SELF-Construction elements

drainage channels, boot scrapers, yard sumps for house, yard and garden

PRIVATE AND RESIDENTIAL
Construction

WELL THOUGHT

Our products undergo a long development process with the aim of offering our customers solutions that are as simple as possible. We therefore place a strong focus on ensuring that our drainage systems are simple and variable to install and easy to maintain.

CERTIFIED

Quality is a must at ANRIN. All materials used are of a high standard. Continuous testing in production and during further processing guarantee the high quality and durability of our products.

COOPERATIVE

We think from a customer perspective. We therefore know that problems and questions are inevitable during both the planning and implementation of a project. We won't leave you out in the rain. We are happy to be your contact for all aspects of drainage and are available to you through our expert customer service.

LEADING WATER

The water cycle is a symbol of life . We shape the cycle in our environment. We guide water to our components and lead it away. For us Leading Water means developing products of the highest class, which set new standards in terms of design, functionality, technology and materials.

SUSTAINABILITY

Our drainage channels not only shape water, but also express our commitment to sustainability. We use environmentally friendly materials and production processes to minimize our environmental impact.

Our objective is clear: efficient water management in harmony with nature.

INNOVATION

Innovation is at the heart of the company. We continuously strive to develop new and improved solutions draining technology. With a strong focus on research and development and close cooperation with customers and technical experts, Anrin has created an impressive range of innovative products.

At ANRIN, we work closely with architects, engineers and planners to develop customized solutions for special projects. We strive to meet the constantly growing demands on modern infrastructures and to offer innovative drainage solutions that integrate seamlessly into the design and aesthetics of the surroundings.

ANRIN Venturi-Socket

The ANRIN Venturi-Socket – optimized drainage with integrated odour trap

- fast drainage
- self cleaning effect
- odour trap

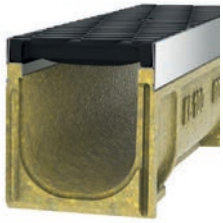
While water and dirt are discharged through the channel system unimpeded, the integrated shutter flap prevents odors from rising from the wastewater. The spring-loaded flap opens due to the pressure of the incoming water and closes automatically when the drain is closed.

ANRIN horizontal Venturi-Socket

The horizontal Venturi-Socket expands the ANRIN portfolio
It is mounted in end caps, at sump units or yard isumps and offers:

- Residue-free water drainage
- odour trap
- Prevention of frost damage

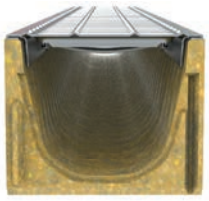
ANRIN UNILINK®-Joint



The optimised UNILINK® joint system eliminates the traditional differentiation between the beginning and end of the channel. Elements with an equal installation height can be joined in any arbitrary direction. The symmetrically divided half-joints enable the optional sealing of the splicing. Vertically aligned grooves and tongues support an efficient installation: In the process, the installation alignment can be chosen arbitrarily!

The flexibility in the design and installation phases enters a new dimension with the UNILINK® joint!

ANRIN Snap in - Fastening



Decades of experience and thorough product development in the areas of assembly, maintenance and cleaning of drainage systems have given rise to outstanding solutions for durable fastening technology.

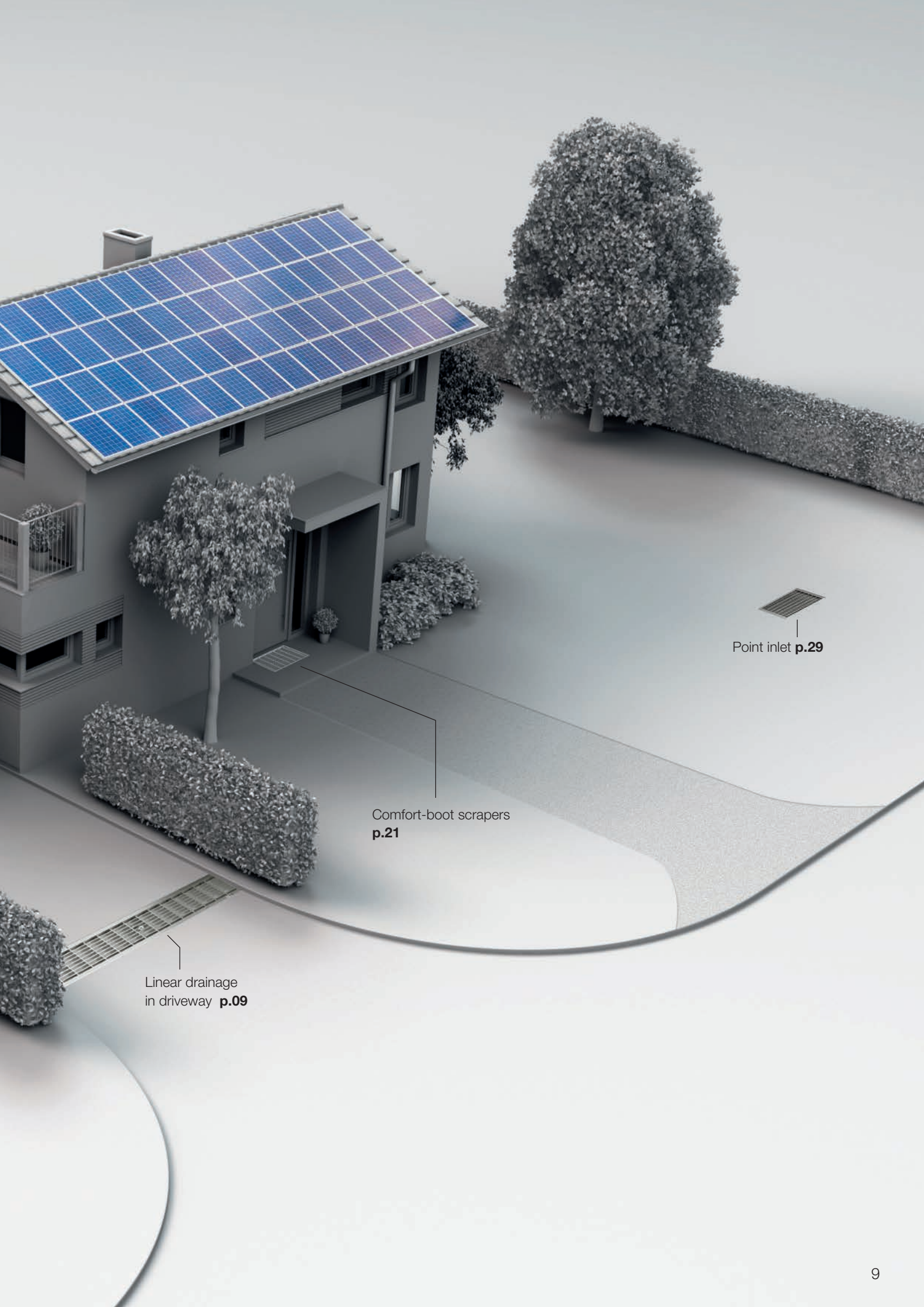
ANRIN grating fastenings are optimised for the respective load class and combine safety and brand quality with functional design.

