

Drains and channels





4 Drains and channels

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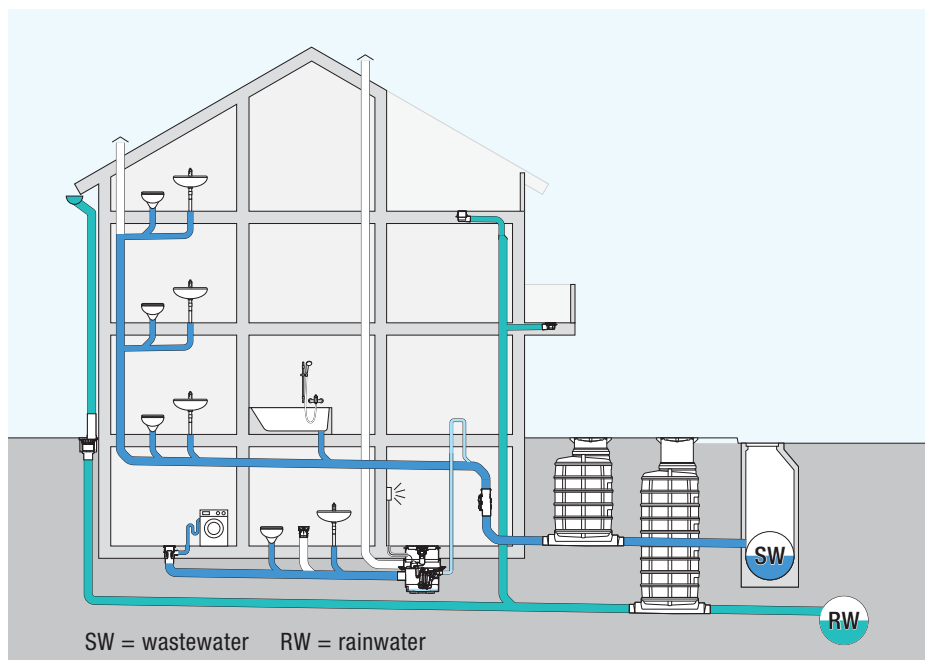
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Drainage: how it works



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.

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.

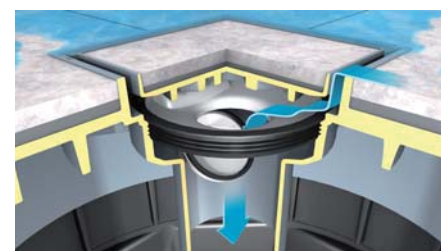
Odour trap

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.



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

The optimal solution

Floor drain *Practicus*
with pressure sealing flange



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



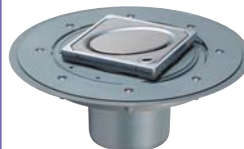
System 100

The optimal solution

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



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

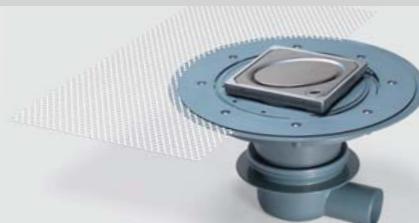


Hair filter
Art. # 43 700



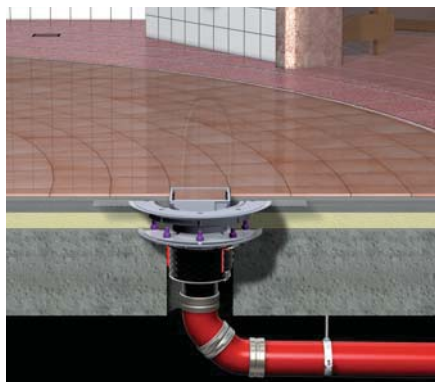
Drain body *Classic*
in ABS
with removable odour trap
Art. # 40 150

= Complete article



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.



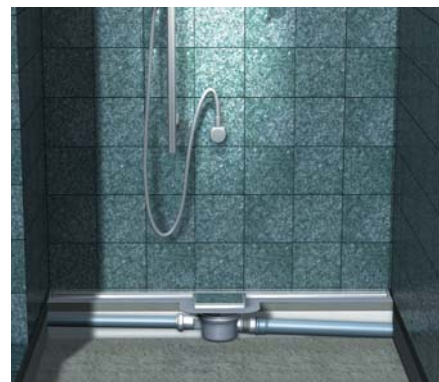
Project drains

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.





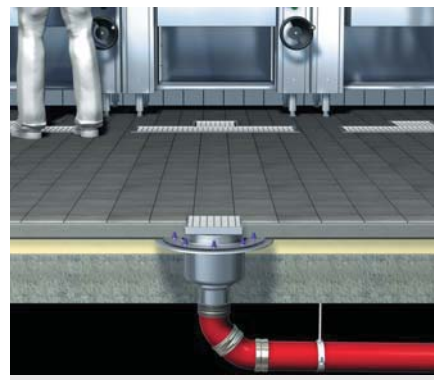
Wall drains

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.



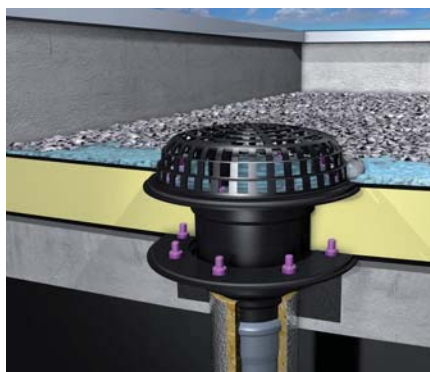
Basement Drains

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.



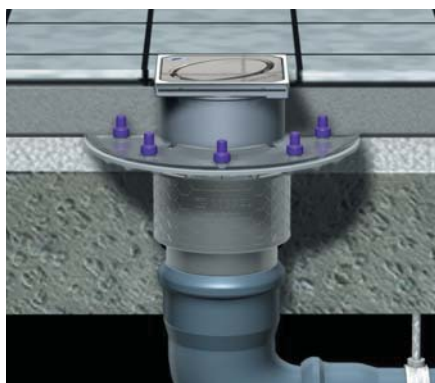
Stainless steel drains and channels

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



Waterproofing options

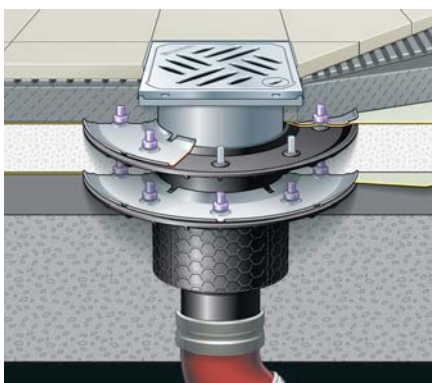
In rooms with a high moisture level, such as bathrooms, spas, washrooms or industrial kitchens in particular, high demands are made on waterproofing. The assumption that ceramic floors are watertight is often a mistake. The resulting decision to do without sealing measures frequently leads to unpredictable 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.

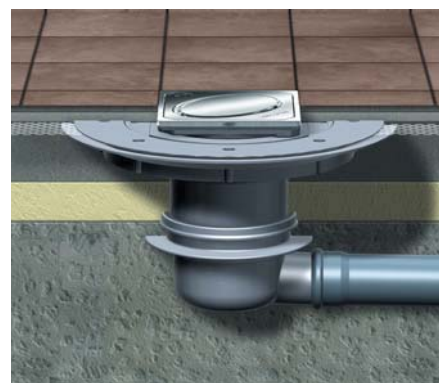


Double waterproofing flanges

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.



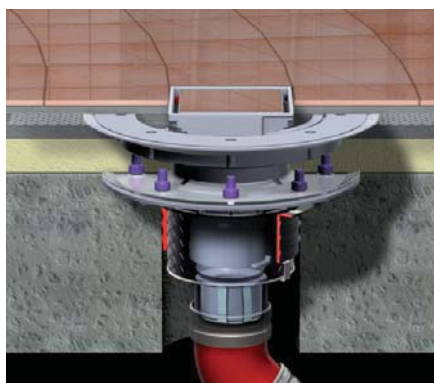
Shallow waterproofing flange

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.

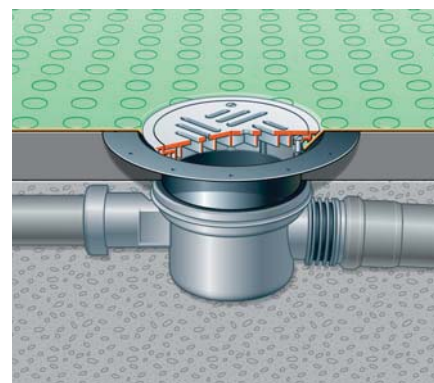
The shallow bed gasket used is applied above the screed with special ready-to-use and spreadable sealing materials in compliance with the ZDB information sheet. This is governed uniformly in the building regulations of all German states. The consequence of this is that structural works, such as bathrooms, 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:

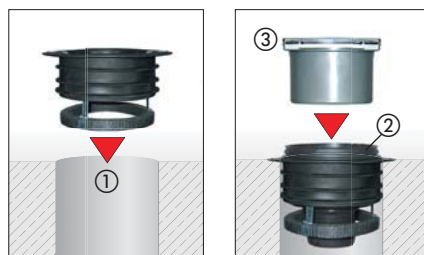
- in single- and two-family homes
- in basements
- with horizontal outlets (under certain conditions).

How it works

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

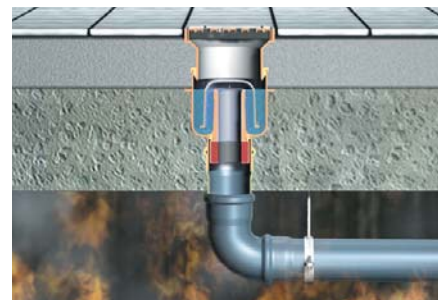
Quick-Fit passage seal including fire protection, with approval Z-19.17-1719

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.

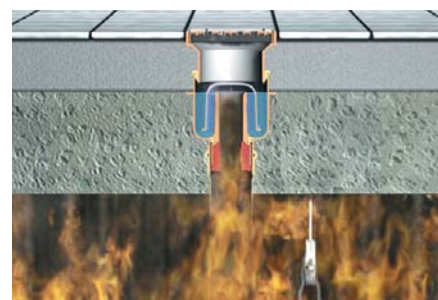


- ① Insert *Quick-Fit* in core hole (Ø 160 mm).
- ② Lower the *Ecoguss* (2) drain body with vertical outlet into *Quick-Fit*.
- ③ Fit the upper section.

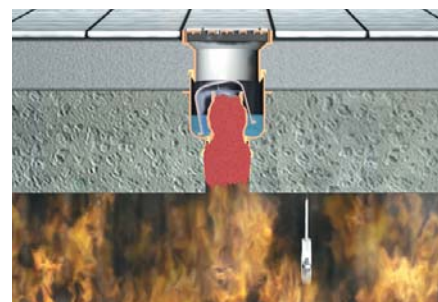
Fire-Kit fire protection insert (certification no. Z-19.17-1719)



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.

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 3 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 it's 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	+	Rapeseed 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 155 – 161

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

Floor / Roof drains *Practicus* Page 158 – 161

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

Bathroom / Shower drains

Bathroom drains System 125

“The Ultraflat” Page 164 – 169

Minimum installation height for renovation and construction

“The Vertical” Page 166 – 169

Compact drain body with vertical outlet makes it ideal for renovations

Giro Page 166 – 169

The ones with the special twist

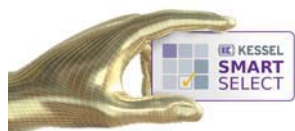
Bathroom drains System 100

“The Superflat” Page 172 – 177

Bathroom drain with flexible outlet and low installation height

Classic Page 174 – 177

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

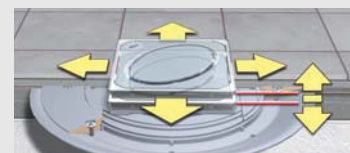
Cheaper and faster installation for drains with vertical outlet: *Quick-Fit* passage seal for core holes with a diameter of only 160 mm (around 2/3 cost saving).

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 Ø 58, 78, 110 and NEW: Ø 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



Ø	58	78	83	110
H	100	110	110	110

Ø 58

Lateral outlet
Art. # 48 358

Vertical outlet
Art. # 48 458

Ø 78

Lateral outlet
Art. # 48 378

Vertical outlet
Art. # 48 478

Ø 83

Lateral outlet
Art. # 48 383

Vertical outlet
Art. # 48 483

Ø 110

Lateral outlet
Art. # 48 311

Vertical outlet
Art. # 48 411

Upper sections

Shallow bed upper section in ABS, with mesh fabric



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

Shallow bed upper section in ABS, with mesh fabric



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

Upper section in ABS



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

48 358.51	48 358.53	48 358.11
48 458.51	48 458.53	48 458.11
48 378.51	48 378.53	48 378.11
48 478.51	48 478.53	48 478.11
48 383.51	48 383.53	48 383.11
48 483.51	48 483.53	48 483.11
48 311.51	48 311.53	48 311.11
48 411.51	48 411.53	48 411.11
	48 311.63	48 311.11
	48 411.63	48 411.11

48 311.53

For other combinations and accessories see modular system page 160 - 161

KESSEL

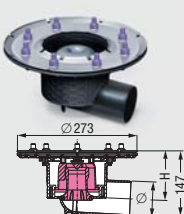
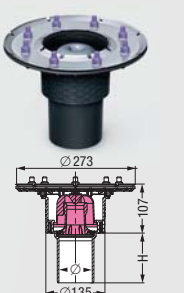

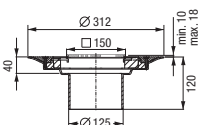

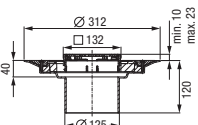

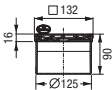

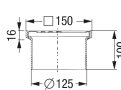
EN 1253-1

Catalogue 3.1 157

For other product combinations and accessories, see the modular system at page 160 - 161

Project drains *Ecoguss* with pressure sealing flange

Matrix order system / Products

Drain body	Upper sections																												
<p><i>Ecoguss</i> 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																									
Complete drain comprising a combination of the drain body and upper section																													
Ø 58																													
Lateral outlet Art. # 48 758	48 758.51	48 758.53	48 758.63	48 758.11																									
Vertical outlet Art. # 48 858	48 858.51	48 858.53	48 858.63	48 858.11																									
Ø 78																													
Lateral outlet Art. # 48 778	48 778.51	48 778.53	48 778.63	48 778.11																									
Vertical outlet Art. # 48 878	48 878.51	48 878.53	48 878.63	48 878.11																									
Ø 83																													
Lateral outlet Art. # 48 783	48 783.51	48 783.53	48 783.63	48 783.11																									
Vertical outlet Art. # 48 883	48 883.51	48 883.53	48 883.63	48 883.11																									
Ø 110																													
Lateral outlet Art. # 48 711	48 711.51	48 711.53	48 711.63	48 711.11																									
Vertical outlet Art. # 48 811	48 811.51	48 811.53	48 811.63	48 811.11																									

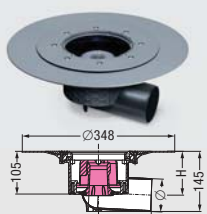
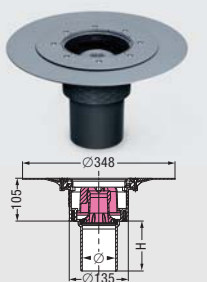

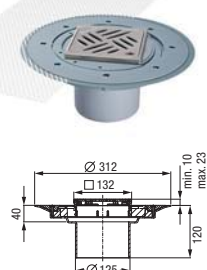

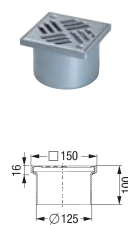
For other combinations and accessories see modular system page 160 - 161



EN 1253-1

Project drains *Ecoguss* with glue flange

Matrix order system / Products

Drain body	Upper sections																												
<p><i>Ecoguss</i> 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 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	58	78	83	110																									
B	245	134	134	148																									
H	120	107	106	90																									
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. # 48 558	48 558.51	48 558.53	48 558.63	48 558.11																									
Vertical outlet Art. # 48 658	48 658.51	48 658.53	48 658.63	48 658.11																									
Ø 78																													
Lateral outlet Art. # 48 578	48 578.51	48 578.53	48 578.63	48 578.11																									
Vertical outlet Art. # 48 678	48 678.51	48 678.53	48 678.63	48 678.11																									
Ø 83																													
Lateral outlet Art. # 48 583	48 583.51	48 583.53	48 583.63	48 583.11																									
Vertical outlet Art. # 48 683	48 683.51	48 683.53	48 683.63	48 683.11																									
Ø 110																													
Lateral outlet Art. # 48 511	48 511.51	48 511.53	48 511.63	48 511.11																									
Vertical outlet Art. # 48 611	48 611.51	48 611.53	48 611.63	48 611.11																									


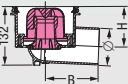

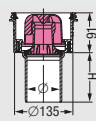

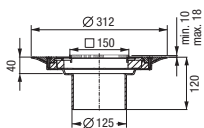

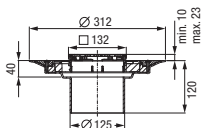



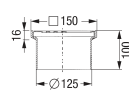


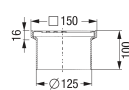

For other combinations and accessories see modular system page 160 - 161



EN 1253-1

Project drains *Ecoguss* with connection flange

Matrix order system / Products

Drain body	Upper sections																												
<i>Ecoguss</i> with connection flange for connection to SML-pipe, with odour trap 50 mm   <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	Shallow bed upper section in ABS, with mesh fabric   With slotted cover 138 x 138 mm and rim in stainless steel AISI 304, class L 15, screwed Art. # 48 963 	Shallow bed upper section in ABS, with mesh fabric   With design cover Kessel 120 x 120 mm and rim in stainless steel AISI 304, class L 15, <i>Lock & Lift System</i> Art. # 48 904 	Upper section in ABS   With design cover Kessel 120 x 120 mm, and rim in stainless steel AISI 304, class L 15, <i>Lock & Lift System</i> Art. # 48 201 	Upper section in ABS   With slotted cover 138 x 138 mm in stainless steel AISI 304, class K 3, screwed Art. # 48 950 
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																									
Ø 78																													
Lateral outlet Art. # 48 378	48 378.51	48 378.53	48 378.63	48 378.11																									
Vertical outlet Art. # 48 478	48 478.51	48 478.53	48 478.63	48 478.11																									
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																									

