8-21 mm, *Lock & Lift* System
Art. # 47 905



in ABS

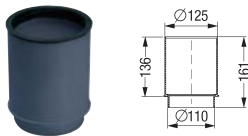
design covers □ 120 mm and rim in stainless steel AISI 304, class K 3 / L 15 with or without *Lock & Lift* System.

	<i>Kessel</i> (Cl. L 15)	<i>Oval</i> (Cl. L 15)	<i>Spot</i> (Cl. K 3)	<i>Cross</i> (Cl. K 3)	<i>Festival</i> (Cl. K 3)	<i>Parade</i> (Cl. K 3)	<i>Slot</i> (Cl. K 3)	<i>Sticks</i> (Cl. K 3)
with <i>Lock & Lift</i> ... Art. #	27 201	27 202	27 221	27 213	27 215	27 224	27 219	27 217
without <i>Lock & Lift</i> ... Art. #	27 225	27 226	27 220	27 212	27 214	27 223	27 218	27 216



Intermediate section with glue flange

in ABS, for shallow bed gasket
incl. mesh fabric, Art. # 47 900



Extension section

in ABS, with lip seal
Art. # 27 146

Multistop

odour, foam, rodent
and insect stop
Art. # 43 500



Hair filter

made of polymer, Ø 108 mm
Art. # 43 700

Transition section

with sealing ring Ø 50
Ø 50/75 Art. # 27 126
Ø 50/40 Art. # 27 118



Sludge trap

made of polymer
Art. # 27 168



Conversion kit, "DIN push-fit connection"

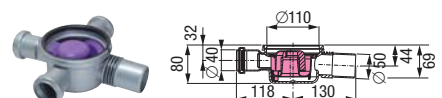
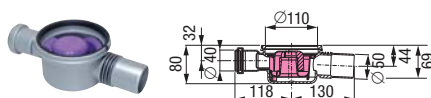
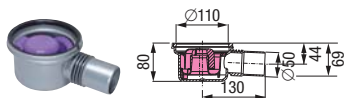
for article: 37 3001
Consist of
3 inlet adapter Ø 50 mm,
1 outlet adapter Ø 75 mm
and 1 push-fit connection
for upper section Ø 110,
EN 1451-1
Art. # 37 3008

Conversion kit, "DIN glue connection"

for article: 37 3001
Consist of
3 inlet adapter Ø 50 mm,
1 outlet adapter Ø 75 mm,
EN 1451-1
Art. # 37 3007

0.8 l/sec flow rate *)
Sealing water height 30 mm

*) according to EN 1253 - 20 mm threshold



Bathroom drain "The Superflat" in PP

Lateral outlet Ø 50, with removable odour trap

Without lateral inlet
Art. # 42 700

One lateral inlet Ø 40
Art. # 42 701

Three lateral inlets Ø 40
Art. # 42 703



Shower channels

Shower channels

Linearis Comfort

Page **190 – 191**

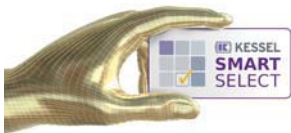
Variety of different installation options - for an individual bathroom design

Shower channels

Linearis Compact

Page **192 – 193**

Minimum installation height - ideal for flush-to-floor showers and bathroom renovation!



SmartSelect makes planning quite simply quicker - visit smartselect.kessel.com for the configurator for alternative waterproofing options.

Shower channels *Linearis*



Linearis shower channels for flush-to-floor installation are leading the modern bathroom design trends. Shower channel in a classic, timeless stainless steel design. When fitted turned, the rim can be tiled over according to taste, opening up a whole new range of design options.



Variety of different installation options - for an individual bathroom design

Shower channels *Linearis Comfort*

COMPLETE SHOWER CHANNEL

Ready-to-install complete shower channels with fix mounted drain body with lateral outlet, minimum overall installation height 93 mm. Flange installation height only 86 mm.

LENGTHS

Five channel lengths: 750, 850, 950, 1050 and 1150 mm.



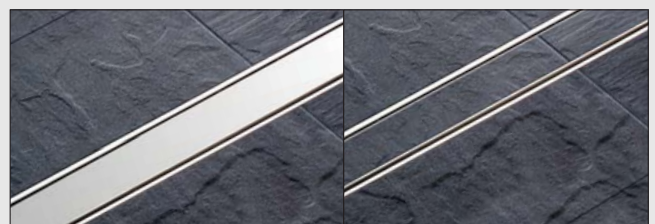
SOUND PROTECTION

Measurements carried out by the Fraunhofer Institute in Stuttgart: shower channel *Linearis Comfort*

- ≥ 17 dB(A) according to DIN 4109
- ≥ 13 dB(A) according to VDI 4100 SST III

INDIVIDUAL

Stainless steel cover can be turned over and tiled to offer an "invisible" look.



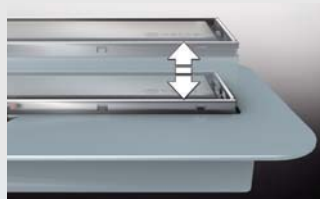


Minimum installation height - ideal for flush-to-floor showers and bathroom renovation!

Linearis Compact

FLEXIBILITY

Vertically adjustable frame can be adjusted from 7-22 mm to meet on-site tile thicknesses.



Linearis Comfort
Art. # 45 600.83

INSTALLATION AID

Included support feet are vertically adjustable.

CLEANING

Cleaning and care made easy. Channel rim, odour trap and hair filter can be removed without tools - for ideal shower hygiene.

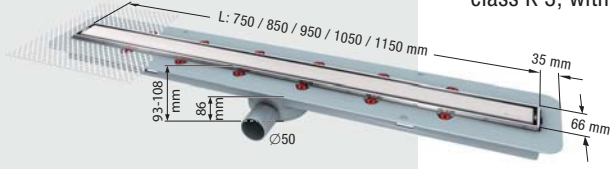


	<i>Linearis Comfort</i>	<i>Linearis Compact</i>
Flow rate with 10 mm threshold	1.1 l/sec	0.6 l/sec
Outlet	Ø 50 mm	Ø 50 mm
Installation height Minimum overall installation height	93 mm	80 mm
Waterproofing options	flange with mesh fabric	
Modular Design	✓	✓
Easy access for service	✓	✓
Customizable	✓	✓
Height adjustable frame to meet on-site tile thicknesses	✓	-

Shower channels

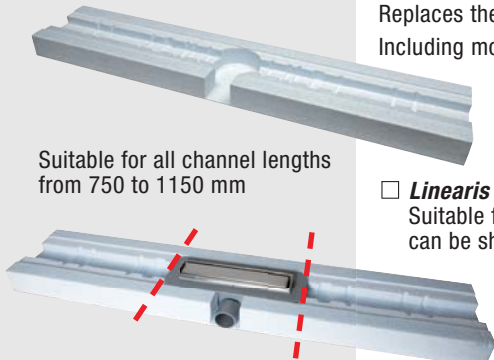
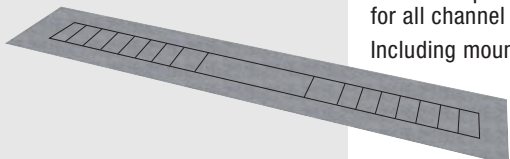
Complete channels

Linearis Comfort

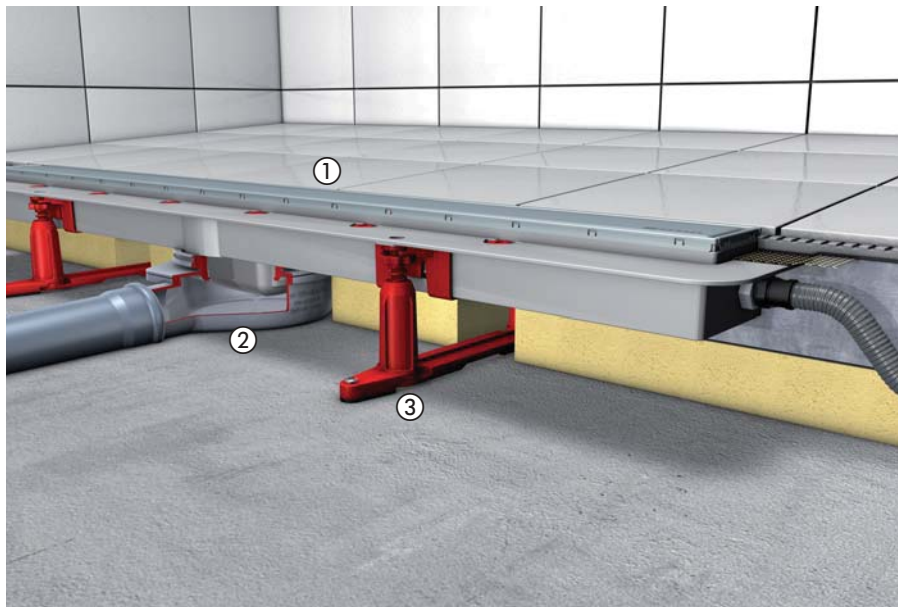
Illustration and dimensioned drawing	Article description	Channel length	Article #
 <p>Installation supports and mesh fabric included</p>	<p>Shower channel <i>Linearis Comfort</i> With drain body in ABS, Ø 50, lateral outlet With removable odour trap, sealing water height 22 mm <input type="checkbox"/> cover and rim in stainless steel AISI 304 (Channel cover can be reversed and tiled on site), class K 3, with seeping water opening</p> <p>1.0 l/sec flow rate without threshold, 1.1 l/sec flow rate with 10 mm threshold</p>	750 mm 850 mm 950 mm 1050 mm 1150 mm	45 600.83 45 600.84 45 600.85 45 600.86 45 600.87

Linearis Comfort

Accessories

Illustration and dimensioned drawing	Article description	Channel length	Article #
 <p>Suitable for all channel lengths from 750 to 1150 mm</p>	<p>Installation aid Replaces the screed underlining Including mounting adhesive</p> <p><input type="checkbox"/> Linearis Comfort Suitable for all lengths, can be shortened on-site</p>	-	48 640
	<p>Collar seal As a seal below the ceramic surfaces made of modified polyethylene membrane with fleece on both sides with printed cutting template suitable for all channel lengths Including mounting adhesive</p>	-	48 638

Installation example *Linearis Comfort*



① Channel cover
② Drain body
③ Installation supports

The *Linearis Comfort* shower channel effortlessly combines engineering and design to offer new and creative design concepts for your bathroom. The reversible channel cover can be displayed in the classic stainless steel look or reversed to show the invisible tiled look, also available are custom channel inserts such as wood optic and illuminated versions. The channels are ready-to-install with their welded on drain body, including an odour trap and Ø 50 outlet. *Linearis Comfort* can be installed on the room or wall side of the shower. The flexible installation supports are height-adjustable and can be pivoted away as required for wall-side installation.

Professional advantages

- **Stainless steel cover is reversible and tileable**
- **Vertically adjustable frame**
Stainless steel channel and rim can be adjusted from 7-22 mm to meet on site tile/granite/marble thicknesses.
- **Installation on room or wall side of shower**
Feet can be pivoted away as required for wall-side installation.
- **Exemplary hygiene** - smooth, easy-clean surface, self-cleaning effect
- **Channel length:** 750 mm, 850 mm, 950 mm, 1050 mm, 1150 mm.
- **Channel locking mechanism as standard**
- **Hair filter and *Multistop*** - odour, foam, rodent and insect stop (optional)
- **1.1 l/sec flow rate with 10 mm threshold.**



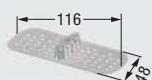
- Select, plan and visualize your own personalized KESSEL Design shower drainage system using the KESSEL Shower Drain Configurator at



www.kessel-design.com

Linearis Comfort

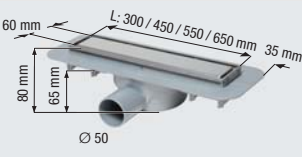
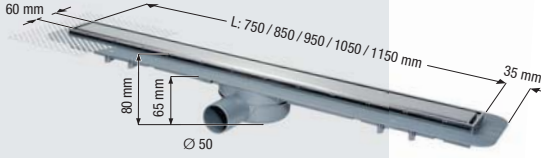
Accessories

Illustration and dimensioned drawing	Article description	Channel length	Article #
	Odour trap sealing water height 22 mm only for shower channel <i>Linearis Compact</i> and <i>Linearis Comfort</i>	-	48 603
	Multistop odour, foam, rodent and insect stop	-	48 400
	Hair filter	-	48 800

Shower channels

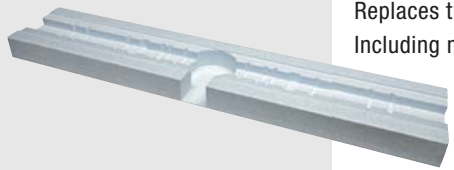

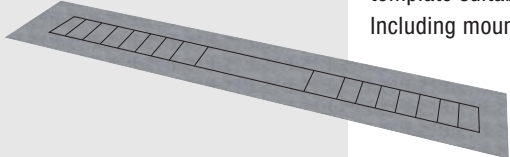
Complete channels

Linearis Compact

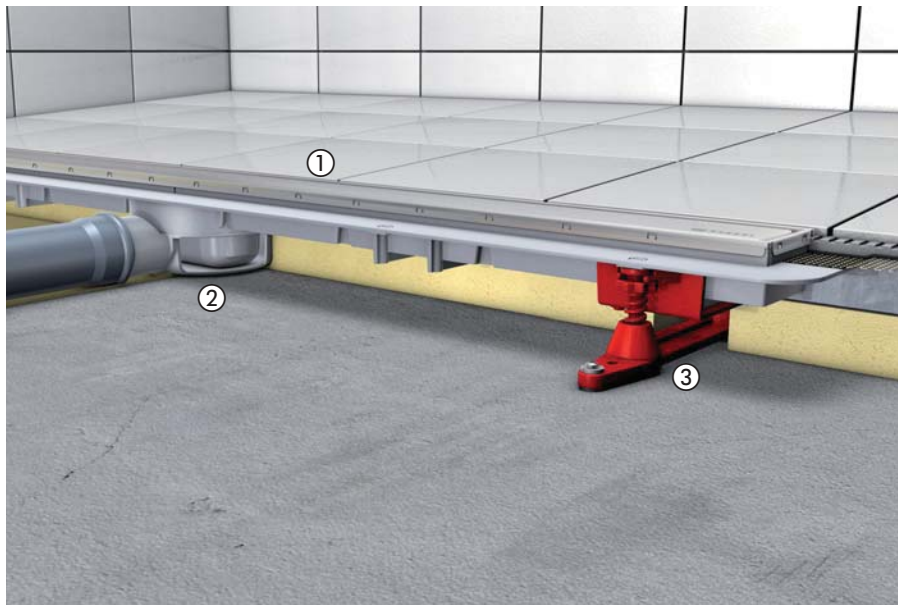
Illustration and dimensioned drawing	Article description	Channel length	Article #
<p>Installation depth only 80 mm</p>  <p>Channel length from 300 to 650 mm</p>	<p>Shower channel <i>Linearis Compact</i> With drain body in ABS, Ø 50, lateral outlet With removable odour trap, sealing water height 22 mm</p> <p><input type="checkbox"/> cover and rim in stainless steel AISI 304 (Channel cover can be reversed and tiled on site), class K 3, seeping water openings prepared</p>	300 mm	45 600.59
		450 mm	45 600.60
 <p>Channel length from 750 to 1150 mm</p>	<p>0.5 l/sec flow rate without threshold, 0.6 l/sec flow rate with 10 mm threshold</p>	550 mm	45 600.61
		650 mm	45 600.62
<p>Installation supports and mesh fabric included</p>		750 mm	45 600.63
		850 mm	45 600.64
		950 mm	45 600.65
		1050 mm	45 600.66
		1150 mm	45 600.67

Linearis Compact

Accessories

Illustration and dimensioned drawing	Article description	Channel length	Article #
 <p>Example: Installation aid can be shortened on-site Suitable for all channel lengths from 300 to 1150 mm</p> 	<p>Installation aid Replaces the screed underlining Including mounting adhesive</p> <p><input type="checkbox"/> Linearis Compact Suitable for all lengths, can be shortened on-site</p>	-	48 639
	<p>Collar seal As a seal below the ceramic surfaces made of modified polyethylene membrane with fleece on both sides with printed cutting template suitable for all channel lengths Including mounting adhesive</p>	-	48 638

Installation example *Linearis Compact*

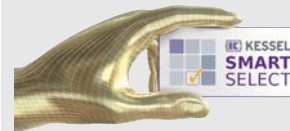


① Channel cover
② Drain body
③ Installation supports

Shower channels in a classic, timeless design. Minimalistic impression fits elegantly in a purist bathroom design. The finely finished channel surface in stainless steel can be reversed to offer a recessed side where the bathroom tile or natural stone surface can be installed. The channels are ready-to-install with their welded on drain body, including an odour trap and Ø 50 outlet. *Linearis Compact* can be installed on the room or wall side of the shower. The flexible installation supports can be shortened for wall-side installation.

Professional advantages



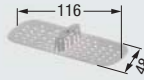
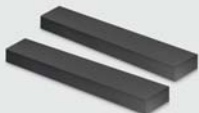
- **Stainless steel cover is reversible and tileable**
- **Installation in the room or on the wall**
The length of the feet can be shortened on the left or right if mounted to the wall.
- **Hygienic design** - single piece body and channel cover
- **Channel length:** 300 mm, 450 mm, 550 mm, 650 mm, 750 mm, 850 mm, 950 mm, 1050 mm, 1150 mm.
- **Flow rate** with counter slope **up to 0.6 l/sec with 10 mm threshold. Flow rate increased to 0.9 l/sec** with use of **Multistop** odour trap.
- **Cover and rim** made of stainless steel.
- **Multistop (optional)** - odour, foam, rodent and insect stop
- **Hair filter (optional)**



SmartSelect makes planning quite simply quicker - visit smartselect.kessel.com for the configurator for alternative waterproofing options.

Linearis Compact

Accessories

Illustration and dimensioned drawing	Article description	Channel length	Article #
 Illustration shows ①	Odour trap ① sealing water height 22 mm ② sealing water height 50 mm only for shower channel <i>Linearis Compact</i> and <i>Linearis Comfort</i>	-	48 603 48 602
	Multistop odour, foam, rodent and insect stop	-	48 400
	Hair filter	-	48 800
	Sound protection elements for <i>Linearis Compact</i> installation supports H = 10 mm, 2 pcs.	-	48 630

Shower channel upper section *Linearis Comfort* System 125

Flow rate
1.0 l/sec without threshold
1,1 l/sec with 10 mm threshold



Linearis Comfort in ABS ¹⁾

With removable odour trap, sealing water height 50 mm

□ **cover and rim in stainless steel AISI 304**
(Channel cover can be reversed and tiled on site),
installation supports and mesh fabric

Length	Art. #
750 mm	48 928 S
850 mm	48 929 S
950 mm	48 930 S
1050 mm	48 931 S
1150 mm	48 932 S

Accessories



Waterproofing flange

with counter flange, \varnothing 348 mm
(also for compound seal)

Art. # **48 410**

Pressure sealing flange

in stainless steel AISI 304, \varnothing 273 mm,
with seeping water opening

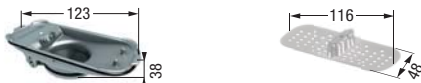
Art. # **48 402**

Extension section

in PP, with lip seal

without lateral inlet Art. # **48 987**

with lateral inlet Art. # **48 989**



Multistop

odour, foam, rodent
and insect stop

Art. # **48 400**

Hair filter

made of polymer

Art. # **48 800**

Fire-Kit Fire protection insert*

Only for *Ecoguss* / *Practicus* drains
with vertical outlet and odour trap

\varnothing 58/78/83 Art. # **48 099**

\varnothing 50/75 Art. # **48 099**

\varnothing 110 Art. # **48 100**

Quick-Fit the passage seal

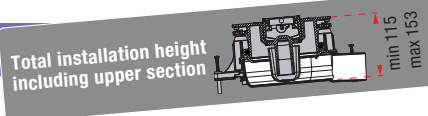
for core drillings for drain bodies
with vertical outlet

without fire protection Art. # **48 991**

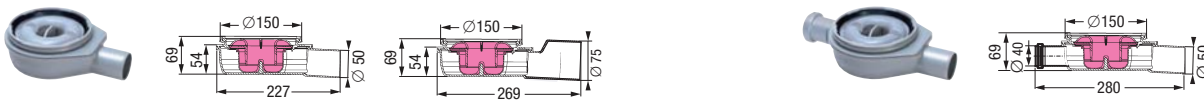
*with fire protection Art. # **48 990**

(only in combination with *Fire-Kit* protection insert)

Drain bodies



The *Linearis Comfort* and *Compact* shower channels already include an odour trap.
For this reason, the odour trap must be removed from all drain bodies during installation.