ANRIN OvalGrip-Design

The unique OvalGrip grating design from ANRIN sets impressive accents and fits in with both modern architectural surroundings and historical ambience. The structured surface with its large opening cross-section guarantees high water absorption and good grip for vehicles and people. The modern plastic design also offers the advantage of complete corrosion resistance.

Different cover gratings in material and design complement the ANRIN drainage channel systems. ANRIN cover gratings offer a secure and durable channel cover for every aesthetic requirement and a variety of applications.

SELF construction elements


Point inlet **p.29**
Comfort-boot scrapers
p.21
Linear drainage
in driveway **p.09**

ANRIN Drainage system SELF-100 Smart

scan here to get all the important details

SELF 100 Smart

ANRIN classics provide reliable help. Whether it's continuous rain, a sudden downpour, or thawing snow: the ANRIN SELF-100 drainage system made of durable polymer concrete ensures that you don't have to walk through puddles on your way across the yard, to the garage or into the house. For structural implementation and a visually appealing individual design of the cover, a variety of gratings made of different materials are available. A complete DIY construction kit includes 1-meter-long channel elements, 50 cm compensation pieces, matching end caps to close off the channel run, and a 50 cm sump unit with a dirt trap bucket and connection opening.

Design grating for SELF-100 Smart channels

Mesh grating
galvanised steel, B125

Longitudinal profile grating
stainless steel, A15

Slotted grating „Heelguard"
galvanised steel, stainless steel, A15

Slotted grating „OvalGrip"
polyamid, B125, black

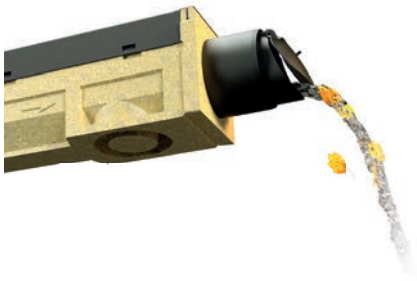
Slotted grating „OvalGrip"
polyamid, B125, grey

Slotted grating „OvalGrip"
ductile iron, B125

ANRIN Drainage system SELF-100 Smart

ANRIN Venturi-Socket

scan here to get all the important details



The ANRIN Venturi-Socket. Optimized water drainage with integrated odour trap.

- fast drainage
- self cleaning effect
- odour trap
- frost resistance

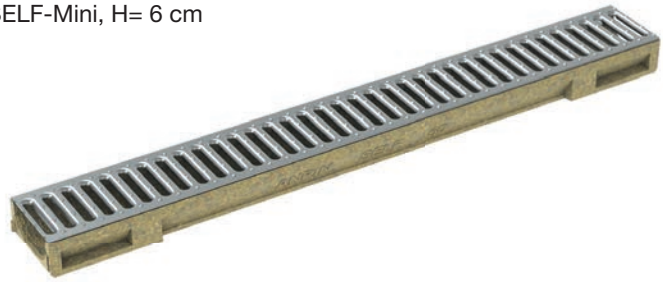
Product specifications	
Material	polymer concrete
Length	50 and 100 cm
Width	12 cm
Height	10 cm
Weight	4.5 - 8.0 kg
Nominal width	100 mm
Joint type	UNILINK®-joint
Fastening	Snap in-Fastening
Load capacity	Slotted steel grating Kl. A15, mesh grating galv. steel, Kl. B125, longitudinal stainless steel grating Kl. A15, ductile iron grating OvalGrip design Kl. B125, plastic grating OvalGrip design, Kl. B125
grating	freely selectable

ANRIN Drainage system SELF-ECO and SELF-Mini

The ANRIN SELF ECO and the SELF Mini drainage channels with their low installation heights of 8 and 6 cm are used exclusively in house and apartment construction. They were designed for load class A15, i.e. for installation in traffic and green areas that can only be used by pedestrians and cyclists. The main areas of application are sidewalks, courtyards, house entrances and terraces.