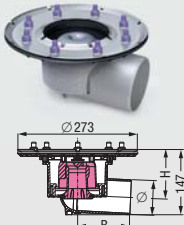
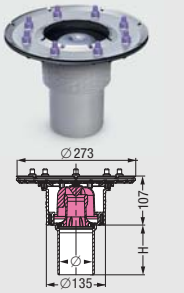



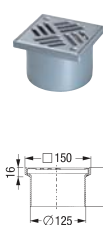
For other combinations and accessories see modular system page 160 - 161



EN 1253-1

Project drains *Practicus* with pressure sealing flange

Matrix order system / Products

Drain body	Upper sections																							
<p>Practicus, in PP with pressure sealing flange with odour trap</p>  <table><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><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</p> <p>Art. # 48 963</p> <p>▼</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>▼</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>▼</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> <p>▼</p>
Ø	50	75	110																					
B	245	134	148																					
H	120	107	90																					
Ø	50	75	110																					
H	100	110	110																					
Ø 50	Complete drain comprising a combination of the drain body and upper section																							
Lateral outlet Art. # 45 159	45 159.51	45 159.53	45 159.63	45 159.11																				
Vertical outlet Art. # 45 259	45 259.51	45 259.53	45 259.63	45 259.11																				
Ø 75																								
Lateral outlet Art. # 45 179	45 179.51	45 179.53	45 179.63	45 179.11																				
Vertical outlet Art. # 45 279	45 279.51	45 279.53	45 279.63	45 279.11																				
Ø 110																								
Lateral outlet Art. # 45 119	45 119.51	45 119.53	45 119.63	45 119.11																				
Vertical outlet Art. # 45 219	45 219.51	45 219.53	45 219.63	45 219.11																				


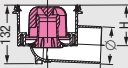

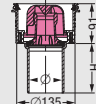

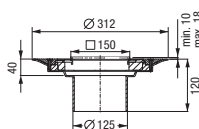


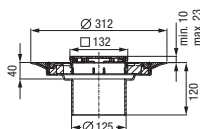


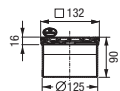


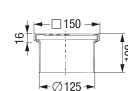

For other combinations and accessories see modular system page 160 - 161



EN 1253-1

Project drains *Practicus* with connection flange

Matrix order system / Products

Drain body	Upper sections																							
<p>Practicus, in PP with connection flange with odour trap</p>   <table><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><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 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	50	75	110																					
B	245	134	148																					
H	120	109	92																					
Ø	50	75	110																					
H	100	110	110																					
Ø 50	Complete drain comprising a combination of the drain body and upper section																							
Lateral outlet Art. # 45 150	45 150.51	45 150.53	45 150.63	45 150.11																				
Vertical outlet Art. # 45 250	45 250.51	45 250.53	45 250.63	45 250.11																				
Ø 75																								
Lateral outlet Art. # 45 170	45 170.51	45 170.53	45 170.63	45 170.11																				
Vertical outlet Art. # 45 270	45 270.51	45 270.53	45 270.63	45 270.11																				
Ø 110																								
Lateral outlet Art. # 45 110	45 110.51	45 110.53	45 110.63	45 110.11																				
Vertical outlet Art. # 45 210	45 210.51	45 210.53	45 210.63	45 210.11																				

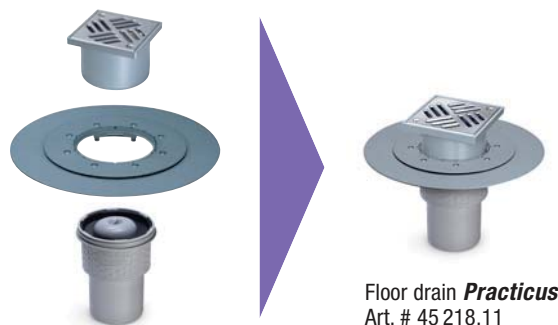


For other combinations and accessories
see modular system page 160 - 161

U
Upper sections

A
Accessories

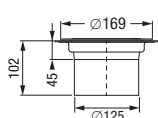
D
Drain bodies



Project drains *Ecoguss* and *Practicus* System 125

Upper section for PVC floorings

Variofix shallow bed upper sections



in stainless steel AISI 304

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

Art. # 59 192

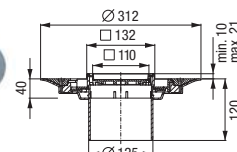
Custom made product (delivery time on request)

in ABS, incl. mesh fabric

with slotted cover/rim □ 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

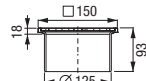


with recessed polymer cover
for on-site tiling □ 110 mm
rim in stainless steel,
class K 3, with locking system

AISI 304 Art. # 48 906

AISI 316L Art. # 48 208

Upper sections

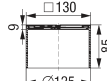


in ABS...

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

AISI 304 Art. # 48 951

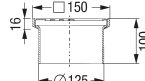
AISI 316L Art. # 48 205



in ABS...

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

Art. # 48 165



in ABS...

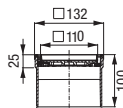
with slotted cover □ 138 mm, class K 3,
in stainless steel,
screwed

AISI 304 Art. # 48 950

AISI 316L Art. # 48 209

in ABS,
black

Art. # 48 193



in ABS, tileable...

□ 110 mm, made of polymer, class K 3
with rim
in stainless steel

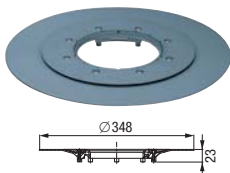
AISI 304 Art. # 48 211

AISI 316L Art. # 48 207

with rim
in polymer

Art. # 48 210

Accessories



Glue flange with counter flange

in ABS, Ø 348 mm
(also for compound seal)

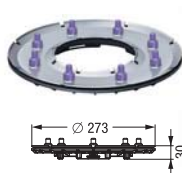
Art.Nr. 48 410

can be combined with drain bodies
and extension sections

Mesh fabric

for Art. # 48 410

Art. # 046-056



Pressure sealing flange

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

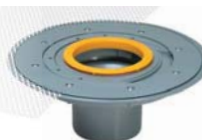
Art. # 48 402

can be combined with drain bodies
and extension sections

Elastomer waterproof membrane in NBR

for Art. # 48 402

Art. # 48 981



Intermediate section with glue flange

in ABS, for shallow bed gasket
incl. mesh fabric

Art. # 48 900



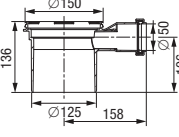
Extension section

in PP, with lip seal
without lateral inlet

Art. # 48 987

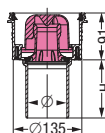
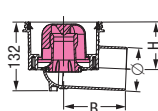
with lateral inlet Ø 50

Art. # 48 989



Drain bodies *Ecoguss* and *Practicus*

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



Ecoguss

with removable odour trap

Lateral outlet

Ø	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

Ø	B	H	Article #
58	100		48 458
78	110		48 478
83	110		48 483
110	110		48 411

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

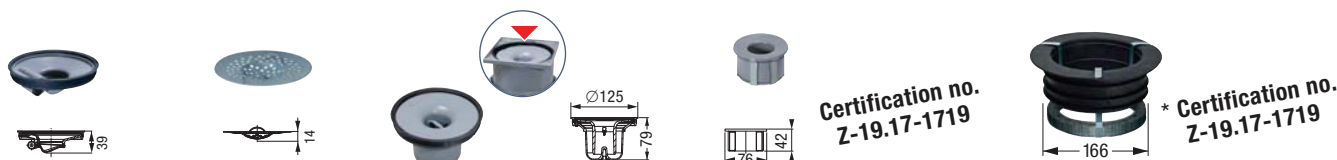
Upper section with design cover



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

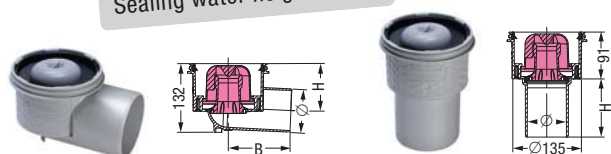


Multistop	Hair filter	Odour trap	Fire-Kit Fire protection insert	Quick-Fit the passage seal
odour, foam, rodent and insect stop Art. # 48 500	made of polymer Art. # 48 700	for all upper sections System 125, sealing water height 50 mm according to norm Art. # 48 600	Only for Ecoguss / Practicus drains 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 Fire-Kit protection insert) without fire protection Art. # 48 991

Sludge trap

Art. # 48 168 see page 147

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



Practicus in PP

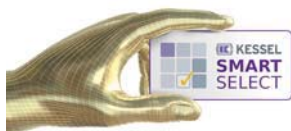
with removable odour trap

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.



Kessel



Oval



Spot



Cross



Festival



Parade



Slot



Sticks



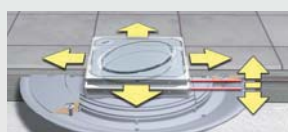
Invisible



"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

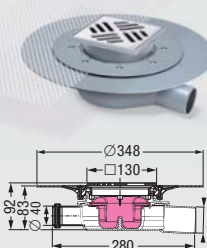
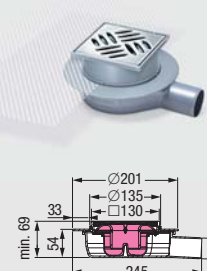
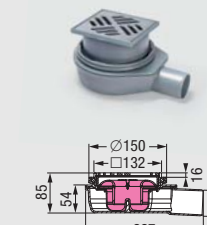
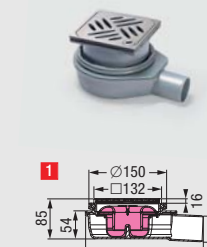
For discharging water that has seeped into the floor structure.

Multistop

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

"The Ultraflat"

Products

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>	Ø 50	45 700.91
 <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>	1 Ø 40 2 Ø 50	45 740.20 45 750.20
 <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>	Ø 50	45 700.20
 <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). 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>	Ø 50 Ø 50	45 700.63 45 700.71

Installation example *"The Ultraflat"*



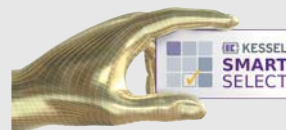
Thanks to its minimum overall installation height, *"The Ultraflat"* bathroom drain is particularly suitable for flush-to-floor showers, which are one of the latest trends. Body and upper section together are only 69 millimetres high and are thus also suitable for retrofitting. Connection to the shallow 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 168 - 169).
- **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.




"The Vertical"

Products

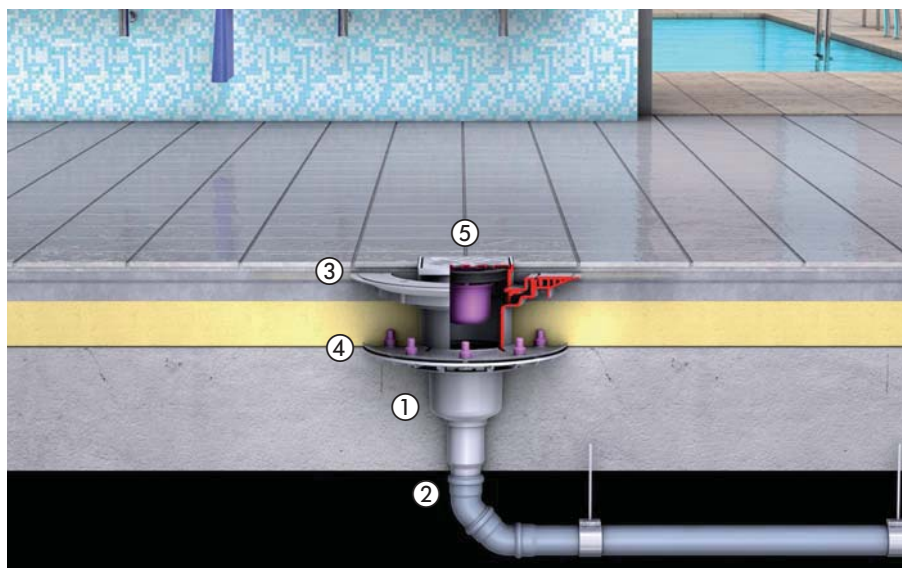
Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
 <p>1.2 l/sec flow rate Installation area 160 x 160 mm</p>	<p>Bathroom drain "The Vertical" in ABS With vertical outlet Ø 40/50, with removable odour trap With upper section in ABS</p> <p><input type="checkbox"/> 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.</p> <p>   EN 1253-1 </p>	Ø 40/50	45 254.20

Giro

Products

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
 <p>1.3 l/sec flow rate Installation area 350 x 250 mm</p>	<p>Bathroom drain Giro in PP sound-absorbing, Ø 50, flexible outlet, with rotatable lateral inlet Ø 50, with removable odour trap, fixed lip seal With upper section in ABS</p> <p><input type="checkbox"/> with slotted cover 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.</p> <p>   EN 1253 </p>	Ø 50	45 101.20

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 168 - 169).



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

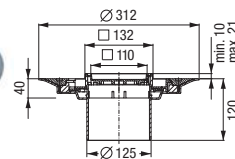
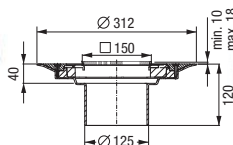
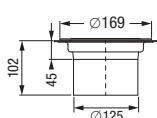


www.kessel-design.com

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

Upper section for PVC floorings

Variofix shallow bed upper sections



in stainless steel AISI 304

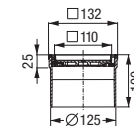
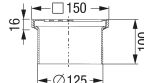
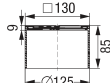
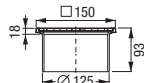
with cover Ø 133 mm
in stainless steel AISI 304,
class L 15, screwed.
For use with 1-4 mm PVC / vinyl flooring.
Art. # 59 192
not in combination with drain body "The Ultraflat"
Custom made product (delivery time on request)

in ABS, incl. mesh fabric

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

in ABS...

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

in ABS...

with slotted cover □ 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

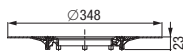
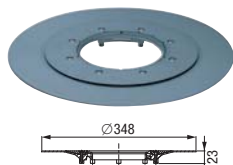
in ABS, tileable...

□ 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

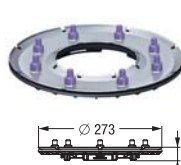
Art. # 48 210

Accessories



Glue flange with counter flange

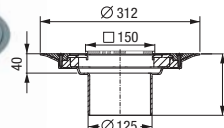
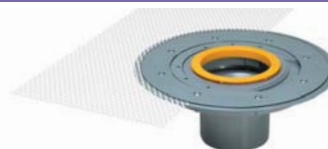
in ABS, Ø 348 mm (also for compound seal)
Art.Nr. 48 410
can be combined with drain bodies and extension sections



Pressure sealing flange

in stainless steel AISI 304, Ø 273 mm,
with seeping water opening
Art. # 48 402

can be combined with drain bodies and extension sections



Intermediate section with glue flange

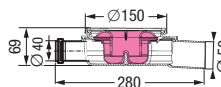
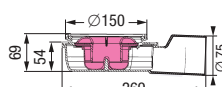
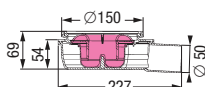
in ABS, for shallow bed gasket
incl. mesh fabric
Art. # 48 900

Mesh fabric for Art. # 48 410
Art. # 046-056

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 Ø 50
Art. # 45 700

Lateral outlet Ø 75
Art. # 45 770

"The Ultraflat" in ABS

with removable odour trap
with lateral inlet Ø 40,
lateral outlet Ø 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

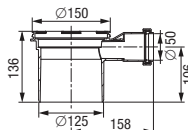
Upper section with design cover



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 Ø 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

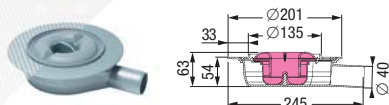
Odour trap

for all upper sections System 125,
sealing water height 50 mm
according to norm
Art. # 48 600

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 Ø 40,
Art. # 45 740

Lateral outlet Ø 50,
Art. # 45 750

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



"The Vertical" in ABS

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



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.

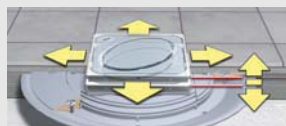


...with shallow bed gasket

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.

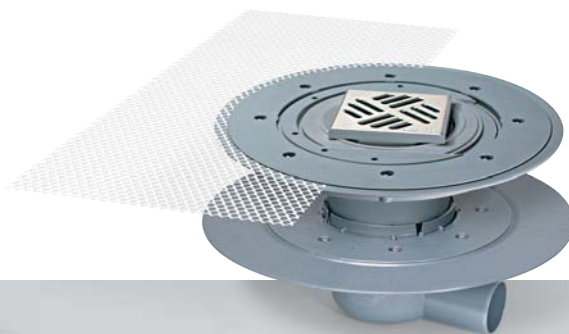


SAFE INSTALLATION

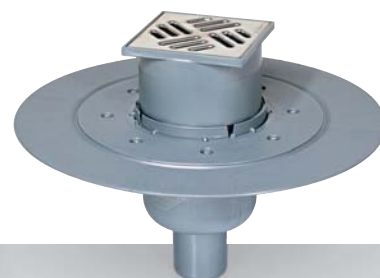
The fixed lip seal reliably prevents the upper section from slipping.



...with connection flange



...with twin sealing flanges

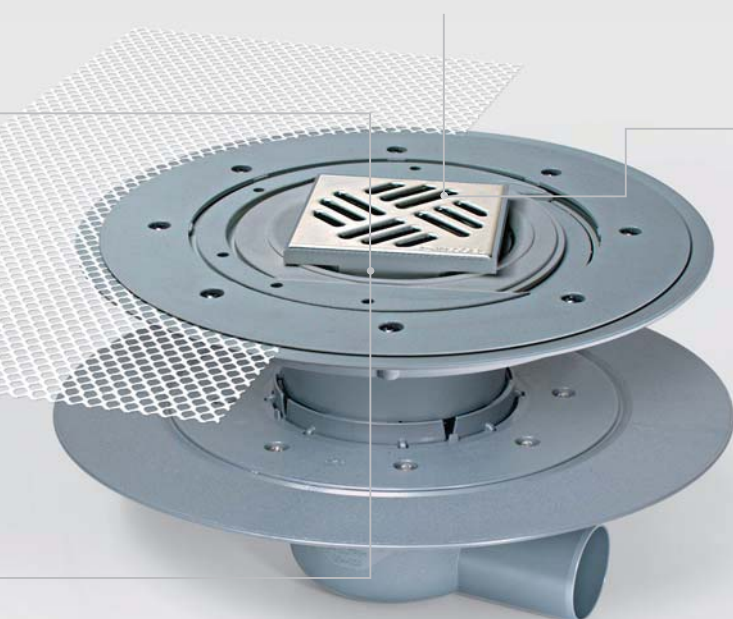


...with glue flange

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.