"The Ultraflat" in ABS

with removable odour trap

Lateral outlet \varnothing 50

Art. # **45 700**

Lateral outlet \varnothing 75

Art. # **45 770**

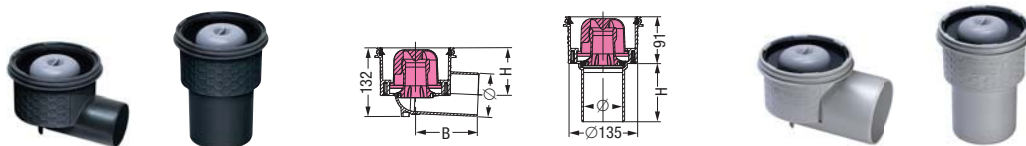
"The Ultraflat" in ABS

with removable odour trap

with lateral inlet \varnothing 40,

lateral outlet \varnothing 50

Art. # **45 701**



Ecoguss with removable odour trap

Practicus in PP with removable odour trap

Lateral outlet				Vertical outlet	
\varnothing	B	H	Article #	H	Article #
58	245	120	48 358	100	48 458
78	134	109	48 378	110	48 478
83	134	108	48 383	110	48 483
110	148	92	48 311	110	48 411

Lateral outlet				Vertical outlet	
\varnothing	B	H	Article #	H	Article #
50	245	120	45 150	100	45 250
75	134	109	45 170	110	45 270
110	148	92	45 110	110	45 210

Shower channel upper section *Linearis Compact* System 100

0.6 l/sec flow rate
with 10 mm threshold



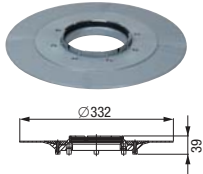
Linearis Compact in ABS

With removable odour trap (must be removed from all drain bodies during installation), sealing water height 50 mm

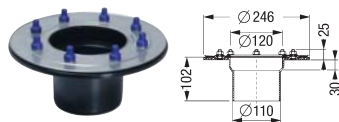
- cover and rim in stainless steel AISI 304** (Channel cover can be reversed and tiled on site), class K 3, seeping water opening prepared, installation supports and mesh fabric

Length	Art. #
750 mm	47 808S

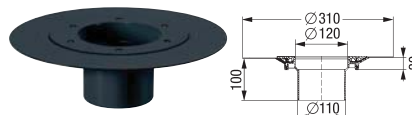
Accessories



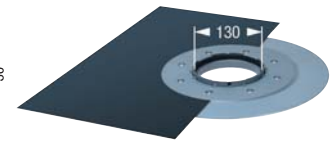
Waterproofing flange with counter flange (also for compound seal)
Art. # **43 401**



Extension section in PP, with pressure sealing flange in stainless steel AISI 304, flange width 63 mm
Art. # **27 198**



Extension section in ABS, with glue flange and counter flange
Art. # **27 199**



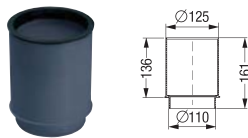
With waterproofing flange and waterproof membrane
pre-mounted in PVC
1200 x 1200 mm Art. # **43 401.91**
1800 x 2000 mm Art. # **43 401.93**

Elastomer waterproof membrane □ 500 mm

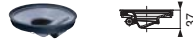
in PVC Art. # **43 710**
in EPDM Art. # **43 730**



The waterproof membrane in PVC and EPDM are not suitable for connections to asphalt sheeting.



Extension section in ABS, with lip seal
Art. # **27 146**



Multistop odour, foam, rodent and insect stop
Art. # **43 500**



Hair filter made of polymer, Ø 108 mm
Art. # **43 700**

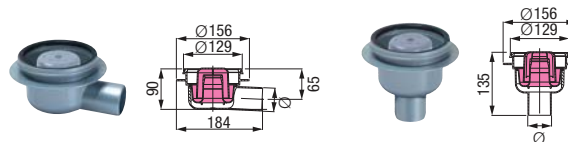


Transition section with sealing ring Ø 50
Ø 50/75 Art. # **27 126**
Ø 50/40 Art. # **27 118**

Drain bodies

*) according to EN 1253 - 20 mm threshold

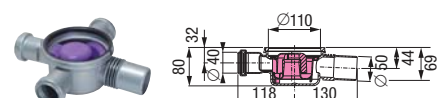
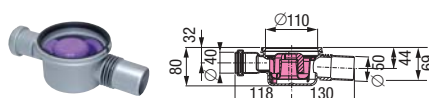
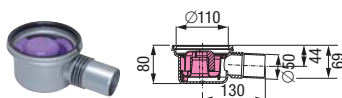
0.8 l/sec flow rate *)
Sealing water height 50 mm



Bathroom drain Classic in ABS

with removable odour trap		
Ø	Lateral outlet	Vertical outlet
50	Art. # 40 150	Art. # 40 250
75	Art. # 40 170	Art. # 40 270

without removable odour trap		
Ø	Lateral outlet	Vertical outlet
50	Art. # 40 151	Art. # 40 251
75	Art. # 40 171	Art. # 40 271



Bathroom drain "The Superflat" in PP

0.8 l/sec flow rate *)
Sealing water height 30 mm

Lateral outlet Ø 50, with removable odour trap
Without lateral inlet
Art. # **42 700**

One lateral inlet Ø 40
Art. # **42 701**

Three lateral inlets Ø 40
Art. # **42 703**



Wall drains

Wall drains *Scada*

Page **198 – 202**

New trends for sophisticated
bathroom drainage systems



Scan this QR code to directly view the corresponding product video.



Creative shower drains without barriers



Completely new design options in barrier-free bathrooms - ideal for new buildings and renovation work. There is a choice of four different drain covers all made of stainless steel: two are in a smooth finish for different tile thicknesses, one is an almost invisible cover which can be tiled over, and the fourth is in a three-dimensional wave-look design. The drain covers are also offered with LED backlighting.



OPTIMISED IN DESIGN AND FUNCTION

AWARD-WINNING DESIGN

Choice of four drain covers.



ONLY FROM KESSEL



Version with LED lights for a special atmosphere

With automatic colour changing or selection option of specific light colour.

12 Volt low-voltage technology and included cable conduit pipe. Factory made conduit connection to drain body.

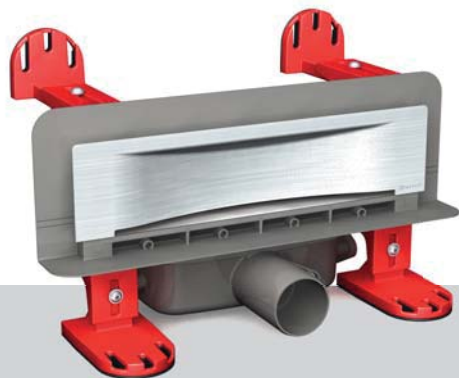


MULTIPLE OUTLETS

Maximum flexibility when fitting one of three selectable drain connection options. Thus problem-free laying of underfloor heating.

PERFECT ADJUSTMENT

Vertically adjustable installation feet provide easy on-site height setting from 80 to 215 mm (from sub-floor to top of tiles). Lateral adjustment from wall from 100 to 180 mm for drywall or brick and mortar walls.



Wall drain **Scada**
for brick- and dry-wall



Wall drain **Scada**
with installation board

Brick- and dry-wall **INSTALLATION**



FOR DRY-WALL
Dry-wall mount (installation without board), makes the flush connection to dry-walling boards easier.

INSTALLATION board and wedge

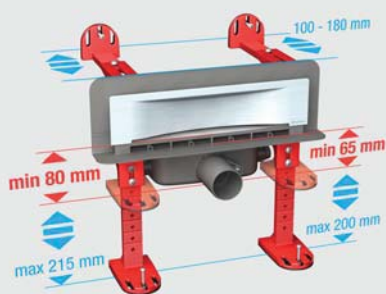


- ① Installation board with pre-mounted and sealed *Scada* wall drain completely installed, with slope on 3 sides.
Installation board 900 mm: A = 900 mm, B = 200 mm
Installation board 1200 mm: A = 1200 mm, B = 200 mm
- ② Wedge as shower board with integrated 3-sided slope.
Optionally available in two sizes:
□ 900 x 900 mm □ 1200 x 1200 mm



INSTALLATION EVEN EASIER!

Now with new adjustable cover - can be adjusted horizontally up to 3 mm and vertically up to 4 mm



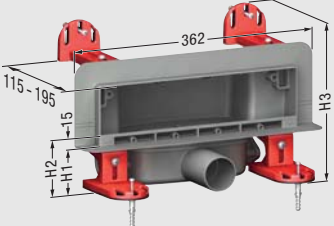




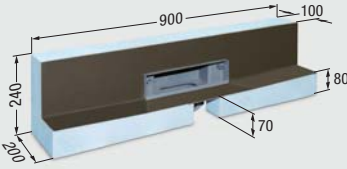
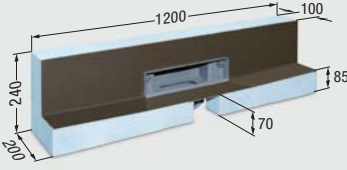
ONLY 65 MILLIMETRES
Smallest installation height up to flange 65 mm.

SOUND PROTECTION

Measurements carried out by the Fraunhofer Institute in Stuttgart:
wall drain *Scada*
- ≥ 17 dB(A) according to DIN 4109
- ≥ 14 dB(A) according to VDI 4100 SST III

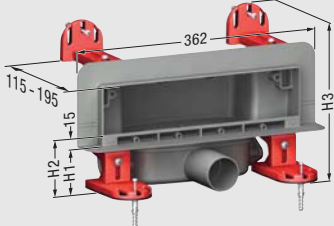






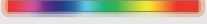
Scada

Matrix order system

Drain body	Covers			
<p>Wall drain Scada in ABS For floor drainage indoors With odor trap and flange for alternative sealing</p> <p>Drain body in ABS Lateral outlet Ø 50 Connection option at the front, on the left side or right side</p>  <p>H1 = Upper edge flange 65 - 200 mm H2 = Upper edge tile 80 - 215 mm H3 = Overall height 218 - 353 mm (incl. attachment rails)</p>	<p>Scada, invisible cover with stainless steel frame</p>  <p>Width x height 296 x 61 mm For floor tiles up to 10 mm, can be tiled with wall tiles up to 10 mm</p>	<p>Scada, stainless steel cover AISI 304</p>  <p>Width x height 312 x 74 mm For floor tiles up to 10 mm</p>	<p>Scada, Wave cover, stainless steel cover AISI 304</p>  <p>Width x height 312 x 74 mm For floor tiles up to 10 mm</p>	<p>Scada, stainless steel cover AISI 304</p>  <p>Width x height 312 x 67 mm For floor tiles up to 17 mm</p>
Item comprised of drain body <i>Scada</i> and drain cover				
	▼	▼	▼	▼
	48 000.01	48 000.02	48 000.03	48 000.04
<p>Drain body in installation board 900 x 200 mm</p>	Item comprised of installation board with the wall drain <i>Scada</i> and drain cover			
	▼	▼	▼	▼
	48 001.01	48 001.02	48 001.03	48 001.04
<p>Drain body in installation board 1200 x 200 mm</p>	Item comprised of installation board with the wall drain <i>Scada</i> and drain cover			
	▼	▼	▼	▼
	48 002.01	48 002.02	48 002.03	48 002.04

Scada with LED lights

Matrix order system

Drain body	Covers			
<p>Wall drain Scada in ABS, with LED-backlighting Color of choice</p> <p>For floor drainage indoors With odor trap and flange for alternative sealing</p> <p>Drain body in ABS Lateral outlet Ø 50 Connection option at the front, on the left side or right side LED cable length: 15 m</p>  <p>H1 = Upper edge flange 65 - 200 mm H2 = Upper edge tile 80 - 215 mm H3 = Overall height 218 - 353 mm (incl. attachment rails)</p>	<p>Scada, invisible cover with stainless steel frame</p>  <p>Width x height 296 x 61 mm For floor tiles up to 10 mm, can be tiled with wall tiles up to 10 mm</p>	<p>Scada, stainless steel cover AISI 304</p>  <p>Width x height 312 x 74 mm For floor tiles up to 10 mm</p>	<p>Scada, Wave cover, stainless steel cover AISI 304</p>  <p>Width x height 312 x 74 mm For floor tiles up to 10 mm</p>	<p>Scada, stainless steel cover AISI 304</p>  <p>Width x height 312 x 67 mm For floor tiles up to 17 mm</p>
LED drain body	Item comprised of drain body Scada and drain cover			
<p>RGB</p> 	48 003.41	48 003.42	48 003.43	48 003.44
Drain body with LED lights in installation board 900 x 200 mm	Item comprised of installation board with the wall drain Scada and drain cover			
<p>RGB</p> 	48 004.41	48 004.42	48 004.43	48 004.44
Drain body with LED lights in installation board 1200 x 200 mm	Item comprised of installation board with the wall drain Scada and drain cover			
<p>RGB</p> 	48 005.41	48 005.42	48 005.43	48 005.44

Covers



Scada, invisible cover

with stainless steel frame AISI 304, 296 x 61 mm, for floor tiles up to 10 mm, can be tiled with wall tiles up to 10 mm
Art. # 48 011

Scada cover

stainless steel cover AISI 304, 312 x 74 mm, for floor tiles up to 10 mm
Art. # 48 012

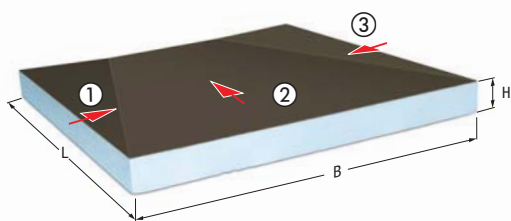
Scada, Wave cover

stainless steel cover AISI 304, 312 x 74 mm, for floor tiles up to 10 mm
Art. # 48 013

Scada cover

stainless steel cover AISI 304, 296 x 67 mm, for floor tiles up to 17 mm
Art. # 48 014

Accessories



Installation board

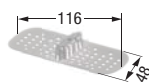
with integrated 3-side slope
 900 x 900 x 80 mm (L x B x H)
 Slope: ① 2,4 % ② 0,8 % ③ 2,4 %
 Art. # 48 051
 1200 x 1200 x 85 mm (L x B x H)
 Slope: ① 3,7 % ② 1,1 % ③ 3,7 %
 Art. # 48 052

Drywall mount for drain body

with adhesive
 Height 300 mm
 Width 623 mm
 Art. # 48 063

Sealing set

comprising adhesive and sealing tapes
 Art. # 48 062



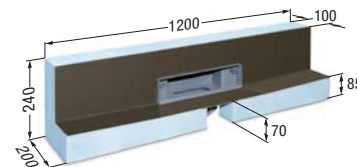
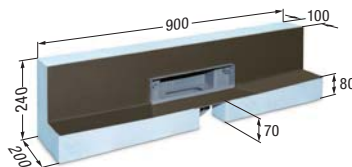
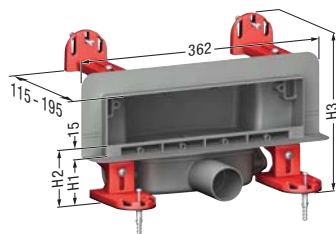
Multistop

odour, foam, rodent and insect stop
 Art. # 48 400

Hair filter

made of polymer
 Art. # 48 800

Drain bodies



Drain body in ABS

with anti-odour system and flange, lateral outlet Ø 50
 Connection option at the front, on the left side or right side
 without LED lights Art. # 48 000
 with LED lights Art. # 48 003

Drain body in ABS

with installation board 900 x 200 mm and drain cover
 with anti-odour system and flange, lateral outlet Ø 50
 Connection option at the front, on the left side or right side
 without LED lights Art. # 48 001
 with LED lights Art. # 48 004

Drain body in ABS

with installation board 1200 x 200 mm and drain cover
 with anti-odour system and flange, lateral outlet Ø 50
 Connection option at the front, on the left side or right side
 without LED lights Art. # 48 002
 with LED lights Art. # 48 005

H1 = Upper edge flange 65 - 200 mm
 H2 = Upper edge tile 80 - 215 mm
 H3 = Overall height 218 - 353 mm (incl. attachment rails)



Basement drains

Basement drains

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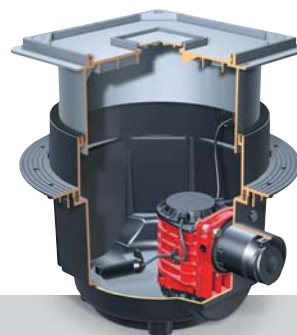
with or without backwater flap
or pump

Volatile liquid traps (heating oil stops)

Page **209**

must be used wherever volatile
liquids can escape unexpectedly.

The basement drain that pumps against backwater



Pumpfix S 28451

Backwater pumping station **Pumpfix S**
Basement drain with twin flap backwater valve and pump

INSTALLATION Pumpfix S
IDEAL FOR NEW BUILDINGS

INSTALLATION

Telescopic upper section with shallow waterproofing flange, recessed cover for on-site tiling and integrated drain function.

ADDITIONAL SAFETY

Odour, foam, rodent and insect stop
Multistop available as accessory.



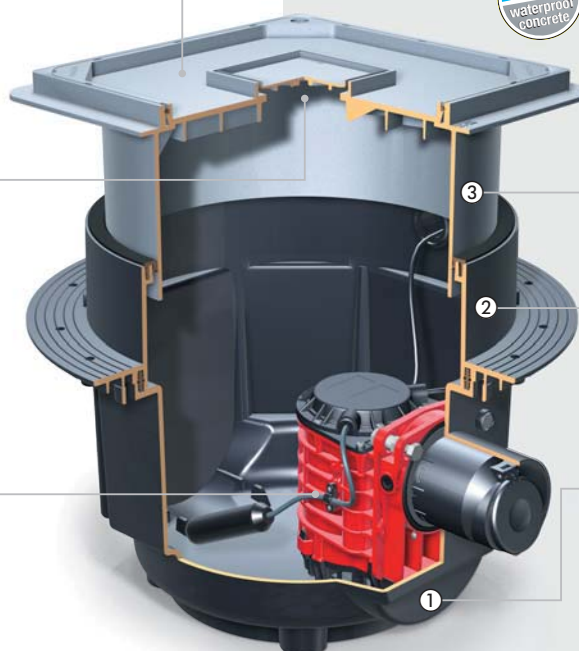
FLEXIBLE INSTALLATION

New extension section with central flange, counter-flange and elastomer waterproofing sheet optional - as protection against water load for installation in waterproof concrete.



TECHNOLOGY

Pump with twin flap backwater valve and odour trap. Tool-free pump removal.
Not to be used as a lifting station!



CONNECTIONS

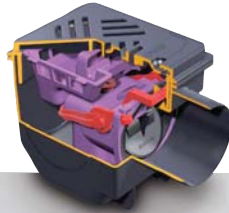
Connection of optional inlets to drain body ① of Ø 110, above the compression flange ② and in the extension section ③ up to Ø 75 mm.