SELF-ECO, H = 8cm

SELF-Mini, H= 6 cm



scan here to get all the important details

SELF ECO

SELF Mini

Design gratings for Drainage system for SELF-ECO and SELF-Mini

Slotted grating „Heelguard“
galvanised steel, A15

Slotted grating „Heelguard“
ductile iron, B125

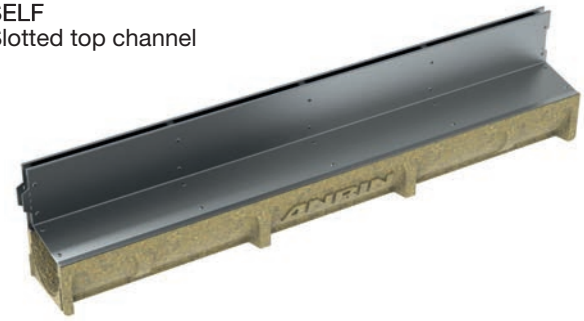
Slotted plastic grating „OvalGrip“
polyamid, B125

Product specifications	ANRIN SELF ECO	ANRIN SELF Mini
Material	Polymer concrete	Polymer concrete
Length	50 und 100 cm	100 cm
Width	12 cm	12 cm
Height	8 cm	6 cm
Weight	3.2 - 10.9 kg	6.3 - 10.5 kg
Nominal width	100 mm	100 mm
Joint type	Tongue and groove	Tongue and groove
Fastening	Snap in - Fastening	Snap in - Fastening
Grating	galvanised steel grating Heelguard cl. A15, ductile iron grating Heelguard cl. B125, plastic grating „OvalGrip“, cl. B125	galvanised steel grating Heelguard cl. A15, ductile iron grating „OvalGrip“ cl. B125, plastic grating „OvalGrip“, cl. B125

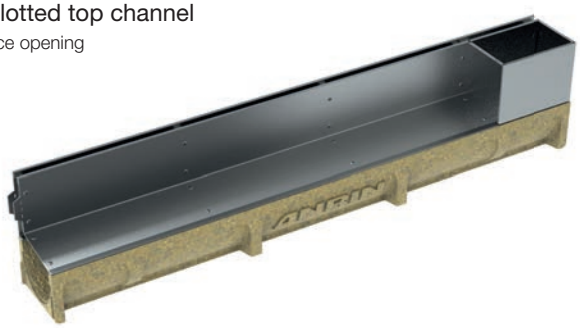
ANRIN Drainage system SELF-Slotted top channel

ANRIN SELF slotted top channels have been specially developed for integrating drainage into high-quality natural stone and paving. The reduction to a discreet inlet slot in the flooring surface enables decorative surface designs without compromise. The steel shaft with smooth inner surfaces and outward fold dublication allows the stones to be placed without gaps and the inlets to be cleaned easily. Innovative design for permanently reliable function.

SELF
Slotted top channel



SELF Slotted top channel
with service opening



scan here to get all the important details.

SELF Slotted top

Slotted top channels in the Designer Outletcenter Soltau

Product specifications	SELF-100 Slotted top channels	SELF-100 Slotted top channels with service opening
Material	Polymer concrete	Polymer concrete
Length	50 and 100 cm	100 cm
Width	12 cm	12 cm
Height	10 cm	10 cm
Weight	3.5/8.0 kg	11.3 kg
Nominal width	100 mm	100 mm
Joint type	UNILINK®-joint	UNILINK®-joint
Load capacity	Accessible by car	Accessible by car
Profile version	Steel	Steel

ANRIN Drainage system SELF- 150 and SELF 200

The ANRIN SELF -150 and the 200 drainage channels are used exclusively in house and apartment construction. The main areas of application are sidewalks, courtyards, house entrances and terraces. The high absorption capacity of the larger channel cross-sections ensures fast and efficient drainage of the water.

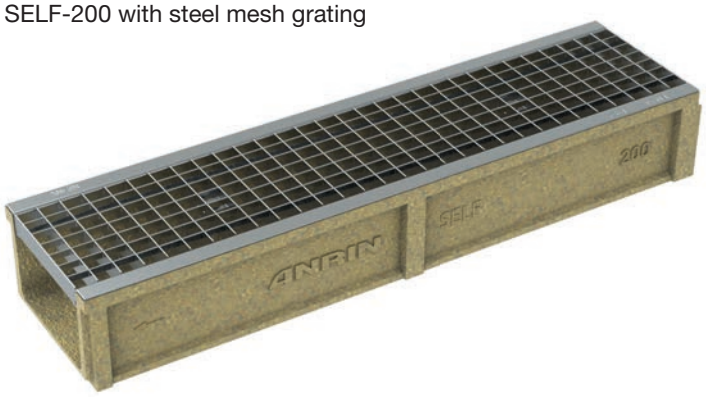
SELF-150 with slotted steel grating

scan here to get all the important details.

SELF-150

SELF-200

SELF-200 with steel mesh grating



Product specifications	SELF-150 Channel	SELF-200 Channel
Material	Polymer concrete	Polymer concrete
Length	50 and 100 cm	50 and 100 cm
Width	20 cm	25 cm
Height	8 cm, 15 cm	10.0 cm, 15.0 cm
Weight	7.1 - 14.8 kg	9.1 - 18.2 kg
Nominal width	150 mm	200 mm
Joint type	Tongue and groove	Tongue and groove
Fastening	Screw fastening	Screw fastening
Grating	Slotted steel grating cl. A15, steel mesh grating cl. B125, ductile iron grating cl. C250	steel mesh grating cl. B125, ductile iron grating cl. C250

Cover gratings for ANRIN SELF-150 and 200

Various cover gratings are available for the SELF-150 and SELF-200 channels: a galvanised slotted steel grating cl. A15, a gavanised mesh steel grating cl. B125 and a ductile iron grating „OvalGrip“ cl. C250.