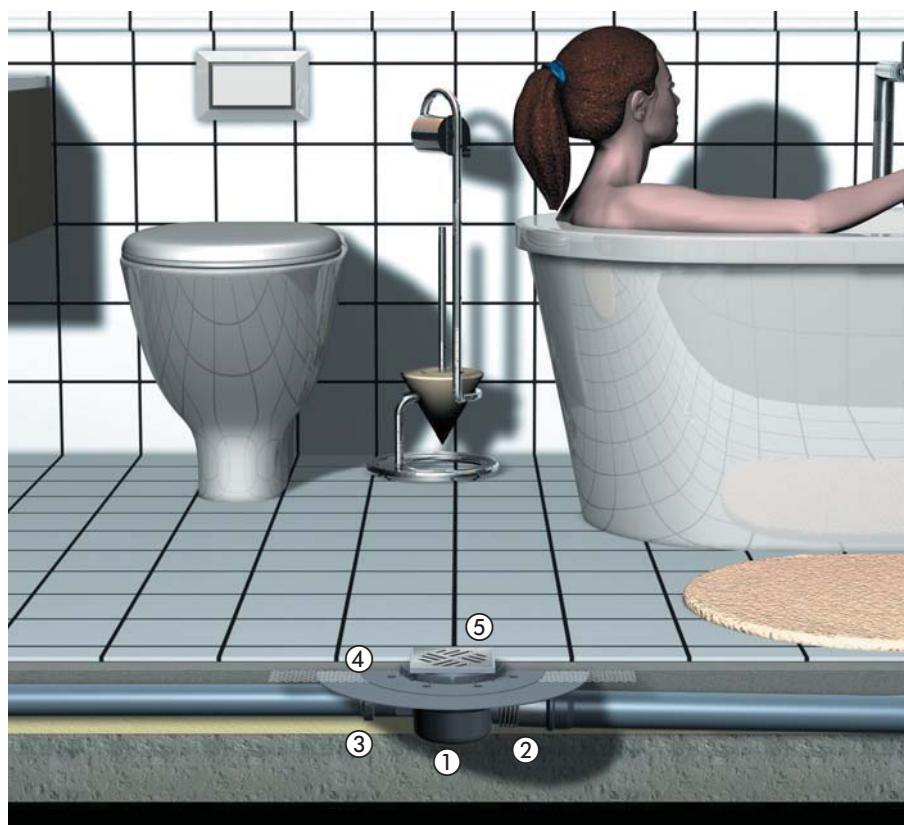


"The Superflat"

Products

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>	Ø 50	42 701.91
 <p>Illustration shows design cover <i>Oval</i></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><input type="checkbox"/> with design cover <i>Oval</i> 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><input type="checkbox"/> 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>	Ø 50 Ø 50	42 701.54 42 701.50
 <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 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>	Ø 50	42 701.95
 <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 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>	Ø 50	42 701.20

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 Ø 50 mm with sound decoupling and a lateral inlet Ø 40 mm for the connection of other draining objects. 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 176 - 177).
- **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



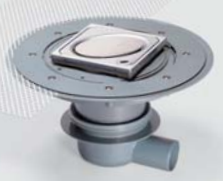





www.kessel-design.com

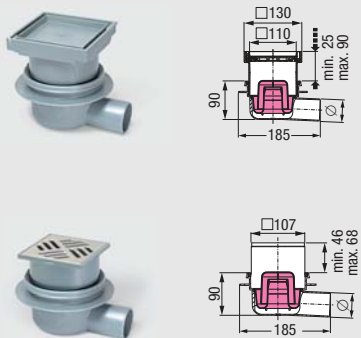

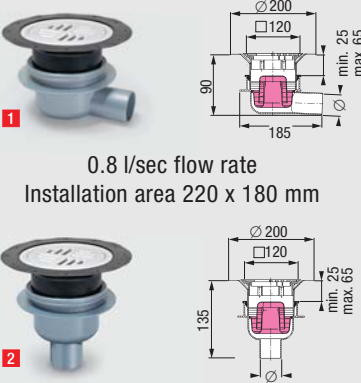



SmartSelect makes planning quite simply quicker - visit smartselect.kessel.com for the configurator for alternative waterproofing options.

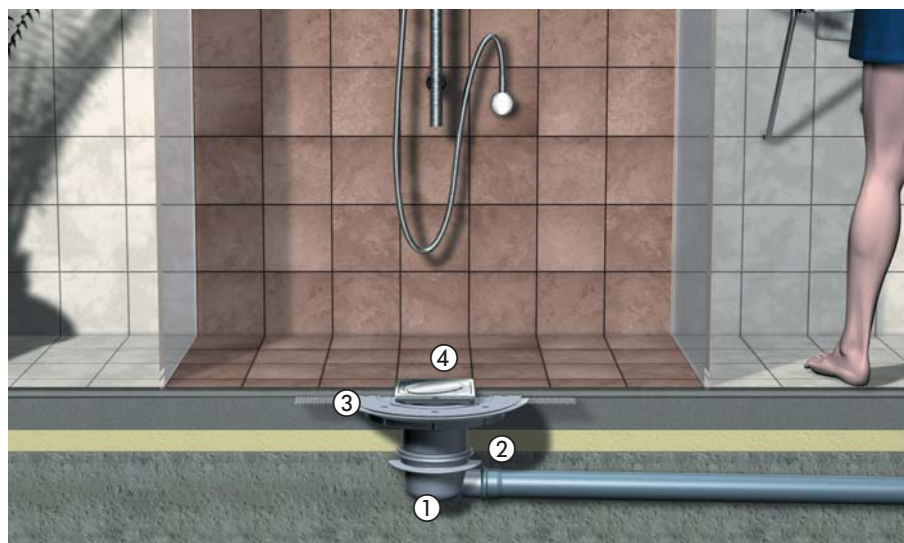
Classic

Products

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><input type="checkbox"/> 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><input type="checkbox"/> with standard slotted cover 95 x 95 mm in stainless steel AISI 304, for tile thicknesses 6-14 mm, class K 3</p> <p><input type="checkbox"/> 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><input type="checkbox"/> 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><input type="checkbox"/> with standard slotted cover 95 x 95 mm in stainless steel AISI 304, for tile thicknesses 6-14 mm, class K 3</p> <p><input type="checkbox"/> 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>Ø 50 Ø 75</p> <p>Ø 50 Ø 75</p> <p>Ø 50 Ø 75</p> <p>Ø 50 Ø 75</p> <p>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><input type="checkbox"/> 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><input type="checkbox"/> 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>Ø 50 Ø 75</p> <p>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><input type="checkbox"/> with slotted cover 100 x 100 mm in stainless steel AISI 304, class K 3</p> <p>Vertical outlet</p> <p><input type="checkbox"/> with slotted cover 100 x 100 mm in stainless steel AISI 304, class K 3</p> <p> EN 1253-1</p>	<p>Ø 50 Ø 75</p> <p>Ø 50 Ø 75</p>	<p>40 150.90 40 170.90</p> <p>40 250.90 40 270.90</p>

Classic		Products	
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> <ul style="list-style-type: none"> <input type="checkbox"/> with recessed polymer drain cover for on-site tiling 110 x 110 mm, class K 3 <input type="checkbox"/> with slotted cover 100 x 100 mm in stainless steel AISI 304, class K 3 <p>Vertical outlet</p> <ul style="list-style-type: none"> <input type="checkbox"/> with recessed polymer drain cover for on-site tiling 110 x 110 mm, class K 3 <input type="checkbox"/> with slotted cover 100 x 100 mm in stainless steel AISI 304, class K 3 <p> EN 1253-1</p>	<p>Ø 50 Ø 75</p> <p>Ø 50 Ø 75</p> <p>Ø 50 Ø 75 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 40 250.20 40 270.20</p>
 <p>0.8 l/sec flow rate Installation area 220 x 180 mm</p> <p>1</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 2 Vertical outlet</p> <p>Upper section with sealing flange for use with 1 - 4 mm vinyl / synthetic flooring</p> <ul style="list-style-type: none"> <input type="checkbox"/> with slotted cover made of polymer, grey, class K 3 (able to withstand loads up to max. 300 kg). <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>

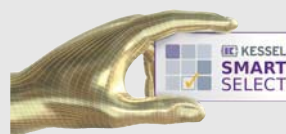
Installation example *Classic*



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

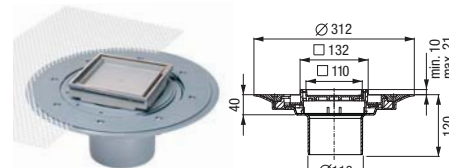
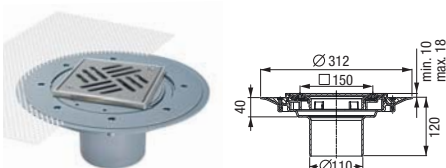
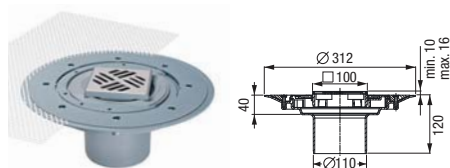
- **Variable upper section**
rotatable, tiltable and height adjustable
- **Sealing system safe to install**
The fixed lip seal reliably prevents the upper section from slipping
- With **removable odour trap** - full access for maintenance and cleaning
- **Flexible modular system** with a large number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



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

Variofix shallow bed upper sections



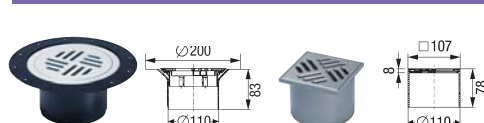
in ABS, vertical and lateral adjustable, incl. mesh fabric

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...

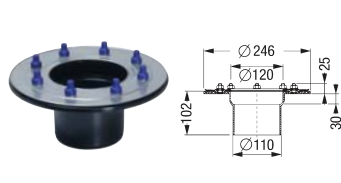
with rim and a closed
cover □ 150 mm
in stainless steel
AISI 304, screwed,
with gasket, class L 15
Art. # 27 196G

Accessories



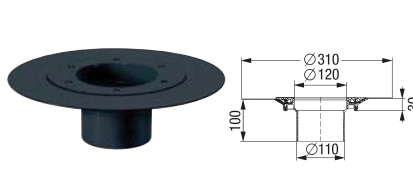
Glue flange

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



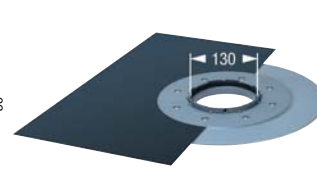
Extension section

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

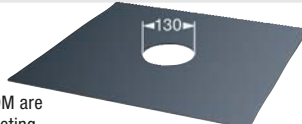


With glue flange and
waterproof membrane

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



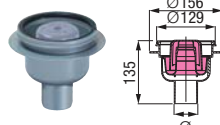
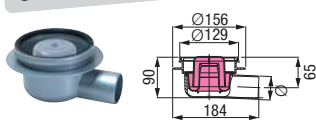
Mesh fabric

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

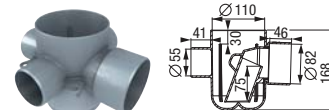
The waterproof membrane in PVC and EPDM are
not suitable for connections to asphalt sheeting.

Drain bodies

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



1.8 l/sec flow rate *)



Bathroom drain *Classic* in ABS

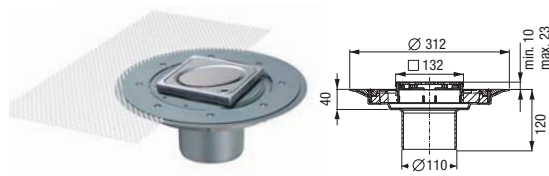
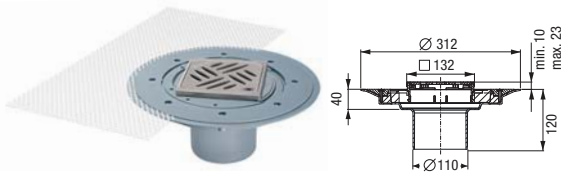
with removable odour trap		
Ø	Lateral outlet	Vertical outlet
50	Art. # 40 150	Art. # 40 250
75	Art. # 40 170	Art. # 40 270

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**

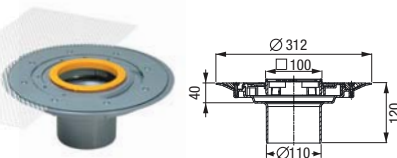
with design cover **Oval** □ 120 mm
and rim in stainless steel AISI 304, class L 15.
For tile thickness of 8-21 mm, **Lock & Lift System**
Art. # **47 905**



in ABS

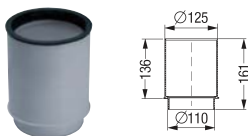
design covers □ 120 mm and rim in stainless steel AISI 304, class K 3 / L 15 with or without **Lock & Lift System**.

	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... Art. #	27 201	27 202	27 221	27 213	27 215	27 224	27 219	27 217
without Lock & Lift... 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, Ø108 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"**

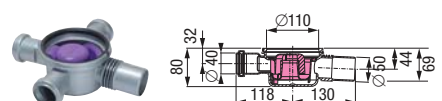
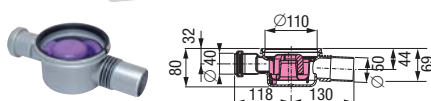
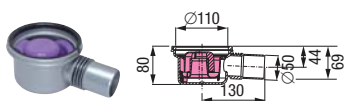
for article: 37 3001
Consist of
3 inlet adapter Ø 50 mm,
1 outlet adapter Ø 75 mm
and 1 push-fit connection
for upper section Ø 110,
EN 1451-1
Art. # **37 3008**

**Conversion kit,
"DIN glue connection"**

for article: 37 3001
Consist of
3 inlet adapter Ø 50 mm,
and 1 outlet adapter Ø 75,
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 **182 – 183**

Variety of different installation options - for an individual bathroom design

Shower channels

Linearis Compact

Page **184 – 185**

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

Shower channels

Linearis Super 60

Page **186 – 187**

With tileable access cover - full access for maintenance and cleaning!

Shower channels

Linearis

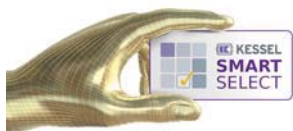
Extremely narrow channel - elegant appearance!

System 125

Page **186 – 187**

System 100

Page **190 – 192**

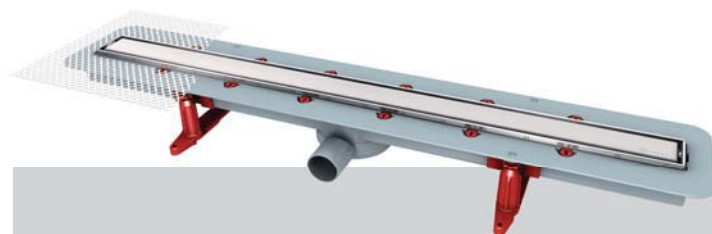


SmartSelect makes planning quite simply quicker - visit smartselect.kessel.com for the configurator for alternative waterproofing options.

Shower channels *Linearis*



Linearis shower channels for flush-to-floor installation are leading the modern bathroom design trends. Multiple channel inserts are available including stainless steel, wood-optic for a calm and warm ambience and LED induction technology backlighting.



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

Attractive design covers also available with LED backlighting technology. 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!

With tileable access cover - full access for maintenance and cleaning!

Extremely narrow channel - elegant appearance!

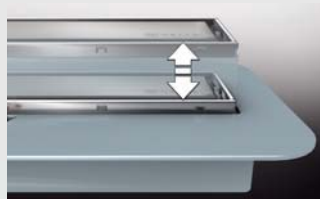
Linearis Compact

Linearis Super60

Linearis

FLEXIBILITY

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



Linearis Comfort
Art. # 45600.83

INSTALLATION AID

Included support feet are vertically adjustable.

CLEANING

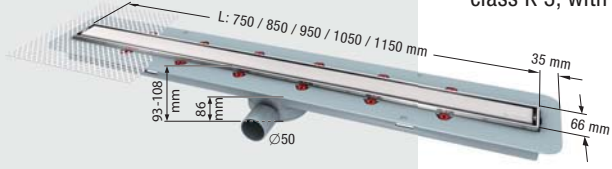
Cleaning and care made easy. Channel rim, odour trap and hair filter can be removed without tools - for ideal shower hygiene.




