

Trade Fair Special:
IFAT 2026

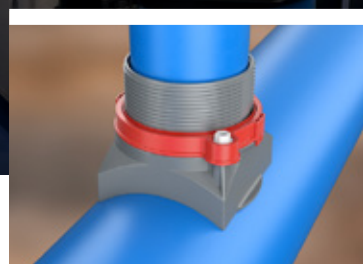


Funke INFO

The magazine of Funke Kunststoffe GmbH



IFAT 2026 A holistic approach to infrastructure



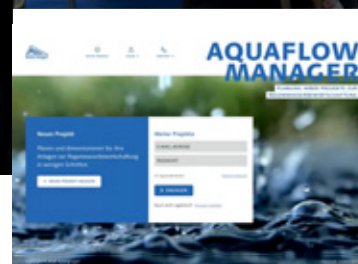
P. 08 Funke VPS Turbo

Quick to install and
securely connected



P. 09 Funke KlemmTrac®

Tension-resistant connections
for the HS® Sewer Pipe System



P. 18 AquaFlowManager

New calculation tool for
modern water management



Dear readers,

The challenges we face in managing our infrastructure are growing: increasing demands for sustainability, more complex projects, scarce resources and the need for durable, safe solutions. Anyone involved in planning, tendering and construction today is taking responsibility for future generations and requires systems that are technically sound and economically viable.

At IFAT, we will demonstrate a holistic concept of modern infrastructure. The focus is on new system solutions across various product areas that simplify the work of all stakeholders involved in construction. Furthermore, the coordinated system components require less coordination and time during installation on site. Building efficiently in less time is another area where Funke is setting the standard, particularly in times of a skills shortage.

The new products that Funke is presenting at IFAT exemplify the innovative strength of a medium-sized company that has been developing forward-looking solutions for sewer construction and stormwater management for years. Products such as the new window corner, which is used in building construction, also demonstrate that, on the outskirts of the Ruhr region, we are always thinking outside the box.

Accordingly, visitors to the Funke stand (B3.105) can once again look forward to a colourful array of new developments and forward-looking system solutions.

We wish you an enjoyable read.

Timo Langer
Head of Sales

Rudolf Töws
Head of Engineering

Trade Fair Special: Funke at IFAT 2026

Contents

03 | New solutions from Funke

04 | Focus on sustainability

New products

06 | UrbanClean Filter

08 | Funke VPS Turbo

09 | Funke KlemmTrac®

10 | Funke ILA Quick Coupling

11 | D-Rainclean® Filtration
Channel FE Collect

12 | D-Rainclean® Filtration
Channel Cover, Class B

13 | Funke Rain Pipe Sand Trap

14 | Golpla® XL

15 | Funke Window Corner

16 | **Funke Pipe2Pipe®**
Reference Heidelberg

Stormwater management

18 | AquaFlowManager

19 | Substrates

20 | Tree Protection

21 | BeWa® Drainage

22 | Funke Kerb Gully

24 | Accessible Chambers

26 | References

28 | Service

Legal Notice

Publisher: Funke Kunststoffe GmbH
Siegenbeckstraße 15 | 59071 Hamm-Uentrop (Germany)
Tel.: +49 2388 3071-0 | info@funkegruppe.de
www.funkegruppe.de
04/2026

At a glance

Our new system solutions

Stormwater management



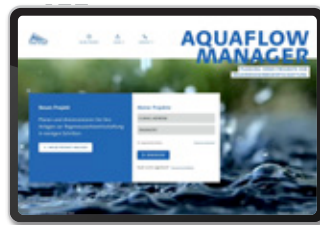
UrbanClean Filter | Page 06
For the effective treatment of stormwater prior to discharge or infiltration



D-Rainclean® Filtration Channel FE Collect | Page 11
Prefabricated unit for treatment and infiltration of surface water



D-Rainclean® Filtration Channel Cover, Class B | Page 12
Significant weight reduction thanks to use of fibre-reinforced plastic



AquaFlowManager | Page 18
Dimensioning of stormwater management systems

Sewer connections



Funke VPS Turbo | Page 08
For retrofitting into sewer pipes from DN 300 to DN 2400

Pipe Systems



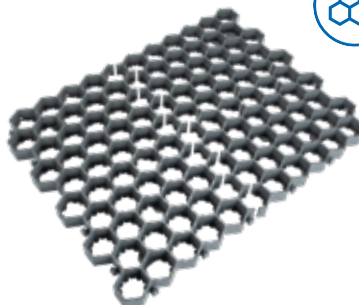
Funke KlemmTrac® | Page 09
For tension-resistant and longitudinally interlocking connections in the HS® sewer pipe system

Chamber backdrops



Funke ILA Quick Coupling | Page 10
For removing the internal chamber backdrop; chambers remain accessible

Ground fixing



Golpla® XL | Page 14
Ground fixing elements for stable, water-permeable and trafficable surfaces

Funke Industrial Building Construction



Funke Window Corner | Page 15
Prevents 'forgotten connections' with floor-to-ceiling windows and doors

Focus on durability

Robust system solutions for sewer infrastructure

Local authorities, planners and construction companies all face the same challenges: increasing need of renovation, a shortage of skilled workers, tight deadlines and limited budgets. Sustainable sewer infrastructure not only needs to be durable, therefore, but above all economical, safe and easy to implement. This is precisely where our products come in.

Our approach is based on consistently simplified system solutions for sewer infrastructure. Modular systems significantly reduce the variety of options and enable flexible applications with just a few, perfectly coordinated components. This simplifies planning and tendering, speeds up site logistics and ensures predictable processes – a decisive advantage in times of scarce resources. A key added value lies in the simple and safe handling of our products. Intuitive installation, clear system logic and tried-and-tested details reduce training times and noticeably ease the workload on site personnel. Even with changing teams or under challenging installation conditions, work can be carried out reliably and in accordance with standards.

Funke solutions

- Durable
- Cost-effective
- Easy and safe to implement
- Modular systems
- Standard-compliant and approved products
- Simple planning and tendering
- Efficient site logistics
- Predictable processes

Added value comes from efficiency

At the same time, our systems minimise typical sources of error in sewer construction. Standardised connections, defined tolerances and tested system components ensure a high level of installation reliability. This reduces the need for rework, prevents damage and lowers long-term operating and maintenance costs – a measurable benefit for operators and local authorities. What's more, reduced material usage, optimised transport and storage processes, and durable, low-maintenance solutions create added value for all involved. A prime example of this is high-quality PVC-U sewer pipe systems, which have proven their worth in wastewater disposal, site drainage and stormwater management. They impress



HS® Sewer Pipe System



D-Rainclean® Filtration Channel



Funke KlemmTrac®



with their durability, high load-bearing capacity and cost-effective installation – in both new builds and renovations. The range is complemented by chamber systems and innovative pipe joints that ensure watertightness, operational reliability and efficiency.