The innovative and backwater-safe basement drain for both new buildings and renovation work.

During normal operation, soiled water from sinks, washing machine, shower etc. runs into the sewage system without power consumption. If backwater occurs in the sewer, the pump automatically switches on via a float control. Penetrating surface water is also pumped to the sewer.



"The Universal"



Drehfix

Basement drains **"The Universal" / Drehfix**
Basement drains with backwater flaps

Basement drains with effective backwater protection

INSTALLATION "The Universal"
IDEAL FOR RENOVATION WORK

Installation in waterproof concrete with extension section with pressure sealing flange and waterproof sheet optional. Also suitable for alternative waterproofing layer.



FLEXIBLE INSTALLATION
Three fixed inlets as standard
2 x Ø 50 and 1 x Ø 75.



INSTALLATION Drehfix
IDEAL FOR RENOVATION WORK

Minimum installation height with only 30 mm overlap.

FLEXIBLE INSTALLATION
Deeper installation up to 180 mm optional.

STRAIGHTFORWARD MAINTENANCE
Maintenance and cleaning without tools.



FLEXIBLE INSTALLATION

Telescopic upper section can be twisted, tilted, height-adjusted.

STRAIGHTFORWARD MAINTENANCE

Maintenance and cleaning without tools.

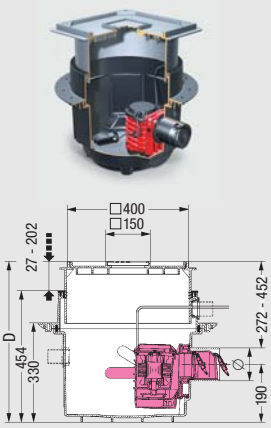



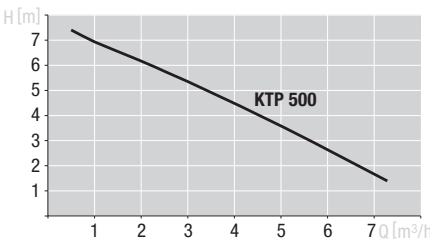


Secure drains thanks to integrated twin flap backwater valves.

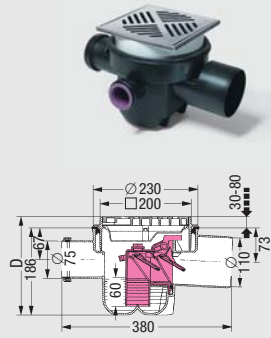



"The Universal" model is a versatile basement drain with variable connection options thanks to three inlets. The compact design of the **Drehfix** basement drain makes it popular for renovating older buildings. It fits into the recesses of old cast drains thanks to its small design height.

Basement drains with / without twin flap backwater valve

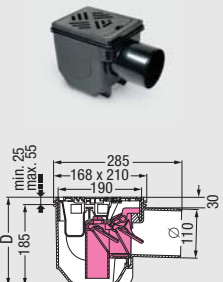
Pumpfix S

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
 <p>1.6 l/sec flow rate Installation area 700 x 700 mm</p>	<p>Backwater pumping station Pumpfix S made of polymer for wastewater without sewage Lateral outlet 2.5°, for installation in a concrete slab/floor for installation depth (D) from 481 - 656 mm With removable pump, twin flap backwater valve and odour trap.</p> <p>Twin flaps, self-closing, one of which can be locked by hand, self activating pump during backwater, cable length 5 m. With telescopic upper section for height and level adjustments, recessed cover for on-site tiling, class A 15, made of polymer.</p> <p>With moisture protective sealing flange.</p> <p>Not for use as a lifting station.</p> <p>   EN 1253-1 According to EN 13564 Type 5</p>	<p>Ø 110</p>  <p>H [m] = Backwater height</p>	<p>28451</p>

"The Universal"

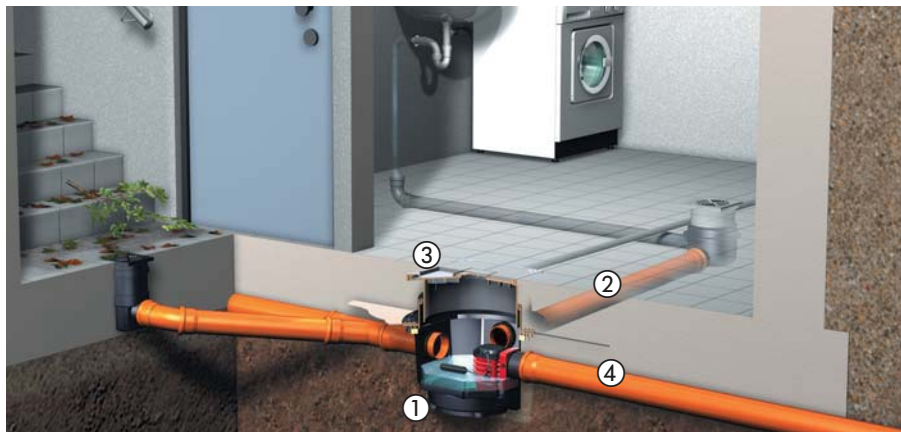
Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
 <p>1.8 l/sec flow rate Installation area 400 x 320 mm</p>	<p>Basement drain "The Universal" in PP with odour trap and sludge trap</p> <p>1 With twin flap backwater valve</p> <p>2 Without twin flap backwater valve</p> <p><input type="checkbox"/> with slotted cover 188 x 188 mm made of polymer, black, class K 3 (able to withstand loads up to max. 300 kg). Installation depth (D) 216 - 276 mm</p> <p><input type="checkbox"/> with slotted cover 187 x 187 mm and rim in stainless steel AISI 304, screwed, class L 15 (able to withstand loads up to max. 1.5 to). Installation depth (D) 216 - 266 mm</p> <p>   EN 1253-1 According to EN 13564 Type 5</p>	<p>1 Ø 110</p> <p>2 Ø 110</p> <p>1 Ø 110</p> <p>2 Ø 110</p>	<p>27611</p> <p>29111</p> <p>27621</p> <p>29121</p>

Drehfix

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
 <p>1.8 l/sec flow rate Installation area 320 x 190 mm</p>	<p>Basement drain Drehfix in ABS</p> <p><input type="checkbox"/> With twin flap backwater valve</p> <p><input type="checkbox"/> Without twin flap backwater valve</p> <p>with/without removable twin flap backwater valve and emergency closure which can be locked by hand, odour trap and sludge trap and integrated, height adjustable upper section.</p> <p>Lateral outlet 2.5°, Installation depth (D) 210 - 240 mm.</p> <p><input type="checkbox"/> with slotted cover 150 x 190 mm made of polymer, black, with Easy Entry Function. Class K 3 (able to withstand loads up to max. 300 kg).</p> <p>According to EN 13564 Type 5.</p>	<p>Ø 110</p> <p>Ø 110</p>	<p>27301</p> <p>33101</p>

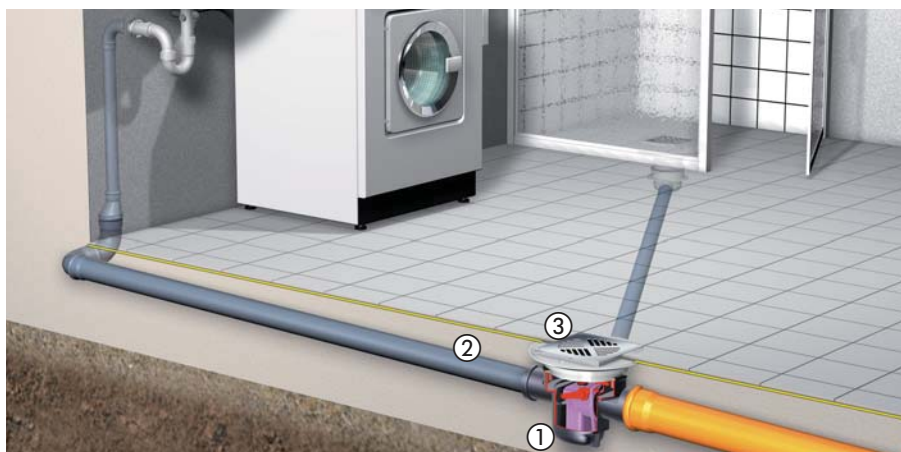
Basement drains with / without twin flap backwater valve

Installation example *Pumpfix S*



Pumpfix S ① is a basement drain for wastewater without sewage with gravity drainage to the sewer. Further inlets ② such as shower or washing machine can be connected to the drain installed in the concrete slab. Any surface water is drained through the cover ③ and discharged. In the event of backwater, the pump activates and pumps the building's wastewater into the flooded sewer ④.

Installation example *"The Universal"*



"The Universal" is a versatile basement drain ① with a choice of two $\varnothing 50$ mm inlets and one $\varnothing 75$ mm ② inlet to protect individual drains against backwater from the sewer. Cover made of plastic or stainless steel ③.

Installation example *Drehfix*



The *Drehfix* is a compact basement drain ① for protecting individual drains against backwater from the sewer. Thanks to its small design height, *Drehfix* fits into the recess of old cast drains. It provides possibilities for two further inlets ②.

Professional advantages

- **Vertically adjustable upper section for stepless installation in concrete slabs:** Rotatable, tiltable, vertically adjustable
- **Installation in waterproof concrete.** Gasket set to prevent groundwater infiltration.
- Elegant optical appearance due to recessed cover for on-site tiling
- Perfect for drainage of outdoor basement access steps with additional inlet connections
- **Wastewater discharging even during backwater**

Professional advantages

- **Installation in waterproof concrete.** Gasket set to prevent groundwater infiltration.
- **Alternative seal** with shallow bed upper section Art. # 48 968.
- **Hand-lockable emergency closure**
- **Tool-free maintenance:** Fast and simple cleaning with one-hand quick-release fastener.
- **Vertically adjustable upper section for stepless installation in concrete slabs:** Rotatable, tiltable, vertically adjustable
- **Three lateral inlets** Three lateral inlets (2 x $\varnothing 50$ and 1 x $\varnothing 75$) are attached as standard.

Professional advantages

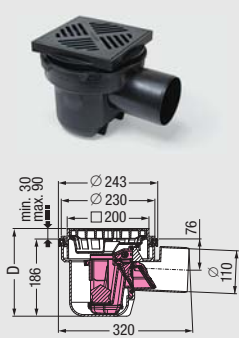
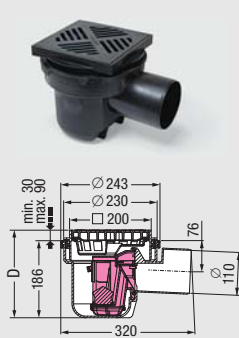


- **With twin flap backwater valve and odour trap**
- **Hand-lockable emergency closure** (Visual control without removing the cover).
- **Stepless installation** with extension section Art. # 38 670.
- **Tool-free maintenance.** Fast and simple cleaning with one-hand quick-release fastener.
- **Height adjustable upper section**

Basement drains

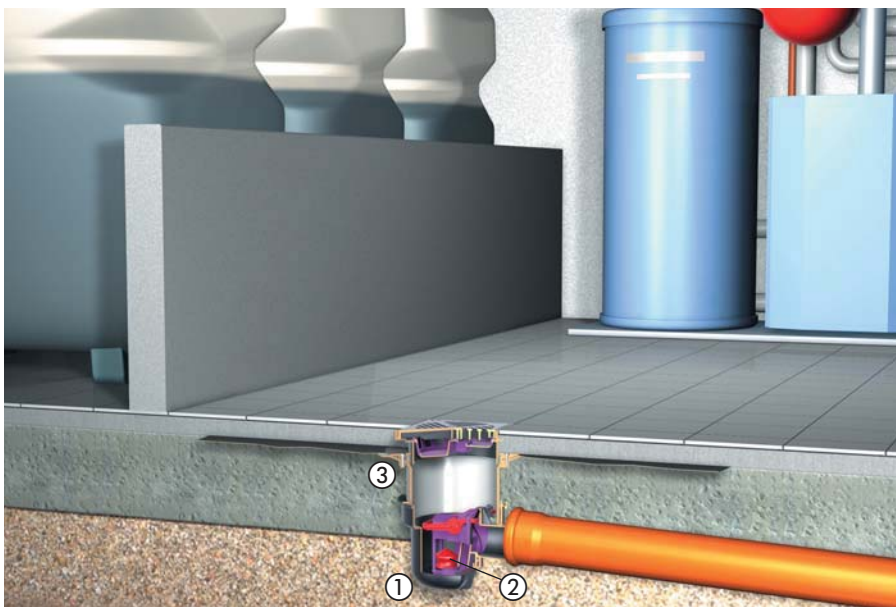
Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
 <p>1.6 l/sec flow rate Installation area 220 x 280 mm</p>	<p>Basement drain in PP Lateral outlet 2.5°, with removable odour trap and sludge trap. With upper section in PP</p> <ul style="list-style-type: none"> <input type="checkbox"/> with slotted cover 150 x 150 mm made of polymer, black. Class K 3 (able to withstand loads up to max. 300 kg). 	<p>Ø 110</p>	<p>36 501</p>
 <p>1.8 l/sec flow rate Installation area 220 x 180 mm</p>  <p>1.8 l/sec flow rate Installation area 180 x 180 mm</p>	<p>Basement drain in PP With removable odour trap With lip seal and protective cover for use during construction. With upper section in ABS</p> <p>Lateral outlet 2.5°</p> <ul style="list-style-type: none"> <input type="checkbox"/> with slotted cover 138 x 138 mm in ABS, black. Class K 3 (able to withstand loads up to max. 300 kg). <p>Vertical outlet</p> <ul style="list-style-type: none"> <input type="checkbox"/> with slotted cover 138 x 138 mm in ABS, black. Class K 3 (able to withstand loads up to max. 300 kg). 	<p>Ø 110</p> <p>Ø 110</p>	<p>45 110.40</p> <p>45 210.40</p>
 <p>1.8 l/sec flow rate Installation area 220 x 180 mm</p>  <p>1.8 l/sec flow rate Installation area 180 x 180 mm</p>	<p>Basement drain in PP Without removable odour trap, with sludge trap With lip seal and protective cover for use during construction. With upper section in ABS</p> <p>Lateral outlet 2.5°</p> <ul style="list-style-type: none"> <input type="checkbox"/> with slotted cover 138 x 138 mm in ABS, black. Class K 3 (able to withstand loads up to max. 300 kg). <p>Vertical outlet</p> <ul style="list-style-type: none"> <input type="checkbox"/> with slotted cover 138 x 138 mm in ABS, black. Class K 3 (able to withstand loads up to max. 300 kg). 	<p>Ø 110</p> <p>Ø 110</p>	<p>34 101</p> <p>34 102</p>



Volatile liquid traps with / without twin flap backwater valve

Volatile liquid traps			
Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
 <p>1.0 l/sec flow rate Installation area 400 x 250 mm</p>	<p>Volatile liquid trap made of polymer</p> <p>With twin flap backwater valve, with integrated odour trap and sludge trap</p> <p><input type="checkbox"/> with slotted cover 188 x 188 mm made of polymer, black, class K 3 (able to withstand loads up to max. 300 kg).</p> <p>Installation depth (D) 216 - 276 mm</p> <p>EN 13564 Type 5 EN 1253-3 and 5</p>	Ø 110	52 101
 <p>1.0 l/sec flow rate Installation area 400 x 250 mm</p>	<p>Volatile liquid trap made of polymer</p> <p>With integrated odour trap and sludge trap</p> <p><input type="checkbox"/> with slotted cover 188 x 188 mm made of polymer, black, class K 3 (able to withstand loads up to max. 300 kg).</p> <p>Installation depth (D) 216 - 276 mm</p> <p>  EN 1253-3 and 5</p>	Ø 110	51 101

Installation example volatile liquid traps


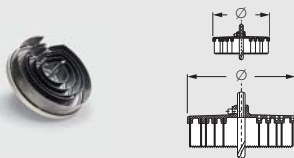





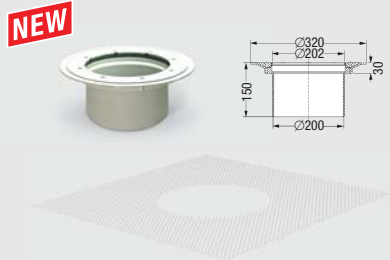
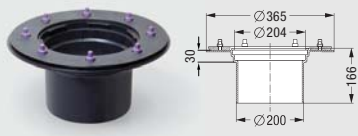


Volatile liquid traps ① are the ideal drain for the boiler room in the basement. They use an integrated floater ② to guarantee reliable retention of volatile liquids escaping from heating systems and backwater flaps to prevent wastewater penetration from the sewage system. There is a special upper section ③ with extension available as an accessory for installation in waterproof concrete.

Professional advantages

- **Easy installation** with adjustable upper section (vertically and laterally adjustable)
- Sealing gasket between extension section and flange - Article # 27 298 (prevents floor moisture damage)
- **Waterproofing seal** - Article # 48 968
- **Cast iron cover** handles higher loads up to 12.5 tons (load class B) - Article # 48 985
- Upgradable to twin flap backwater valve
- **Quick and easy cleaning** with one-hand locking clasp

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
<p>For models made on or after Jan 2011</p>  <p>1</p> <p>2</p> <p>Ø105</p> <p>37</p> <p>Ø109</p> <p>4</p>	<p>Cover plate, surface water tight with drain Ø 75, class A 15, includes <i>Multistop</i></p> <p>1 recessed for on-site tiling, grey, for tile thicknesses of 18 mm</p> <p>2 with integrated grating, black</p> <p>for article numbers: 28 451</p> <p>Multistop odour, foam, rodent and insect stop</p> <p>Ventilation always required when in use!</p> <p>Hair filter made of polymer</p>	<p>-</p> <p>-</p> <p>-</p> <p>-</p>	<p>83 045</p> <p>83 046</p> <p>43 500</p> <p>43 700</p>
 <p>384</p> <p>42</p> <p>384</p> <p>42</p>	<p>Cover plate, surface water tight, class A 15 incl. gasket Art. # 173-145</p> <p><input type="checkbox"/> black Ventilation always required when in use!</p> <p><input type="checkbox"/> recessed for on-site tiling, grey, for tile thicknesses of 18 mm. Ventilation always required when in use!</p> <p>for article numbers: 28 451</p>	<p>-</p> <p>-</p>	<p>83 050</p> <p>83 052</p>
 <p>384</p> <p>42</p>	<p>Cover plate, class A 15</p> <p><input type="checkbox"/> with integrated grating, black class A 15</p> <p>for article numbers: 28 451</p>	<p>-</p>	<p>83 053</p>
 <p>16</p> <p>Ø458</p> <p>145,5</p> <p>224</p> <p>max. 191,7</p> <p>390,5</p> <p>Ø414</p>	<p>Extension section with centre flange with elastomer sealing sheet made of NK/SBR Ø 800 mm, incl. screws for article numbers: 28 451</p>	<p>-</p>	<p>83 075</p>
 <p>10</p> <p>Ø590</p> <p>40</p> <p>180</p> <p>230</p> <p>Ø414</p> <p>When multiple extension sections are used make sure that access to valve is still possible!</p>	<p>Extension section with flange and counter flange for connection to an on-site sealing sheet made of polymer, incl. screws max. extension 140 mm for article numbers: 28 451</p>	<p>-</p>	<p>83 073</p>
 <p>Waterproof concrete installation tested by MFPA Leipzig UB 5.1/11-452-1</p>	<p>Gasket set for installation in waterproof concrete consisting of: Counter flange made of polymer, incl. screws, elastomer waterproof membrane in NK/SBR Ø 800 mm for article numbers: 28 451</p>	<p>-</p>	<p>83 023</p>