	Linearis Comfort	Linearis Compact	Linearis Super60	Linearis
Flow rate with 10 mm threshold	1.1 l/sec	0.6 l/sec	1.2 l/sec	0.4 l/sec
Outlet	Ø 50 mm	Ø 50 mm	Ø 50 mm	Ø 50 mm
Installation height Minimum overall installation height	86 mm	80 mm	122 mm	92 mm
Waterproofing options	flange with mesh fabric			
Modular Design	✓	✓	✓	✓
Easy access for service	✓	✓	✓✓	✓✓
Customizable	✓	✓	✓	-
Height adjustable frame to meet on-site tile thicknesses	✓	-	-	-

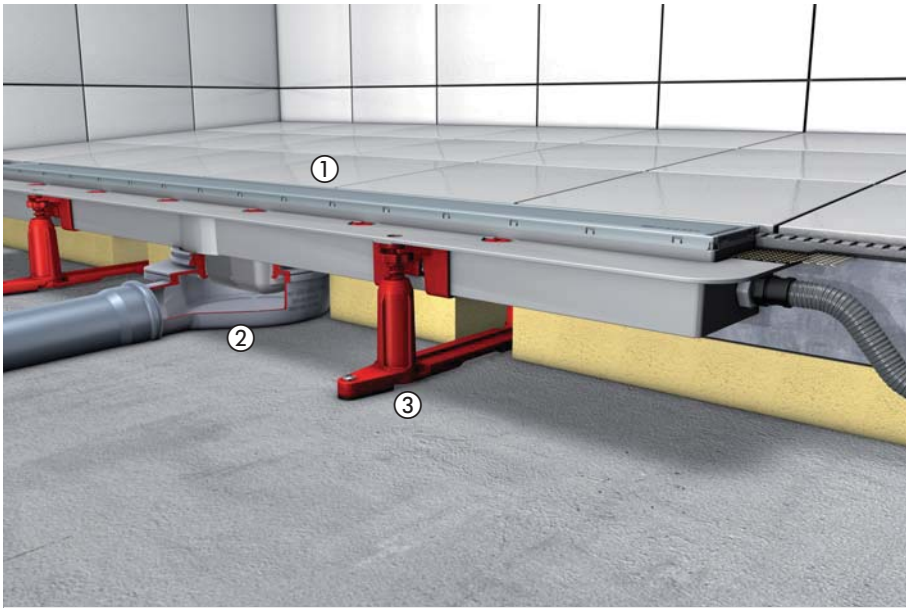
Shower channels

Complete channels

Linearis Comfort			Products
Illustration and dimensioned drawing	Article description	Channel length	Article #
 <p>Installation supports and mesh fabric included</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	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
	1.0 l/sec flow rate without threshold, 1.1 l/sec flow rate with 10 mm threshold		
	Shower channel <i>Linearis Comfort Light</i> With drain body in ABS, Ø 50, lateral outlet With removable odour trap, sealing water height 22 mm <input type="checkbox"/> cover with maintenance-free induction technology and "white" LED lights (other colours available upon request), 15 m power cable, handles loads up to 100 kg, with seeping water opening	750 mm 850 mm 950 mm 1150 mm	45 600.83 IC 45 600.84 IC 45 600.85 IC 45 600.87 IC
	1.0 l/sec flow rate without threshold, 1.1 l/sec flow rate with 10 mm threshold		
	Installation supports and mesh fabric included		

Linearis Comfort			Accessories
Illustration and dimensioned drawing	Article description	Channel length	Article #
 <p>Suitable for all channel lengths from 750 to 1150 mm</p>	Installation aid Replaces the screed underlining Including mounting adhesive <input type="checkbox"/> Linearis Comfort Suitable for all lengths, can be shortened on-site	-	48 640
	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	-	48 638

Installation example *Linearis Comfort*



① Channel cover
② Drain body
③ Installation supports



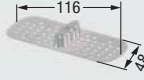
The *Linearis Comfort* shower channel effortlessly combines engineering and design to offer new and creative design concepts for your bathroom. The reversible channel cover can be displayed in the classic stainless steel look or reversed to show the invisible tiled look, also available are custom channel 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**
 - **Flexible modular system** with a large number of design covers.
 - **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

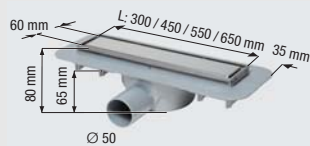




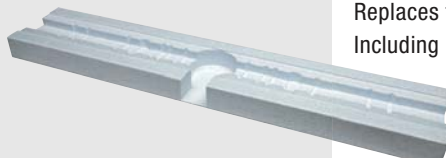
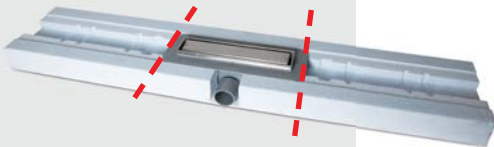
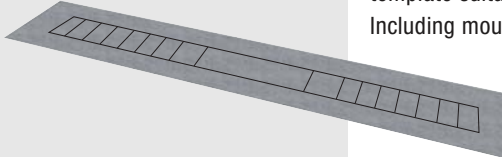
www.kessel-design.com

<i>Linearis Comfort</i>			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

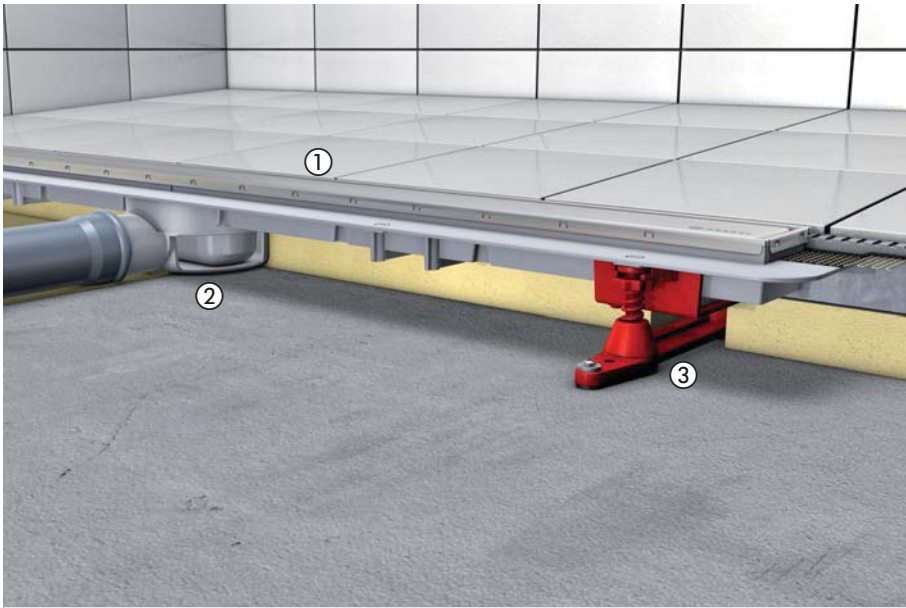
Linearis Compact			Products
Illustration and dimensioned drawing	Article description	Channel length	Article #
<p>Installation depth only 80 mm</p>  <p>Channel length from 300 to 650 mm</p>	<p>Shower channel <i>Linearis Compact</i> With drain body in ABS, Ø 50, lateral outlet With removable odour trap, 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>		550 mm	45 600.61
		650 mm	45 600.62
		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
<p>Installation supports and mesh fabric included</p>	<p>0.5 l/sec flow rate without threshold, 0.6 l/sec flow rate with 10 mm threshold</p>		

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

Shower channels

Complete channels

Installation example *Linearis Compact*



① Channel cover
② Drain body
③ Installation supports



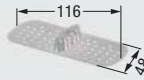

Shower channels in a classic, timeless design. Minimalistic impression fits elegantly in a purist bathroom design. The finely finished channel surface in stainless steel can be reversed to offer a recessed side where the bathroom tile or natural stone surface can be installed. The channels are ready-to-install 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)**

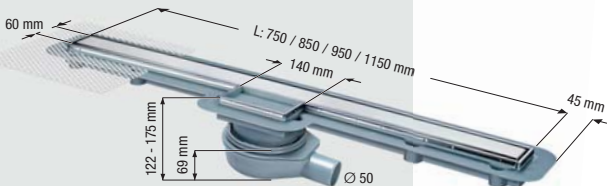


SmartSelect makes planning quite simply quicker - visit smartselect.kessel.com for the configurator for alternative waterproofing options.

<i>Linearis Compact</i>			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

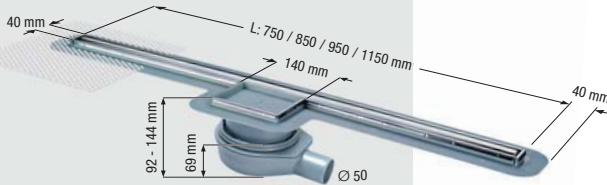
Linearis Super60

Products

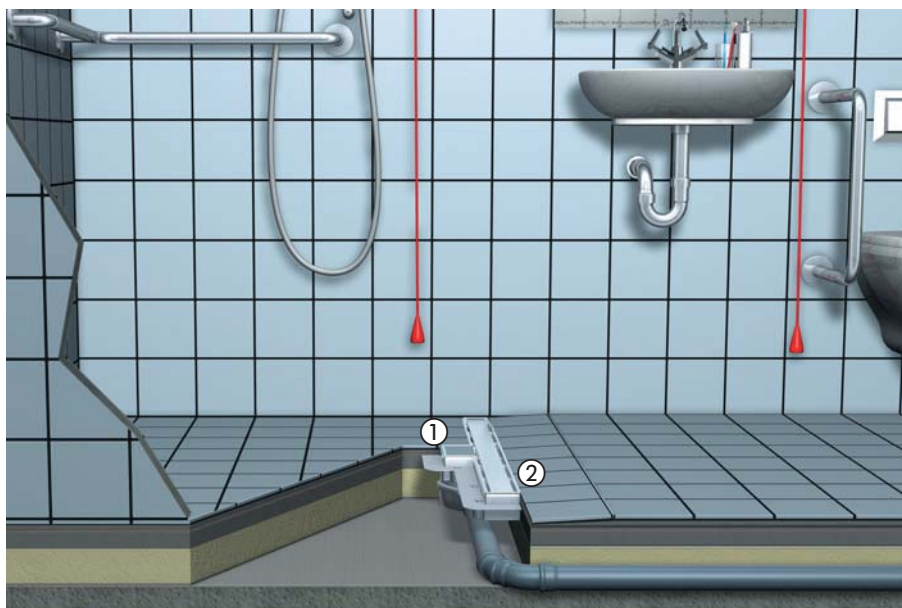
Illustration and dimensioned drawing	Article description	Channel length	Article #
 <p>Installation supports and mesh fabric included</p>	<p>Shower channel <i>Linearis Super60</i> in ABS with tileable access cover</p> <p>With bathroom drain body “The Ultraflat” in ABS, Ø 50, lateral outlet</p> <p>With removable odour trap, sealing water height 30 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, with seeping water opening</p>	750 mm	45 700.83
		850 mm	45 700.84
		950 mm	45 700.85
		1150 mm	45 700.87
	1.1 l/sec flow rate without threshold, 1.2 l/sec flow rate with 10 mm threshold		

Linearis

Products

Illustration and dimensioned drawing	Article description	Channel length	Article #
 <p>Installation supports and mesh fabric included</p>	<p>Shower channel <i>Linearis</i> in ABS with tileable access cover</p> <p>With bathroom drain body “The Ultraflat” in ABS, Ø 50, lateral outlet</p> <p>With removable odour trap, sealing water height 30 mm</p> <p><input type="checkbox"/> cover and rim in stainless steel AISI 304 class K 3, with seeping water opening</p>	750 mm	45 700.73
		850 mm	45 700.74
		950 mm	45 700.75
		1150 mm	45 700.77
	0.4 l/sec flow rate with 10 mm threshold		

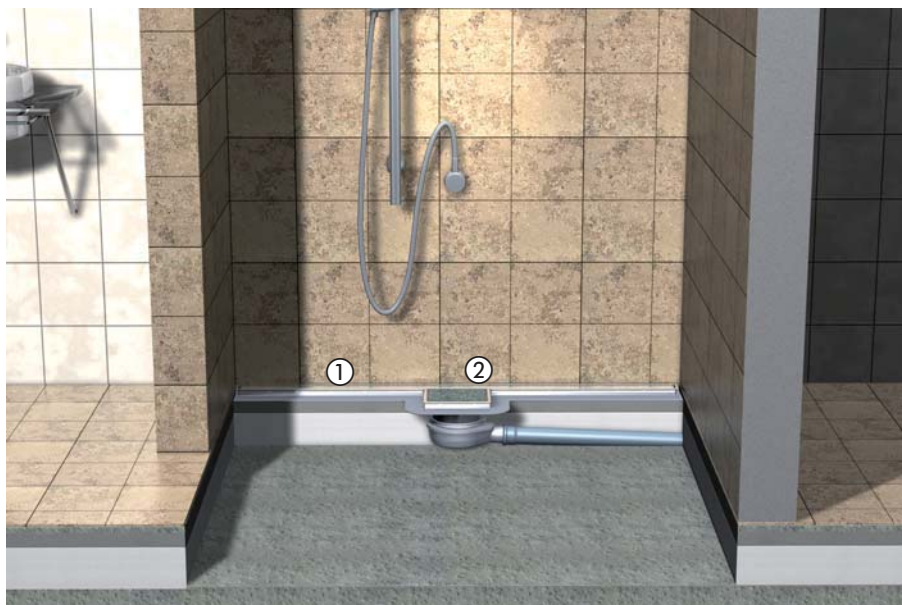
Installation example *Linearis Super60*



- ① Access cover
- ② Stainless steel channel

The *Linearis Super60* shower channels offers a very high flow rate of 72 liters per minute making it perfect for use in higher flow applications. The *Linearis Super60* also allows full service access to the odor trap and drain body via the removable channel and access cover for cleaning and maintenance purposes. The attractive stainless steel channel can also be reversed revealing a recessed area which can be tiled to also offer the “invisible” tiled look. One channel with your choice of two styles - stainless or invisible.

Installation example *Linearis*



- ① Access cover
- ② Stainless steel channel

The *Linearis* shower channel features a narrow, elegant stainless steel channel which can be discreetly integrated into the bathroom design. With a flow capacity of 24 liters per minute the *Linearis* shower channel is ideal for mounting against the wall at the back of the shower. For cleaning and maintenance purposes the stainless steel channel and tileable access cover can be removed allowing full access to the odor trap and drain body.

Professional advantages

- **Wide channel with high flow rate** from 1.1 - 1.2 l/sec
- **Easy cleaning**
Access cover for easy cleaning and maintenance
- **Channel cover can be reversed and tiled on site**
- **Channel length:** 750 mm, 850 mm, 950 mm, 1150 mm
- **Also suitable for installation on door side**
- **Flexible modular system** with a large number of components.



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Professional advantages

- **Flow rate 0.4 l/sec**
- **Extremely narrow and elegant channel**
- **Easy cleaning**
Access cover for easy cleaning and maintenance
- **Particularly suitable** for installation on the wall side
- **Channel length:** 750 mm, 850 mm, 950 mm, 1150 mm
- **Flexible modular system** with a large number of components.



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Shower channel *Linearis Comfort*, *Linearis Compact*, *Linearis Super60* and *Linearis System 125*

Shower channel upper section *Linearis Comfort*

1.0 l/sec flow rate
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),
class K 3, with seeping water opening,
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



Linearis Comfort Light in ABS ¹⁾

With removable odour trap, sealing water height 50 mm

- ☐ **cover with maintenance-free induction technology and "white" LED lights** (other colours available upon request), 15 m power cable, handles loads up to 100 kg, with seeping water opening, installation supports and mesh fabric

Length	Art. #
750 mm	48 928 IC
850 mm	48 929 IC
950 mm	48 930 IC
1150 mm	48 932 IC



Linearis Comfort "Wengé" in ABS ¹⁾

With removable odour trap, sealing water height 50 mm

- ☐ **Cover in wood look**, handles loads up to 100 kg, with seeping water opening, installation supports and mesh fabric

Length	Art. #
750 mm	on request
850 mm	on request
950 mm	on request
1050 mm	on request
1150 mm	on request



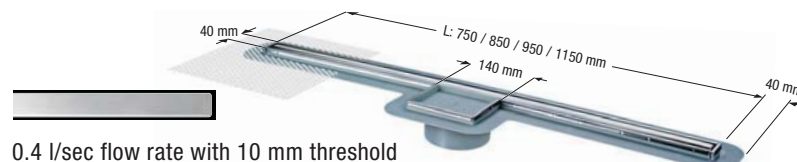
Linearis Comfort "Burlwood" in ABS ¹⁾

With removable odour trap, sealing water height 50 mm

- ☐ **Cover in wood look**, handles loads up to 100 kg, with seeping water opening, installation supports and mesh fabric

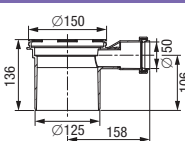
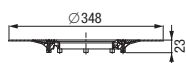
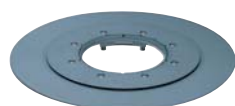
Length	Art. #
750 mm	on request
850 mm	on request
950 mm	on request
1050 mm	on request
1150 mm	on request

Shower channel upper section *Linearis*



0.4 l/sec flow rate with 10 mm threshold

Accessories



Glue flange

with counter flange, Ø 348 mm
(also for compound seal)
Art. # **48 410**

Pressure sealing flange

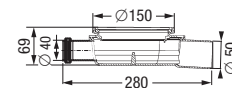
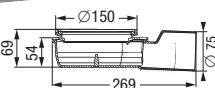
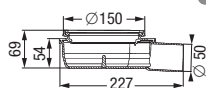
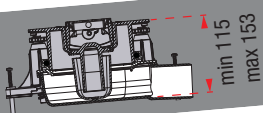
in stainless steel AISI 304, Ø 273 mm,
with seeping water opening
Art. # **48 402**

Extension section

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

Drain bodies

Total installation height including upper section



"The Ultraflat" in ABS

with removable odour trap

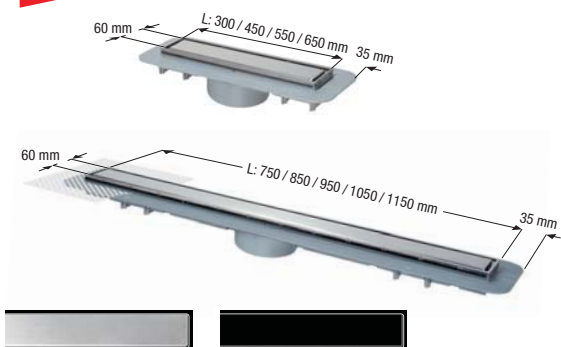
Lateral outlet Ø 50
Art. # **45 700**

Lateral outlet Ø 75
Art. # **45 770**

"The Ultraflat" in ABS

with removable odour trap

with lateral inlet Ø 40,
lateral outlet Ø 50
Art. # **45 701**

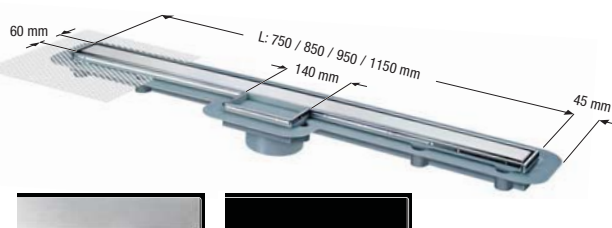
Shower channel upper section *Linearis Compact* and *Linearis Super60*
NEW

Linearis Compact in ABS

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),
class K 3, seeping water opening prepared,
installation supports and mesh fabric

0.5 l/sec flow rate
0.6 l/sec with 10 mm threshold

Length	Art. #
300 mm	48 970S
450 mm	48 971S
550 mm	48 972S
650 mm	48 973S
750 mm	48 974S
850 mm	48 975S
950 mm	48 976S
1050 mm	48 977S
1150 mm	48 978S


Linearis Super60 in ABS
with tileable access cover

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

1.1 l/sec flow rate
1.2 l/sec with 10 mm threshold

750 mm	48 908
850 mm	48 909
950 mm	48 910
1150 mm	48 912

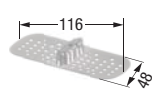
Linearis in ABS
with tileable access cover

- ☐ **cover and rim in stainless steel AISI 304**,
class K 3, with seeping water opening,
installation supports and mesh fabric

Length	Art. #
750 mm	46 908
850 mm	46 909
950 mm	46 910
1150 mm	46 912

* Approval pending on the basis of test certificate no. 210006415 MPA Erwitte.