Numerous innovations

In addition, there are ground reinforcement systems for permanently stable surfaces, stormwater management solutions and intelligent tree root aeration systems that promote the vitality of urban trees and thus contribute to climate-resilient urban development. Numerous innovations provide further impetus: the UrbanClean Filter ensures effective purification of stormwater before it is discharged into watercourses or infiltrates the subsoil. The Funke VPS Turbo enables retrofitting into sewer pipes from DN 300 to DN 2400 – without the need for special tools. The Funke KlemmTrac® provides tension-resistant, longitudinally force-locked connections in the HS® Sewer Pipe System, whilst the D-Rainclean® Filtration Channel FE Collect and the D-Rainclean® Filtration Channel

Cover Class B represent further intelligent solutions for collecting and treating surface water. The Funke ILA Quick Coupling the removal of internal backdrops and ensures greater efficiency in day-to-day work. The Golpla® XL surface fixing grid enables stable, water-permeable and, at the same time, trafficable surfaces – ideal for modern traffic and open space concepts. The trade fair portfolio is rounded off by the new AquaFlowManager, a calculation tool that consistently expands the range of services in the field of modern stormwater management.

Further information can be found here:



Golpla® XL



Funke VPS Turbo



KS-Bluebox®

UrbanClean Filter

Cleaning stormwater runoff

**NEW
PRODUCT**

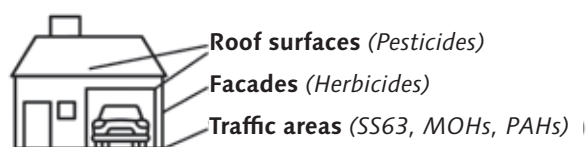
The UrbanClean filter contains a filter cartridge filled with UrbanClean Substrate.

With the UrbanClean Filter, Funke offers a high-performance and compact system for treating stormwater runoff in urban areas. The filter system meets the increasing requirements for water protection, sustainability and regulatory compliance, and is particularly suitable for use in modern drainage concepts.

The UrbanClean Substrate reliably retains a wide range of pollutants. In addition to suspended solids (SS63), dissolved heavy metals and organic trace substances such as mecoprop, diuron and their degradation products are also removed from surface runoff. The system thus supports the reliable compliance with water management regulations and sustainably reduces

Pollutants: Origin and type

Roof surfaces	Cu, Zn, Pb
Flat roofs (bitumen membranes)	Mecoprop
Green roofs (EPDM membranes)	Benzothiazole
Facades (paints/plasters)	Diuron, Terbytryn, DCOIT
Traffic areas	Cu, Zn, Pb, MOHs, PAHs



pollutant inputs into waterbodies. The system is installed in a DN/OD 400 chamber and can be easily integrated into existing or new drainage systems.

At its heart is a filter cartridge filled with UrbanClean Substrate. Stormwater runoff is directed via a distribution plate into a sludge bucket, where particles can settle. The water then passes through the substrate bed. Filtration, adsorption, ion exchange, precipitation and biological degradation ensure reliable retention of SS63 (particle sizes from 0.45 µm to 63 µm) and organic trace substances, as well as Flat roofs (bitumen membranes) their degradation products.

Long service life, easy maintenance

The UrbanClean Filter is resistant to all common constituents in stormwater runoff and is characterised by a long service life and low maintenance requirements.

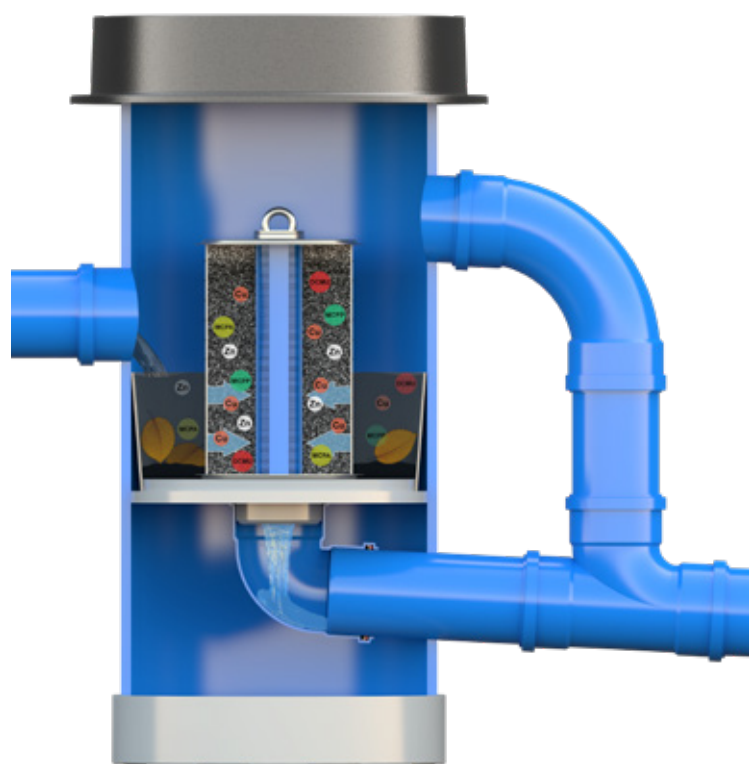


Advantages

- Retention SS63 / 52% (based on DIBt test guidelines)
- Easy maintenance, even for private individuals
- No need to remove sediment
- Substrate replacement takes just a few simple steps
- Child-proof cast iron cover, Class D
- Drainage-proof thanks to integrated emergency overflow
- Very compact design (DN/OD 400)

Depending on the location and the amount of dirt, emptying the sludge bucket and replacing the substrate usually takes place once a year. This ensures cost-effective operation and planning reliability. The UrbanClean Filter is suitable for treating stormwater runoff from roof areas of up to 150 m², flat and green roofs up to 150 m², façade areas of up to 3,000 m² and traffic areas of up to 150 m².

This product thus offers clients and planners a compact, cost-effective and sustainable solution for urban water protection.



The UrbanClean filter effectively retains SS63, heavy metals and organic trace substances.

Funke VPS Turbo DN/OD 160

Install sewer connections quickly and safely

NEW
PRODUCT

The Funke VPS Turbo enables secure and leak-proof lateral connections to sewer pipes.

The lateral connection of service pipes to existing main pipes is a key factor in the operational reliability of drainage systems. Precise execution, permanent tightness and high mechanical strength are particularly essential for retrofit connections. Different pipe materials such as concrete, vitrified clay or plastic, as well as varying wall thicknesses and dimensions, further increase the demands.

The Funke VPS Turbo provides a practical solution for retrofit connections to sewer pipes from DN 300 to DN 2400 – virtually regardless of wall thickness and pipe material. Even with non-standardised or previously unknown existing pipes, the system enables a quick and secure lateral connection.

No special tools required

Installation requires no special tools, only a cordless drill/driver with a 19 mm chuck. A specially designed shear screw ensures the required tightening torque and thus the contact pressure of the seal. The sealing collar adjusts continuously to the inner contour of the drill-cut edge in the main pipe. This allows it to follow the curvature along the edge of the hole and form an even contact surface. This

Advantages

- Simple, quick and safe installation using a cordless drill
- Retrofitting into sewer pipes with nominal diameters from DN 300 to 2400
- Compact design
- Suitable for wall thicknesses from 7 mm up to virtually any wall thickness
- Bore diameter DN/OD 160: 187–189 mm
- The connection is positively locked to the main pipe and cannot be pulled out
- The flexible sealing collar is three-dimensionally adjustable
- The connection pipe of the socket can be adjusted continuously from 0° to 7°

creates a seamless connection that also acts as a stabilising element. A seal is positioned beneath the flexible sealing collar, which is pressed evenly and flat during installation. This results in a connection to the main pipe that is both form-fitting and force-fitting.