Slotted grating
galv. steel, A15
SELF-150

Mesh grating
galv. steel, A15
SELF-150 / SELF-200

Slotted grating OvalGrip
ductile iron, C250
SELF-150 / SELF-200

ANRIN Drainage system SELF GL-100

SELF GL-100 with slotted steel grating

The ANRIN SELF GL-100 channel is, as the name implies, a universal product for garden - and landscaping for loads up to cl. C250. The overlying grating as slotted-, mesh- or ductile iron grating covers the edge of the polymer concrete channel, so that a harmonious transition to paving, slabs or natural stone surfaces can be created. With heights between 8 and 25 cm it is possible to construct longer channel sections with different gradients.

scan here to get all the important details.

SELF GL-100

Cover gratings for ANRIN SELF GL-100

Slotted grating
galv. steel A15

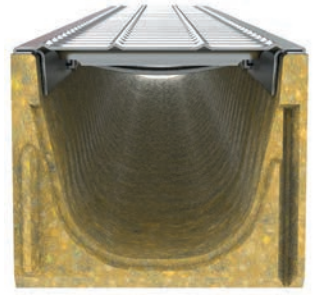
Mesh grating
galv. steel, B125

Slotted grating OvalGrip Design
ductile iron, C250

Product specifications	
Material	Polymer concrete
Length	50 and 100 cm
Width	13 cm
Height	8 - 25 cm
Weight	10 - 18 kg
Nominal width	100 mm
Joint type	Tongue and groove
Fastening	TwistLock-Fastening
Load capacity	Slotted steel grating cl. A15, steel mesh grating cl. B125, ductile iron grating cl. C250
Cover grating	freely selectable

ANRIN SELF Fastening Technology

Decades of experience and thorough product development in the areas of assembly, maintenance and cleaning of drainage systems have given rise to outstanding solutions for durable fastening technology.



ANRIN Snap in- Fastening

The practical Snap-In fastening locks horizontally and vertically. Snap-in lugs on the sides of the gratings engage in specially designed pockets on the channel wall. The cover gratings in load class B125 also have a thrust-resisting device that secures the grating in the longitudinal direction.

Application for SELF-100, SELF-ECO and SELF Mini

ANRIN Screw-Lock

With the screw lock, the cover grating is locked vertically in the channel base using a screw. A self-locking nylon thread insert ensures a firm and corrosion-free connection.

Application for SELF-150 and SELF-200

ANRIN TwistLock

In the ANRIN SELF product range, the TwistLock fastening is used in the grating versions for GL-100 channels.
Advantages:

- Put in place – one rotation – fixed
- Assembly without special tools
- No rattling, no loosening
- No disruptive bars in the channel interior area
- Maintenance-friendly
- Resistant to corrosion

Installation instructions
ANRIN SELF drainage channels

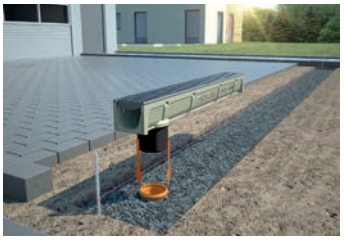
Installation instructions

The following installation guidelines are schematic representations. These are provided as examples and are non-binding. The information provided here is based on our long-term experience in excavation and road construction as well as the state-of-the-art technology.

Despite this, designers and planners are always obligated to check the products and the installation instructions for their appropriateness. The example details are simplified recommendations for execution. Constructions are to be re-created on a project-specific basis.

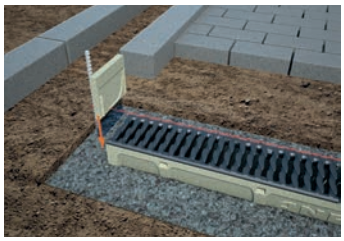
Important: Insert gratings for the installation.

1. Excavate trench. Fill in and pre-compact base course. Apply concrete pad, 3 parts sand + 1 part cement + 1 part water, to base course.



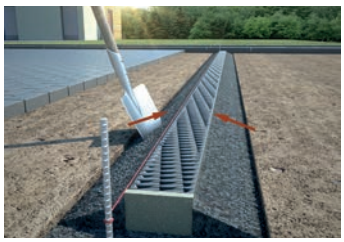
2. Connect pipe connections to the pipeline.

3. Place channel elements and sump unit on the concrete pad. Align components so that they are level.



4. Position end caps.

5. Complete the series a ensure the level alignment of the components.



6. Backfill the con ete pad.

7. Lay the pavin

8. The surface should be 2 5 mm higher than the cover grating.

Guidelines and regulations

DIN EN 1433	“Drainage channels for vehicular and pedestrian areas”
DIN 19580	“Drainage channels for vehicular and pedestrian areas ...”
RStO	“Guidelines for the standardisation of the superstructure of vehicular areas”
DIN EN 206-1	“Concrete. Specification, performance, production and conformity”
DIN EN 1045-2	“Concrete, reinforced and prestressed concrete structures. Part 2: Concrete – Specification, properties, production and Application rules for DIN EN 206-1”

ANRIN Drainage system plastic channel PP-EVO

SELF PP EVO
NW 100

scan here to get all the important details.

SELF PP EVO

ANRIN plastic channels from the PP and PP EVO series are made of polypropylene (PP), a shatterproof black solid plastic. Due to their low weight and ribbed edge profile, they are easy to install and are particularly suitable for applications in private and residential construction.