Multistop

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

Hair filter

made of polymer
Art. # **48 800**

Fire-Kit Fire protection insert*

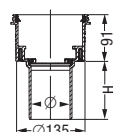
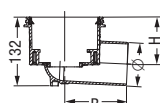
Only for *Ecoguss* / *Practicus* drains
with vertical outlet and odour trap

- Ø 58/78/83 Art. # **48 099**
- Ø 50/75 Art. # **48 099**
- Ø 110 Art. # **48 100**


Quick-Fit the passage seal

for core drillings for drain bodies
with vertical outlet

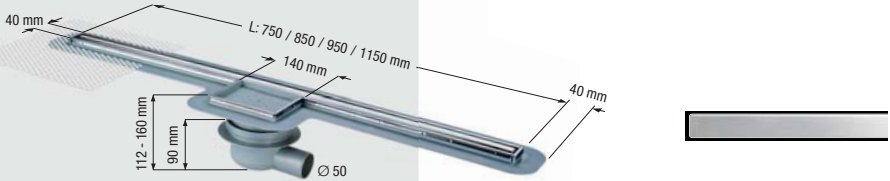
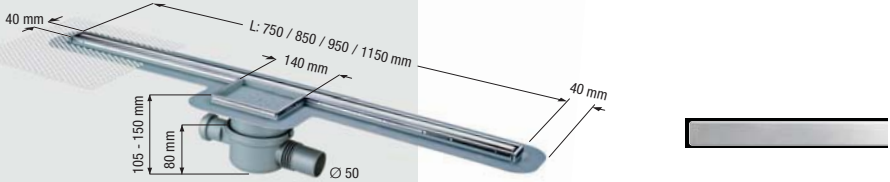
without fire protection Art. # **48 991**
***with fire protection** Art. # **48 990**
(only in combination with *Fire-Kit* protection insert)

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.

Ecoguss with removable odour trap

Lateral outlet			Vertical outlet		
Ø	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

Practicus in PP with removable odour trap

Lateral outlet			Vertical outlet		
Ø	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

Linearis			Products
Illustration and dimensioned drawing	Article description	Channel length	Article #
 <p>Installation supports and mesh fabric included</p>	Shower channel <i>Linearis</i> in ABS with tileable access cover With bathroom drain body <i>Classic</i> in ABS, Ø 50, lateral outlet <input type="checkbox"/> cover and rim in stainless steel AISI 304, class K 3, with seeping water opening	750 mm 850 mm 950 mm 1150 mm	40 150.83 40 150.84 40 150.85 40 150.87
	0.4 l/sec flow rate with 10 mm threshold		
 <p>Installation supports and mesh fabric included</p>	Shower channel <i>Linearis</i> in ABS with tileable access cover With bathroom drain body "<i>The Superflat</i>" in PP, sound-absorbing, Ø 50, flexible lateral outlet, 1 inlet Ø 40 <input type="checkbox"/> cover and rim in stainless steel AISI 304, class K 3, with seeping water opening	750 mm 850 mm 950 mm 1150 mm	42 701.83 42 701.84 42 701.85 42 701.87
	0.4 l/sec flow rate with 10 mm threshold		

Installation example *Linearis*



- ① Stainless steel channel
- ② Access cover

The *Linearis* shower channel features a narrow, elegant stainless steel channel ① which can be discreetly integrated into the bathroom design. With a flow capacity of 24 liters per minute the *Linearis* shower channel is ideal for mounting against the wall at the back of the shower. For cleaning and maintenance purposes the stainless steel channel and tileable access opening ② can be removed allowing full access to the odor trap and drain body.

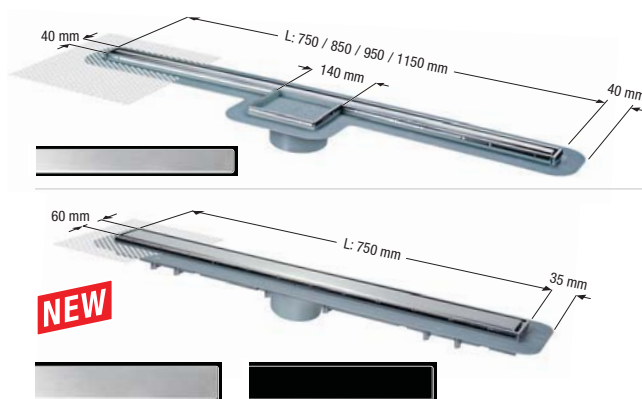
Professional advantages

- **Flow rate 0.4 l/sec**
- **Extremely narrow and elegant channel**
- **Easy cleaning**
Access cover for easy cleaning and maintenance
- **Particularly suitable** for installation on the wall side
- **Channel length:** 750 mm, 850 mm, 950 mm, 1150 mm
- **Flexible modular system** with a large number of components.



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Shower channel upper section *Linearis* and *Linearis Compact*



Linearis in ABS
with tileable access cover

- cover and rim in stainless steel AISI 304, class K 3, with seeping water opening, installation supports and mesh fabric

0.4 l/sec flow rate
with 10 mm threshold

Length	Art. #
750 mm	27 808
850 mm	27 809
950 mm	27 810
1150 mm	27 812

Linearis Compact in ABS

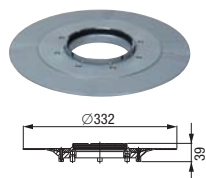
With removable odour trap (must be removed from all drain bodies during installation), sealing water height 50 mm

- 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

0.6 l/sec flow rate
with 10 mm threshold

750 mm	47 808S
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Accessories



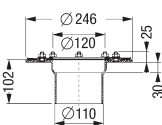
Glue flange

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



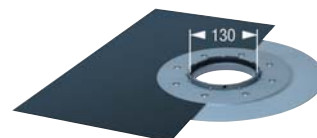
Extension section

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

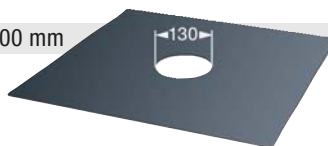


With glue flange and waterproof membrane

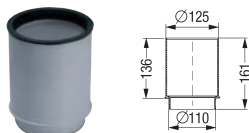
pre-mounted in PVC
1200 x 1200 mm Art. # 43 401.91
1800 x 2000 mm Art. # 43 401.93

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



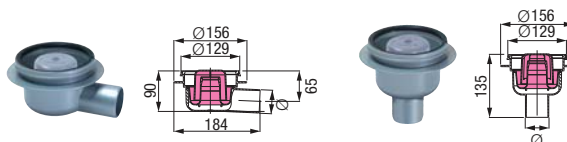
Transition section

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

Drain bodies

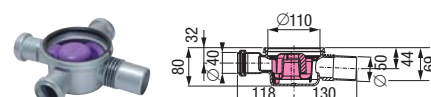
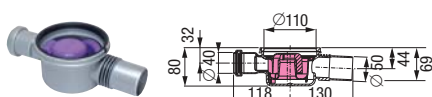
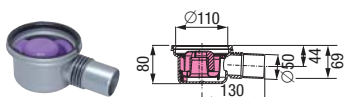
*) according to EN 1253 - 20 mm threshold

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



Bathroom drain Classic in ABS

with removable odour trap			without removable odour trap		
Ø	Lateral outlet	Vertical outlet	Ø	Lateral outlet	Vertical outlet
50	Art. # 40 150	Art. # 40 250	50	Art. # 40 151	Art. # 40 251
75	Art. # 40 170	Art. # 40 270	75	Art. # 40 171	Art. # 40 271



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

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



Wall drains

Wall drains *Scada*

Page **194 – 198**

New trends for sophisticated
bathroom drainage systems

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.



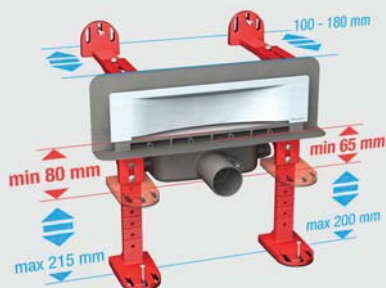
INSTALLATION board and wedge



- 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

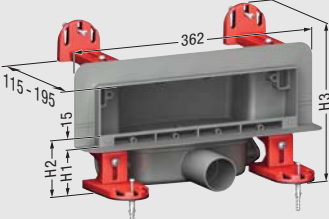




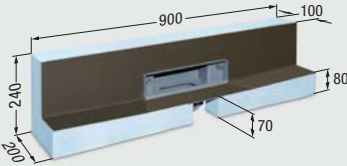
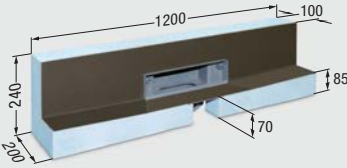
Measurements carried out by the Fraunhofer Institute in Stuttgart:

wall drain **Scada**

- ≥ 17 dB(A) according to DIN 4109
- ≥ 14 dB(A) according to VDI 4100 SST III

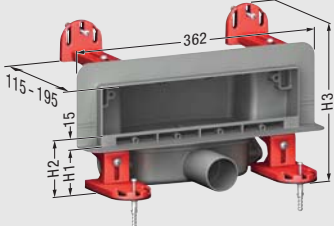







Scada

Matrix order system / Products

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

Scada with LED lights

Matrix order system / Products

Drain body	Covers			
<p>Wall drain <i>Scada</i> 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><i>Scada</i>, 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><i>Scada</i>, stainless steel cover AISI 304</p>  <p>Width x height 312 x 74 mm For floor tiles up to 10 mm</p>	<p><i>Scada</i>, 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><i>Scada</i>, 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 <i>Scada</i> 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 <i>Scada</i> 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 <i>Scada</i> 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. # 48011

Scada cover

stainless steel cover AISI 304, 312 x 74 mm, for floor tiles up to 10 mm

Art. # 48012

Scada, Wave cover

stainless steel cover AISI 304, 312 x 74 mm, for floor tiles up to 10 mm

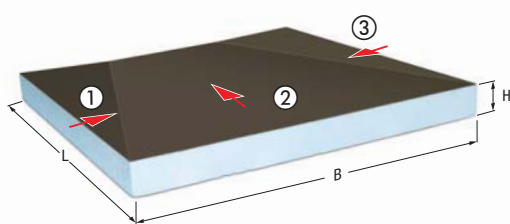
Art. # 48013

Scada cover

stainless steel cover AISI 304, 296 x 67 mm, for floor tiles up to 17 mm

Art. # 48014

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. # 48051

□ 1200 x 1200 x 85 mm (L x B x H)

Slope: ① 3,7 % ② 1,1 % ③ 3,7 %

Art. # 48052

Drywall mount for drain body

with adhesive

□ Height 300 mm

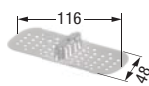
□ Width 623 mm

Art. # 48063

Sealing set

comprising adhesive and sealing tapes

Art. # 48062

**Multistop**

odour, foam, rodent and insect stop

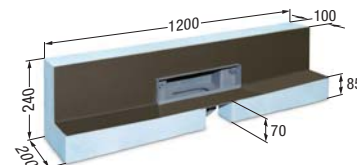
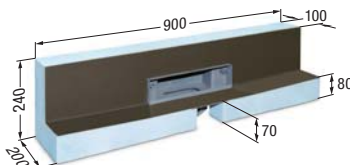
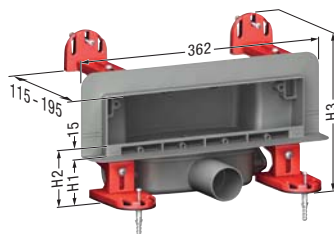
Art. # 48400

Hair filter

made of polymer

Art. # 48800

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. # 48000

with LED lights Art. # 48003

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. # 48001

with LED lights Art. # 48004

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. # 48002

with LED lights Art. # 48005

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

Page **200 – 208**

with or without backwater flap
or pump

Volatile liquid traps (heating oil stops)

Page **205**

must be used wherever volatile
liquids can escape unexpectedly.

The basement drain that pumps against backwater



Pumpfix S 28 451

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

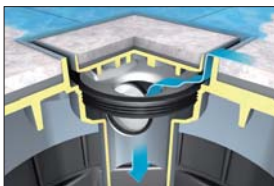
INSTALLATION Pumpfix S
IDEAL FOR NEW BUILDINGS

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.



TECHNOLOGY

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



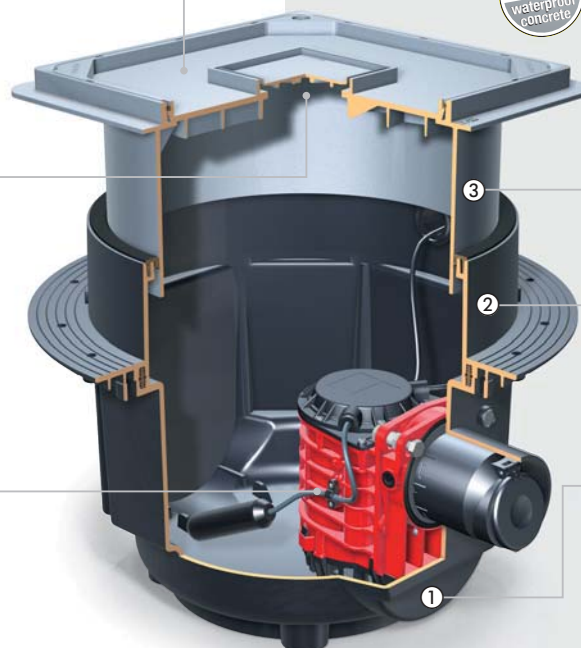
FLEXIBLE INSTALLATION

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



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.



FLEXIBLE INSTALLATION

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

STRAIGHTFORWARD MAINTENANCE

Maintenance and cleaning without tools.



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.



Secure drains thanks to integrated twin flap backwater valves.

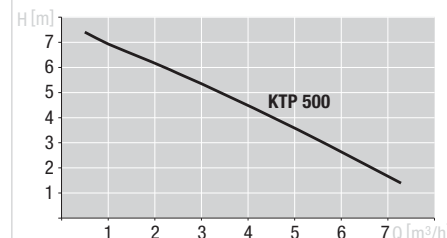
"The Universal" model is a versatile basement drain with variable connection options thanks to three inlets. The compact design of the **Drehfix** basement drain makes it popular for renovating older buildings. It fits into the recesses of old cast drains thanks to its small design height.

Basement drains with / without twin flap backwater valve

Pumpfix S

Products

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 <i>Pumpfix S</i> 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. 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>28451</p>



H [m] = Backwater height

"The Universal"

Products

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 "<i>The Universal</i>" 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 2 Ø 110</p> <p>1 Ø 110 2 Ø 110</p>	<p>27611 29111</p> <p>27621 29121</p>

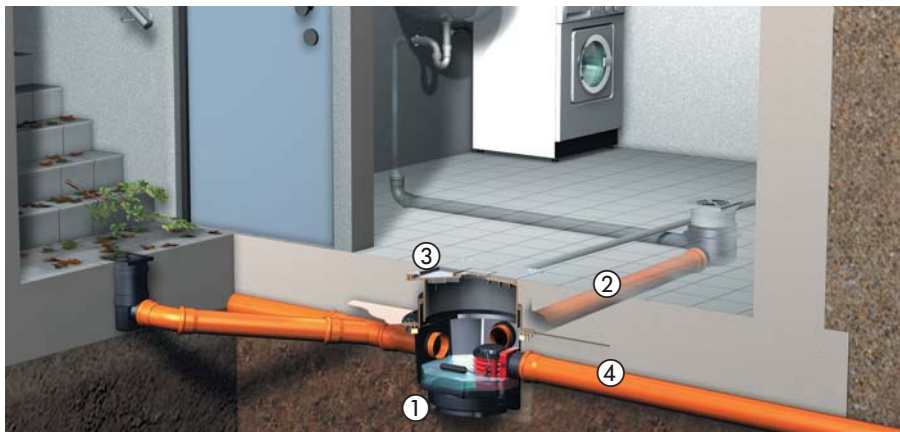
Drehfix

Products

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 <i>Drehfix</i> in ABS</p> <p>1 With twin flap backwater valve</p> <p>2 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>1 Ø 110 2 Ø 110</p>	<p>27301 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 Ø 50 mm inlets and one Ø 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 Ø 50 and 1 x Ø 75) are attached as standard.