Pumpfix S / "The Universal" / Drehfix / Basement drains			Accessories
Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
	<p>Extension section incl. gasket, max. extension 180 mm for article numbers: 28 451 When multiple extension sections are used make sure that access to valve is still possible !</p> <p>Pipe sealing gasket for article numbers: 28 451</p>	- Ø 50 Ø 75 Ø 110	83070 850 114 850 116 850 117
	<p>Hole saw Ø 50, 75, 110 (Saw blade holder Ø = 145 mm)</p> <p>Hole saw Ø 50, 75, 110, 125 and 160 (Saw blade holder Ø = 190 mm)</p>	- -	50 101 50 100
	<p>Transition section Ø 110 / 75 Ø 110 socket / Ø 75 spigot can be used as an upper section, incl. gasket for article numbers: 27 611, 27 621, 27 301, 29 111, 29 121, 33 101, 36 501</p>	Ø 75/110	27 602
	<p>Variofix shallow bed upper section with slotted cover and rim in stainless steel AISI 304, screwed, class L 15, with mesh fabric for article numbers: 27 611, 27 621, 29 111, 29 121, 51 101, 52 101</p>	-	48968
	<p>Upper section with support rim in Ecoguss with round slotted cover in Ecoguss Ø 235 mm, class B 125, with Lock & Lift System for article numbers: 27 611, 27 621, 29 111, 29 121, 51 101, 52 101</p>	-	67 985

"The Universal" / Drehfix / Basement drains			Accessories
Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
	<p>Extension section with pressure sealing flange and counter flange Waterproofing layer against ground moisture H = 150 mm for article numbers: 27 611, 27 621, 29 111, 29 121, 51 101, 52 101</p> <p>Mesh fabric for article numbers: 27 298</p>	- -	27 298 046-056
	<p>Extension section in Ecoguss with pressure sealing flange and counter flange for installation in waterproof concrete H = 166 mm for article numbers: 27 611, 27 621, 29 111, 29 121, 51 101, 52 101</p>	-	48958
	<p>Elastomer waterproof membrane in NBR for article numbers: 48 958</p>	-	48982
	<p>Extension section H = 175 mm, with lip seal for article numbers: 27 611, 27 621, 29 111, 29 121, 51 101, 52 101</p>	-	48988

"The Universal" / Drehfix / Basement drains

Accessories

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
	Extension section H = 183 mm for article numbers: 27 301, 33 101	-	38 670
	Inlet sections incl. flat seal for article numbers: 27 301, 33 101	Ø 50 Ø 75 Ø 110	39 005 39 007 39 100
	Extension section Can be extended by 80 mm for article numbers: 36 501	-	36 590
	Extension section with lip seal, without lateral inlet for article numbers: 34 101, 34 102, 45 210.40, 45 110.40	-	48 987
	Waterproofing flange with counter flange for article numbers: 34 101, 34 102, 45 210.40, 45 110.40	-	48 410
	Pressure sealing flange for article numbers: 34 101, 34 102, 45 210.40, 45 110.40	-	48 402
	Elastomer waterproof membrane in NBR for article numbers: 48 402	-	48 981
	Multistop odour, foam, rodent and insect stop for article numbers: 34 101, 34 102, 45 210.40, 45 110.40	-	48 500
	Hair filter for article numbers: 34 101, 34 102, 45 210.40, 45 110.40	-	48 700
	Bell-shaped odour trap insert Seal water height 50 mm for article numbers: 34 101, 34 102, 45 210.40, 45 110.40	-	27 169
	Sludge trap for article numbers: 34 101, 34 102, 45 210.40, 45 110.40	-	48 168
	Adapter for retrofitting of 27 603 (twin flap backwater valve) and 27 605 (odour trap insert) for basement drains 27 300, 27 500, 28 650, 28 950 until 12/95 and 29 100 until 9/95	-	27 608
	Rodent protection for article numbers: 27 611, 27 621, 27 301, 29 111, 29 121, 33 101, 51 101	-	27 609



Stainless steel drains and channels

**Clean out
System 100**

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**Floor drains *Ferrofix*
System 125**

Page **218 – 223**

**Floor drains *Ferrofix*
System 200**

Page **224 – 229**

Channel drains *Ferrofix*

Page **230 – 231**

Slotted channels *Ferrofix*

Page **232**



SmartSelect makes planning quite simply quicker - visit smartselect.kessel.com for the configurator for alternative waterproofing options.

Top-quality drains / channels made of stainless steel



System 125
With connection flange, pressure sealing flange, twin sealing

System 200

Floor drains
for all types of sealing gaskets



FLOOR DRAINS

made of stainless steel AISI 304

INDIVIDUAL

Comprehensive range of drains for all draining requirements can be combined to meet individual requirements.

CONNECTIONS

Outlets for SML pipe connection.

HYGIENE

Easy maintenance and care thanks to removable odour trap in the installed state.

INSTALLATION

Easy installation thanks to variable upper sections which can be turned, tilted and height-adjusted (Fig. 1).

ACCESSORIES

Practical accessories with approval Z-19.17-1719: fire and flue gas insert *Fire-Kit* System 125 or 200 and *Quick-Fit* passage seal with or without fire protection (Fig. 2). Only for System 125 drain body with vertical outlet.

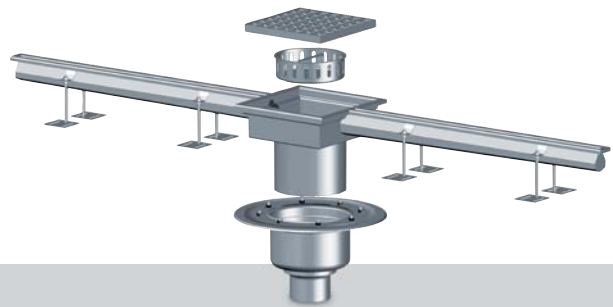


Complete range for draining wet rooms and food-processing plants. Our stainless steel range offers practical solution variants for every area of application.

The stainless steel AISI 304 (or AISI 316L on request) complies fully with the requirements for food-processing plants and guarantees perfect functional use. Our grate covers are compliant with DIN 1253-1.



System 125



System 125 or System 200

Channel drains

Express variant available ex stock

Channel drains / slotted channels

customised combinations possible

CHANNEL DRAINS

made of stainless steel AISI 304

VARIANTS

Complete channels with outlet socket as *Express* version (Fig. 3), channel profiles with adhesive edge for shallow bed waterproofing layers or as a version in a modular system for the customised combination of individual elements.

All slotted grills made of stainless steel, non-slip, class L 15 (Fig. 4).

DRAIN BODY

Suitable *Ecoguss*, *Practicus* or *Ferrofix* drain bodies available as optional accessories.

STABLE

With adjustable feet for height levelling.

ACCESSORIES

Practical accessories with approval Z-19.17-1719: fire and flue gas insert *Fire-Kit* System 125 or 200 and *Quick-Fit* passage seal with or without fire protection (Fig. 2). Only for System 125 drain body with vertical outlet.

CHANNEL DRAINS / SLOTTED CHANNELS

made of stainless steel AISI 304

INDIVIDUAL

Modular system for the customised combination of individual elements. There is always a choice of three channel profiles: U-profile, adhesive edge for shallow bed waterproofing layers (Fig. 4) and tile connection bracket (not for shallow bed waterproofing layers). Large selection of grating and covers (Fig. 5).

DRAIN BODY

Suitable *Ecoguss*, *Practicus* or *Ferrofix* drain bodies available as optional accessories.

STABLE

With adjustable feet for height levelling.

ACCESSORIES

Practical accessories with approval Z-19.17-1719: fire and flue gas insert *Fire-Kit* System 125 or 200 and *Quick-Fit* passage seal with or without fire protection (Fig. 2). Only for System 125 drain body with vertical outlet.

Drains / channels
in stainless steel

Drains

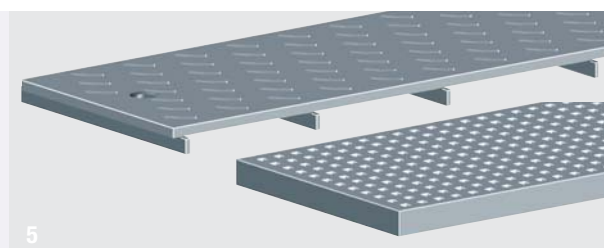
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3



4



5


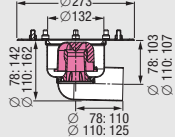

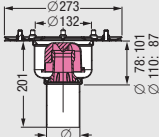
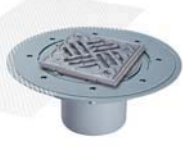
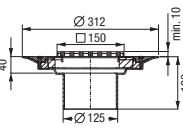

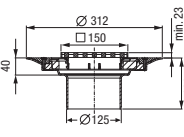

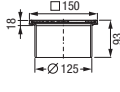

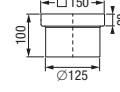
Clean out		For direct access to piping			
Illustration	Article description	Cover mm incl. rim	Connection Ø	Article #	
	Upper section in ABS with closed cover made of stainless steel AISI 304, screwed, with gasket, class K 3	150 x 150	110	27 191G	
	Upper section in ABS with rim and closed cover made of stainless steel AISI 304, screwed, with gasket, class L 15	150 x 150	110	27 196G	
	Cleaning closure in stainless steel AISI 304 with closed, screw-type cover plate made of stainless steel AISI 304, gastight and a backwater-proof seal up to 0.5 bar, tileable, class L 15	150 x 150	110	27 177-PLF	
	Upper section in stainless steel AISI 304 with a closed cover made of stainless steel AISI 304, screwed odour-tight, with gasket, with a backwater-proof seal up to 0.5 bar, class L 15	150 x 150	110	27 177-PL	
	Cleaning closure in stainless steel AISI 304 with glue flange, with closed, screw-type cover plate made of stainless steel AISI 304, screwed odour-tight, with gasket, gastight and a backwater-proof seal up to 0.5 bar, tileable, class L 15	150 x 150	110	27 177-PLF-KF	
	Upper section in stainless steel AISI 304 with glue flange and a closed cover made of stainless steel AISI 304, screwed odour-tight, with gasket, with a backwater-proof seal up to 0.5 bar, class L 15	150 x 150	110	27 177-PL-KF	

Superflat renovation drains with connection flange or glue flange made of stainless steel AISI 304

Illustration	Article description	Connection Ø	Article #
<p>NEW</p>	<p>Renovation drain made of stainless steel AISI 304 Lateral outlet, with removable odour trap, sealing water height 50 mm</p> <p><input type="checkbox"/> with slotted cover 138 x 138 mm made of stainless steel AISI 304, class L 15</p> <p>Design height only 107 mm</p> <p>Custom made product (delivery time on request)</p>	50	59 305
<p>NEW</p>	<p>Renovation drain made of stainless steel AISI 304 Lateral outlet, with removable odour trap, sealing water height 50 mm</p> <p><input type="checkbox"/> with slotted cover 138 x 138 mm made of stainless steel AISI 304, screwed, class K 3</p> <p>Design height only 100 mm</p> <p>Custom made product (delivery time on request)</p>	50	59 325
<p>NEW</p>	<p>Renovation drain made of stainless steel AISI 304 Lateral outlet, with removable odour trap and glue flange, sealing water height 50 mm</p> <p><input type="checkbox"/> with slotted cover 138 x 138 mm made of stainless steel AISI 304, class L 15</p> <p>Design height only 107 mm</p> <p>Custom made product (delivery time on request)</p>	50	59 315
<p>NEW</p>	<p>Renovation drain made of stainless steel AISI 304 Lateral outlet, with removable odour trap and glue flange, sealing water height 50 mm</p> <p><input type="checkbox"/> with slotted cover 138 x 138 mm made of stainless steel AISI 304, screwed, class K 3</p> <p>Design height only 100 mm</p> <p>Custom made product (delivery time on request)</p>	50	59 335

Floor drains *Ferrofix* with pressure sealing flange

Matrix order system

Drain body	Upper sections			
<p>Floor drain <i>Ferrofix</i> in stainless steel AISI 304 with pressure sealing flange with odour trap, connection to SML-pipe</p>    	<p>Shallow bed upper section in ABS, with mesh fabric</p>   <p>with slotted cover 138 x 138 mm and rim in stainless steel AISI 304, non-slip, class L 15, screwed</p> <p>Art. # 48 907</p>	<p>Shallow bed upper section in ABS, with mesh fabric</p>   <p>with anti-slip drain cover 138 x 138 mm and rim in stainless steel AISI 304, non-slip, class L 15</p> <p>Art. # 48 965</p>	<p>Upper section in ABS</p>   <p>with slotted cover 138 x 138 mm and rim in stainless steel AISI 304, non-slip, class L 15, screwed</p> <p>Art. # 48 176</p>	<p>Upper section in stainless steel AISI 304</p>   <p>with anti-slip drain cover 138 x 138 mm and rim in stainless steel AISI 304, class L 15 / M 125*</p> <p>Art. # 54 914</p> <p><small>* On-site lining work required</small></p>
<p style="text-align: center;">Ø 78</p>	<p style="text-align: center;">Complete drain comprising a combination of the drain body and upper section</p>			
<p>Lateral outlet Art. # 54 200</p>	<p style="text-align: center;">54 200.52</p>	<p style="text-align: center;">54 200.21</p>	<p style="text-align: center;">54 200.61</p>	<p style="text-align: center;">54 200.20</p>
<p>Vertical outlet Art. # 54 210</p>	<p style="text-align: center;">54 210.52</p>	<p style="text-align: center;">54 210.21</p>	<p style="text-align: center;">54 210.61</p>	<p style="text-align: center;">54 210.20</p>
<p style="text-align: center;">Ø 110</p>	<p style="text-align: center;">Complete drain comprising a combination of the drain body and upper section</p>			
<p>Lateral outlet Art. # 54 220</p>	<p style="text-align: center;">54 220.52</p>	<p style="text-align: center;">54 220.21</p>	<p style="text-align: center;">54 220.61</p>	<p style="text-align: center;">54 220.20</p>
<p>Vertical outlet Art. # 54 230</p>	<p style="text-align: center;">54 230.52</p>	<p style="text-align: center;">54 230.21</p>	<p style="text-align: center;">54 230.61</p>	<p style="text-align: center;">54 230.20</p>

* Draining capacity valid for Ø 110 vertical outlet. Other variants 1.8 l/sec. 20 mm threshold / 10 mm threshold


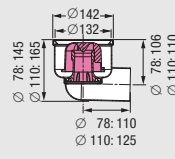

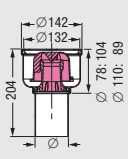
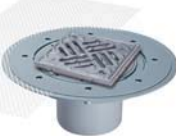
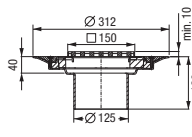

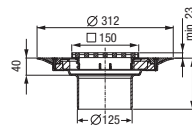

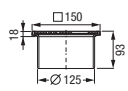

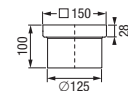


EN 1253

Accessories see page 223

Floor drains *Ferrofix* with connection flange

Matrix order system

Drain body	Upper sections			
<p>Floor drain <i>Ferrofix</i> in stainless steel AISI 304 with connection flange with odour trap, connection to SML-pipe</p>    	<p>Shallow bed upper section in ABS, with mesh fabric</p>   <p>with slotted cover 138 x 138 mm and rim in stainless steel AISI 304, non-slip, class L 15, screwed</p> <p>Art. # 48 907</p>	<p>Shallow bed upper section in ABS, with mesh fabric</p>   <p>with anti-slip drain cover 138 x 138 mm and rim in stainless steel AISI 304, non-slip, class L 15</p> <p>Art. # 48 965</p>	<p>Upper section in ABS</p>   <p>with slotted cover 138 x 138 mm and rim in stainless steel AISI 304, non-slip, class L 15, screwed</p> <p>Art. # 48 176</p>	<p>Upper section in stainless steel AISI 304</p>   <p>with anti-slip drain cover 138 x 138 mm in stainless steel AISI 304, class L 15 / M 125*</p> <p>* On-site lining work required</p> <p>Art. # 54 914</p>
Ø 78	Complete drain comprising a combination of the drain body and upper section			
Lateral outlet Art. # 54 400	54 400.52	54 400.21	54 400.61	54 400.20
Vertical outlet Art. # 54 410	54 410.52	54 410.21	54 410.61	54 410.20
Ø 110	Complete drain comprising a combination of the drain body and upper section			
Lateral outlet Art. # 54 420	54 420.52	54 420.21	54 420.61	54 420.20
Vertical outlet Art. # 54 430	54 430.52	54 430.21	54 430.61	54 430.20

* Draining capacity valid for Ø 110 vertical outlet. Other variants 1.8 l/sec. 20 mm threshold / 10 mm threshold



EN 1253

Accessories see page 223

Upper sections in stainless steel AISI 304

With connection flange

Illustration	Article description	Cover mm incl. rim	Connection Ø	Article #
	Upper section in stainless steel AISI 304 with anti-slip drain cover made of stainless steel AISI 304, class L 15 / M 125 (On-site lining work required)	150 x 150	125	54 914
	Upper section in stainless steel AISI 304 with anti-slip drain cover made of stainless steel AISI 304, class L 15 / M 125 (On-site lining work required)	200 x 200	125	54 916
	Upper section in stainless steel AISI 304 with slotted cover and rim made of stainless steel AISI 304, screwed, class D (On-site lining work required)	200 x 200	125	59 400*
	Upper section in stainless steel AISI 304 with slotted cover made of stainless steel AISI 304, class K 3	150 x 150	125	48 977
	Upper section in stainless steel AISI 304 with a closed cover made of stainless steel AISI 304, screwed odour-tight, with gasket with a backwater-proof seal up to 0.5 bar, class L 15	150 x 150	125	54 912
	Upper section in stainless steel AISI 304 Cleaning closure closed, screw-type cover plate, gastight and a backwater-proof seal up to 0.5 bar, tileable, class L 15	150 x 150	125	54 910
	Upper section in stainless steel AISI 304 with cover plate and round inlet slot with insertion socket connection Ø 50, as free inlet to the floor drain, class L 15	150 x 150	125	48 435
	Sanitary drain cover in stainless steel AISI 304 with gas and liquid tight cover made of stainless steel AISI 304, cover available with removal threads (for connection of removal tool), class L 15	150 x 150	125	59 011*
	Sanitary drain cover in stainless steel AISI 304 with gas and liquid tight cover made of stainless steel AISI 304, with a backwater-proof seal up to 0.5 bar, screwed, cover available with removal threads (for connection of removal tool), class L 15	150 x 150	125	59 013*
	Upper section in stainless steel AISI 304 with round slotted cover made of stainless steel AISI 304, glue flange available upon request, class L 15	Ø 160	125	59 166*
	Upper section in stainless steel AISI 304 for PVC floorings with cover in stainless steel AISI 304, class L 15, screwed. For use with 1-4 mm PVC / vinyl flooring.	Ø 133	125	59 192*

Upper sections in ABS / *Ecoguss* With connection flange

Illustration	Article description	Cover mm incl. rim	Connection Ø	Article #
	Upper section in ABS with rim and closed cover made of stainless steel AISI 304, screwed, with gasket, class L 15	150 x 150	125	54 920
	Upper section in ABS with slotted cover, made of stainless steel AISI 304, screwed, class K 3,	150 x 150	125	48 950
	Upper section in ABS with slotted cover/rim made of stainless steel AISI 304, screwed, class L 15	150 x 150	125	48 951
	Upper section in ABS with slotted cover made of stainless steel AISI 304 class K 3	130 x 130	125	48 165
	Upper section in ABS with design cover <i>Kessel</i> and rim, with <i>Lock & Lift</i>, made of stainless steel AISI 304, class K 3 / L 15	132 x 132	125	48 201
	Parking deck drain <i>Ecoguss</i>, square Vertical outlet, for connection to SML-pipe/ plastic pipe, with sludge trap with square upper section in <i>Ecoguss</i> with connection flange 247 mm x 247 mm and round slotted cover Ø 235 mm, class B 125, with <i>Lock & Lift</i>-System	247 x 247	125	48 502
	Parking deck drain <i>Ecoguss</i>, round Vertical outlet, for connection to SML-pipe/ plastic pipe, with sludge trap with round upper section in <i>Ecoguss</i> with connection flange Ø 247 mm and round slotted cover Ø 235 mm, class B 125, with <i>Lock & Lift</i>-System	Ø 247	125	48 504