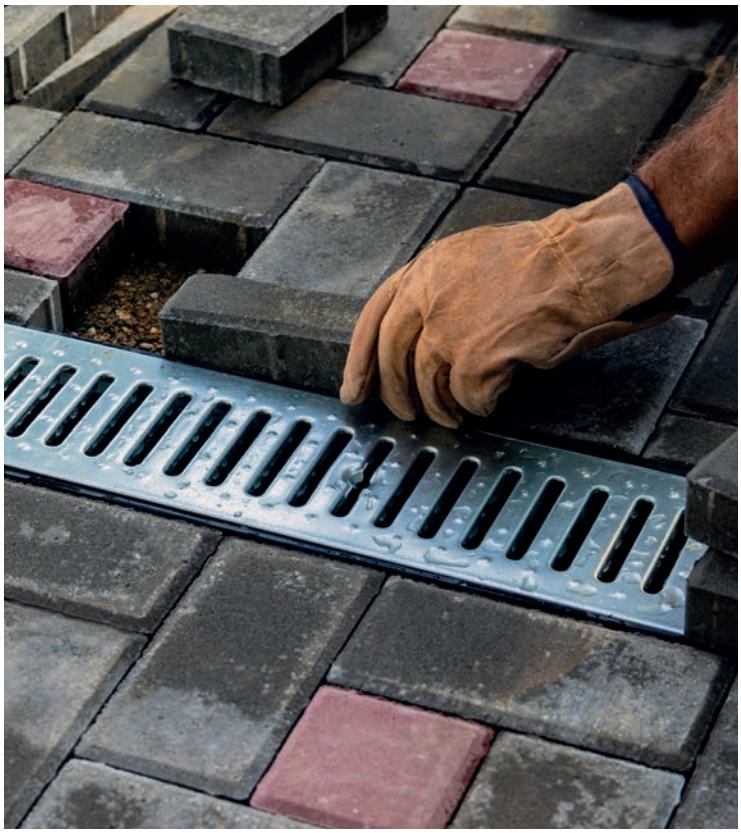
Cover gratings for SELF - plastic channels PP-EVO

Plastic grating
polyamide
A15

Slotted grating
galv. steel
A15

Plastic grating
OvalGrip Design
B125

Ductile iron grating
OvalGrip Design
C250



ANRIN Drainage system plastic channel, type LC-150

SELF LC-150
NW 150

scan here to get all the important details.

LC-150

ANRIN plastic channels in the PP EVO series are made of PE-HD. The material is resistant to many chemical-organic substances and is “self-cleaning”. Impact-resistant, unbreakable and high-performance - even with large temperature fluctuations (from -40 °C to 100 °C). In combination with various cover gratings made of plastic, galvanized steel or ductile iron, surfaces can be designed in pedestrian zones, public spaces and in private / residential buildings.

Cover gratings for SELF - Plastic channels LC-150

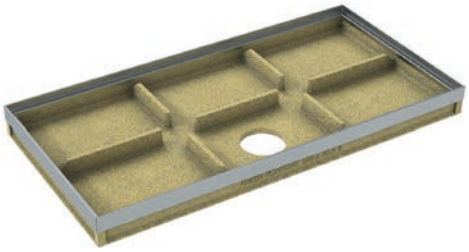
Plastic grating A15

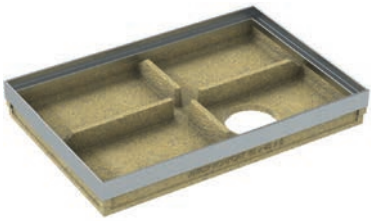
Mesh-grating galv. steel B125

Ductile iron grating HEELGUARD C250

Product specifications	SELF-PP EVO	SELF LC-150
Material	Polypropylene	PE-HD
Length	100 cm	100 cm
Width	13.1 cm	22.5 cm
Height	6.3 cm, 9.8 cm and 14.8 cm	9.0 cm, 12.5 cm and 20.0 cm
Weight	1.6 - 8.6 kg	4.6 - 20.8 kg
Nominal width	100 mm	150 mm
Joint type	Overlapping joint with snap-in system	Overlapping joint with snap-in system
Fastening	TwistLock	Locking bridge
Load capacity	Cl. A15, B125 and C250	Cl. A15, B125 and C250
Cover grating	Plastic grating PP cl. A15, Plastic grating OvalGrip cl. B125, slotted grating, galv. steel cl. A15, ductile iron grating OvalGrip cl. C250	Plastic grating PP cl. A15, Mesh-grating, galv. steel cl. B125, Ductile iron grating HEELGUARD cl. C250