Professional advantages

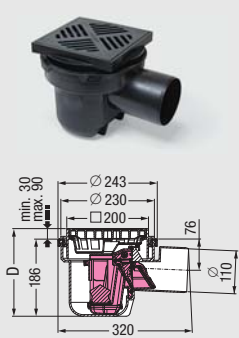
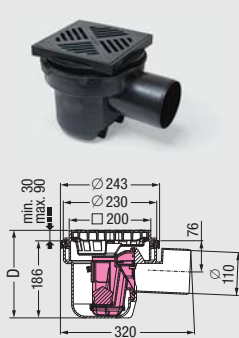
- **With twin flap backwater valve and odour trap**
- **Hand-lockable emergency closure**
(Visual control without removing the cover).
- **Stepless installation** with extension section Art. # 38 670.
- **Tool-free maintenance.**
Fast and simple cleaning with one-hand quick-release fastener.
- **Height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

Basement drains

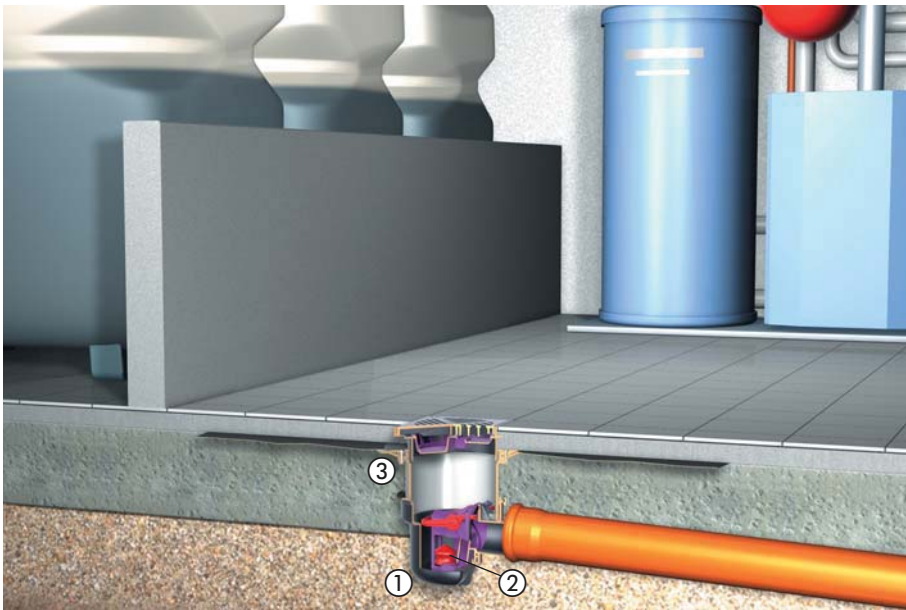
Products

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> <p><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	36 501
 <p>1.8 l/sec flow rate Installation area 220 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 Lateral outlet 2.5°</p> <p><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	45 110.40
 <p>1.8 l/sec flow rate Installation area 180 x 180 mm</p>	<p>Vertical outlet</p> <p><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	45 210.40
			
 <p>1.8 l/sec flow rate Installation area 220 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 Lateral outlet 2.5°</p> <p><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	34 101
 <p>1.8 l/sec flow rate Installation area 180 x 180 mm</p>	<p>Vertical outlet</p> <p><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	34 102

Volatile liquid traps
 with / without twin flap backwater valve

Volatile liquid traps			Products
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>□ 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>□ 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.




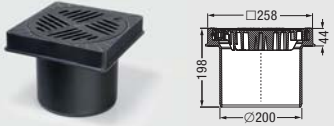
Professional advantages


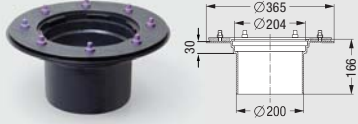

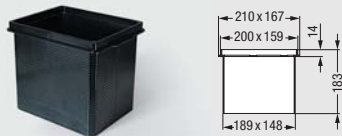
- **Easy installation** with adjustable upper section (vertically and laterally adjustable)
- Sealing gasket between extension section and flange - Article # 27 298 (prevents floor moisture damage)
- **Waterproofing seal** - Article # 48 968
- **Cast iron cover** handles higher loads up to 12.5 tons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

Pumpfix S / "The Universal" / Drehfix / Basement drains

Accessories



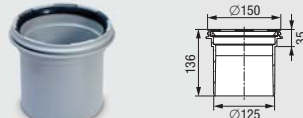









Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
For models made on or after Jan 2011    	Cover plate, surface water tight with drain Ø 75, class A 15, includes Multistop 1 recessed for on-site tiling, grey, for tile thicknesses of 18 mm 2 with integrated grating,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

Pumpfix S / "The Universal" / Drehfix / Basement drains			Accessories
Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
	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 !	-	83 070
	Pipe sealing gasket for article numbers: 28 451	Ø 50 Ø 75 Ø 110	850 114 850 116 850 117
	Hole saw Ø 50, 75, 110 (Saw blade holder Ø = 145 mm) Hole saw Ø 50, 75, 110, 125 and 160 (Saw blade holder Ø = 190 mm)	-	50 101 50 100
	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	Ø 75/110	27 602
	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	-	48 968
	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	-	67 985

"The Universal" / Drehfix / Basement drains			Accessories
Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
	Mesh fabric for article numbers: 27 298	-	046-056
	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	-	48 958
	Elastomer waterproof membrane in NBR for article numbers: 48 958	-	48 982
	Extension section H = 175 mm, with lip seal for article numbers: 27 611, 27 621, 29 111, 29 121, 51 101, 52 101	-	48 988
	Extension section H = 183 mm for article numbers: 27 301, 33 101	-	38 670

"The Universal" / Drehfix / Basement drains

Accessories

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
	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
	Glue 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

Floor drains *Ferrofix* System 125 Page **212 – 218**

Clean out System 100 Page **214**

Floor drains *Ferrofix* System 200 Page **220 – 225**

Channel drains *Ferrofix* Page **226 – 227**

Slotted channels *Ferrofix* Page **228**



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

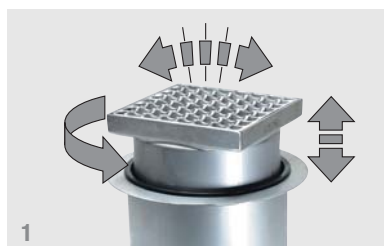
Easy installation thanks to variable upper sections which can be turned, tilted and height-adjusted (Fig. 1).

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.

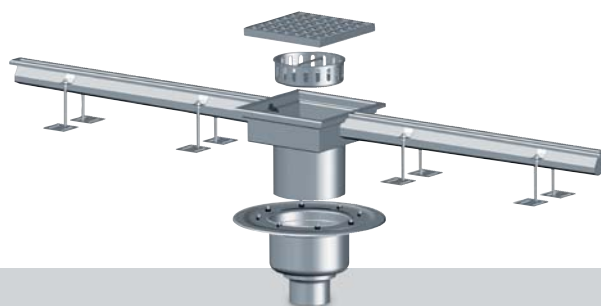




System 125

Channel drains

Express variant **available ex stock**



System 125 or System 200

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

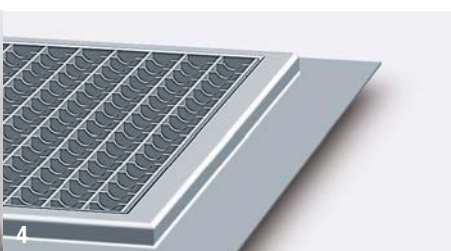
With adjustable feet for height levelling.

ACCESSORIES

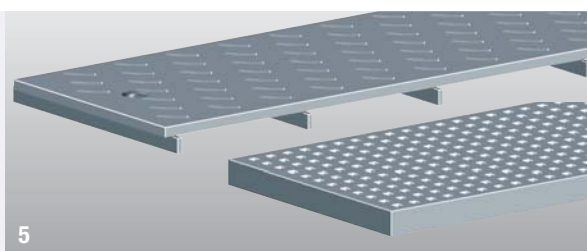
Practical accessories with approval Z-19.17-1719: fire and flue gas insert *Fire-Kit* System 125 or 200 and *Quick-Fit* passage seal with or without fire protection (Fig. 2). Only for System 125 drain body with vertical outlet.



3



4



5

Floor drains *Ferrofix* with pressure sealing flange

Matrix order system / Products

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 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. # 54 200	54 200.52	54 200.21	54 200.61	54 200.20
Vertical outlet Art. # 54 210	54 210.52	54 210.21	54 210.61	54 210.20
Ø 110	Complete drain comprising a combination of the drain body and upper section			
Lateral outlet Art. # 54 220	54 220.52	54 220.21	54 220.61	54 220.20
Vertical outlet Art. # 54 230	54 230.52	54 230.21	54 230.61	54 230.20

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


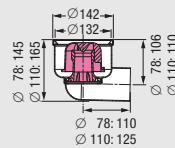

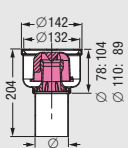

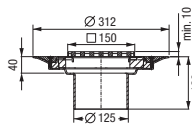
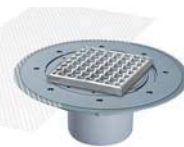
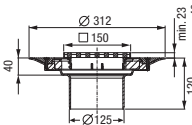

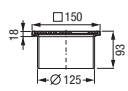

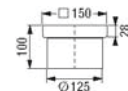
Accessories see page 218



EN 1253

Floor drains *Ferrofix* with connection flange

Matrix order system / Products

Drain body	Upper sections			
Floor drain <i>Ferrofix</i> in stainless steel AISI 304 with connection flange with odour trap, connection to SML-pipe	Shallow bed upper section in ABS, with mesh fabric	Shallow bed upper section in ABS, with mesh fabric	Upper section in ABS	Upper section in stainless steel AISI 304
   	 	 	 	 
	with slotted cover 138 x 138 mm and rim in stainless steel AISI 304, non-slip, class L 15, screwed	with anti-slip drain cover 138 x 138 mm and rim in stainless steel AISI 304, non-slip, class L 15	with slotted cover 138 x 138 mm and rim in stainless steel AISI 304, non-slip, class L 15, screwed	with anti-slip drain cover 138 x 138 mm in stainless steel AISI 304, class L 15 / M 125*
	Art. # 48 907	Art. # 48 965	Art. # 48 176	Art. # 54 914
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.



EN 1253






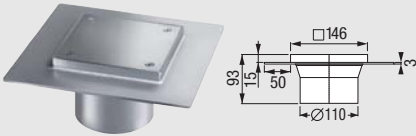
Accessories see page 218

Drains / channels
in stainless steel

Drains

4

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

Upper sections in ABS 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 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, 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 *



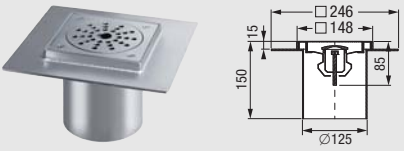

Shallow bed upper sections in ABS

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	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	146 x 146	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

	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

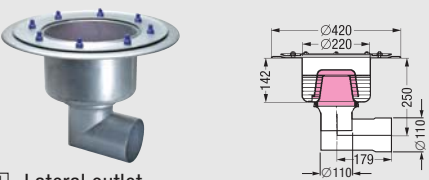
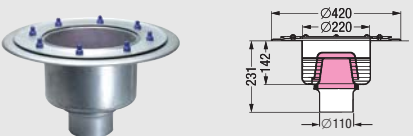
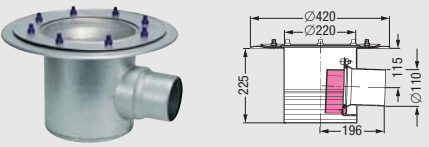

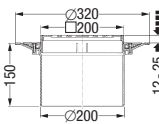

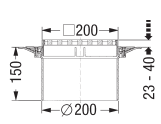

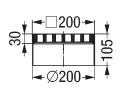

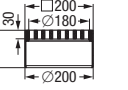
Upper sections in stainless steel AISI 304 with glue flange

Illustration	Article description	Cover mm incl. rim	Connection Ø	Article #
	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	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 Ferrofix			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
 <p>Certification no. Z-19.17-1719</p>	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
 <p>1 Certification no. Z-19.17-1719</p>	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

Floor drains **Ferfix** with pressure sealing flange





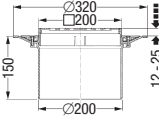

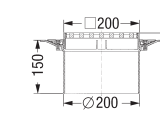

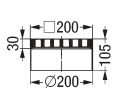

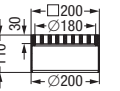
Matrix order system / Products

Drain body	Upper sections			
<p>Floor drain <i>Ferfix</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: Floor drain <i>Ferfix</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 224



Floor drains *Ferrofix* with glue flange

Matrix order system / Products

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			
1 Lateral outlet Art. # 55 350	55 350.52	55 350.21	55 350.20	55 350.30
2 Vertical outlet Art. # 55 400	55 400.52	55 400.21	55 400.20	55 400.30
3 Lateral outlet Art. # 142 026	142 026.52	142 026.21	142 026.20	142 026.30

Accessories see page 224

Shallow bed upper sections in ABS


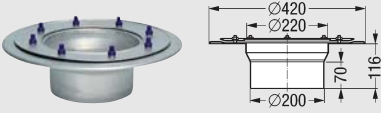
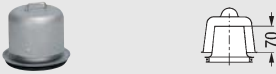
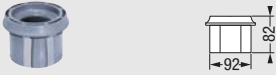

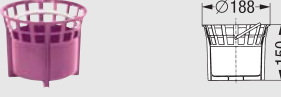

Illustration	Article description	Cover mm incl. rim	Connection Ø	Article #
	Upper section in ABS incl. mesh fabric with slotted cover and rim made of stainless steel AISI 304, non-slip, screwed, class L 15	200 x 200	200	48 978
	Upper section in ABS incl. mesh fabric with anti-slip drain cover and rim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

Floor drains Ferrofix			Accessories
Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
	Extension section in PP, with lip seal on request also in AISI 304 / AISI 316L	-	48 988
	Extension section in stainless steel AISI 304	-	27 185
	<input type="checkbox"/> with pressure sealing flange <input type="checkbox"/> with connection flange	-	27 186
	Odour trap in stainless steel AISI 304, removable, sealing water height 70 mm	-	27 182
 Certification no. Z-19.17-1719	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	-	67 302
	<input type="checkbox"/> Height 60 mm (H) <input type="checkbox"/> Height 150 mm (H)	-	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.

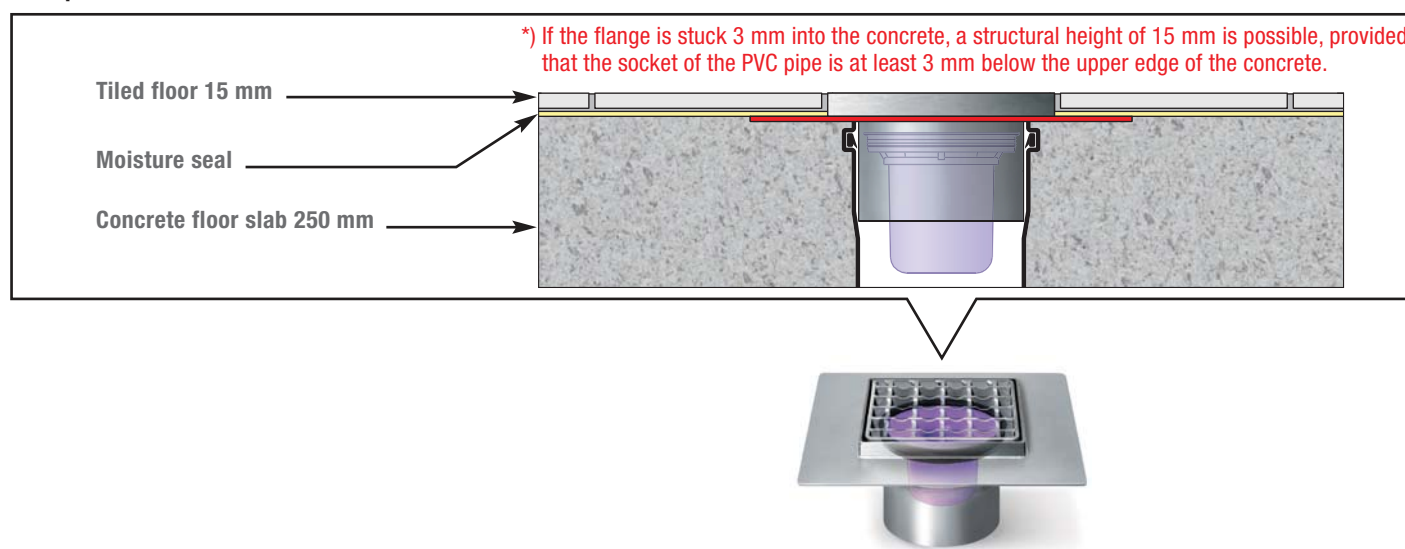
As a customer, describe your installation situation and we will make a *Ferrofix* - that is precisely tailored to your requirements. Just ask us!

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*

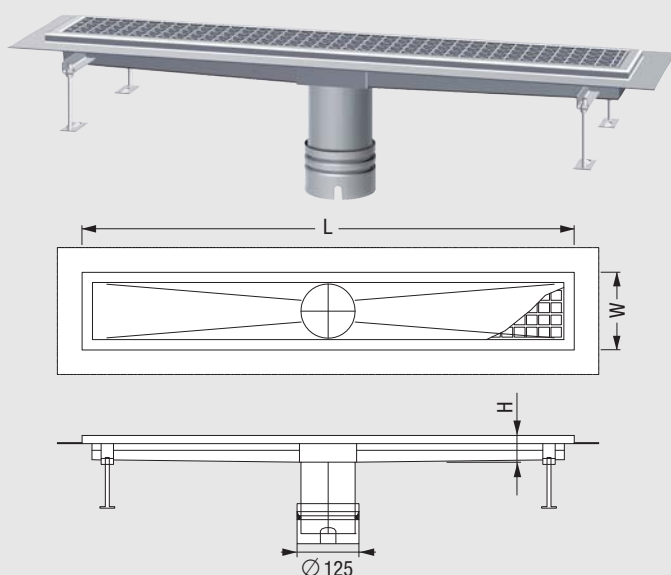
Products

Illustration

Article description

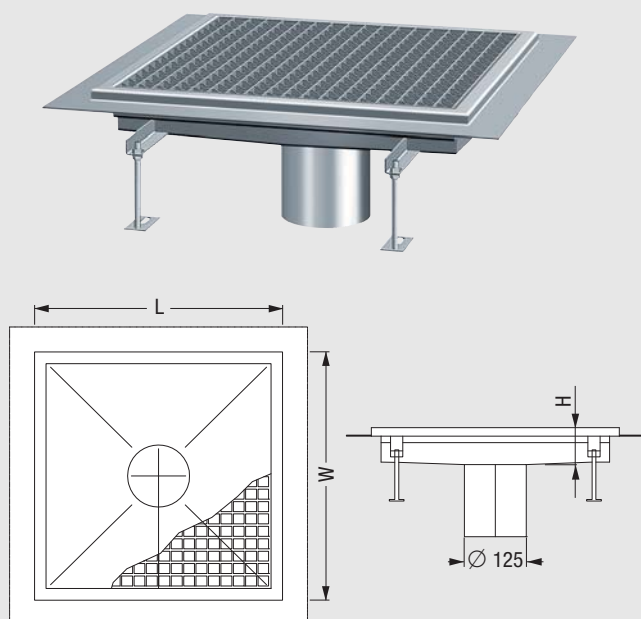
Linear stainless steel channel drains

System 125



Square/rectangular stainless steel channel drains

System 125



Drainage channels *Ferrofix Express* 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.