Drains / channels
in stainless steel

4

Shallow bed upper sections in ABS Met aansluitrand

	Upper section in ABS incl. mesh fabric with slotted cover and rim made of stainless steel AISI 304, non-slip, screwed, class L 15	150 x 150	125	48 907
	Upper section in ABS incl. mesh fabric with slotted cover and rim made of stainless steel AISI 304, non-slip, class L 15	150 x 150	125	48 965
	Upper section in ABS incl. mesh fabric with slotted cover and rim made of stainless steel AISI 304, screwed, class L 15	150 x 150	125	48 963

Upper sections in stainless steel AISI 304

With glue flange

Illustration	Article description	Cover mm incl. rim	Connection Ø	Article #
	Upper section in stainless steel AISI 304 with glue flange, with anti-slip drain cover made of stainless steel AISI 304, class L 15 / M 125	150 x 150	125	54 915
	Upper section in stainless steel AISI 304 with glue flange, with anti-slip drain cover made of stainless steel AISI 304, class L 15 / M 125	200 x 200	125	54 917
	Upper section in stainless steel AISI 304 with glue flange, with slotted cover made of stainless steel AISI 304, class K 3	150 x 150	125	54 919
	Upper section in stainless steel AISI 304 with glue flange and a closed cover made of stainless steel AISI 304, screwed odour-tight, with gasket, with a backwater-proof seal up to 0.5 bar, class L 15	150 x 150	125	54 913
	Cleaning closure in stainless steel AISI 304 with glue flange, with closed, screw-type cover plate, gastight and a backwater-proof seal up to 0.5 bar, tileable, class L 15	150 x 150	125	54 911
	Sanitary drain cover in stainless steel AISI 304 with glue flange, with gas and liquid tight cover made of stainless steel AISI 304, class L 15	150 x 150	125	59 012 *
	Sanitary drain cover in stainless steel AISI 304 with glue flange, with gas and liquid tight cover made of stainless steel AISI 304, with a backwater-proof seal up to 0.5 bar, screwed, class L 15	150 x 150	125	59 014 *
	Upper section "Easy Open" in stainless steel AISI 304 with glue flange, with perforated cover made of stainless steel AISI 304, class K 3 Product information see page 229	150 x 150	125	59 010 *
	Upper section in stainless steel AISI 304 with glue flange, with slotted cover made of stainless steel AISI 304, class K 3 Not usable with System 125 sludge trap accessory	100 x 100	125	59 165 *

Floor drains <i>Ferrofix</i>			Accessories
Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
 	Extension section in PP, with lip seal 1 without lateral inlet 2 with lateral inlet Ø 50	- -	48 987 48 989
	Sludge basket in stainless steel AISI 304	-	48 636
	Sludge basket made of polymer fits all drain bodies <i>Ferrofix</i> System 125	-	48 168
	Extension section in stainless steel AISI 304, with pressure sealing flange in stainless steel AISI 304, flange width 70 mm, Ø 273 mm	-	54 187
	Extension section in stainless steel AISI 304, with pressure sealing flange in stainless steel AISI 304, side inlet with plug-in sleeve Ø 50/40. flange width 70 mm, Ø 273 mm	-	54 189
	Odour trap in stainless steel AISI 304 sealing water height 50 mm	-	54 188
	Fire-Kit Fire protection insert can only be retrofitted for vertical drains Only use in combination with an odour trap	Ø 110 Ø 58/78/83	48 100 48 099
Certification no. Z-19.17-1719			
 	Quick-Fit the passage seal for core drilling for drain body vertical outlet 1 with fire protection (only use in combination with <i>Fire-Kit</i> fire protection insert) 2 without fire protection	- -	48 990 48 991
1 Certification no. Z-19.17-1719			

Floor drains *Ferrofix* with pressure sealing flange

Matrix order system

Drain body	Upper sections			
<p>Floor drain <i>Ferrofix</i> in stainless steel AISI 304 with pressure sealing flange with odour trap, connection to SML-pipe</p> <p>1 Lateral outlet</p> <p>2 Vertical outlet</p> <p>For low installation height:</p> <p>Floor drain <i>Ferrofix</i> in stainless steel AISI 304 with pressure sealing flange with odour trap in stainless steel AISI 304, connection to SML-pipe</p> <p>3 Lateral outlet</p>	<p>Shallow bed upper section in ABS, with mesh fabric</p> <p>with slotted cover 200 x 200 mm and rim in stainless steel AISI 304, non-slip, class L 15, screwed</p> <p>Art. # 48 978</p>	<p>Shallow bed upper section in ABS, with mesh fabric</p> <p>with anti-slip drain cover 190 x 190 mm and rim in stainless steel AISI 304, non-slip, class L 15</p> <p>Art. # 48 969</p>	<p>Upper section in stainless steel AISI 304</p> <p>with anti-slip drain cover 190 x 190 mm in stainless steel AISI 304, non-slip, class M 125</p> <p>Art. # 57 410</p>	<p>Upper section in stainless steel AISI 304</p> <p>with slotted cover 190 x 190 mm in stainless steel AISI 304, class M 125</p> <p>Art. # 57 420</p>
Ø 110	Complete drain comprising a combination of the drain body and upper section			
1 Lateral outlet Art. # 55 550	55 550.52	55 550.21	55 550.20	55 550.30
2 Vertical outlet Art. # 55 600	55 600.52	55 600.21	55 600.20	55 600.30
3 Lateral outlet Art. # 142 025	142 025.52	142 025.21	142 025.20	142 025.30

Accessories see page 228

Floor drains *Ferrofix* with glue flange

Matrix order system

Drain body	Upper sections			
<p>Floor drain <i>Ferrofix</i> in stainless steel AISI 304 with connection flange with odour trap, connection to SML-pipe</p> <p>1 Lateral outlet</p> <p>2 Vertical outlet</p> <p>For low installation height:</p> <p>Floor drain <i>Ferrofix</i> in stainless steel AISI 304 with connection flange with odour trap in stainless steel AISI 304, connection to SML-pipe</p> <p>3 Lateral outlet</p>	<p>Shallow bed upper section in ABS, with mesh fabric</p> <p>with slotted cover 200 x 200 mm and rim in stainless steel AISI 304, non-slip, class L 15, screwed</p> <p>Art. # 48 978</p>	<p>Shallow bed upper section in ABS, with mesh fabric</p> <p>with anti-slip drain cover 190 x 190 mm and rim in stainless steel AISI 304, non-slip, class L 15</p> <p>Art. # 48 969</p>	<p>Upper section in stainless steel AISI 304</p> <p>with anti-slip drain cover 190 x 190 mm in stainless steel AISI 304, non-slip, class M 125</p> <p>Art. # 57 410</p>	<p>Upper section in stainless steel AISI 304</p> <p>with slotted cover 190 x 190 mm in stainless steel AISI 304, class M 125</p> <p>Art. # 57 420</p>
Ø 110	Complete drain comprising a combination of the drain body and upper section			
<p>1 Lateral outlet Art. # 55 350</p>	55 350.52	55 350.21	55 350.20	55 350.30
<p>2 Vertical outlet Art. # 55 400</p>	55 400.52	55 400.21	55 400.20	55 400.30
<p>3 Lateral outlet Art. # 142 026</p>	142 026.52	142 026.21	142 026.20	142 026.30

Accessories see page 228

Shallow bed upper sections in ABS

Illustration	Article description	Cover mm incl. rim	Connection Ø	Article #
	Upper section in ABS incl. mesh fabric with slotted cover and rim made of stainless steel AISI 304, non-slip, screwed, class L 15	200 x 200	200	48 978
	Upper section in ABS incl. mesh fabric with anti-slip drain cover and rim made of stainless steel AISI 304, non-slip, class L 15	200 x 200	200	48 969

Upper sections in stainless steel AISI 304

With connection flange

	Upper section in stainless steel AISI 304 with anti-slip drain cover made of stainless steel AISI 304, non-slip, class M 125	200 x 200	200	57 410
	Upper section in stainless steel AISI 304 with anti-slip drain cover made of stainless steel AISI 304, non-slip, class M 125 (On-site lining work required)	300 x 300	200	57 415
	Upper section in stainless steel AISI 304 with slotted cover made of stainless steel AISI 304, class M 125	200 x 200	200	57 420
	Upper section in stainless steel AISI 304 with slotted cover made of stainless steel AISI 304, class M 125 (On-site lining work required)	300 x 300	200	57 425
	Upper section in stainless steel AISI 304 with round-slot cover plate made of stainless steel AISI 304, non-slip, class M 125 (On-site lining work required)	300 x 300	200	57 435

Upper sections in stainless steel AISI 304 With glue flange

Illustration	Article description	Cover mm incl. rim	Connection Ø	Article #
	Upper section in stainless steel AISI 304 with glue flange, with anti-slip drain cover made of stainless steel AISI 304, class L 15 / M 125	200 x 200	200	57 410-KF*
	Upper section in stainless steel AISI 304 with glue flange, with anti-slip drain cover made of stainless steel AISI 304, class L 15 / M 125	300 x 300	200	57 415-KF*
	Upper section in stainless steel AISI 304 nach DIN 15999, with glue flange, with slotted cover made of stainless steel AISI 304, telescopic height adjustment up to 50 mm, with welded glue flange made of flat steel 50 x 3 mm, class L 15 / M 125	200 x 200	200	57 420-KF*
	Upper section in stainless steel AISI 304 nach DIN 15999, with glue flange, with slotted cover made of stainless steel AISI 304, telescopic height adjustment up to 50 mm, with welded glue flange made of flat steel 50 x 3 mm, class L 15 / M 125	300 x 300	200	57 425-KF*
	Upper section in stainless steel AISI 304 nach DIN 15999, with glue flange, with round-slot cover plate made of stainless steel AISI 304, telescopic height adjustment up to 50 mm, with welded glue flange made of flat steel 50 x 3 mm, class L 15 / M 125	200 x 200	200	57 430-KF*
	Upper section in stainless steel AISI 304 nach DIN 15999, with glue flange, with round-slot cover plate made of stainless steel AISI 304, telescopic height adjustment up to 50 mm, with welded glue flange made of flat steel 50 x 3 mm, class L 15 / M 125	300 x 300	200	57 435-KF*
	Upper section in stainless steel AISI 304 with glue flange and a closed cover made of stainless steel AISI 304, lateral drain slots, with glue flange made of flat steel 50 x 3 mm, class L 15 / M 125 Safety valve system made of stainless steel	200 x 200	200	48 954-S-V2A-KF*
	Upper section in stainless steel AISI 304 with glue flange made of stainless steel AISI 304, tiltable with glue flange made of flat steel 50 x 3 mm, class K 3 Valve system made of stainless steel	200 x 200	200	48 954-Z-V2A-KF*

Drains / channels in stainless steel

Drains

4

Floor drains <i>Ferrofix</i>			Accessories
Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
	Variofix with slotted cover and rim in stainless steel AISI 304, screwed, class L 15, with mesh fabric	-	48 968
	Upper section with support rim in <i>Ecoguss</i> with round slotted cover in <i>Ecoguss</i> Ø 235 mm, class B 125, with <i>Lock & Lift</i> System	-	67 985
	Extension section in PP, with lip seal on request also in AISI 304 / AISI 316L	-	48 988
	Extension section in stainless steel AISI 304 <input type="checkbox"/> with pressure sealing flange <input type="checkbox"/> with connection flange	- -	27 185 27 186
	Odour trap in stainless steel AISI 304, removable, sealing water height 70 mm	-	27 182
<p>Certification no. Z-19.17-1719</p>	Fire-Kit 200 Fire protection insert can only be retrofitted for drains with vertical outlet Only use in combination with an odour trap	-	48 200
	Sludge basket in stainless steel AISI 304 <input type="checkbox"/> Height 60 mm (H) <input type="checkbox"/> Height 150 mm (H)	- -	67 302 67 301
	Sludge basket in PE-HD	-	67 300
	Special key for safety lock, made of stainless steel V2A, for Art. # 48 954-S-V2A-KF	-	48 954-SL

Drains *Ferrofix* in stainless steel AISI 304

Low profile floor surface applications 15 mm*

When planning renovations, specialists often face the problem of using products in very shallow floor structures that still meet the sealing requirements.

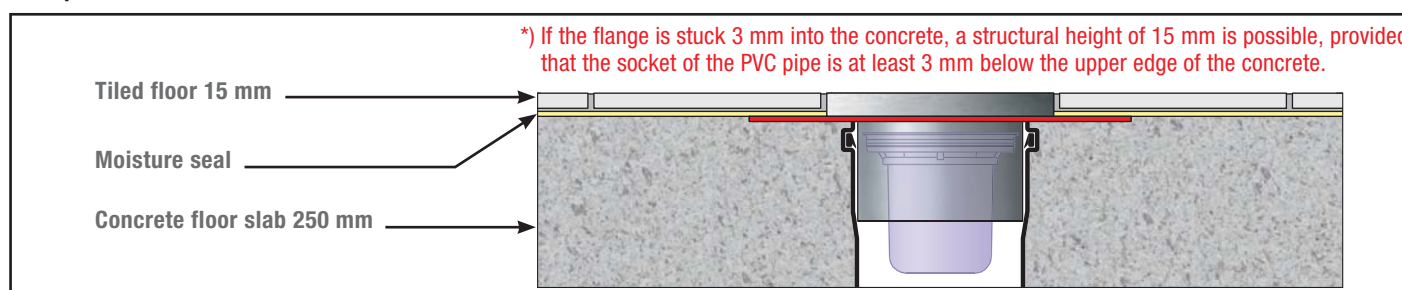
As a customer, describe your installation situation and we will make a *Ferrofix* - that is precisely tailored to your requirements. Just ask us!

A wide range of customised solutions are possible using the *KESSEL Ferrofix* stainless steel drains:

- Floor structures up to a minimum height of 15 mm are possible, even with an adhesive edge for the compound seal
- Materials in various variants can be selected
- Choice of cover forms and sizes



Example:



Stainless steel quick access closable drain cover - hygienic

Custom *Ferrofix* System 125 drain cover manufactured from 1.4301 (AISI 304) stainless steel.
50 mm wide, 3 mm thick perimeter connection flange
Center finger access removal hole (photo 1)
Quick release / quick closure pop up drain plug (photo 2)



Low-profile drain for very low floor structures



Drainage channels *Ferrofix Express*

Illustration	Article description																																
<p style="text-align: center;">Linear stainless steel channel drains System 125</p>	<p>Drainage channels <i>Ferrofix Express</i> made of stainless steel Material thickness 2.0 mm - acid-treated in a pickling bath, visible cover sanded, with longitudinal and transverse slopes, feet for height adjustment, with welded distance grates to secure the covers, including drain pipes in stainless steel. Channel profile for shallow bed seals, with adhesive edge 15 mm deep and 30 mm turned down all-round to the outside, with welded mitre joints.</p> <p>Linear drainage channels: Channel lengths (mm) 1042, 1550, 2058 1047, 1555, 2063 542, 547 Channel widths (mm) 158 300 158,300</p> <p>Square drainage channels: Channel lengths (mm) 500 953 350, 800, 1000 Channel widths (mm) 500 500 350, 800, 1000</p> <p>Material 1.4301 (AISI 304) Channel profile Adhesive edge for shallow bed seals</p> <p>With stainless steel cover Non-slip R11, acid-treated in a pickling bath. Mesh width: 23 x 23 mm Load class: L 15 (1.5 ton.)</p> <p>Sludge trap in stainless steel optional: - System 125 Construction height 90 mm Construction height 30 mm</p> <p>On stock :</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Dimensions W x L x H</th> <th style="width: 30%;">Article #</th> </tr> </thead> <tbody> <tr> <td colspan="2">Linear stainless steel channel drains System 125</td> </tr> <tr> <td>158 x 542 x 55 mm</td> <td>60 15 050</td> </tr> <tr> <td>158 x 1042 x 55 mm</td> <td>60 15 100</td> </tr> <tr> <td>158 x 1550 x 58 mm</td> <td>60 15 150</td> </tr> <tr> <td>158 x 2058 x 60 mm</td> <td>60 15 200</td> </tr> <tr> <td>300 x 547 x 58 mm</td> <td>60 30 050</td> </tr> <tr> <td>300 x 1047 x 60 mm</td> <td>60 30 100</td> </tr> <tr> <td>300 x 1555 x 63 mm</td> <td>60 30 150</td> </tr> <tr> <td>300 x 2063 x 65 mm</td> <td>60 30 200</td> </tr> <tr> <td colspan="2">Square/rectangular stainless steel channel drains System 125</td> </tr> <tr> <td>350 x 350 x 60 mm</td> <td>60 35 035</td> </tr> <tr> <td>500 x 500 x 65 mm</td> <td>60 50 050</td> </tr> <tr> <td>500 x 953 x 70 mm</td> <td>60 50 100</td> </tr> <tr> <td>800 x 800 x 60 mm</td> <td>60 80 080</td> </tr> <tr> <td>1000 x 1000 x 65 mm</td> <td>61 00 100</td> </tr> </tbody> </table>	Dimensions W x L x H	Article #	Linear stainless steel channel drains System 125		158 x 542 x 55 mm	60 15 050	158 x 1042 x 55 mm	60 15 100	158 x 1550 x 58 mm	60 15 150	158 x 2058 x 60 mm	60 15 200	300 x 547 x 58 mm	60 30 050	300 x 1047 x 60 mm	60 30 100	300 x 1555 x 63 mm	60 30 150	300 x 2063 x 65 mm	60 30 200	Square/rectangular stainless steel channel drains System 125		350 x 350 x 60 mm	60 35 035	500 x 500 x 65 mm	60 50 050	500 x 953 x 70 mm	60 50 100	800 x 800 x 60 mm	60 80 080	1000 x 1000 x 65 mm	61 00 100
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<p style="text-align: center;">Square/rectangular stainless steel channel drains System 125</p>	<p>Matching drain body System 125 optionally as an accessory</p>																																

4 Drains / channels in stainless steel

Drainage channels *Ferrofix Express*

Accessories



Drain bodies

with removable odour trap
Ecoguss see page 168
Practicus see page 169
Ferrofix see page 218/219

Fire-Kit Fire protection insert

Ø 76 mm,
only for drains with vertical outlet
and odour trap
Art. # **48 100**

Certification no.
Z-19.17-1719

* Certification no.
Z-19.17-1719



Quick-Fit the passage seal

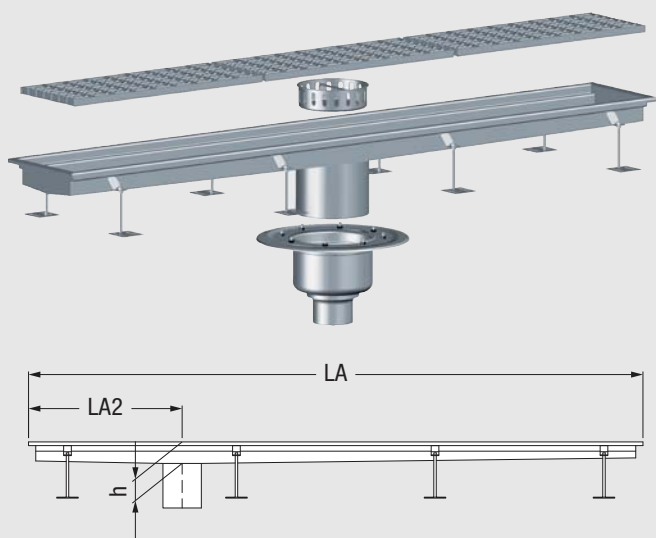
for core drilling, for drain body vertical outlet