Funke KlemmTrac®

Tension-resistant connections for the HS® Sewer Pipe System

**NEW
PRODUCT**



The Funke KlemmTrac® ensures tension-resistant, longitudinally locked, leak-proof and non-detachable connections when using the HS® Sewer Pipe System on steep or sloping sections or in areas prone to settlement.

The red Funke KlemmTrac®, consisting of two half-shells, is manufactured from impact-resistant PVC-U using an injection moulding process. It is available in nominal diameters DN/OD 110, 160 and 200. The inner surface of the half-shells precisely matches the geometry of the HS® Sewer Pipes and fittings to be joined, reliably preventing the joint from coming loose after installation. Three retaining claws are integrated into each half-shell; when tightened, these engage with the pipe via a press fit connection, ensuring a high level of pull-out resistance.

Instead of sudden failure, the connection remains functional even under excessive stress. In the event of (tensile) overload of the connection, the KlemmTrac® clamp merely shifts by approximately 2–3 cm – the integrated seal continues to ensure reliable tightness. Furthermore, installation can be carried out regardless of weather conditions.

Advantages in use

- Approved for JGS-systems (DIBt Z-40.23-615)
- Tensile-resistant, longitudinally force-locked connection, even on slopes
- Tension-proof connection that can be installed regardless of weather conditions
- In the event of overloading, the joint can settle by 20 cm without loss of watertightness
- Resistance to pull-out is maintained throughout the entire insertion depth
- Increased safety level (DWA-A 142) in water protection zones II and III
- Additional protection against root ingress (in combination with ASSIL expansion resin)

Funke ILA Quick Coupling

Internal backdrop can be removed completely

NEW
PRODUCT



As access to the chamber is restricted following the installation of an internal backdrop, this functional element can also be fitted with a quick-release coupling. Together with the lower mounting bracket, it helps to ensure that the downpipe remains securely fixed in position even in the event of any turbulence. Furthermore, the Quick Coupling allows the entire internal backdrop to be removed quickly and easily if necessary, thereby providing access to the chamber.

The internal backdrop (ILA) was developed to bridge a height difference in the sewer system. It can be used both in new chamber construction and for retrofitting. The connection to the pipework is made via a pipe section passed through the chamber wall. The pipe penetration can be created either with a prefabricated chamber liner or an annular space seal to be provided by the customer. Depending on the height of the chamber, the internal backdrop is fitted with a downpipe, which is secured to the chamber wall at the lower end using a detachable hook system. This ensures that the incoming sewage or stormwater is drained downwards in a controlled manner.

An internal backdrop bridges height differences in chamber structures.



Gain access in no time

The Funke Quick Coupling makes it possible to remove fixtures, such as the internal backdrop, from a chamber quickly and easily from the ground.

The benefits are manifold. For example, the Funke Quick Coupling simplifies camera inspection or the flushing of pipes from the surface. Functional elements installed in the chamber can be removed in no time at all. A camera or flushing nozzle can be inserted into the drainpipe with minimal effort.

More information on the ILA Quick Coupling from Funke can be found here:



D-Rainclean® FE Collect Filtration Channel

Treatment and drainage in a prefabricated unit

NEW
PRODUCT



The FE Collect variant allows treated stormwater to be drained off or reuse.

The D-Rainclean® Filtration Channel FE is a prefabricated element for treating and infiltrating stormwater. In the FE Collect version, the filtration channel is equipped, in addition to concrete foundations, with a half-pipe shell (DN 300) on the sides and underneath, which enables the treated stormwater to be discharged via appropriate connection elements.

For more than two decades, D-Rainclean® has stood for intelligent, decentralised stormwater treatment with a systematic approach. The combination of a high-performance filtration channel and a special filter substrate reliably cleans contaminated stormwater before it infiltrates, thereby providing long-term protection for soil and groundwater – particularly in the vicinity of roads, car parks, courtyards and roof areas. With the D-Rainclean® Filtration Channel FE (prefabricated element), Funke Kunststoffe has made installation even more efficient. The elements, which are factory-fitted with concrete foundations, enable quick, safe and weather-independent installation.

For sites without infiltration options, the FE Collect variant is now available. In this version too, the filtration channel features concrete foundations on the sides and underneath. In addition, the prefabri-

Advantages

- **For the treatment of stormwater runoff in accordance with DWA-A 102-2 and DWA-A 138-1 Efficiency:**
 - SS63 > 80%
 - dissolved substances > 75%
 - Pass-through value according to DWA-M 153 D = 0.15
- With DIBt approval Z-84.2-1
- Weather-independent and rapid installation
- High-quality concrete foundations (C40/50 WU)
- Long service life of up to 40 years possible

cated elements in the product range are fitted with a half-pipe shell (DN 300) beneath the trough elements. If on-site infiltration is impossible or prohibited, this allows the treated stormwater to be discharged via appropriate connection elements. In this way, the water can be reused or discharged into infiltration trenches or surface waters.

Watertightness is ensured by a specially tailored connector with multiple sealing lips, as well as shear load bolts for additional security. For the FE Collect variant, customers also have access to a side outlet, an inspection opening and cover plates with and without spigots.

D-Rainclean® Filtration Channel, Class B cover

Cost-effective, robust, easy to install

NEW
PRODUCT

The frame and grille of the new Class B cover are made of fibre-reinforced plastic.

Funke Kunststoffe has developed a new cover for the D-Rainclean® Filtration Channel: made from fibre-reinforced plastic, it contributes to cost-effective use and easy handling at the installation site.

With the D-Rainclean® Filtration Channel – a combination of a filtration channel and a substrate – Funke offers a professional solution for managing contaminated surface water. Whilst Class B 125, D 400 and E 600 cast iron covers were previously available, there is now a new Class B cover made of fibre-reinforced plastic that is suitable for use by passenger cars.

Modern material with many advantages

Due to its linear design, the D-Rainclean® filtration channel takes up significantly less space than a natural trough. Further benefits are now provided by the new Class B cover made of fibre-reinforced plastic. The 500 mm long and 380 mm wide structure fits the filtration channel perfectly and consists of a two-part assembly comprising a frame and grating, which significantly optimises installation and use. The components can be fitted precisely and securely. At the same time, the grate remains fully removable, which greatly simplifies maintenance and cleaning. Installation is also highly efficient. First, the channel

is positioned correctly. The frame is then placed on top and the grate inserted. It is secured using toggle bolts, which allow for quick and secure fastening. The system is suitable for use by cars.

Another technical feature is the integrated thrust pins on the frame, which engage with corresponding recesses in the channel body. This determines the position of the cover during installation and automatically aligns it. At the same time, these elements absorb longitudinal thrust forces that may arise, for example, when a vehicle brakes on the cover. This reliably prevents the cover from shifting. In addition, the system features interlocking teeth between the individual elements. On one side there are protrusions, on the other corresponding recesses. This connection ensures the components are securely positioned whilst also allowing for thermal expansion.