Linear drainage channels:

Channel lengths (mm) 1042, 1550, 2058 | 1047, 1555, 2063 | 542, 547
Channel widths (mm) 158 | 300 | 158,300

Square drainage channels:

Channel lengths (mm) 500 | 953 | 350, 800, 1000
Channel widths (mm) 500 | 500 | 350, 800, 1000

Material 1.4301 (AISI 304)

Channel profile Adhesive edge for shallow bed seals

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.)

Sludge trap in stainless steel optional:

- **System 125** Art. # **6125 SKH** Construction height 90 mm
Art. # **6125 SKN** Construction height 30 mm

On stock :

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

Matching drain body System 125 optionally as an accessory

Drainage channels *Ferrofix Express*

Accessories



Drain bodies

with removable odour trap

Ecoguss see page 160

Practicus see page 161

Ferrofix see page 212/213

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**

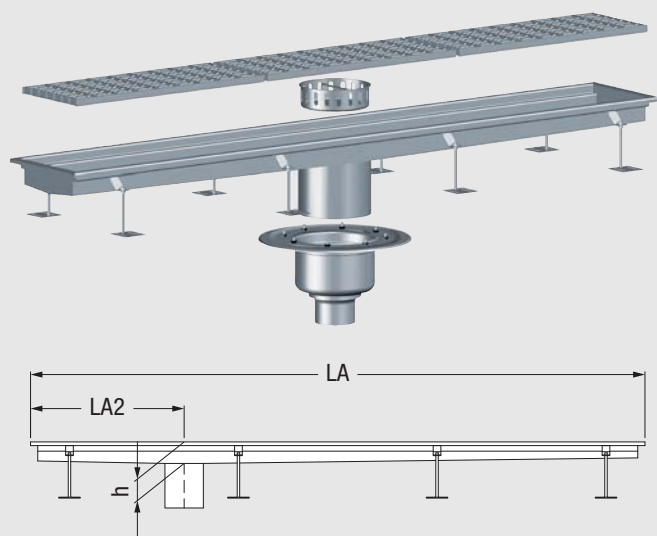
(only use in combination with *Fire-Kit* fire protection insert)

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

Box channel *Ferrofix*

Products

Illustration



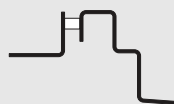
U-profile



Profile adhesive edge



Profile tile connector



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 212
- **System 200** see from page 220

Sludge trap in stainless steel optional:

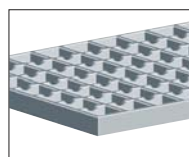
- **System 100** Art. # **6100 SKH** construction height 90 mm
- **System 125** Art. # **6125 SKH** construction height 90 mm
- **System 200** Art. # **6200 SKN** construction height 55 mm

All sludge traps also available in special sizes

Covers

Products

Cover in stainless steel



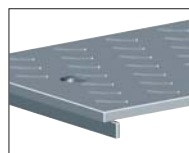
Non-slip R 11, acid-treated in pickling bath
Mesh width 23 x 23 mm or 30 x 30 mm,
class L 15 or M 125

Slab cover in stainless steel



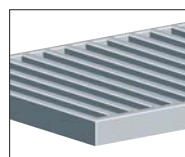
Not anti-slip, glass bead-blasted
All-round 8 mm inlet
Material thickness 10 mm, class M 125

Ribbed plate cover in stainless steel



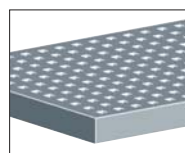
Non-slip R 11, acid-treated in pickling bath
All-round 8 mm inlet
Material thickness 10 mm, class M 125

Rod cover in stainless steel



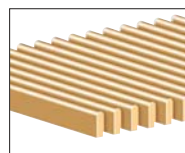
Not anti-slip, acid-treated in pickling bath
Rod clearance 18 mm, supporting member
25 x 8 mm, class M 125

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

Bathroom cover made of polymer



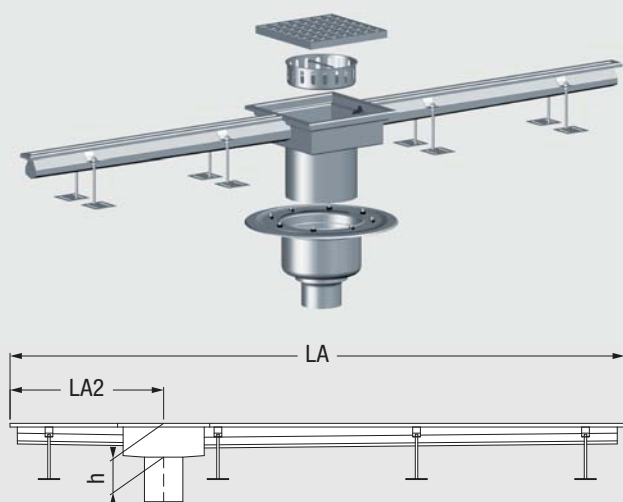
Suitable for barefoot area,
With rounded or flat upper profile
Colours white, grey, beige or yellow
(other RAL colours on request)
Insertion depth 25 mm, class K 3

Slotted channel *Ferroxif*

Products

Illustration

Article description



Slotted channel *Ferroxif* 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.

Channel widths 60 mm, 48 mm

Slot widths 20 mm (standard width), 8 mm (barefoot area)

Channel lengths from 600 mm

Channel shapes and gully

- 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

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)

Gully with drain pipes in stainless steel

- **System 100** (Ø 110 mm)
- **System 125** (Ø 125 mm)
- **System 200** (Ø 200 mm) (depends on the gully 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 page 212, 213, 218
- **System 200** see page 220, 221, 224

Sludge trap in stainless steel optional:

- **System 100** Art. # 6100 SKH construction height 90 mm
- **System 125** Art. # 6125 SKH construction height 90 mm
- **System 200** Art. # 6200 SKN construction height 55 mm

All sludge traps also available in special sizes

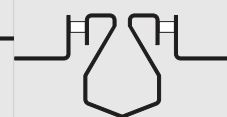
U-profile



Profile adhesive edge



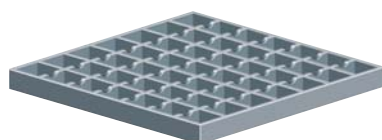
Tile connector profile



Covers

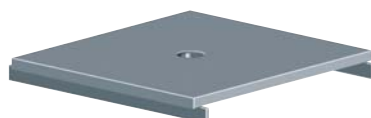
Products

Cover
in stainless steel



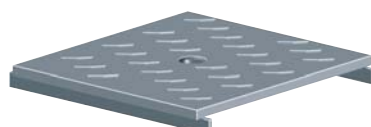
Non-slip R 11, acid-treated in pickling bath
Mesh width 23 x 23 mm or 30 x 30 mm
class L 15 or M 125

Slab cover
in stainless steel



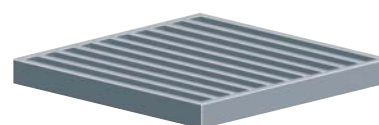
Not anti-slip, glass bead-blasted
All-round 8 mm inlet
Material thickness 10 mm, class M 125

Ribbed plate cover
in stainless steel



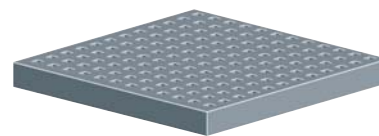
Non-slip R 11, acid-treated in pickling bath
All-round 8 mm inlet
Material thickness 10 mm, class M 125

Rod cover
in stainless steel



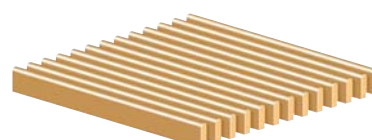
Not anti-slip, acid-treated in pickling bath
Rod clearance 18 mm, supporting member
25 x 8 mm, class M 125

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

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



Drains for exterior installation

**Parking deck drains
System 100/125** Page **232 – 234**

Balcony drains Page **235**

**Yard and gutter drains
System 200/100** Page **236 – 241**

**Yard drains System 400
and street gullies** Page **242 – 245**

Roof drains Page **246 – 248**

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



Single piece *Ecoguss*
pipe connection drain



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

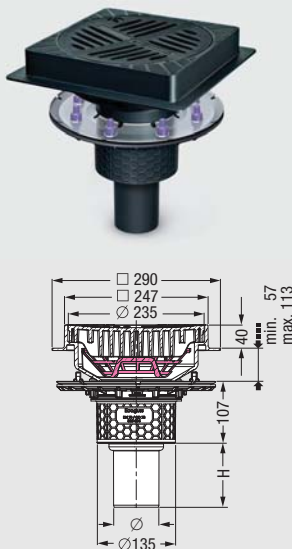


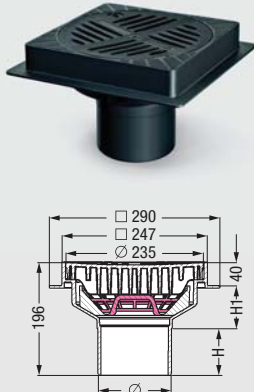
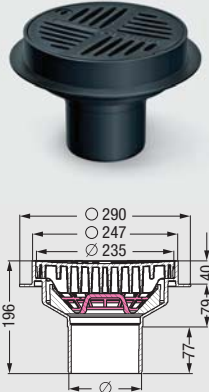
COMPACT

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



Parking deck drains *Ecoguss*

Products

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, with <i>Lock & Lift</i> System</p> <p>Core drilling only Ø 160 mm with <i>Quick-Fit</i></p> <table><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 234</p>	Ø	78	110	H	110	110	Ø 78 Ø 110	48 878.01 48 811.01			
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>1 System 100: SML-pipe 2 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, with <i>Lock & Lift</i> System</p> <table><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 234</p>	Ø	110	125	H	77	83	H1	79	73	1 Ø 110 2 Ø 125	48 501 48 502
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>1 System 100: SML-pipe 2 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, with <i>Lock & Lift</i> System</p> <table><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 234</p>	Ø	110	125	H	77	83	H1	79	73	1 Ø 110 2 Ø 125	48 503 48 504
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

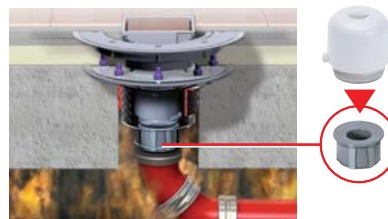
The KESSEL *Ecoguss* drains are especially suitable for installation in garages and car parks. The high strength low weight body and upper section handles traffic loads up to 12.5 metric tons and a stainless steel waterproof sealing flange is available if required. The compact drain bodies are available 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.

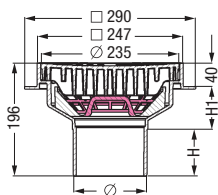
Additional security for fire protection is offered by the KESSEL **Quick-Fit passage seal** including fire protection ring. If floor drains are not poured into the concrete floor but inserted later into cored holes in the concrete slab, the space between the cored hole and the exterior of the drain body 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.



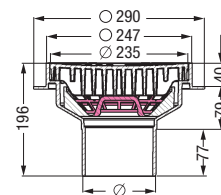
Professional advantages

- **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**

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

System 100: SML-pipe
System 125: plastic pipe

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

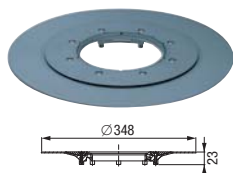
Can be used as single piece pipe connection drain

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

System 100: SML-pipe
System 125: plastic pipe

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



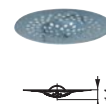
Extension section

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)

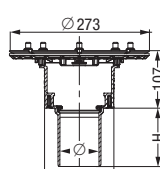
Insulating body

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

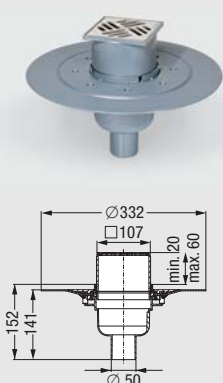
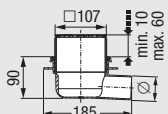
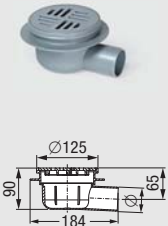
Ø	58	78	83	110
H	100	110	110	110

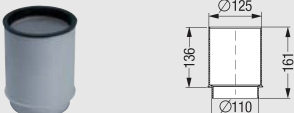



Ecoguss without odour trap

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			Products
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>	Balcony drain in ABS Frost-proof outlet. With fixed lip seal. With glue flange and counter flange.		
	1 Lateral outlet 2 Vertical outlet 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).	1 Ø 50 2 Ø 50	40 151.90 40 251.90
 <p>0.9 l/sec flow rate Installation area 220 x 180 mm</p>	Balcony drain in ABS Frost-proof outlet. With fixed lip seal. With connection flange. <input type="checkbox"/> Lateral outlet 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).	Ø 50 Ø 75	40 151.20 40 171.20
 <p>0.9 l/sec flow rate Installation area 220 x 180 mm</p>	Balcony drain in ABS Frost-proof outlet. With connection flange. <input type="checkbox"/> Lateral outlet with inserted cover Ø 125 in synthetic material, class K3 (able to withstand loads up to max. 300 kg)	Ø 50 Ø 75	40 152.71 40 172.71

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

Yard drains in *Ecoguss* / polymer

System 200 / 100

Yard drains System 200			Products
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> <p><input type="checkbox"/> Lateral outlet 2.5°</p> <p><input type="checkbox"/> Vertical outlet</p> <p>with drain body made of polymer and upper section made of <i>Ecoguss</i>, upper section with square support rim, class B 125, 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> <p><input type="checkbox"/> Lateral outlet 2.5°</p> <p><input type="checkbox"/> Vertical outlet</p> <p>with drain body made of polymer, upper section with support rim, lotted 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 240/241</p>	<p>Ø 110</p> <p>Ø 110</p>	<p>67 020.30</p> <p>67 060.30</p>
Yard drains System 100			Products
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> <p><input type="checkbox"/> upper section with square support rim in <i>Ecoguss</i> and round slotted cover Ø 235 mm, class B 125, with <i>Lock & Lift</i> System, with sludge trap</p> <p>Accessories: <i>Multistop</i> Art. # 43 500 see page 208</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> <p><input type="checkbox"/> upper section with round support rim in <i>Ecoguss</i> and round slotted cover Ø 235 mm, class B 125, with <i>Lock & Lift</i> System, with sludge trap</p> <p>Accessories: <i>Multistop</i> Art. # 43 500 see page 208</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> <p><input type="checkbox"/> cover plate 200 x 200 mm with round slotted cover Ø 140 mm made of polymer, screwed</p> <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.

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.

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

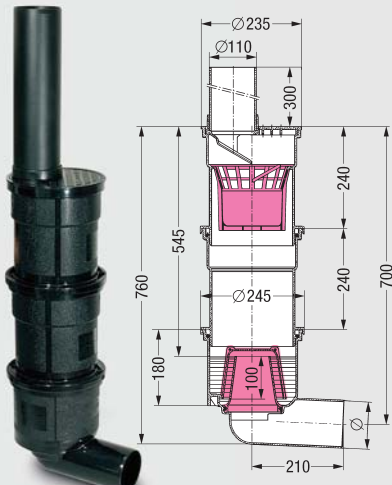
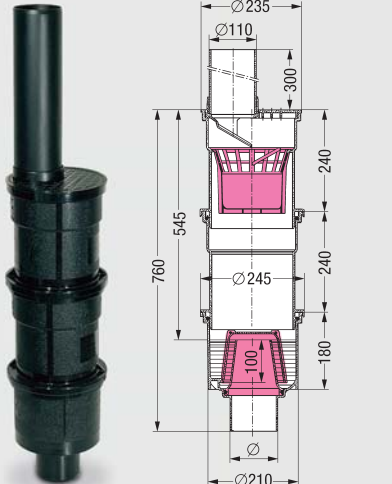
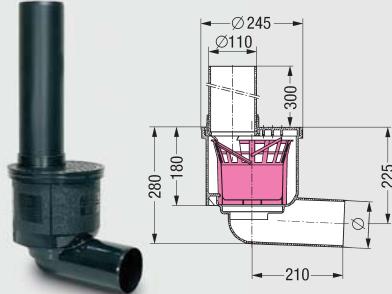
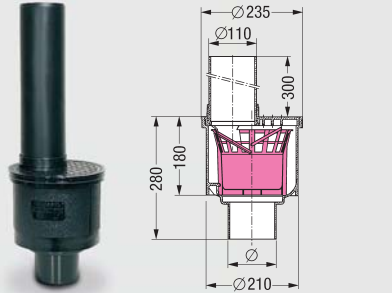
- **Multistop** as an odour, foam, rodent and insect protection (Art. # 48 500) available as accessory.
- **Locking and removal key**
for *Ecoguss* drain covers with *Lock & Lift* System Art. # 67 007.
- **Compact and low weight** alternative to cast iron drains
- **Single piece pipe connection drain**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

Gutter drains made of polymer

System 200

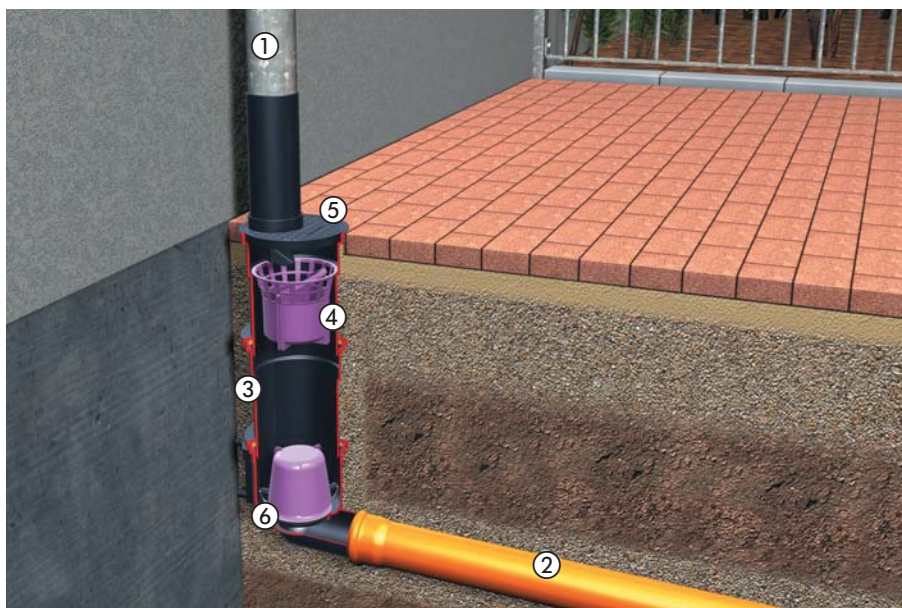
Gutter drains System 200

Products

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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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



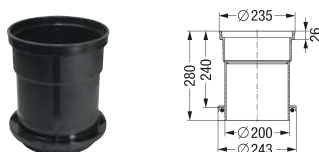
in *Ecoguss*

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

in polymer, consists of...