- 1 * with fire protection** Art. # **48 990**
(only use in combination with *Fire-Kit* fire protection insert)
- 2 without fire protection** Art. # **48 991**

Box channel *Ferrofix*

Illustration

Article description



Box channel *Ferrofix* made of stainless steel

Material thickness 2.0 mm - acid-treated in a pickling bath, visible cover sanded, with longitudinal and transverse slopes, feet for height adjustment, with welded distance grates to secure the covers
Including drain pipes in stainless steel

Channel widths from 150, 200, 250 etc. to 1000 mm

Channel lengths from 400 mm

Channel shapes

- straight
- L-shaped
- U-shaped
- T-shaped
- Grating(s)
- Mitre joint(s)

Channel profiles

- U-profile
 - Adhesive edge for shallow bed seals (compound seals)
 - Tile connector to protect the tiles from breaking at the edge
- (all profiles also available with hollow-free filling of the visible covers)

Drain pipes in stainless steel

- **System 100** (Ø 110 mm)
 - **System 125** (Ø 125 mm)
 - **System 200** (Ø 200 mm)
- (depends on channel width)

Material - 1.4301 (AISI 304)

(Material 1.4404 or 1.4571 - AISI 316L - on request)

Matching drain body and accessories

- **System 100** on request
- **System 125** see from page 218
- **System 200** see from page 224

Sludge trap in stainless steel optional:

- **System 100** Construction height 90 mm
 - **System 125** Construction height 90 mm
 - **System 200** Construction height 55 mm
- All sludge traps also available in special sizes

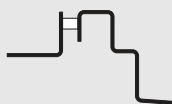
U-profile



Profile adhesive edge



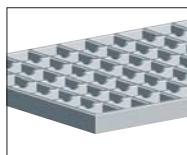
Profile tile connector



Covers

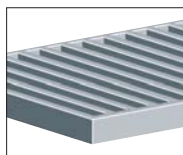
Products

Cover
in stainless steel



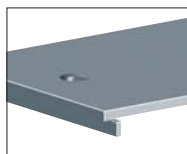
Non-slip R 11, acid-treated in pickling bath
Mesh width 23 x 23 mm or 30 x 30 mm,
class L 15 or M 125

Rod cover
in stainless steel



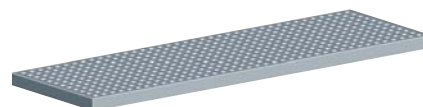
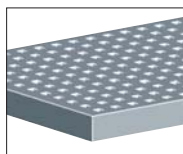
Not anti-slip, acid-treated in pickling bath
Rod clearance 18 mm, supporting member
25 x 8 mm, class M 125

Slab cover
in stainless steel



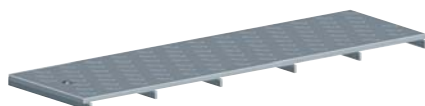
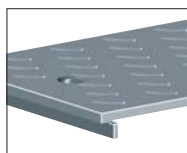
Not anti-slip, glass bead-blasted
All-round 8 mm inlet
Material thickness 10 mm, class M 125

Bathroom cover
in stainless steel



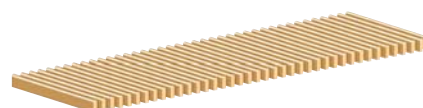
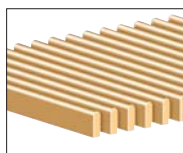
Suitable for barefoot area
Brushed surface, perforation 8 x 8 mm
Insertion depth 25 mm, thickness 2 mm,
class K 3

Ribbed plate cover
in stainless steel



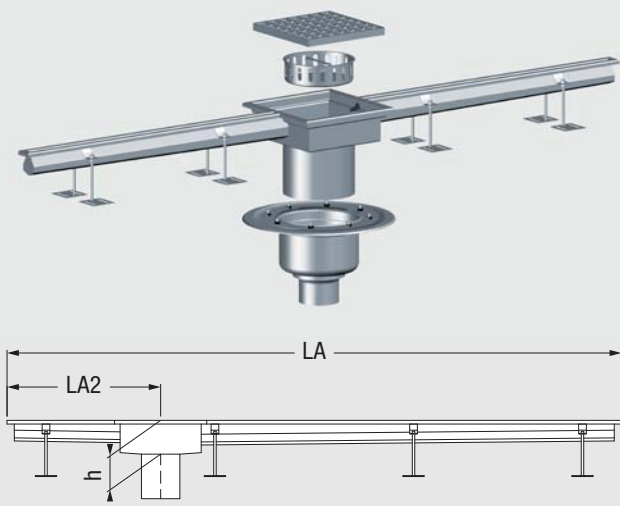
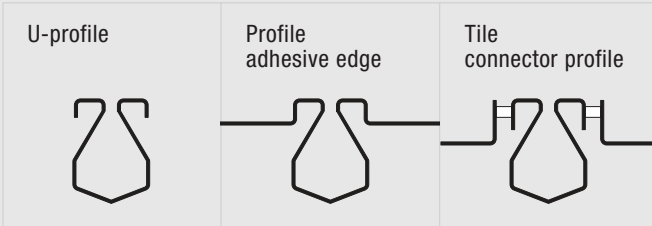
Non-slip R 11, acid-treated in pickling bath
All-round 8 mm inlet
Material thickness 10 mm, class M 125

Bathroom cover
made of polymer



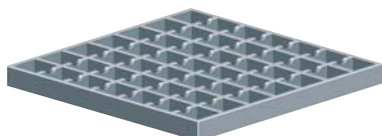
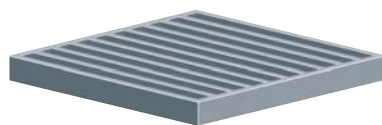
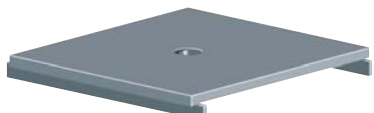
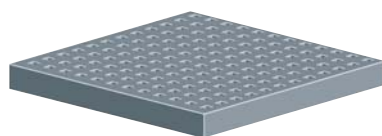
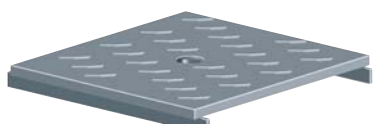
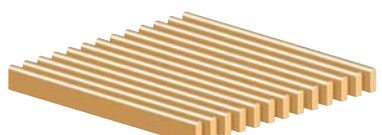
Suitable for barefoot area,
With rounded or flat upper profile
Colours white, grey, beige or yellow
(other RAL colours on request)
Insertion depth 25 mm, class K 3

Slotted channel *Ferrofix*

Illustration	Article description
 	<p>Slotted channel <i>Ferrofix</i> made of stainless steel Material thickness 2.0 mm - acid-treated in pickling bath, visible covers sanded, with longitudinal and transverse slopes, feet for height adjustment, including gully, drain pipes in stainless steel.</p> <p>Channel widths 60 mm, 48 mm Slot widths 20 mm (standard width), 8 mm (barefoot area) Channel lengths from 600 mm</p> <p>Channel shapes and gully</p> <ul style="list-style-type: none"> - straight with gully on the edge of the channel Type 100 - straight with gully in the middle Type 200 - L-shaped with gully in the intersection Type 250 - T-shaped with gully in the intersection Type 300 - Cross-shaped with gully in the intersection Type 400 <p>Channel profiles</p> <ul style="list-style-type: none"> - U-profile - Adhesive edge for shallow bed seals (compound seals) - Tile connector to protect the tiles from breaking at the edge (all profiles also available with hollow-free filling of the visible covers) <p>Gully with drain pipes in stainless steel</p> <ul style="list-style-type: none"> - System 100 (Ø 110 mm) - System 125 (Ø 125 mm) - System 200 (Ø 200 mm) (depends on the gully width) <p>Material - 1.4301 (AISI 304) (Material 1.4404 or 1.4571 - AISI 316L - on request)</p> <p>Matching drain body and accessories</p> <ul style="list-style-type: none"> - System 100 on request - System 125 see page 218, 219, 223 - System 200 see page 224, 225, 228 <p>Sludge trap in stainless steel optional:</p> <ul style="list-style-type: none"> - System 100 Construction height 90 mm - System 125 Construction height 90 mm - System 200 Construction height 55 mm <p>All sludge traps also available in special sizes</p>

Covers

Products

<p>Cover in stainless steel</p>  <p>Non-slip R 11, acid-treated in pickling bath Mesh width 23 x 23 mm or 30 x 30 mm class L 15 or M 125</p>	<p>Rod cover in stainless steel</p>  <p>Not anti-slip, acid-treated in pickling bath Rod clearance 18 mm, supporting member 25 x 8 mm, class M 125</p>
<p>Slab cover in stainless steel</p>  <p>Not anti-slip, glass bead-blasted All-round 8 mm inlet Material thickness 10 mm, class M 125</p>	<p>Bathroom cover in stainless steel</p>  <p>Suitable for barefoot area Brushed surface, perforation 8 x 8 mm Insertion depth 25 mm, thickness 2 mm, class K 3</p>
<p>Ribbed plate cover in stainless steel</p>  <p>Non-slip R 11, acid-treated in pickling bath All-round 8 mm inlet Material thickness 10 mm, class M 125</p>	<p>Bathroom cover made of polymer</p>  <p>Suitable for barefoot area, With rounded or flat upper profile Colours white, grey, beige or yellow (other RAL colours on request) Insertion depth 25 mm, class K 3</p>



Drains for exterior installation

**Parking deck drains
System 100/125** Page **236 – 238**

Balcony drains Page **239**

**Yard and gutter drains
System 200/100** Page **240 – 245**

**Yard drains System 400
and street gullies** Page **246 – 249**

Roof drains Page **250 – 252**

Ecoguss - the new high-tech material



Heavy-duty drains for surface water drainage of car parks, industrial buildings, roofs and driveway / parking areas.



With pressure sealing flange for twin sealing



Single piece pipe connection drain

Parking deck drains for car parks and industrial buildings

SYSTEM ADVANTAGES / INSTALLATION

Parking deck drains in *Ecoguss*

VARIABLE

Variable upper section rotatable, tiltable and height adjustable for adaption to the ground level.

STRAIGHTFORWARD INSTALLATION

Fast and easy installation due to low weight of drain.

HIGH SHATTER RESISTANCE

Parking deck drains carry Class B rating (12.5 ton loads).

CORROSION FREE

Corrosion free material. Electrical grounding no longer necessary.



Fire-Kit

Fire and smoke protection *Fire-Kit* with approval Z-19.17-1719. Optional for drain bodies with vertical outlet.

Quick-Fit

Quick-Fit the all-round seal for core drillings with approval Z-19.17-1719 with or without fire protection for cheap and fast installation.





With *Ecoguss* upper section

Yard drains for higher load classes up to 40 to.

Polymer gutter drains

Ecoguss roof drains

Polymer roof drains

Yard and gutter drains

for yard and downspouts drainage

Flat roof drains

for small and medium roof areas

SYSTEM ADVANTAGES / INSTALLATION

Yard and gutter drains in *Ecoguss* / polymer

VARIABLE

Variable upper section rotatable, tiltable and height adjustable up to 110 mm (yard drain with upper section made of *Ecoguss* or completely made of polymer).



FLEXIBLE INSTALLATION

Deeper installation and lateral inlet requirement. In one step the quick and easy solution. With extension section with or without lateral inlet.



CLEANING

Optimal pipe access with sludge trap removal.

FAST INSTALLATION

Single piece pipe connection drain with round or square support rim.



LOCKING AND REMOVAL KEY

Locking and removal key for *Ecoguss* drain covers with *Lock & Lift* System.

SYSTEM ADVANTAGES / INSTALLATION

1. Yard and gutter drains in *Ecoguss*

RELIABILITY

With twin sealing system for waterproof concrete and integrated heating.

MATERIAL

High temperature-resistant materials for processing with hot bitumen acc. to DIN 18195.

EASY INSTALLATION

Easy installation also upgradable after installation to emergency drainage option



2. Polymer roof drains

COMPACT

Ideal for smaller roof areas, with pressure sealing flange, also available with twin gasket system.



Parking deck drains *Ecoguss*

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #									
<p>4.5 l/sec flow rate Installation area 300 x 300 mm</p>	<p>Parking deck drain <i>Ecoguss</i> Vertical outlet, for connection to SML-pipe according to EN 877, with sludge trap</p> <p><input type="checkbox"/> System 125</p> <p>With pressure sealing flange in stainless steel AISI 304 with square upper section in <i>Ecoguss</i> 247 mm x 247 mm with connection flange and round slotted cover Ø 235 mm, class B 125 (12.5 to), with <i>Lock & Lift</i> System</p> <p>Core drilling only Ø 160 mm with <i>Quick-Fit</i></p> <table border="1"> <tr> <td>Ø</td> <td>78</td> <td>110</td> </tr> <tr> <td>H</td> <td>110</td> <td>110</td> </tr> </table> <p> EN 1253-1</p> <p>Accessories: <i>Multistop</i> Art. # 48 500, odour trap Art. # 27 169 see page 238</p>	Ø	78	110	H	110	110	<p>Ø 78 Ø 110</p>	<p>48 878.01 48 811.01</p>			
Ø	78	110										
H	110	110										
<p>Single piece pipe connection drain</p> <p>4.5 l/sec flow rate Installation area 300 x 300 mm</p>	<p>Parking deck drain <i>Ecoguss</i>, square Vertical outlet, for connection to SML-pipe/plastic pipe, with sludge trap</p> <p><input type="checkbox"/> System 100: SML-pipe <input type="checkbox"/> System 125: plastic pipe</p> <p>with square upper section in <i>Ecoguss</i> with connection flange 247 mm x 247 mm and round slotted cover Ø 235 mm, class B 125 (12.5 to), with <i>Lock & Lift</i> System</p> <table border="1"> <tr> <td>Ø</td> <td>110</td> <td>125</td> </tr> <tr> <td>H</td> <td>77</td> <td>83</td> </tr> <tr> <td>H1</td> <td>79</td> <td>73</td> </tr> </table> <p>Accessories: <i>Multistop</i> Art. # 48 500 see page 238</p>	Ø	110	125	H	77	83	H1	79	73	<p>Ø 110 Ø 125</p>	<p>48 501 48 502</p>
Ø	110	125										
H	77	83										
H1	79	73										
<p>Single piece pipe connection drain</p> <p>4.5 l/sec flow rate Installation area Ø 300 mm</p>	<p>Parking deck drain <i>Ecoguss</i>, round Vertical outlet, for connection to SML-pipe/plastic pipe, with sludge trap</p> <p><input type="checkbox"/> System 100: SML-pipe <input type="checkbox"/> System 125: plastic pipe</p> <p>with round upper section in <i>Ecoguss</i> with connection flange Ø 247 mm and round slotted cover Ø 235 mm, class B 125 (12.5 to), with <i>Lock & Lift</i> System</p> <table border="1"> <tr> <td>Ø</td> <td>110</td> <td>125</td> </tr> <tr> <td>H</td> <td>77</td> <td>83</td> </tr> <tr> <td>H1</td> <td>79</td> <td>73</td> </tr> </table> <p>Accessories: <i>Multistop</i> Art. # 48 500 see page 238</p>	Ø	110	125	H	77	83	H1	79	73	<p>Ø 110 Ø 125</p>	<p>48 503 48 504</p>
Ø	110	125										
H	77	83										
H1	79	73										

Installation example parking deck drains *Ecoguss*



① Upper section
② Sealing flange
③ Connection to SML-pipe

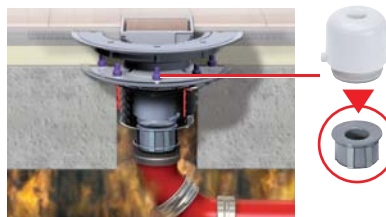
The KESSEL *Ecoguss* drains are especially suitable for installation in garages and car parks. The high strength low weight body and upper section handles traffic loads up to 12.5 metric tons and a stainless steel waterproof sealing flange is available if required. The compact drain bodies are available with various outlet sizes which are designed for connection directly to SML cast iron drainage piping.

No-compromise fire protection

Floor drains are critical when it comes to spreading of fire in a building. *Ecoguss* drains combined with KESSEL fire protection elements meet all the requirements for fire resistance class R 120.

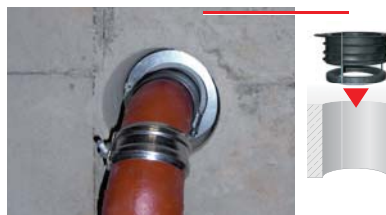
■ The determining factor is the fire resistance class, not the building material class!

The *Ecoguss* drains with vertical outlets are designed specifically for use with the KESSEL **Fire-Kit** fire protection insert which offers the highest fire resistance class - R 120. As soon as fire enters the lower portion of the *Ecoguss* drain, the Fire-Kit expands and completely seals the opening to prevent fire and smoke from reaching the above floor.



■ **Quick-Fit** passage seal including fire protection ring for fire resistance class R 120.

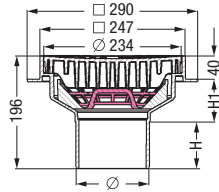
Additional security for fire protection is offered by the KESSEL **Quick-Fit** passage seal including fire protection ring. If floor drains are not poured into the concrete floor but inserted later into cored holes in the concrete slab, the space between the cored hole and the exterior of the drain body also needs to be secured against fire. In the case of a fire, the fire protection ring expands and completely seals the opening between the exterior of the drain body and the cored hole - preventing fire and smoke from reaching the above floor.



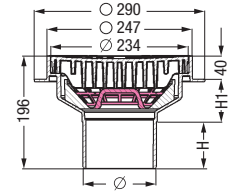
Professional advantages

- **Metallic composite material**
Metallic properties but still non corrosive and non-conductive (**no electrical grounding necessary!**)
- **Honeycomb structure** for perfect concrete bonding
- **High temperature-resistant materials**
Briefly up to 400°C, for processing with hot bitumen acc. to DIN 18195
- **With SML pipe connection**
Connection to SML pipe according to EN 877 in Ø 58, 78, 110 and Ø 83!
No transition pieces any more!
- **Sound insulation**
 - Sound-absorbent material
 - For increased sound insulation to DIN 4109 < 30 dB (A)
- **Variable upper section**
rotatable, tiltable and height adjustable
- **Chemical resistance**
Extremely high acid/alkali resistance for chemically-polluted wastewater.
- **High discharge rates**
- **With Lock & Lift System**
 - Thermal insulation insert available – ready to install
- **High shatter resistance and high load resistance**
Parking deck drains carry class B rating (12.5 ton loads).

Upper section with connection flange



Ø	110	125
H	77	83
H1	79	73



in *Ecoguss*

Can be used as single piece pipe connection drain

with square upper section □ 247 mm and round slotted cover Ø 235 mm, in *Ecoguss*, class B 125 (12.5 to), with *Lock & Lift System*, with sludge trap.

with round upper section □ 247 mm and round slotted cover Ø 235 mm, in *Ecoguss*, class B 125 (12.5 to), with *Lock & Lift System*, with sludge trap.