Funke Downpipe Sand Trap with smell stop

Small solution – big impact

NEW
PRODUCT

90,000

sand traps are
in use
in Düsseldorf

The Funke Downpipe Sand Trap retains solids and ensures clean, odour-free drainage.



The Funke Downpipe Sand Trap ensures clean connections between the downpipe and the sewer system. It retains mineral solids from stormwater runoff whilst significantly reducing nuisance smell from the sewer network. A compact solution with a big impact – particularly in the sensitive area of property drainage.

The Funke Downpipe Sand Trap was developed at the suggestion of and with the support of the Düsseldorf Municipal Drainage Authority (SEBD). In Düsseldorf, these components – known locally as ‘sand traps’ – have been in use for around 100 years – now it was time for a modern, practical upgrade. The result is not only functionally impressive but also provides straightforward access to one of the most heavily used areas of our infrastructure. This accessibility simplifies documentation for contractors and clients as well as for owners of the connecting pipes.

A clean solution

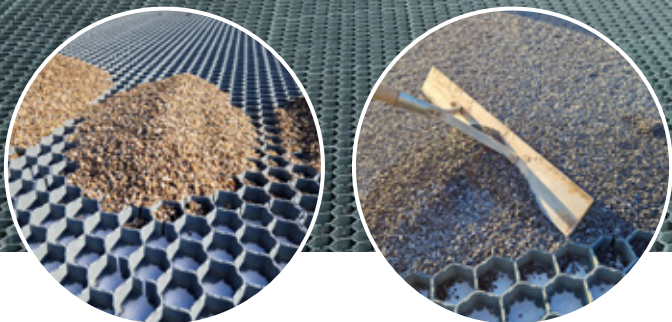
The Funke Downpipe Sand Trap meets the legal requirements of DIN 1986-100, which stipulates that the stormwater system must be designed in such a way that escaping sewer gases cannot cause smell nuisance when stormwater and wastewater are discharged into a combined sewer system.

The component, with a nominal diameter of DN/OD 200, enables space-saving installation and allows for cleaning, inspection and camera inspection without the need to remove the component. Stormwater is fed into the system via the downpipe and a connected pipe bend. An integrated immersion pipe directs the flow specifically downwards, ensuring that dirt particles settle safely. A precision-fit seal prevents smells from escaping, and the water level regulates itself automatically. For maintenance, which includes draining the silt chamber, the immersion pipe can be easily removed thanks to its stainless-steel handle. Components that can be rotated relative to one another allow the inlet and outlet to be flexibly adapted to local conditions. This enables optimised pipework routing and a particularly maintenance-friendly installation.

Golpla® XL Ground Reinforcement Grid

Environmentally sound and highly durable

NEW
PRODUCT



Cities are growing, and surfaces are being sealed. The consequences are felt in the form of heat, heavy rain and flooding. This is precisely where Golpla® XL comes in – with ground reinforcement grids that give water space again.

They enable infiltration and evaporation, support natural water cycles and transform sealed surfaces into an active contribution to a better urban climate. Ground reinforcement with Golpla® XL is particularly resource-efficient, as the grids are made from recycled material and have a low transport weight.

The product

Funke has developed the new, stable and traffic-bearing Golpla® XL Ground Reinforcement Grid based on the established Golpla® Grass Grids. Thanks to its high water permeability, stormwater can seep away, which helps maintain the natural water cycle and reduces the load on drainage systems. At the same time, soil moisture can evaporate at the surface. Traffic loads are absorbed via the webs and distributed across the sub-base. Filled with gravel or turf, the Golpla® XL

Advantages

- High infiltration and evaporation rates
- Natural appearance
- Versatile
- Lightweight, easy to lay
- Can be cut to size at the installation site
- Adaptable to curved shapes
- Low maintenance
- Cost-effective solution
- Blue Angel eco-label

is suitable, amongst other things, for paving areas open to vehicle traffic – such as car parks, courtyards, storage areas, in addition to bank and slope stabilisation. The same applies to fire brigade and garage access roads, campsites, courtyards and access areas. In addition, footpaths and trails can be created in gardens, parks or outdoor areas. The surface can be finished as a lawn or in various stone types, grain sizes and colours. When used for bank and slope stabilisation, the slabs prevent erosion on slopes or in areas at risk of flooding. Here, they are secured with ground anchors for additional stability on gradients exceeding 7%. The slabs are available in green, grey, black and beige. The green and grey versions have been awarded the German Blue Angel eco-label.

Funke Window Corner

A simple yet effective solution



NEW
PRODUCT

*With general
building authority
test certificate (abP)*

Funke Window Corners provide a simple and watertight solution for sealing connections between plinth waterproofing, concrete waterproofing and terrace waterproofing on doors and floor-to-ceiling windows. They are suitable for use in new-builds in both the residential and commercial sectors.

The transition between the wall plinth waterproofing and the lower window waterproofing is a typical weak point, particularly in double-shell external walls. If water penetrates the building through gaps in the waterproofing, this often leads to extensive damage to the walls or the floor structure. Renovation is usually time-consuming and expensive. The Funke Window Corner makes this a thing of the past. The product can be used for both side sealing connections in accordance with DIN 18531 and plinth sealing in accordance with DIN 18533. It is installed by the building contractor, window fitter or building waterproofing specialist and professionally finished after the doors or floor-to-ceiling windows have been fitted.

Better to seal it properly from the start

To prevent damage, professional sealing of this sensitive area should be a priority right from the start of

a new build. The Funke Window Corner connects to the plinth seal of the internal wall and, on the outside, to the frames of the doors or floor-to-ceiling windows, thereby bridging this sensitive sealing area. The lower seal can then be completed at the floor level of the door or floor-to-ceiling window. When installed correctly, this newly developed plastic component provides reliable protection against water ingress at the junction between the floor slab and the masonry.

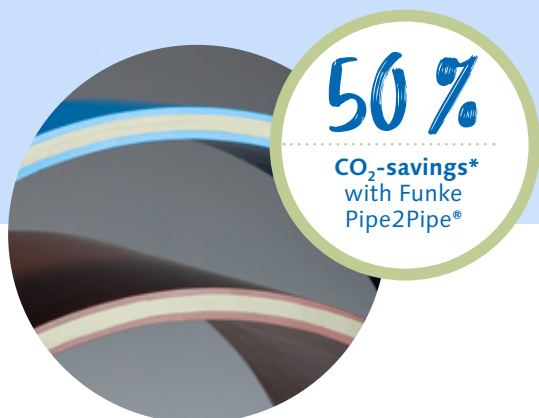
Various versions available

The main component of the Funke Window Corner is a custom-made PVC U-shaped moulding with a factory-fitted EPDM membrane. Types 150 (renovation corner) and 170 (standard corner), which differ depending on the floor height, feature a PVC upstand at the front.

The lower and side sealing connections are made using a 1.3 mm thick self-adhesive EPDM membrane fitted at the factory, the excess of which is bonded to the floor recessed profile and the frame after installation of the door or floor-to-ceiling window, with a width of 30 mm horizontally and ≥ 20 mm vertically.

Modern urban development in Heidelberg

Climate-resilient stormwater management with a system



With the Funke Pipe2Pipe® Sewer Pipe System, Funke is consistently driving forward resource-efficient civil engineering.