SELF Comfort-Boot scrapers



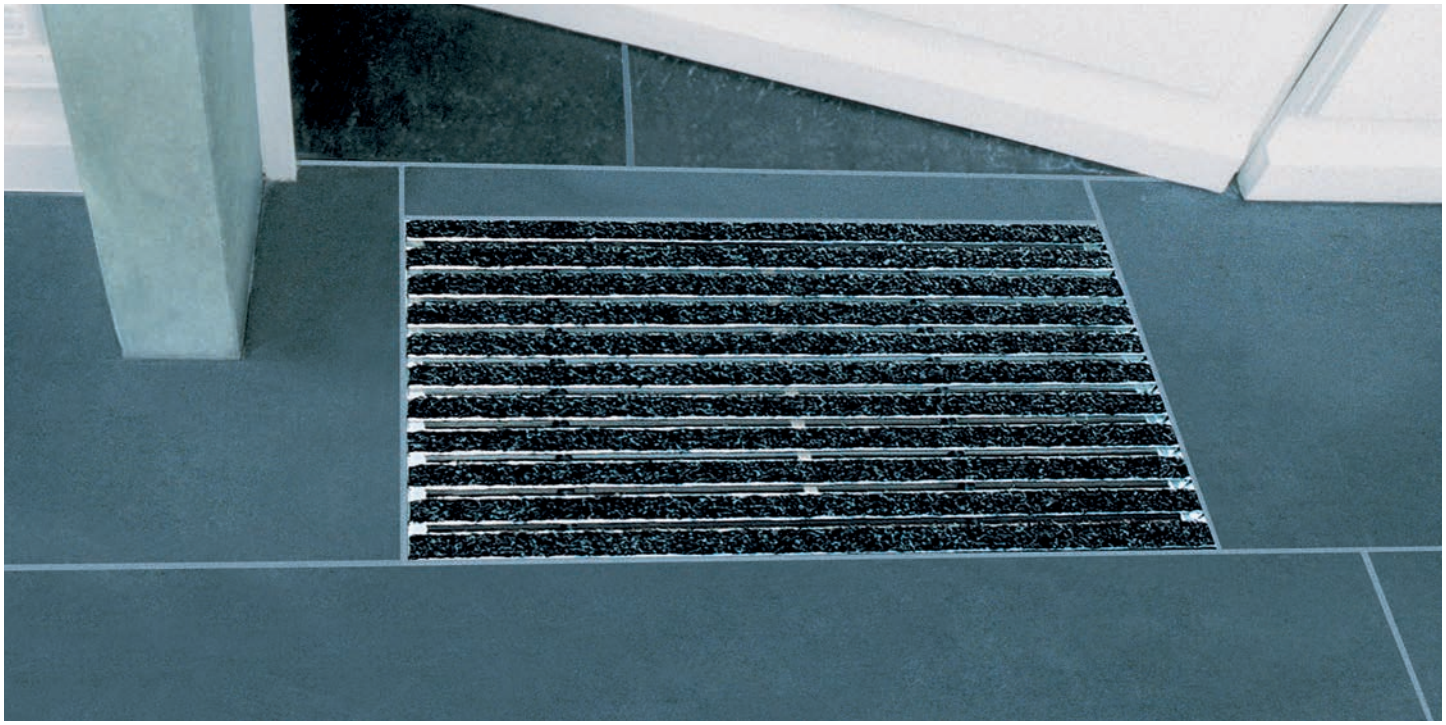


scan here to get all the important details.

Boot-scraper

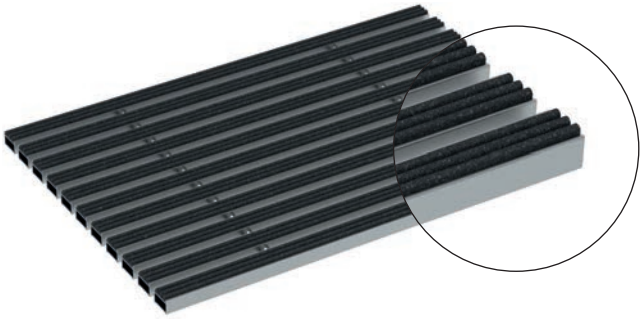
ANRIN SELF comfort boot scrapers are integrated into the new floor surface to keep entrance areas in residential buildings clean and dry and at the same time representative. This means that dirt is always kept outside the front door, even with intensive use. Modern diamond or mesh gratings made of galvanized steel and aluminium gratings with brush, rubber or needle felt strips offer the right solution for every application.

Product specifications	small	medium	large
Material	Polymer concrete	Polymer concrete	Polymer concrete
Length	60 cm	75 cm	100 cm
Width	40 cm	50 cm	50 cm
Height	8 cm	8 cm	8 cm
Weight	11.7 kg	19.7 kg	22.9 kg
Drain	DA/OD 110	DA/OD 110	DA/OD 110
Edge type	Steel edge rail, 6 mm, galvanised	Steel edge rail, 6 mm, galvanised	Steel edge rail, 6 mm, galvanised
Cover grating	freely selectable	freely selectable	freely selectable

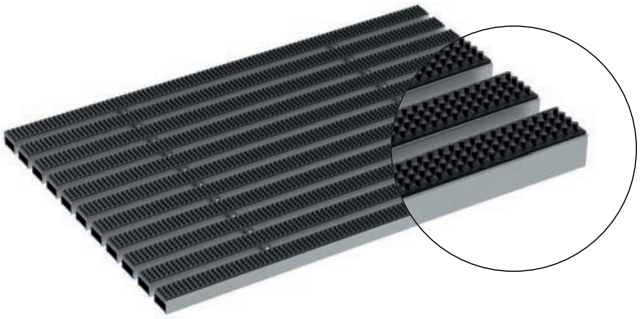


Cover gratings for ANRIN SELF Comfort-Boot Scraper

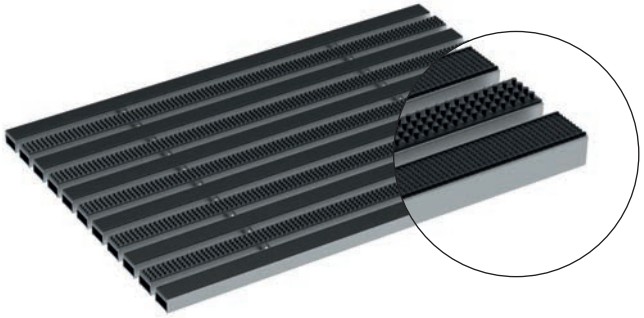
Different cover gratings in material and shape complement the SELF drainage channel system. Cover gratings from ANRIN offer a secure and durable channel topping for every aesthetic requirement and various possible uses.