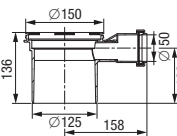
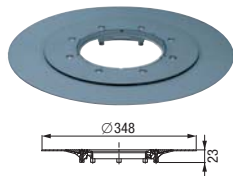
System 100: SML-pipe
System 125: plastic pipe

System 100: SML-pipe
System 125: plastic pipe

Ø 110 Art. # 48 501
Ø 125 Art. # 48 502

Ø 110 Art. # 48 503
Ø 125 Art. # 48 504

Accessories



Glue flange with counter flange

in ABS, Ø 348 mm (also for compound seal)
Art.Nr. 48 410

can be combined with drain bodies and extension sections

Extension section

in PP, with lip seal
without lateral inlet Art. # 48 987
with lateral inlet Art. # 48 989

Multistop

rodent, insect, foam and odour stop
Art. # 48 500

Hair filter

made of polymer
Art. # 48 700

Odour trap

Sealing water height 50 mm according to norm
Art. # 48 600

Certification no. Z-19.17-1719



* Certification no. Z-19.17-1719



Fire-Kit Fire protection insert

Only for *Ecoguss* drains with vertical outlet and odour trap Art. # 27 169
Ø 58/78/83 Art. # 48 099
Ø 110 Art. # 48 100

Bell-shaped odour trap insert

in PP, sealing water height 50 mm
Art. # 27 169

Quick-Fit the passage seal

the all-round seal for core drillings for *Ecoguss*-drain body, vertical outlet
without fire protection
Art. # 48 991

* with fire protection
Art. # 48 990
(only use in combination with *Fire-Kit* fire protection insert)

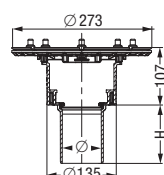
Insulating body

fits all *Ecoguss* drain bodies with vertical outlet
Art. # 48 952

Drain body *Ecoguss*

4.5 l/sec flow rate
Sealing water height 50 mm

Ø	58	78	83	110
H	100	110	110	110

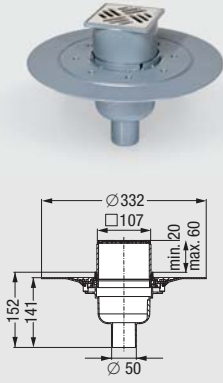
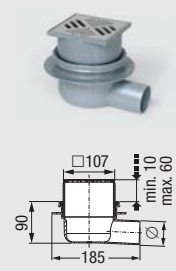
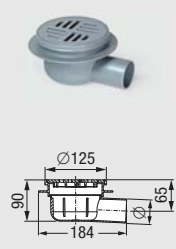


Ecoguss without odour trap

Vertical outlet, with pressure sealing flange, high temperature resistant



without odour trap		with odour trap	
Ø	Article #	Ø	Article #
78	48 879	78	48 878
83	48 889	83	48 883
110	48 812	110	48 811

Balcony drains

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
 <p>0.9 l/sec flow rate Installation area 180 x 180 mm</p>	<p>Balcony drain in ABS Frost-proof outlet. With fixed lip seal. With glue flange and counter flange.</p> <p><input type="checkbox"/> Lateral outlet</p> <p><input type="checkbox"/> Vertical outlet</p> <p>With upper section in ABS with slotted cover 100 x 100 mm in stainless steel AISI 304, class K3 (able to withstand loads up to max. 300 kg).</p>	<p>Ø 50</p> <p>Ø 50</p>	<p>40 151.90</p> <p>40 251.90</p>
 <p>0.9 l/sec flow rate Installation area 220 x 180 mm</p>	<p>Balcony drain in ABS Frost-proof outlet. With fixed lip seal. With connection flange.</p> <p><input type="checkbox"/> Lateral outlet</p> <p>With upper section in ABS with slotted cover 100 x 100 mm in stainless steel AISI 304, class K3 (able to withstand loads up to max. 300 kg).</p>	<p>Ø 50</p> <p>Ø 75</p>	<p>40 151.20</p> <p>40 171.20</p>
 <p>0.9 l/sec flow rate Installation area 220 x 180 mm</p>	<p>Balcony drain in ABS Frost-proof outlet. With connection flange.</p> <p><input type="checkbox"/> Lateral outlet</p> <p>with inserted cover Ø 125 in synthetic material, class K3 (able to withstand loads up to max. 300 kg)</p>	<p>Ø 50</p> <p>Ø 75</p>	<p>40 152.71</p> <p>40 172.71</p>

Balcony drains

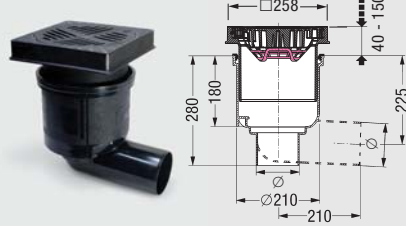
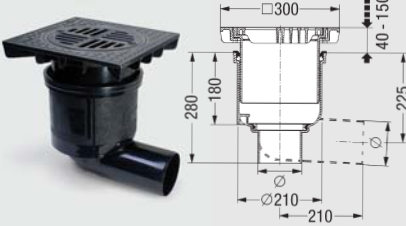
Accessories

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
	<p>Extension section in ABS, with lip seal</p>	-	27 146
	<p>Multistop rodent, insect, foam and odour stop</p>	-	43 500

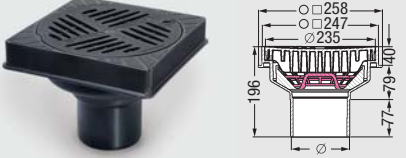
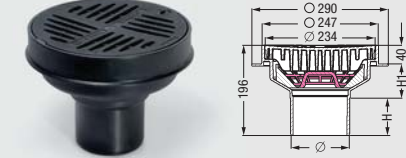

Yard drains in *Ecoguss* / polymer

System 200 / 100

Yard drains System 200

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
 <p>4.5 l/sec flow rate</p>	<p>Yard drains <i>Ecoguss</i> 200</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lateral outlet 2.5° <input type="checkbox"/> Vertical outlet <p>with drain body made of polymer and upper section made of <i>Ecoguss</i>, upper section with square support rim, class B 125 (12.5 to), with <i>Lock & Lift</i> System, with sludge trap</p>	<p>Ø 110</p> <p>Ø 110</p>	<p>67 923 B</p> <p>67 922 B</p>
 <p>4.5 l/sec flow rate</p>	<p>System 200 Yard drain</p> <ul style="list-style-type: none"> <input type="checkbox"/> Lateral outlet 2.5° <input type="checkbox"/> Vertical outlet <p>with drain body made of polymer, upper section with support rim, slotted cover class ...</p> <p>With lip seal and protective cover for use during construction.</p> <p>Weight: Class A 15 approx. 4.2 kg.</p> <p>Accessories: Sludge trap Art. # 67 300, odour-trap (consider frost free installation depth) Art. # 27 171 see page 244/245</p>	<p>Ø 110</p> <p>Ø 110</p>	<p>67 020.30</p> <p>67 060.30</p>

Yard drains System 100

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
 <p>4.5 l/sec flow rate</p>	<p>Yard drain <i>Ecoguss</i> pipe connection drain - square</p> <p>Vertical outlet</p> <ul style="list-style-type: none"> <input type="checkbox"/> upper section with square support rim in <i>Ecoguss</i> and round slotted cover Ø 235 mm, class B 125 (12.5 to), with <i>Lock & Lift</i> System, with sludge trap <p>Accessories: <i>Multistop</i> Art. # 48 500 see page 212</p>	<p>Ø 110</p>	<p>67 110 B</p>
 <p>4.5 l/sec flow rate</p>	<p>Yard drain <i>Ecoguss</i> pipe connection drain - round</p> <p>Vertical outlet</p> <ul style="list-style-type: none"> <input type="checkbox"/> upper section with round support rim in <i>Ecoguss</i> and round slotted cover Ø 235 mm, class B 125 (12.5 to), with <i>Lock & Lift</i> System, with sludge trap <p>Accessories: <i>Multistop</i> Art. # 48 500 see page 212</p>	<p>Ø 110</p>	<p>67 111 B</p>
 <p>1.6 l/sec flow rate</p>	<p>Yard drain <i>Alrondo</i></p> <p>made of polymer, vertical outlet</p> <p>With integrated odour trap.</p> <ul style="list-style-type: none"> <input type="checkbox"/> cover plate 200 x 200 mm with round slotted cover Ø 140 mm made of polymer, screwed <p>Can be driven over by vehicles of up to 2 ton.</p>	<p>Ø 110</p>	<p>37 287 S</p>

Yard drains in *Ecoguss* / polymer System 200 / 100

Installation example yard drains System 200



- ① Upper section and cover
- ② Odour trap (Art. # 27 171)

Ecoguss yard drains assure an efficient surface water drainage of outdoor areas. Included is the upper section and cover which handles vehicle traffic loads up to 12.5 metric tons. An optional odour trap can be used to keep unpleasant sewer odours where they belong.

Installation example yard drains System 100



- ① Upper section and cover
- ② Concrete
- ③ Sludge basket
- ④ Locking system

Ecoguss yard drains assure an efficient surface water drainage of outdoor areas. Included is the upper section and cover which handles vehicle traffic loads up to 12.5 metric tons. In the case that upper section and cover are used alone (without being connected to a drain body) it is important that voids are properly filled with concrete to provide the required support. The integrated sludge basket is easily accessible for cleaning via the *Lock & Lift* cover removal and locking system.

Professional advantages

- **Vertically adjustable upper section** for stepless installation in concrete slabs: rotatable, tiltable and vertically adjustable up to 110 mm
- **Deeper installation and lateral inlet requirement.** In one step the quick and easy solution. With extension section Art. # 67 500 and extension Art. # 67 600 with Ø 110 lateral inlet.
- **Frost free installation depth up to 1020 mm** with extension section Art. # 67 500.
- **Locking and removal key** for *Ecoguss* drain covers with *Lock & Lift* System. Art. # 67 007.

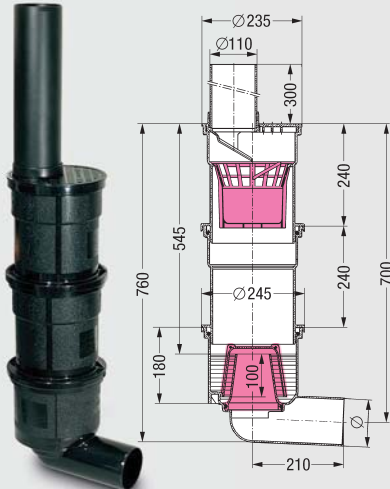
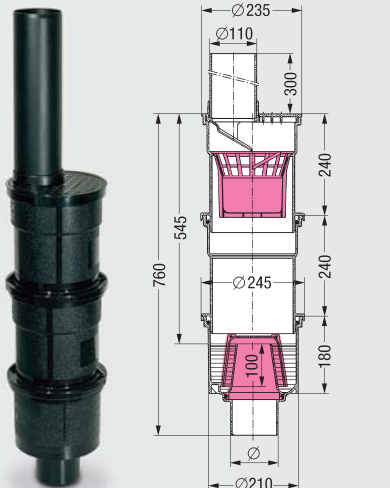
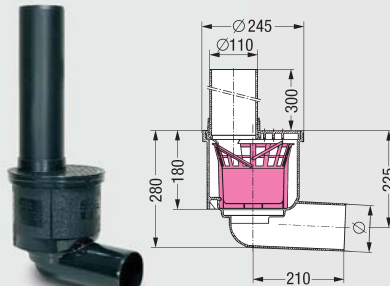
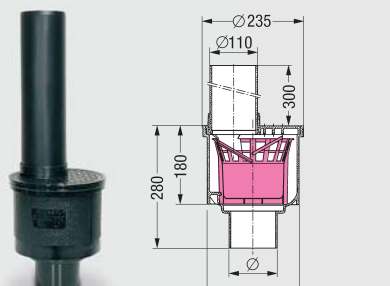
Professional advantages

- **Multistop** as an odour, foam, rodent and insect protection (Art. # 48 500) available as accessory.
- **Locking and removal key** for *Ecoguss* drain covers with *Lock & Lift* System Art. # 67 007.
- **Compact and low weight** alternative to cast iron drains
- **Single piece pipe connection drain**
- **With sludge trap**

Gutter drains made of polymer

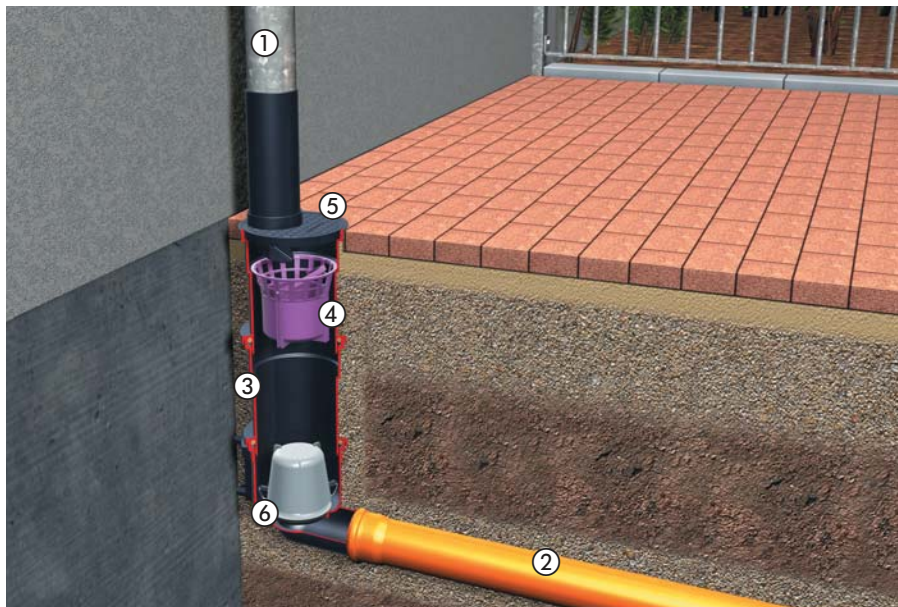
System 200

Gutter drains System 200

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
 <p>2.8 l/sec flow rate</p>	<p>Gutter drain made of polymer, lateral outlet 2.5° For frost-free depth 545 mm Rain inlet cover with protective pipe made of polymer. With removable bell-shaped odour trap, two extension sections, sludge trap. With wall securing device.</p>	Ø 110	67 970
 <p>2.8 l/sec flow rate</p>	<p>Gutter drain made of polymer, vertical outlet For frost-free depth 545 mm Rain inlet cover with protective pipe made of polymer. With removable bell-shaped odour trap, two extension sections, sludge trap. With wall securing device.</p>	Ø 110	67 960
 <p>4.5 l/sec flow rate</p>	<p>Gutter drain made of polymer, lateral outlet 2.5° Rain inlet cover with protective pipe in synthetic material. With sludge trap. With wall securing device.</p>	Ø 110	67 945
 <p>4.5 l/sec flow rate</p>	<p>Gutter drain made of polymer, vertical outlet Rain inlet cover with protective pipe in synthetic material. With sludge trap. With wall securing device. Without wall securing device.</p>	Ø 110 Ø 110	67 940 67 997

Gutter drains made of polymer System 200

Installation example gutter drains System 200



- | | |
|---------------------|-----------------|
| ① Downspouts | ④ Sludge basket |
| ② Drainage pipe | ⑤ Drain cover |
| ③ Extension section | ⑥ Odour trap |

Rainwater and gutter drains transfer rainwater from downspouts from buildings into underground drainage piping. Light weight, corrosion free material and solid construction of the polymer material represent a clear alternative to standard concrete drains. Extension sections are available if a deeper installation is required to reach frost free zones. To prevent debris from entering the sewer a sludge basket is included with the system. Removal of the sludge basket for cleaning purposes is quick and simple. In addition, an optional odour trap is available to prevent sewer gases from escaping through the drain.

Professional advantages

- **Optimal pipe access** with sludge trap removal



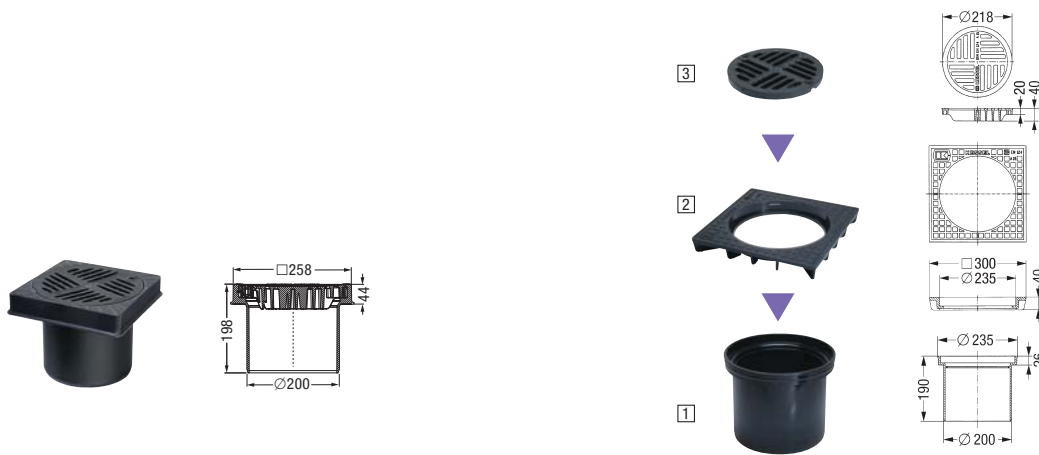
- **Lateral Ø 110 inlet** possible with use of extension section Art. # 67 600.

- **Convenient wall mount system**



- **Frost free installation depths** with Art. # 67 500 or Art. # 67 600 (with lateral inlet) available as accessory

Upper sections for yard drains



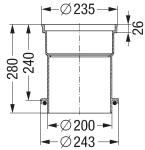
in *Ecoguss*

upper section with support rim □ 250 mm and round slotted cover Ø 235 mm, in *Ecoguss*, class B 125 (12.5 to), with *Lock & Lift* System, height adjustable from 40 - 150 mm
Art. # 67 985

in polymer, consists of...