The innovative pipe consists largely of high-quality PVC-U recylate, combined with PVC-U produced using energy-efficient manufacturing processes. This significantly reduces the carbon footprint compared to conventional solutions – whilst maintaining the same technical performance. Funke Pipe2Pipe® impresses with its high ring stiffness, watertightness and durability, and is suitable for applications ranging from sewer connections to collectors. Planners, construction companies and local authorities benefit from tested quality, easy installation and a sustainable materials strategy. The system meets the highest standards for load-bearing capacity and leak-tightness, whilst supporting a resource-efficient infrastructure. This new development demonstrates how civil engineering works today – economically, efficiently and with a focus on the future.

Designing urban spaces to be both climate-resilient and liveable is one of the central tasks of modern urban planning. The Heidelberg Bahnstadt demonstrates how this can be achieved.

Where freight trains once shunted, one of the world's largest passive house developments is now taking shape across 116 hectares – just a few minutes' walk from the main station. Alongside renewable energy supply, green roofs and energy-efficient construction, a forward-thinking stormwater management concept plays a key role. Along the street 'Langer Anger', water basins are being constructed over a stretch of just under 1 km to manage stormwater. Four of the seven basins have already been completed, whilst three



Heidelberg's Bahnstadt aims to be a global model for sustainable urban construction. A total of 510 m of climate-friendly Funke Pipe2Pipe® sewer pipes in nominal diameters DN/OD 160 to DN/OD 500.



"In conjunction with the filter basins, the combination of Funke Pipe2Pipe® Sewer Pipes with KS-Bluebox® elements serves to maintain water quality in the basins and to protect groundwater."

Manuel Ballarini, *Landscape and Forestry Office, Green Spaces Department, City of Heidelberg*

further basins between Pfaffengrunder Terrasse and Kumamotostrasse – 280 m long and with a capacity of around 1,700 m³ – are currently under construction. The permanently filled basins improve the microclimate through evaporation whilst also creating attractive recreational areas. During heavy rainfall, excess water seeps away through lawns or is channelled via overflow boxes into a gravel drainage trench.

A well-thought-out concept

In the second construction phase, however, stormwater will no longer be discharged unfiltered. To prevent phosphorus inputs from green roofs and thus algae growth, the city is employing a well-thought-out retention and filtration system. Five KS-Bluebox® elements from Funke Kunststoffe, with a total volume of just under 180 m³, serve as intermediate storage. In addition, around 510 m of climate-friendly Funke Pipe2Pipe® Sewer Pipes in nominal diameters ranging from DN/OD 160 to DN/OD 500 are being laid, creating further storage capacity.

The stormwater flows through the Funke Pipe2Pipe® pipes into the KS-Blueboxes, is throttled from there and fed into a filtration system, and only then fed into the basins. Filtration via a substrate enriched with iron hydroxide significantly reduces the nutrient content and protects water quality and groundwater. The size of the individual KS-Blueboxes was precisely adapted to the respective inflows on the basis of simulations.

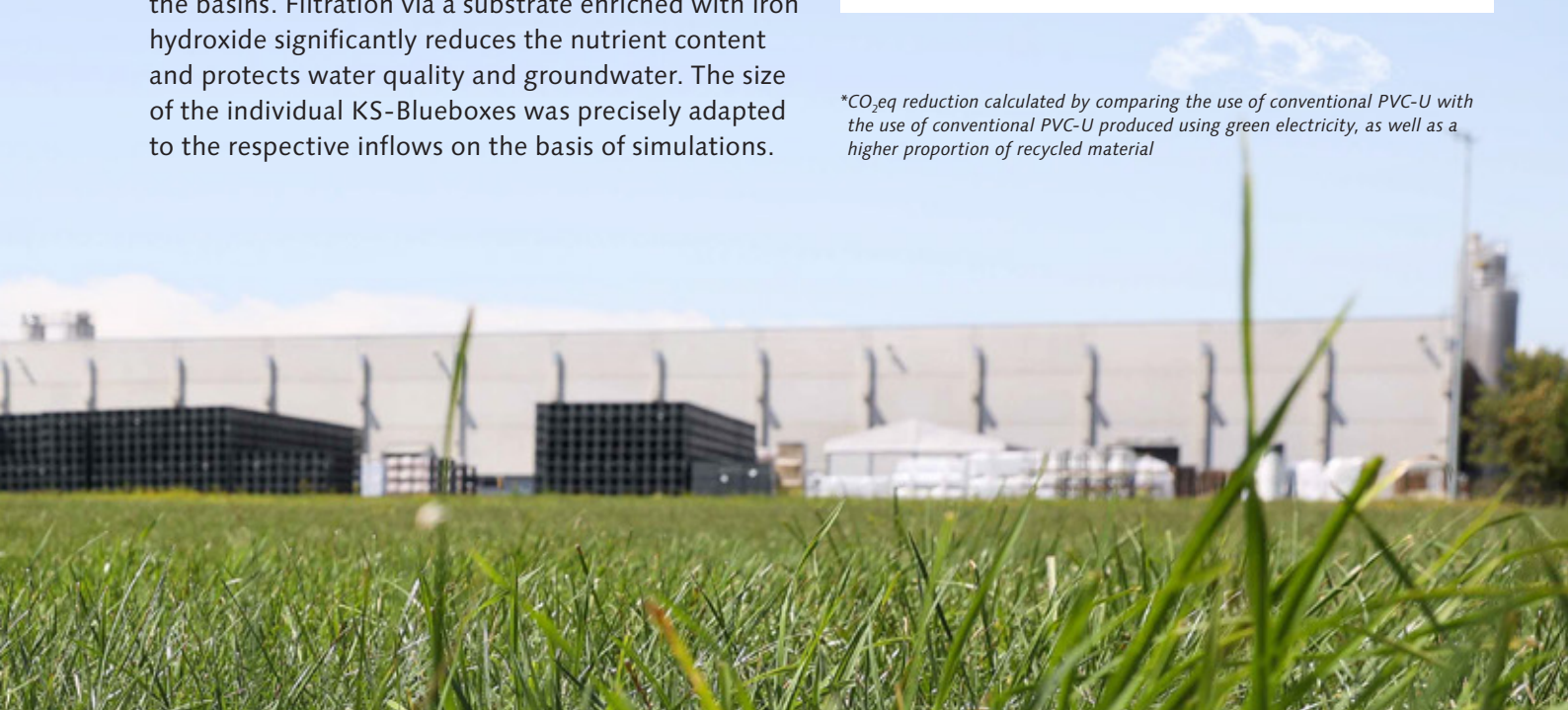


The Funke Pipe2Pipe® Sewer Pipe System also includes fittings, such as the bends shown here in the picture. Funke's VPC® Pipe Couplings are also being used in Heidelberg.