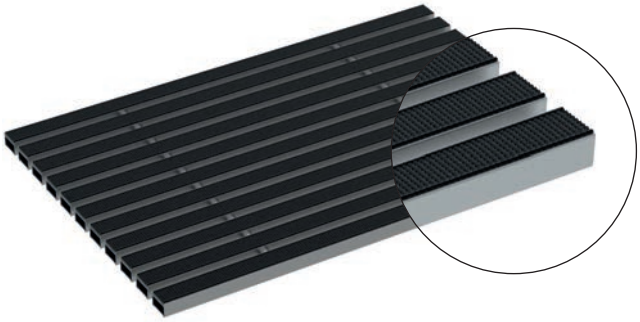
Aluminium grating
with needle-felt strips



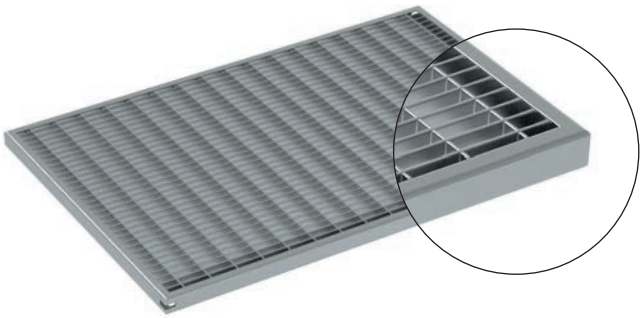
Aluminium grating
with brush strips



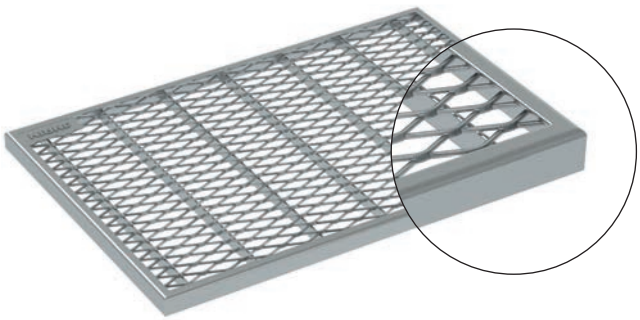
Aluminium grating
trimmed with brushes + rubber strips



Aluminium grating
with rubber strips



Mesh grating
galvanised steel
mesh width 9 x 30 mm



Diamond grating
galv. steel

Installation instructions

SELF Comfort-Boot scrapers in 3 practical sizes

The following installation guidelines are schematic representations. These are provided as examples and are non-binding. The information provided here is based on our long-term experience in excavation and road construction as well as the state-of-the-art technology. Despite this, designers and planners are always obligated to check the products and the installation instructions for their appropriateness. The example details are simplified recommendations for execution. Constructions are to be re-created on a project-specific basis.

Important: Insert gratings for the installation.

Guidelines and regulations

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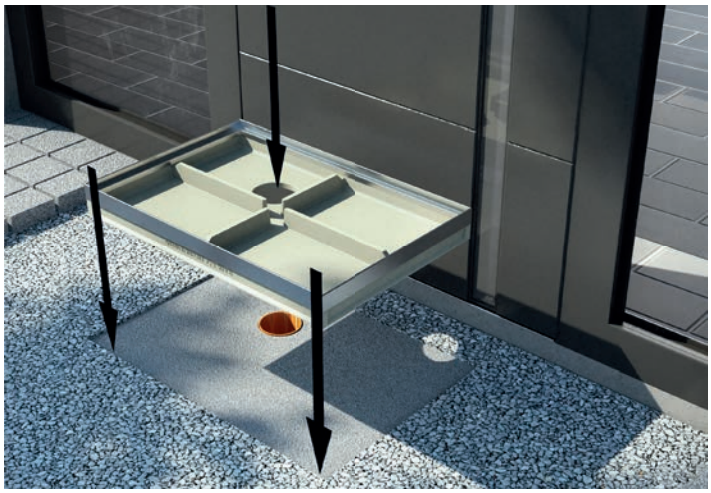
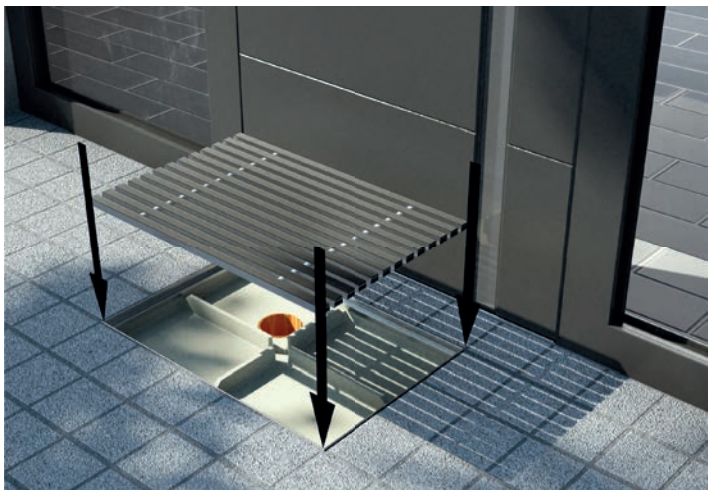
DIN EN 1045-2	“Concrete, reinforced and prestressed concrete structures. Part 2: Concrete – Specification, properties, production and Application rules for DIN EN 206-1”

1. Prepare the surface so that the top edge of the comfort boot scraper ends flush with the top edge of the finished ground surface. Integrate any pipelines to be connected.