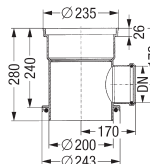
- 1 Upper section height adjustable from 40 - 150 mm
Art. # 67 400
- 2 Support rim □ 300 mm, class A 15 / L 15 (1.5 to.)
Art. # 27 180
- 3 Slotted cover Ø 218 mm, class A 15 / L 15 (1.5 to.)
Art. # 27 173

Accessories for yard drains and gutter drains



Extension section

made of polymer, installation height 240 mm
Art. # 67 500



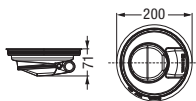
Extension section

made of polymer, with lateral inlet, installation height 240 mm
Art. # 67 600



Sludge basket

in PE-HD
Art. # 67 300



Multistop 200

odour, foam, rodent and insect stop for article 67 985, 67 923B, 67 922B
Art. # 48 520



Lip seal

Art. # 27 140

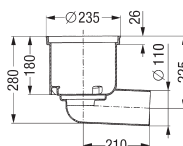


Lip seal

Non-slip mounting
Art. # 27 141

Drain body for yard drains and gutter drains

4.5 l/sec flow rate



Drain body made of polymer

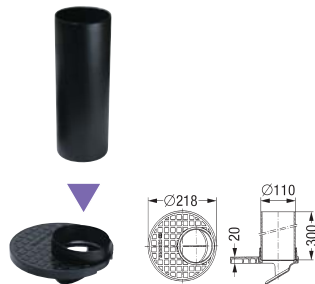
Lateral outlet 2.5°, without odour trap
Ø 110 Art. # 67 000

Upper sections for gutter drains



in polymer

Cover plate Ø 218 mm
class A 15 / L 15 (1.5 to.),
sealed with respect to surface water,
Art. # 67 775



in polymer

Rain inlet cover Ø 218 mm
with protective pipe Ø 110
Art. # 67 750



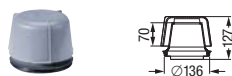
in polymer

Rain inlet slotted cover Ø 218 mm,
for additional surface drainage
with protective pipe Ø 110
Art. # 67 700



Leaf trap

in PP
Art. # 48 300



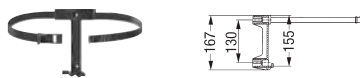
Bell-shaped odour trap insert

in PP, removable,
sealing water height 70 mm
Art. # 27 170



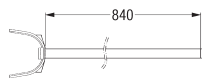
Bell-shaped odour trap insert

in PP, removable,
sealing water height 100 mm
Art. # 27 171



Wall securing device

for gutter drains
Art. # 67 800



Lifting mechanism

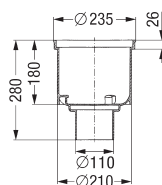
for removing odour trap
Art. # 850 144



Locking and removal key

for *Ecoguss* drain covers
with *Lock & Lift* System.
Art. # 67 007

4.5 l/sec flow rate



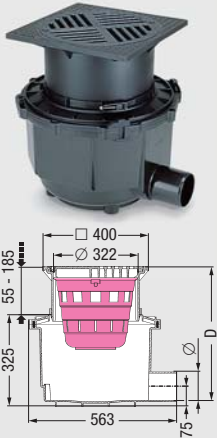

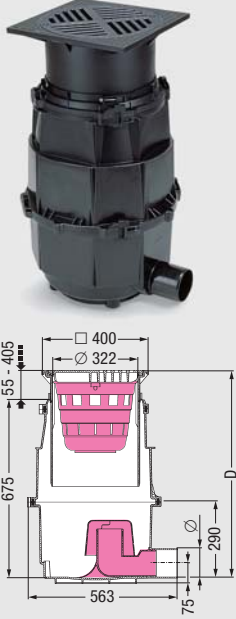

Drain body made of polymer

Vertical outlet, without odour trap
Ø 110 Art. # 67 040

Yard drains in polyethylene

System 400

Yard drains System 400 For higher load classes

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
 <p data-bbox="177 768 475 824">4.5 l/sec flow rate Installation area 585 x 535 mm</p>	<p data-bbox="560 315 1050 629">Yard drain System 400 in polyethylene, lateral outlet 2.5°, with sludge trap</p> <p data-bbox="560 416 1050 495">For installation depth (D) from 380 to 510 mm, water-tight, resistant to aggressive wastewater. With fuel-resistant gaskets.</p> <p data-bbox="560 506 1050 629"><input type="checkbox"/> Upper section with slotted cover, class A (1.5 to.) made of polymer class B (12.5 to.) and class D (40 to.) in cast iron according to EN 124 for continuous height and level adjustment.</p> <p data-bbox="560 678 866 757">Weight: Class A approx. 10 kg Class B approx. 12.5 kg Class D approx. 20 kg</p> 	<p data-bbox="1134 315 1203 394">Ø 110 Ø 110 Ø 110</p> <p data-bbox="1134 416 1203 495">Ø 160 Ø 160 Ø 160</p>	<p data-bbox="1345 315 1445 394">851 100 A 851 100 B 851 100 D</p> <p data-bbox="1345 416 1445 495">851 150 A 851 150 B 851 150 D</p>
 <p data-bbox="177 1462 475 1518">4.5 l/sec flow rate Installation area 585 x 535 mm</p>	<p data-bbox="560 842 1050 920">Yard drain System 400 in polyethylene, lateral outlet 2.5°, with odour trap and sludge trap</p> <p data-bbox="560 931 1050 1010">For installation depth (D) from 730 to 1080 mm, water-tight, resistant to aggressive wastewater. With fuel-resistant gaskets.</p> <p data-bbox="560 1021 1050 1144"><input type="checkbox"/> Upper section with slotted cover, class A (1.5 to.) made of polymer class B (12.5 to.) and class D (40 to.) in cast iron according to EN 124 for continuous height and level adjustment.</p> <p data-bbox="560 1193 866 1272">Weight: Class A approx. 45 kg Class B approx. 47.5 kg Class D approx. 55 kg</p> 	<p data-bbox="1134 842 1203 920">Ø 110 Ø 110 Ø 110</p> <p data-bbox="1134 943 1203 1021">Ø 160 Ø 160 Ø 160</p>	<p data-bbox="1345 842 1445 920">851 102 A 851 102 B 851 102 D</p> <p data-bbox="1345 943 1445 1021">851 152 A 851 152 B 851 152 D</p>

Yard drains in polyethylene System 400

Installation example yard drains System 400



- ① System 400 drain
- ② Sludge basket

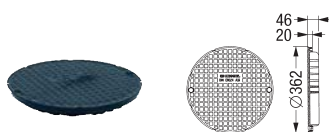
System 400 drains assure an efficient surface water drainage of outdoor areas and with their low weight, corrosion free material and solid construction they represent a clear alternative to standard concrete drains. System 400 drains are available with load class B or D covers meaning they can be used in all traffic areas up to 40.0 metric tons. Extensions sections are available if a deeper installation is required to reach frost free zones. To prevent debris from entering the sewer a sludge basket is included with the system. In addition, an optional odour trap is available to prevent sewer gases from escaping through the drain.

Professional advantages

- **Variable upper section**
rotatable, inclinable and height adjustable
- Side inlets up to a nominal width of \varnothing 160 via drilling on the side, can be connected very easily and quickly.
- **Optimum cleaning** of the pipes by removing the odour trap/sludge trap
- Can be adapted to the level of the floor
- Fuel resistant
- Can bear lorries weighing up to 40 ton.

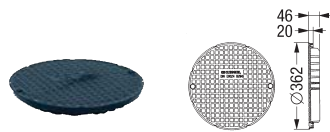
Yard drains in polyethylene System 400

Covers



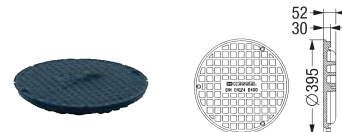
Cover plate in polymer

Class A (1.5 to.)
Art. # 850 132



Cover plate in cast iron

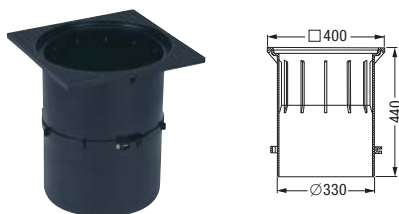
Class B (12.5 to.)
Art. # 850 131



Cover plate in cast iron

Class D (40 to.), for article # 850 121
Art. # 850 136

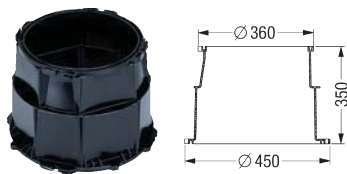
Upper sections



Class A, B

continuously height adjustable,
with clamping ring
Art. # 850 120

Accessories



Extension section in polyethylene

Art. # 850 101

Connecting wedges, 4 pieces
Art. # 850 111



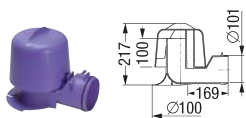
Transition sections 450

Art. # 850 102



Transition sections 360

Art. # 850 103

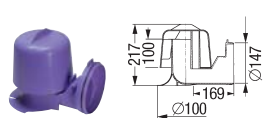


Odour traps

Ø 110 Art. # 850 141

Ø 160 Art. # 850 142

only for article # 850 009, 850 010



Gaskets for pipe conduits

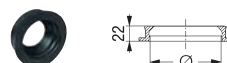
Ø 50 Art. # 850 114

Ø 75 Art. # 850 116

Ø 110 Art. # 850 117

Ø 125 Art. # 850 118

Ø 160 Art. # 850 119

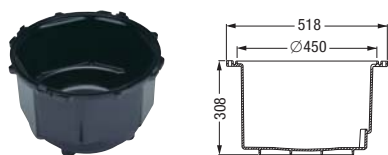


Pressure sealing flange

for upper section

Art. # 83 021

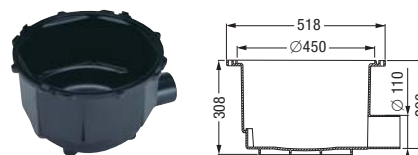
Drain bodies



Drain body in polyethylene

closed

Art. # 850 008

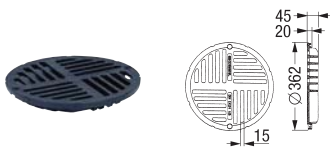


Drain body in polyethylene

with outlet

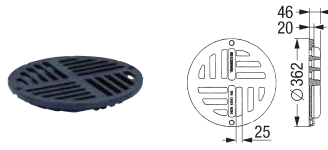
Ø 110 Art. # 850 009

Ø 160 Art. # 850 010



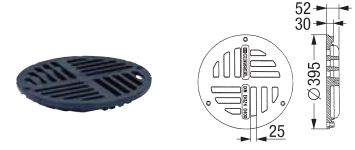
Slotted cover in polymer

Class A (1.5 to.)
Art. # 850 134



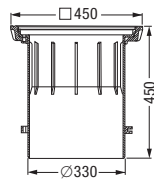
Slotted cover in cast iron

Class B (12.5 to.)
Art. # 850 135



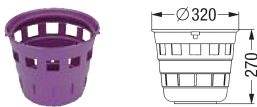
Slotted cover in cast iron

Class D (40 to.), for article # 850 121
Art. # 850 137



Class D

continuously height adjustable,
with clamping ring
Art. # 850 121



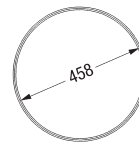
Sludge trap in polymer

Art. # 850 115



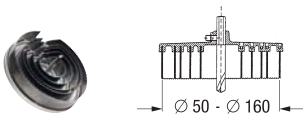
Profiled gasket 450

Art. # 850 113



Profiled gasket 360

Art. # 850 112



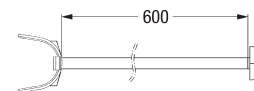
Hole saw

for drilling lateral surfaces for inlets and outlets
Ø 50, 75, 110, 125 and 160
(Saw blade holder Ø = 190 mm)
Art. # 50 100



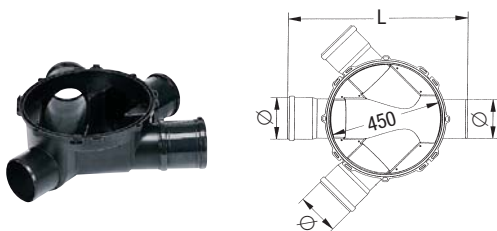
Elastomer waterproof membrane

in NK/SBR
Art. # 83 022



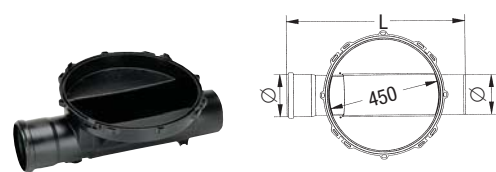
Lifting mechanism

for removing odour trap
Art. # 850 143



Drain body in polyethylene, open channel passage

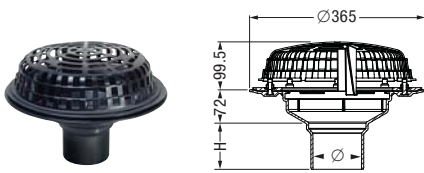
Inlet/Outlet Ø 160, L=726 mm, H=259 mm, Art. # 850 001
Inlet Ø 160/Outlet Ø 200, L=746 mm, H=259 mm, Art. # 850 002
Inlet/Outlet Ø 200, L=756 mm, H=304 mm, Art. # 850 003
Inlet Ø 200/Outlet Ø 250, L=771 mm, H=304 mm, Art. # 850 004



Drain body in polyethylene, open channel passage

Inlet/Outlet Ø 160, L=726 mm, H=259 mm, Art. # 850 005
Inlet/Outlet Ø 200, L=756 mm, H=306 mm, Art. # 850 006
Inlet/Outlet Ø 250, L=790 mm, H=344 mm, Art. # 850 007

Flat-roof drains in *Ecoguss*

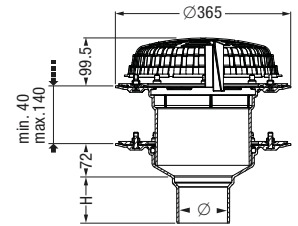


Installation area \varnothing 227 mm

EN 1253/DIN 1986-100



\varnothing	75	110	125
H	96.5	93	93



Installation area \varnothing 227 mm

with single seal

with pressure sealing flange in *Ecoguss*
and pebble trap

without heating

\varnothing 75 Art. # 48 370

\varnothing 110 Art. # 48 310

\varnothing 125 Art. # 48 312

with heating

\varnothing 75 Art. # 48 370.03

\varnothing 110 Art. # 48 310.03

\varnothing 125 Art. # 48 312.03

with double seal for installation in waterproof concrete

upper section in *Ecoguss* \varnothing 200 and pebble trap
with pressure sealing flange in *Ecoguss* and counter flange

without heating

\varnothing 75 Art. # 48 370.01

\varnothing 110 Art. # 48 310.01

\varnothing 125 Art. # 48 312.01

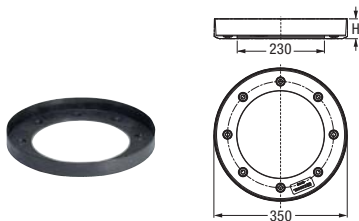
with heating

\varnothing 75 Art. # 48 370.02

\varnothing 110 Art. # 48 310.02

\varnothing 125 Art. # 48 312.02

Accessories



Damming ring in *Ecoguss*

for drainage safety

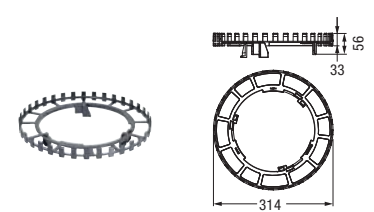
H = 35 mm

\varnothing 75 Art. # 48 335

\varnothing 110 Art. # 48 335

H = 45 mm

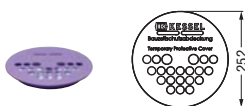
\varnothing 125 Art. # 48 345



Spacer ring in *Ecoguss*

to adapt gravel trap to height of gravel

Art. # 48 302



Temporary protective cover

in PP, with drainage function

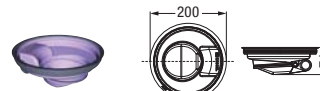
Art. # 45 301



Leaf trap

in PP

Art. # 48 300



Multistop 200

odour, foam, rodent and insect stop
Only in combination with *Ecoguss*
roof drains with twin sealing system

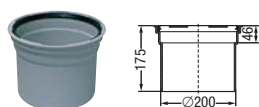
Art. # 48 520



Upper section

with support rim and slot-
ted cover 200 x 200 mm
stainless steel AISI 304, screwed

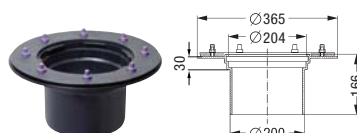
Art. # 48 954



Extension section

in PP, with lip seal

Art. # 48 988



Extension section in *Ecoguss*

with pressure sealing flange
and counter flange

for installation in waterproof
concrete H = 166 mm

Art. # 48 958



Insulating pieces

flame proof, class A 1
for flat-roof drain *Ecoguss*

without heating

Art. # 48 352

with heating

Art. # 48 353

Extension section \varnothing 200

Art. # 48 354

Reinforcement plate

in galvanized steel,
for roof applications

for flat-roof drain *Ecoguss*

Plate size: 600 x 600 mm

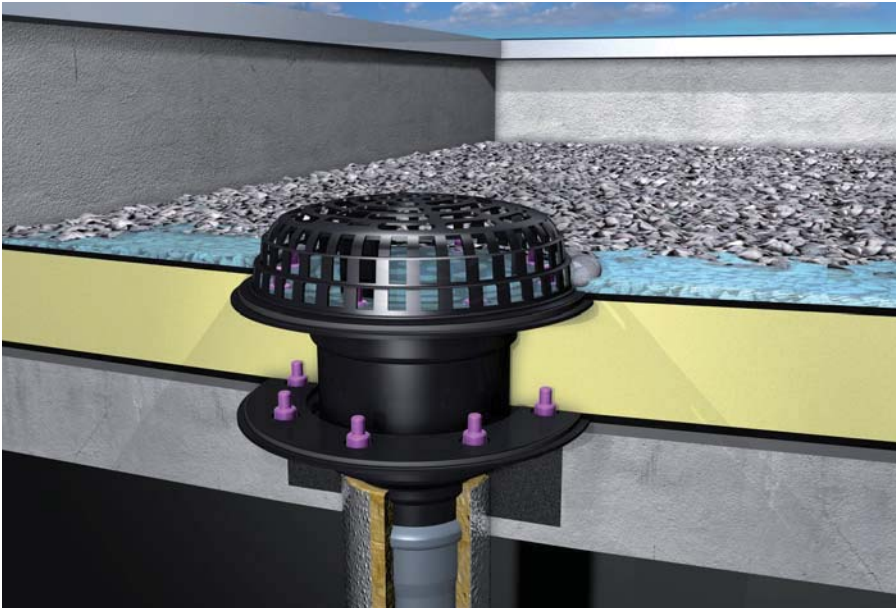
Cut-out: 270 mm

Material thickness: 1.5 mm

Art. # 48 351

Flat-roof drains in *Ecoguss* System 200

Installation example *Ecoguss* roof drains



Flat roof drains made of *Ecoguss* are available in the diameters $\varnothing 75$, $\varnothing 110$ and $\varnothing 125$ mm. In addition to a practical leaf trap (basket) to prevent blockages, flat roof drains are also available as an option in heated versions to allow proper function during winter.

Professional advantages

- **Ecoguss the new high-tech material**
- **High flow performance** - exceeds regulatory norm requirements
- **High temperature resistant material** making it ideal for use with hot asphalt / bituminous waterproof membrane installations
- **Easy installation** - also upgradable after installation to emergency drainage option
- Full selection of accessories to meet all installation requirements
- Drain body available in $\varnothing 75$, $\varnothing 110$ and $\varnothing 125$
- **Lock & Lift System** - no tools required
- **With integrated heating** - low energy consumption
- **Multistop 200** as an odour, foam, rodent and insect stop. Waterless odour trap.

Installation suggestion with emergency drainage



- Bituminous waterproofing membrane
- 120 mm heating insulation
- Bituminous waterproofing membrane
- Sloped screed layer
- 180 mm thick concrete floor slab

Flat-roof drain *Ecoguss*
with double seal

Flat-roof drain *Ecoguss*
with double seal

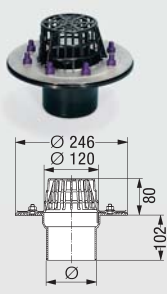
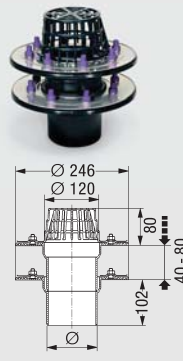
with emergency drainage

upgraded with damming ring

Flat-roof drains

System 100

Flat-roof drains

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
 <p>4.5 l/sec flow rate Installation area 180 x 180 mm</p>	<p>Roof drain in PP, vertical outlet</p> <p><input type="checkbox"/> with pressure sealing flange with counter flange in stainless steel AISI 304, with leaf trap.</p>	Ø 110	45 950
 <p>4.5 l/sec flow rate Installation area 180 x 180 mm</p>	<p>Roof drain in PP, vertical outlet</p> <p><input type="checkbox"/> with twin sealing flanges, with pressure sealing flange with counter flange in stainless steel AISI 304, with leaf trap.</p>	Ø 110	45 970

Installation example flat-roof drains



Flat roof drains made of polymer are available in the diameter Ø 110 mm. In addition to a practical leaf trap (basket) to prevent blockages, flat roof drains are also available as an option in heated versions to allow proper function during winter.

Professional advantages

- **With practical leaf trap** (basket) to prevent blockages
- **Available as heated version**

Just ask us
info@kessel.com

We make everything possible

KESSEL is the specialist wherever flexibility has to be proved with solutions that are tailor-made for special requirements. Thanks to our knowledge and possibilities in the field of polyethylene technology in terms of material, development, design, tooling and various polyethylene treatment methods, we are not only able to manufacture series products, we can also manufacture special solutions in accordance with your project-specific requirements.