Facts

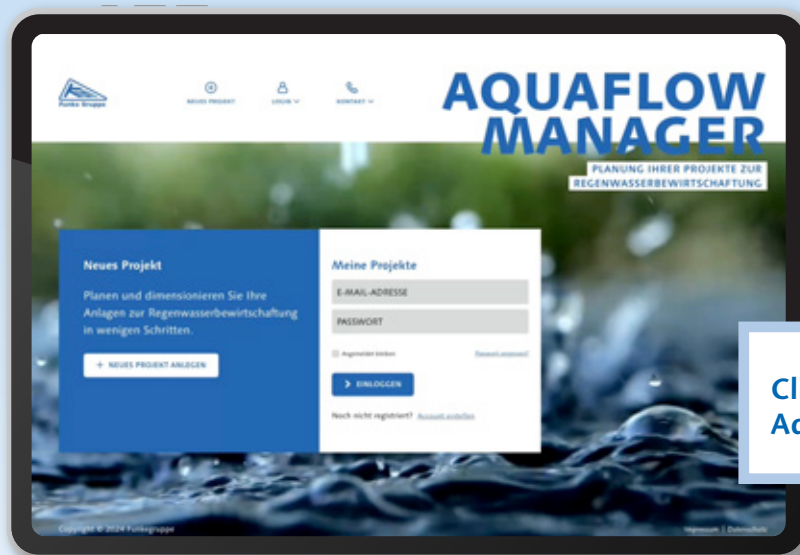
- **Nominal diameters DN/OD 160 to DN/OD 500**
- **Installation of 510 running metres of pipework**
- **Total weight of pipes (extruded) and fittings (injection-moulded) approx. 11,500 kg**
- **Funke Pipe2Pipe®: 50% CO₂ savings* (12,5 tCO₂eq)**
compared to HS® Sewer Pipes from 2015

*CO₂eq reduction calculated by comparing the use of conventional PVC-U with the use of conventional PVC-U produced using green electricity, as well as a higher proportion of recycled material



AquaFlowManager

Digital planning aid for stormwater management



Click here for the
AquaFlowManager:



With the newly developed AquaFlowManager, Funke Kunststoffe provides local authorities, planners and contractors with a calculation tool for modern stormwater management that supports the planning of infrastructure measures.

Regardless of whether it involves treating, infiltrating, retaining and regulating stormwater or constructing stormwater and fire-fighting water storage tanks: in just a few steps and after entering the key project parameters, users receive practical solution proposals for product selection as well as a cost estimate including the necessary tender documents and item lists.

Precise planning is essential

The demands on stormwater management are increasing: more frequent heavy rainfall events, more heavily sealed surfaces and growing requirements from local authorities make precise planning increasingly important. For planners, engineering firms and civil engineering companies, this means reliably taking hydrological and hydraulic relationships into account at an early stage of the project. Funke's AquaFlowManager offers efficient support for this.

The focus is on the design of stormwater management systems. Whether it's an infiltration system, a reten-

tion facility or a drainage solution, designers must determine the volume of water generated during rainfall events and the required capacity of the systems. The AquaFlowManager handles these tasks based on a small amount of project data, such as the catchment area, soil type or rainfall intensity. Runoff volumes, required storage volumes or throttled discharges are calculated automatically, providing a reliable basis for planning. This saves time and reduces the risk of miscalculations.

A further advantage is the direct link between calculation and product selection. Once the system has been dimensioned, the tool suggests suitable system solutions and compiles the required components. Planners thus quickly receive a technically coordinated system configuration that can be integrated into project planning. At the same time, the AquaFlowManager takes account of applicable standards and regulations, for example through stored design approaches or current rainfall data. This facilitates standard-compliant design and increases certainty during the approval planning process. With numerous add-ons, such as tender texts tailored to the project, the AquaFlowManager becomes a comprehensive digital planning tool for the efficient, safe and practical implementation of stormwater management projects.



Infrastructure needs forward thinkers

Funke Substrates

Technical substrates for decentralised and effective treatment of polluted stormwater runoff – the perfect solution.

The substrates, made from natural minerals and organic matrix components, are characterised by high adsorption and filtration capabilities. They support mechanical, chemical and biological purification processes and enable the effective reduction of various pollutants. Depending on the formulation, the substrates are specifically designed to address certain types of contamination, such as the removal of pesticides, phosphates or organic trace substances. They are typically used in retention filter systems, infiltration basins, infiltration systems and filtration chambers. For specific contamination from stormwater runoff, we are happy to assist you with tailor-made optimisation and adaptation of our substrates.



More information on
Funke's substrates
can be found here:



Tree protection

Solutions for viable urban greenery

Urban trees are indispensable when it comes to providing liveable urban spaces. They provide shade, improve the microclimate, sequester CO₂ and enhance the quality of life in public spaces. At the same time, they are under increasing stress: sealed surfaces, soil compaction, restricted root space and prolonged dry spells hinder healthy development. This is precisely where Funke Kunststoffe's tree protection solutions come in.

With well-designed system solutions, Funke supports local authorities and planners in designing tree locations that are sustainable and functionally reliable. Specialised tree irrigation systems enable the targeted delivery of water and nutrients directly to the root zone – particularly important during the establishment phase

and during prolonged drought. Supplementary aeration elements ensure a continuous supply of oxygen to the root zone and help prevent waterlogging. This creates stable growing conditions, even under challenging inner-city conditions.

Sustainable stormwater management

Furthermore, stormwater solutions can be intelligently integrated into the supply concept. Surface water can be specifically collected, filtered and fed to the tree site – an important contribution to sponge city concepts and sustainable stormwater management.

For long-lasting tree locations

Whether deep aerators, irrigation brackets, watering rings or solutions for treating, infiltrating or retaining stormwater – the examples show that we can do a great deal to ensure the vitality and preservation of our street trees. There are therefore no limits to the combination of products. The effort is worth it; after all, urban greenery rewards us with shade, clean air, cooling, and protection against flooding and storms. The modular systems are tried and tested, low-maintenance and flexible to plan. Local authorities benefit from long-lasting tree sites, lower maintenance costs and the long-term safeguarding of urban green infrastructure. Planners receive technically sophisticated solutions that sensibly combine ecological requirements with infrastructural specifications.



More information
on the topic of
tree protection:



BeWa® Irrigation Gully

A solution that protects trees



The lower connection of the BeWa® drain is linked to the stormwater sewer; the upper connection directs the collected surface water to the tree location.

The BeWa® Irrigation Gully has been designed for the passive irrigation of tree planting sites. It is connected to the stormwater drain on one side and can direct the collected stormwater to the tree planting site on the other. Its design allows for a switch between summer and winter operation.

The intelligent irrigation drain connects the stormwater channel to the tree site and uses natural stormwater for passive, sustainable irrigation. In this way, rain becomes a lifeline – without any additional energy consumption or technology.

A small component with a big impact

Its particularly well-thought-out design allows for switching between summer and winter operation: in summer, pre-cleaned stormwater flows directly into the root zone; in winter, a simple rotation of the guide element protects the tree from salty meltwater. In just a few simple steps, irrigation becomes a source of relief and the tree remains healthy. The BeWa® drain

is designed for a catchment area of up to 250 m². A robust concrete base plate, the wall-reinforced PVC-U lower section with a nominal diameter of DN/OD 500 and the two-part cast cone plate form a durable system that adapts flexibly to the road profile. A channel with a 10° gradient to the sewer connection ensures the irrigation drain is completely emptied.

Responsibility for the future

The BeWa® drain stands for intelligent stormwater management that combines ecological responsibility with technical precision – for greener cities and strong trees that will continue to provide shade tomorrow.