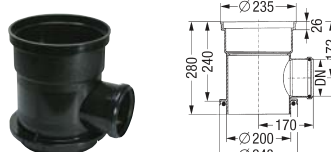
- 1 Upper section height adjustable from 40 - 150 mm
Art. # 67 400
- 2 Support rim □ 300 mm, class A 15 / L 15
Art. # 27 180
- 3 Slotted cover Ø 218 mm, class A 15 / L 15
Art. # 27 173

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, 67 923 B, 67 922 B
Art. # 48 520



Lip seal

Art. # 27 140

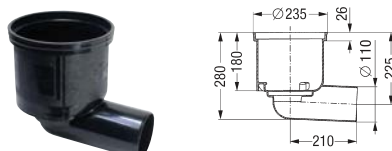


Lip seal

Non-slip mounting
Art. # 27 141

Drain body for yard drains and gutter drains

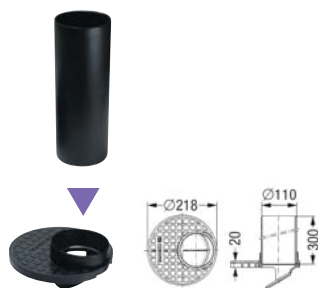
4.5 l/sec flow rate



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,
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

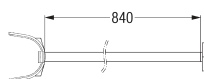
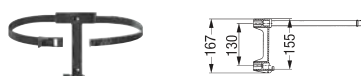
in PP
Art. # 48 300

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

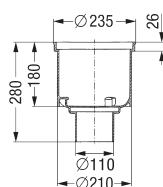
Lifting mechanism

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



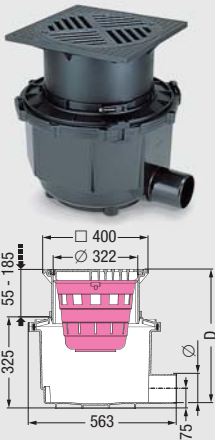

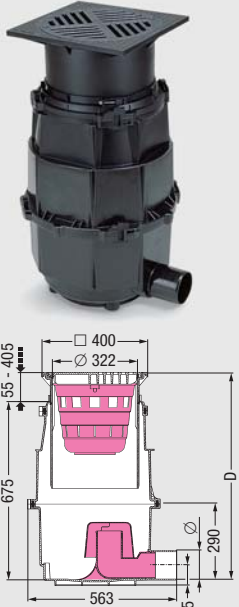

Drain body made of polymer

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

Yard drains in polyethylene System 400

Yard drains System 400 For higher load classes

Products

Illustration and dimensioned drawing	Article description	Outer diameter Ø (mm)	Article #
 <p>4.5 l/sec flow rate Installation area 585 x 535 mm</p>	<p>Yard drain System 400 in polyethylene, lateral outlet 2.5°, with sludge trap</p> <p>For installation depth (D) from 380 to 510 mm, water-tight, resistant to aggressive wastewater. With fuel-resistant gaskets.</p> <p><input type="checkbox"/> Upper section with slotted cover, class A made of polymer class B / D in cast iron according to EN 124 for continuous height and level adjustment.</p> <p>Weight: Class A approx. 10 kg Class B approx. 12.5 kg Class D approx. 20 kg</p> 	<p>Ø 110 Ø 110 Ø 110</p> <p>Ø 160 Ø 160 Ø 160</p>	<p>851 100 A 851 100 B 851 100 D</p> <p>851 150 A 851 150 B 851 150 D</p>
 <p>4.5 l/sec flow rate Installation area 585 x 535 mm</p>	<p>Yard drain System 400 in polyethylene, lateral outlet 2.5°, with odour trap and sludge trap</p> <p>For installation depth (D) from 730 to 1080 mm, water-tight, resistant to aggressive wastewater. With fuel-resistant gaskets.</p> <p><input type="checkbox"/> Upper section with slotted cover, class A made of polymer class B / D in cast iron according to EN 124 for continuous height and level adjustment.</p> <p>Weight: Class A approx. 45 kg Class B approx. 47.5 kg Class D approx. 55 kg</p> 	<p>Ø 110 Ø 110 Ø 110</p> <p>Ø 160 Ø 160 Ø 160</p>	<p>851 102 A 851 102 B 851 102 D</p> <p>851 152 A 851 152 B 851 152 D</p>

Installation example yard drains System 400



- ① System 400 drain
- ② Sludge basket

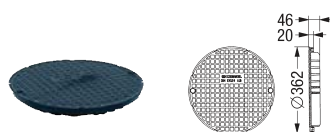
System 400 drains assure an efficient surface water drainage of outdoor areas and with their low weight, corrosion free material and solid construction they represent a clear alternative to standard concrete drains. System 400 drains are available with load class B or D covers meaning they can be used 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

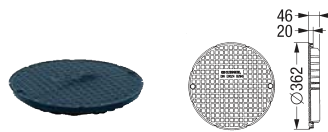
Covers



Cover plate in polymer

Class A

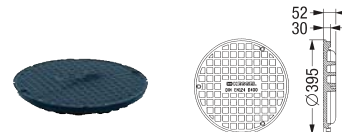
Art. # 850 132



Cover plate in cast iron

Class B

Art. # 850 131

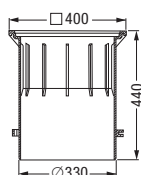


Cover plate in cast iron

Class D, for article # 850 121

Art. # 850 136

Upper sections

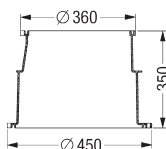


Class A, B

continuously height adjustable,
with clamping ring

Art. # 850 120

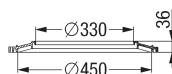
Accessories



Extension section in polyethylene

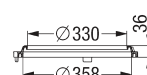
Art. # 850 101

Connecting wedges, 4 pieces
Art. # 850 111



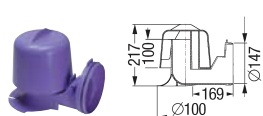
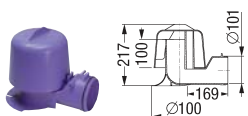
Transition sections 450

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

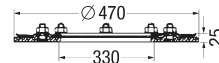
Ø 50 Art. # 850 114

Ø 75 Art. # 850 116

Ø 110 Art. # 850 117

Ø 125 Art. # 850 118

Ø 160 Art. # 850 119

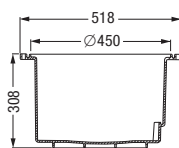


Pressure sealing flange

for upper section

Art. # 83 021

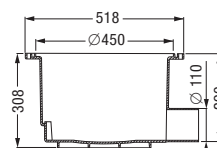
Drain bodies



Drain body in polyethylene

□ closed

Art. # 850 008



Drain body in polyethylene

□ with outlet

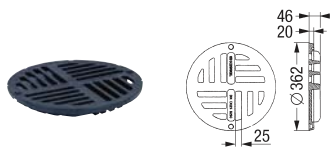
Ø 110 Art. # 850 009

Ø 160 Art. # 850 010



Slotted cover in polymer

Class A
Art. # 850 134



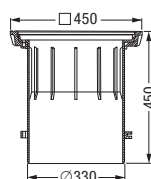
Slotted cover in cast iron

Class B
Art. # 850 135



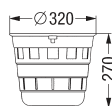
Slotted cover in cast iron

Class D, for article # 850 121
Art. # 850 137



Class D

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



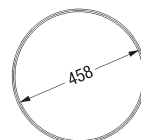
Sludge trap in polymer

Art. # 850 115



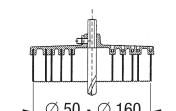
Profiled gasket 450

Art. # 850 113



Profiled gasket 360

Art. # 850 112



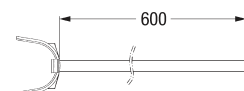
Hole saw

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



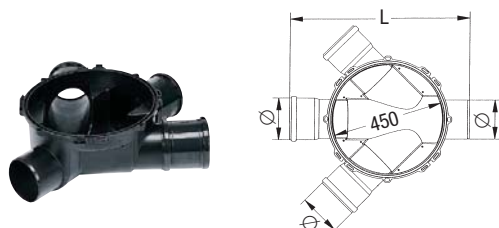
Elastomer waterproof membrane

in NK/SBR
Art. # 83 022



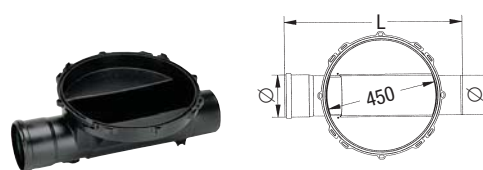
Lifting mechanism

for removing odour trap
Art. # 850 143



Drain body in polyethylene, open channel passage

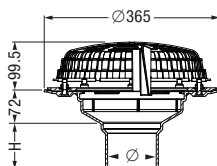
Inlet/Outlet Ø 160, L=726 mm, H=259 mm, Art. # 850 001
Inlet Ø 160/Outlet Ø 200, L=746 mm, H=259 mm, Art. # 850 002
Inlet/Outlet Ø 200, L=756 mm, H=304 mm, Art. # 850 003
Inlet Ø 200/Outlet Ø 250, L=771 mm, H=304 mm, Art. # 850 004



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

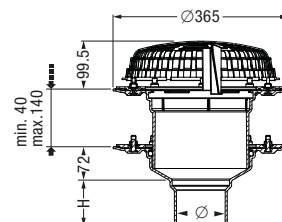
Flat-roof drains in *Ecoguss*



EN 1253/DIN 1986-100



Ø	75	110	125
H	96.5	93	93



Installation area Ø 227 mm

Installation area Ø 227 mm

with single seal

with pressure sealing flange in *Ecoguss*
and pebble trap

☐ without heating

Ø 75 Art. # 48 370

Ø 110 Art. # 48 310

Ø 125 Art. # 48 312

☐ with heating

Ø 75 Art. # 48 370.03

Ø 110 Art. # 48 310.03

Ø 125 Art. # 48 312.03

with double seal for installation in waterproof concrete

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

☐ without heating

Ø 75 Art. # 48 370.01

Ø 110 Art. # 48 310.01

Ø 125 Art. # 48 312.01

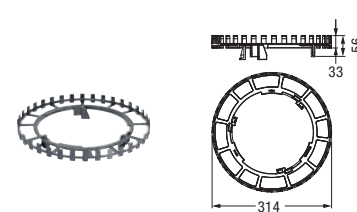
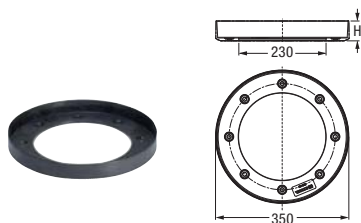
☐ with heating

Ø 75 Art. # 48 370.02

Ø 110 Art. # 48 310.02

Ø 125 Art. # 48 312.02

Accessories



Damming ring in *Ecoguss*

for drainage safety

☐ H = 35 mm

Ø 75 Art. # 48 335

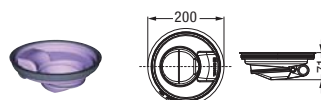
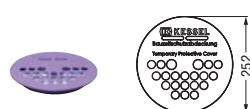
Ø 110 Art. # 48 335

☐ H = 45 mm

Ø 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

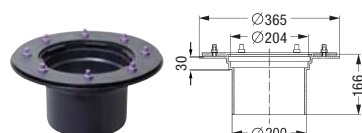
in PP
Art. # 48 300

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 slotted 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 Ø 200

Art. # 48 354

Reinforcement plate

in galvanized steel,
for roof applications

for flat-roof drain *Ecoguss*

Plate size: 600 x 600 mm

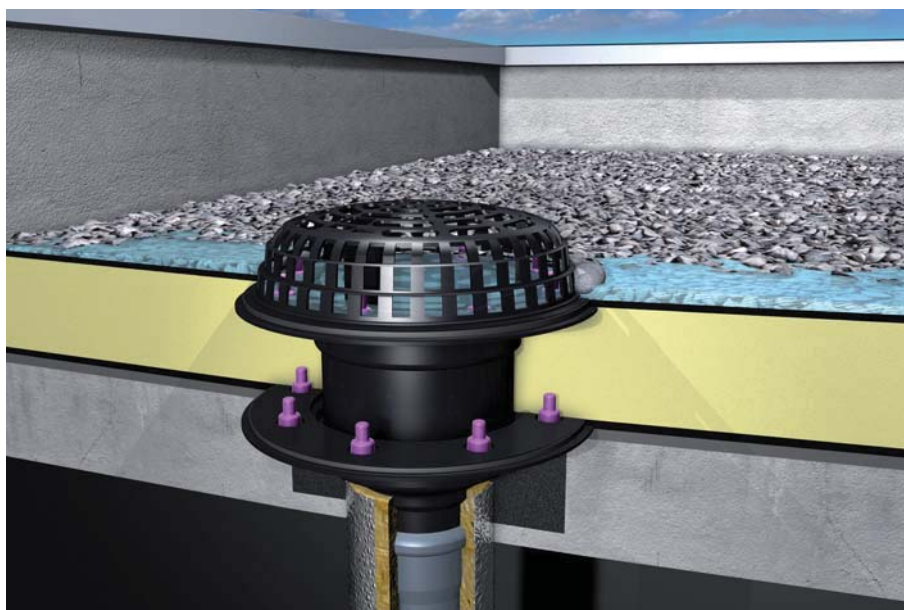
Cut-out: 270 mm

Material thickness: 1.5 mm

Art. # 48 351

Flat-roof drains in *Ecoguss* System 200

Installation example *Ecoguss* roof drains

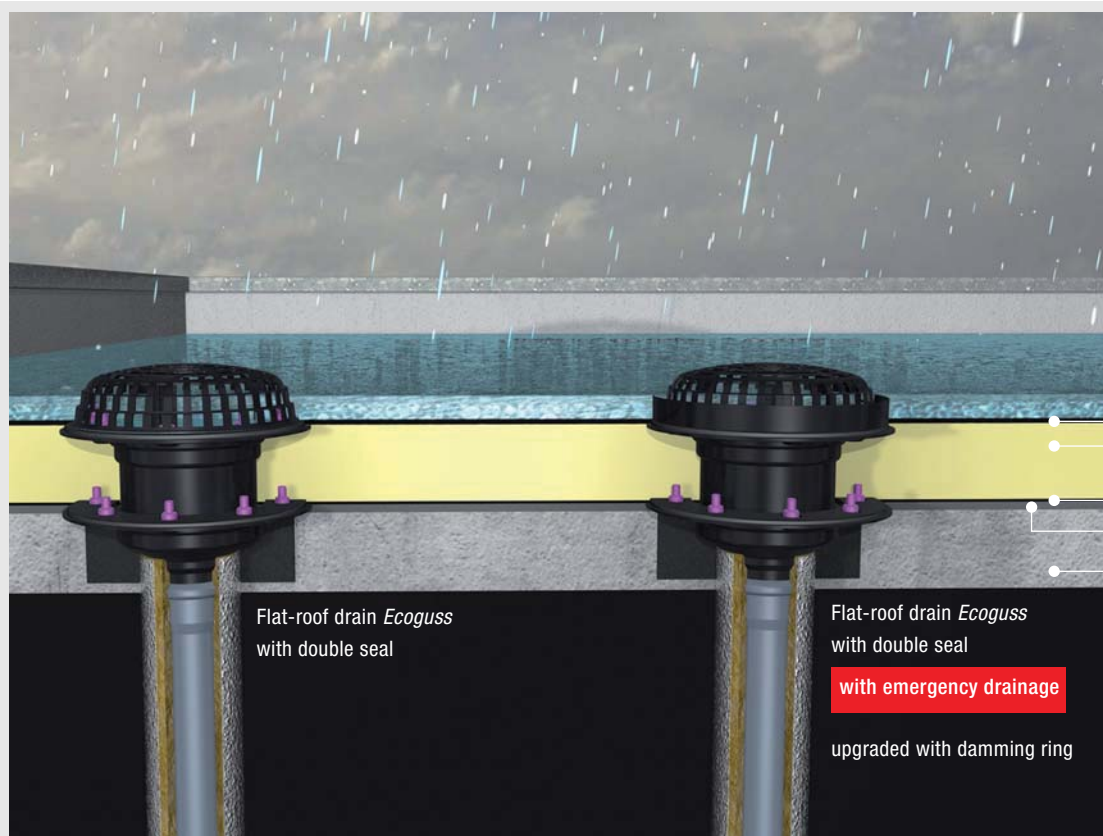


Flat roof drains made of *Ecoguss* are available in the diameters Ø 75, Ø 110 and Ø 125 mm. In addition to a practical leaf trap (basket) to prevent blockages, flat roof drains are also available as an option in heated versions to allow proper function during winter.

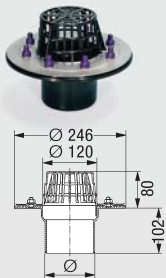
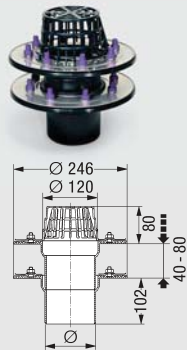
Professional advantages

- ***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 Ø 75, Ø 110 and Ø 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 drains			Products
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>	Roof drain in PP, vertical outlet <input type="checkbox"/> with pressure sealing flange with counter flange in stainless steel AISI 304, with leaf trap.	Ø 110	45 950
 <p>4.5 l/sec flow rate Installation area 180 x 180 mm</p>	Roof drain in PP, vertical outlet <input type="checkbox"/> with twin sealing flanges, with pressure sealing flange with counter flange in stainless steel AISI 304, with leaf trap.	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**