2. Place the scraper box in the ground, on the concrete bed if possible, connect any necessary pipeline and align with the surface.



3. Fit the cover grating in place and install the surrounding surface structure.

ANRIN Yard sumps

SELF Yard sump
Kl. A15 to B125

scan here to get all the important details.

Yard-sump

ANRIN offers a range of cover grating variants for the SELF yard sump: a slotted grating made of ductile iron, a mesh grating, a stainless steel longitudinal bar grating and a galvanized steel slotted grating. The slot widths of approx. 10 mm prevent coarse dirt from being washed in while ensuring optimum water inflow. The load capacity of all grating variants is designed to be driven over by cars in private residential buildings.

Cover gratings for ANRIN SELF Yard sump A15 to B125

Slotted grating, galv. steel, **A15**

Ductile iron grating, **B125**

Longitudinal bar grating, stainless steel, **B125**

Mesh-grating, galv. steel, **B125**

ANRIN Yard Sump

Yard sump
Cl.C250

scan here to get all the important details.

Yard-sump

Point drainage is particularly suitable for small areas where the slope leads to a central point or where smaller quantities of water need to be drained away. This is why ANRIN yard sumps are often used in courtyards or squares with a historical ambience. One advantage of point drainage is that it offers more design freedom, especially for small-format paved areas. The yard sump for point drainage is installed at the lowest point of the area to be drained and connected to the downstream pipe.

Product specifications	Yard sump A15 to B125	Yard sump C250
Material	Polymer concrete	Polymer concrete
Length	25 cm	30 cm
Width	25 cm	30 cm
Height	35 cm and 37 cm	40 cm
Weight	15.4 kg - 19.8 kg	34.7 kg
Drain	DA/OD 110	DA/OD 110
Load capacity	Cl. A15, Cl. B125	Cl. C250
Cover grating	Slotted grating, galv. steel, A15, Ductile iron grating, B125, Longitudinal bar grating B125, Mesh-grating, galv. steel, B125	Ductile iron grating C250

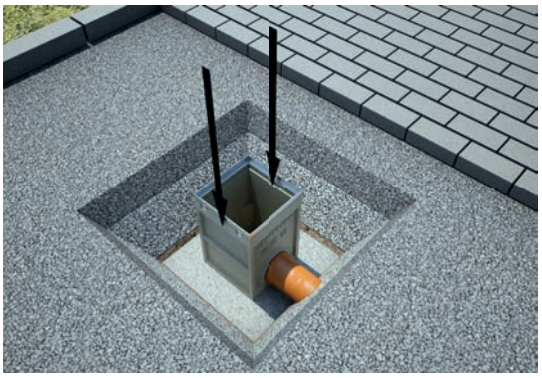
Installation instructions for ANRIN Yard sumps

With ANRIN drainage systems, accumulating rainwater should be drained safely and quickly. Moreover, the structural elements have the task of accommodating dynamic loads arising from traffic-related demands and dispersing them to the area of the foundation

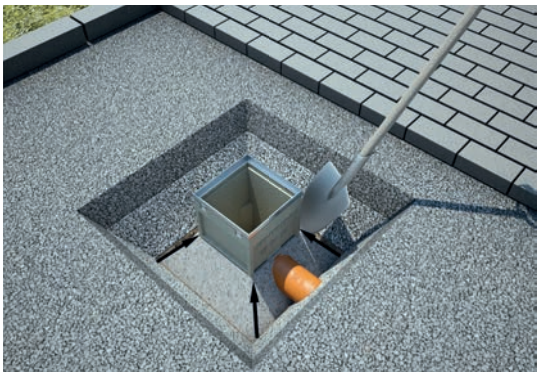
When selecting, planning and installing ANRIN drainage systems, the following technical regulations must be observed in their respective valid versions.

The following installation guidelines are schematic representations. These are provided as examples and are non-binding. The information provided here is based on our long-term experience in excavation and road construction as well as the state-of-the-art technology. Despite this, designers and planners are always obligated to check the products and the installation instructions for their appropriateness. The example details are simplified recommendations for execution. Constructions are to be re-created on a project-specific basis.
Important: Insert gratings for the installation.

1. Install the pipeline to the yard sump. Excavate the trench and fill in the concrete bed of 3 parts sand + 1 part water + 1 part cement. When installing a yard sump with raising piece, observe the corresponding installation depth.



2. Place the yard sump on the concrete bed and align. Connect the pipeline. With connection of a rainfall pipe, make the perforation on the raising piece and fit the pipe socket. Connect the fall pipe.



3. Align the yard sump horizontally. Fill in the concrete bed and raise it at the sides of the sump unit.

4. Fill the pit with gravel and compact carefully.

5. Fit the cover grating.

6. Install paving. The layer should end 2 to 5 mm higher than the cover grating.

Guidelines and regulations

DIN EN 1433	“Drainage channels for vehicular and pedestrian areas”
DIN 19580	“Drainage channels for vehicular and pedestrian areas ...”
RStO	“Guidelines for the standardisation of the superstructure of vehicular areas”
DIN EN 206-1	“Concrete. Specification, performance, production and conformity”
DIN EN 1045-2	“Concrete, reinforced and prestressed concrete structures. Part 2: Concrete – Specification, properties, production and Application rules for DIN EN 206-1”

CONTACT US

We place great importance on working closely with our customers to understand their individual needs and requirements. Our dedicated customer service team provides comprehensive support, from advice on product selection to assistance with the installation and maintenance of drainage channels. You can rely on a fast response time, expert support and customer-orientated service.

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