More information on the BeWa® Irrigation Gully from Funke can be found here:



Funke Dry Trap Gully

No more weak points



"I'm glad that we could avoid using a mortar joint during installation. With this product, Funke has presented a solution to a widespread problem. That's what I call progression."

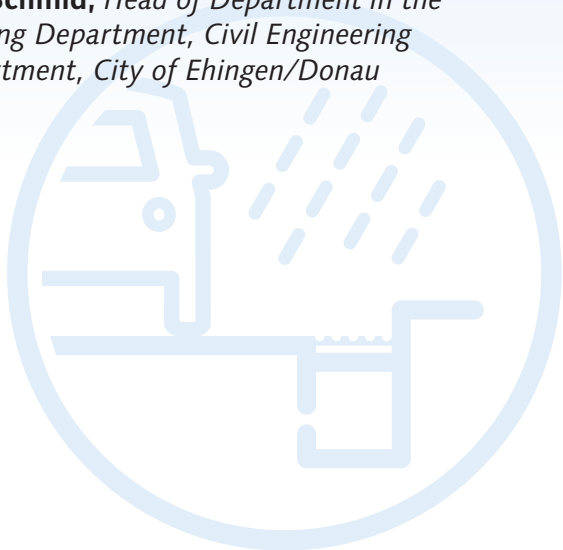
Rolf Schmid, Head of Department in the Building Department, Civil Engineering Department, City of Ehingen/Donau

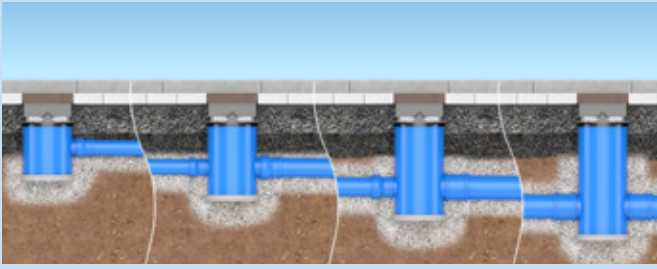
With the Dry Trap Gully, Funke has developed an innovative street drainage element that is specifically tailored to the requirements of local authorities, planners and contractors. The focus is on durable, easy-to-install and hydraulically efficient solutions for safe and sustainable surface drainage.

Modern traffic areas place high demands on drainage technology. In addition to the reliable drainage of stormwater, cost-effectiveness, ease of maintenance and durability play a central role. Funke Dry Trap Gullies combine these requirements in a well-designed system. The wall-reinforced base made of high-quality plastic is corrosion-resistant, easy to handle and permanently watertight. In combination with a robust concrete base plate, this creates a stable yet easy-to-install solution for long-term use in municipal road construction.

Wide range of customisation options

A key feature is its flexible adaptability. Adjustable top-section solutions allow for precise alignment in both longitudinal and transverse directions – ideal for varying gradients or complex road profiles. Multiple installation heights and connection options in





The Dry Trap Gully with through-flow channel is also suitable for a collector pipe.



Thanks to the support jaws and bushes, the required height and gradient can be perfectly adjusted.



Funke Dry Trap Gully with Funke Quick Coupling® and submerged pipe bend

DN/OD 160 or 200 ensure secure integration into existing or new sewer networks. This gives planners design flexibility, whilst contractors benefit from efficient installation.

Also for special installation situations

Depending on requirements, various variants are available: kerb gullies with wet sediment traps ensure reliable sediment retention and reduce the entry of solids into the sewer network. Optionally integrable filter systems improve the retention of fine particles and support compliance with increasing environmental requirements.

Advantages

- Insert adjustable in both longitudinal and transverse directions (bushes)
- No damage-prone mortar joint required
- Fine adjustment of height and slope using fibre-reinforced bushes
- The base does not protrude into the carriageway, but sits beneath the kerb (300/500)
- Load transfer takes place via the plastic base
- Extremely quick installation
- Each component weighs only approx. 25 kg
- Durable, low-maintenance, sustainable
- Resistant to corrosion and de-icing salt
- Articulated connection (0–11°)
- Can be combined with standard cast iron covers to DIN EN 124/DIN 1229 for drains to DIN EN 4052
- Additional shim ring for PAM VIATOP covers

Funke also offers suitable solutions for special installation situations. Kerb Gullies with Innolet Gully Filter allow for use in shallow installation depths or in areas such as footpaths and cycle paths. Different cover sizes and load classes in accordance with DIN EN 124 ensure a standard-compliant design from residential areas to heavily trafficked areas.

For local authorities, this means durable systems with high operational reliability and low maintenance requirements. For planners, it means technical flexibility as well as standard-compliant and detailed solutions. Contractors benefit from practical products with systematic logic and ease of use on site.

More information on the Funke Kerb Gully can be found here:

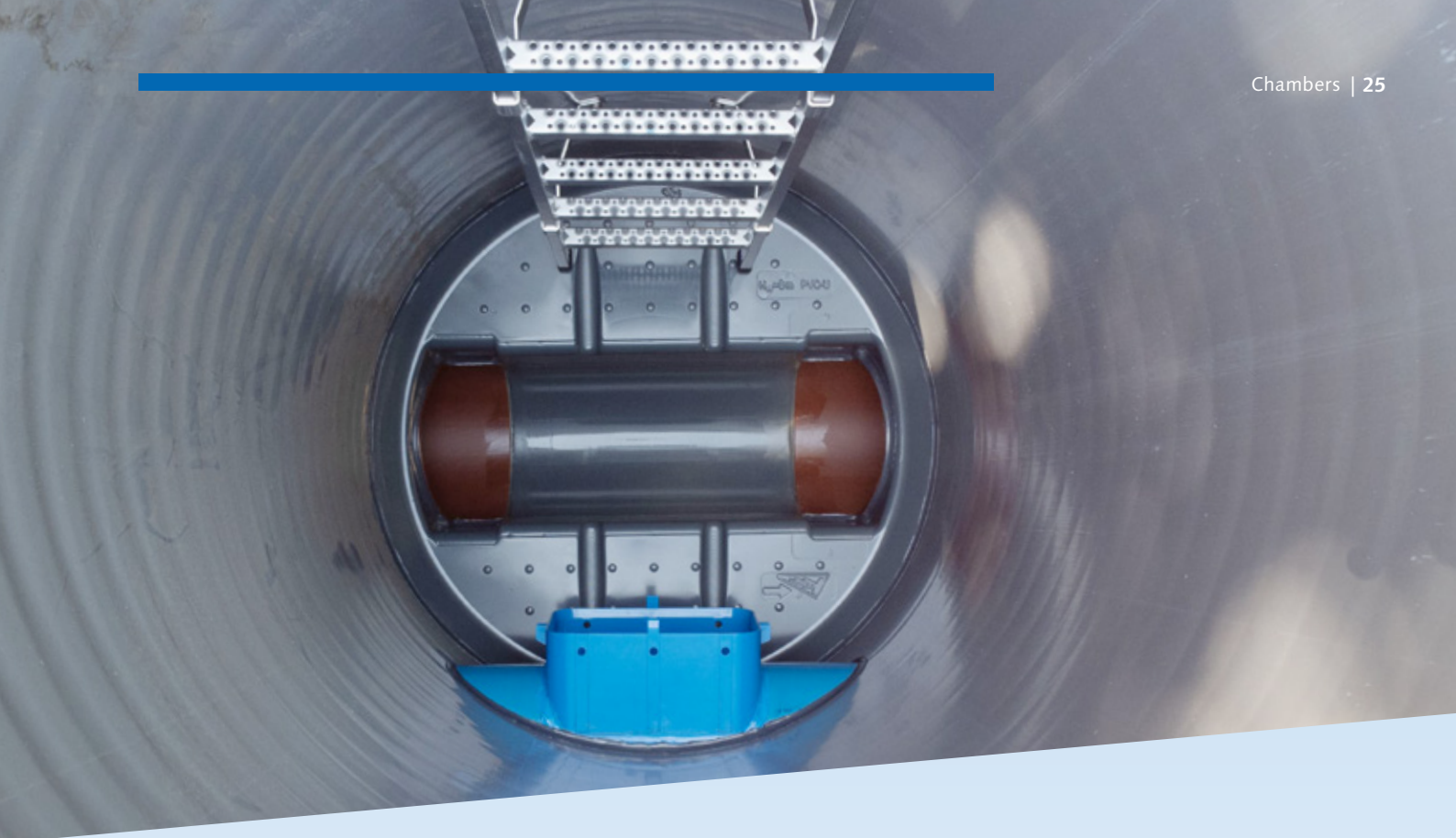


Infrastructure needs visionaries

Accessible chambers

from Funke ensure optimum accessibility to the sewer system and can be designed as diversely as their tasks.





Chambers up to DN/OD 1200

Easy access

Funke Kunststoffe has expanded its range of accessible PVC-U chambers: in addition to the DWCor® chambers DN/ID 800 and 1000, the plastic chamber DN/OD 1200 is now also available. This provides local authorities and planners with additional planning reliability and flexibility for demanding civil engineering applications.

The DWCor® chambers DN 800 and DN 1000 consist of a robust profiled pipe. The chamber base is fitted as standard with a channel DN/OD 160 to 500. Vario-Coupler or moulded tapered ends allow for different connection options. When properly compacted, the profiled outer surface increases the buoyancy resistance of the riser pipe and ensures a permanently stable integration into the ground. The DWCor® chamber is also available as a pressure relief, energy conversion, throttling or cleaning chamber.

The new plastic chamber DN/OD 1200 has an internal diameter of at least 1,100 mm and is particularly suitable for large pipe connections DN/OD 630 to 800 as well as complex channel geometries, even in smaller nominal diameters. An eccentric adapter plate allows combination with cones and cover plates of the DWCor® chamber DN 1000.

Safe access for:

- Inspection and maintenance
- Cleaning work
- Refurbishment and repair work

Solution-oriented, user-friendly, cost-effective Funke products in practice



Achern

The town of Achern has developed the "Bühli" new-build area, comprising 65 building plots, in Mösbach. A 1,000 m³ storage tank (D-Raintank 3000®) protects the neighbourhood against 10-year rainfall, whilst the drainage system is designed to cope with 100-year floods.

Special feature: Flood prevention in a new residential neighbourhood

Funke systems: D-Raintank 3000®, D-Raintank 3000 smallbox®, HS® sewer pipe system



Ansbach

In the Meinhardswinden district of Ansbach combined sewer and stormwater drains were renewed using compact systems. In use: HS® sewer pipes, plastic chambers and DWCor® Combination Chambers, which allow both sewers to be routed separately within a single chamber.

Special feature: renewal of mixed and infiltration water pipes

Funke systems: HS® Sewer Pipe System, Funke Plastic Chamber, internal Funke-ILA backdrop, DWCor® Combination Chamber, HS® Laser and Cleaning Access



Rostock

Underground, low-maintenance fire water storage tanks have been installed near a shopping centre due to reopen. They ensure the water supply in the event of a fire, particularly when ponds have dried up and drinking water supplies are limited in summer.

Special feature: Underground fire water storage tanks for Rostock shopping centre

Funke systems: KS-Bluebox®, Extraction Chamber with connections for the fire brigade, HS® Sewer Pipe System

Heuneburg

Heuneburg in Upper Swabia is being developed into a Celtic theme park. As a preliminary step, the site's drainage infrastructure is being modernised. A sophisticated drainage system using Funke products is being implemented.

Special feature: Creation of stormwater retention and separate sewerage system

Funke systems: D-Raintank 3000® System with inspection and flushing block, Funke Cleaning Chamber, Funke Control Chamber, HS® Slotted Pipe, HS® Sewer Pipe System





Oelde

HS® Sewer Pipes were used for the Weitkamp II development. Despite the challenging conditions, the work was carried out efficiently. Pipes with DN/OD 200 to 630, including fittings, were laid.

Special feature: limited space, low gradient and difficult ground conditions

Funke systems: HS® Sewer Pipe System with increased ring stiffness (16 kN/m²), various fittings



Bexbach

The DWCor® 3000 Sewer Pipe System was once again used during a sewer renewal project. Reasons included its ease of handling, precise drilling capabilities and perfectly fitting connections. Adapters and pipe couplings were also integrated in accordance with the system.

Special feature: reduction in nominal diameter during sewer renewal

Funke systems: DWCor® 3000 Sewer Pipe, Funke BI-Adapter®, VPC® Delta-Ring, VPC® Pipe Coupling, HS® Sewer Pipe System, Funke Dry Trap Gully

Homburg

Stormwater sewers with large nominal diameters were designed for an industrial estate to cope with heavy rainfall. Among other things, around 580 m of DWCor® 3000 pipes (DN/ID 800 and 1000) were laid. The reasons were installation and cost advantages.

Special feature: Installation of large-diameter pipes for high precipitation volumes

Funke systems: DWCor® 3000 Sewer Pipe DN/ID 800 and DN/ID 1000, CONNEX-Junction, HS® Sewer Pipe System



Fehmarn

The Burgstaaken municipal and fishing harbour on Fehmarn was modernised in 2025. Among other things, the quay facilities, jetties, operational areas and drainage structures were renewed. In the quay area, 14 Dry Trap Gullies with drainage filters now treat stormwater.

Special feature: Dry Trap Gullies with outlet filters treat the stormwater runoff

Funke systems: Dry Trap Gully with wet silt trap and Funke Quick Coupling, fitted with a CompactClean® drain filter





From the initial idea to successful implementation We're personally here for you

At Funke Kunststoffe, you and your project are our focus. It's not just about manufacturing and supplying high-quality plastic system solutions. It's about supporting you from the very start, thinking alongside you and working together to find the best solution – reliably, with dedication and mutual respect.

- **Comprehensive project support**

Whether it's an initial project idea or concrete planning: our experienced specialist advisors in the field and in-house take the time for you. We analyse your individual requirements directly on site and develop cost-effective, practical solutions.

- **Reliable support on site**

We won't leave you to it during implementation either. With our qualified site and application engineers, we ensure your teams receive thorough training on our products and systems. Together, we lay the foundations for professional installation and maximum quality.

- **Quick access, clear points of contact**

You can reach us quickly and easily. Our convenient contact finder takes you directly to your personal contact. In addition, our website offers a wide range of services and digital tools – from detailed product information and tender documents to practical planning aids for accurate sizing.



AquaFlowManager



Sewer connection finder



Pipe connection finder